WSIS Stocktaking 2023 Global Report

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(Draft 2.0)

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Introduction

Introduction to the Report on the WSIS Stocktaking 2022

The principal role of the WSIS Stocktaking exercise is to leverage the activities of stakeholders working on the implementation of WSIS outcomes and share knowledge and experience of projects by replicating successful models designed to achieve the Sustainable Development Goals (SDGs) of the 2030 Agenda for Sustainable Development.

The WSIS Stocktaking process was initiated in October 2004 during the Tunis phase of WSIS, and in the years since has come to comprise the database of:

- exchanges of information on projects
- sharing of best practices of certain regions
- initiatives related to the implementation of the 11 WSIS action lines
- linkage between the 11 action lines and the SDGs – a linkage that becomes more and more important over the years.

The WSIS Stocktaking process provides a register of activities – including projects, programmes, training initiatives, conferences, websites, guidelines, toolkits, etc. – carried out by governments, international organizations, the private sector, civil society, and other entities. To that end, in accordance with paragraph 120 of the Tunis Agenda for the Information Society adopted by WSIS, ITU has been maintaining the WSIS Stocktaking Database as a publicly accessible system providing information on information and communication technology (ICT)-related initiatives and projects with reference to the 11 WSIS action lines (Geneva Plan of Action) and 17 SDGs.

The WSIS Stocktaking Platform, launched in February 2010, transformed the previous static database into a unique portal to highlight ICT-related projects and initiatives in line with WSIS implementation. The platform offers stakeholders exciting and interactive networking opportunities via Web 2.0 applications. Within the framework of the WSIS Stocktaking Platform, all types of stakeholders can benefit from the "global events calendar", "global repository" and "blog" components. It provides the opportunity for stakeholders to network, create partnerships and add value to projects at the local, national, regional, and international levels.

The redesigned WSIS Stocktaking Platform was launched at the end of October 2015, introducing a more interactive interface with several innovative aspects that will be more appealing to users. The new stocktaking platform features a new questionnaire that reflects the transition from millennium development goals (MDGs) to SDGs, mirroring the impact of

freshly submitted ICT projects on SDGs. With the year-round ongoing call for updates and new entries, all stakeholders are invited to continue sharing best practices on the WSIS Stocktaking Platform and emphasize how ICT-related initiatives and projects are enabling SDGs.

The direct linkages between the WSIS action lines and the SDGs set out below are crucial to continuing to strengthen the impact of ICTs for sustainable development. Each United Nations action line facilitator has analyzed the connections and relations between their respective action lines and the proposed SDGs and their targets to create a clear and direct linkage and an explicit connection between the key aim of WSIS – harnessing the potential of ICTs to promote and realize the SDGs – and the post-2015 development agenda, to contribute to the realization of the latter. Most of the projects presented in this Report clearly showcase the linkage between their related action lines and the various SDGs and targets. At the WSIS Forum 2015, the SDG matrix was extremely well received by the WSIS community, offering as it does a better explanation of the potential of ICTs as enablers for sustainable development. A new component was introduced in the WSIS Stocktaking process in the form of reporting ICT success stories to best showcase the possible achievement of SDGs through the implementation of WSIS action line-related projects.

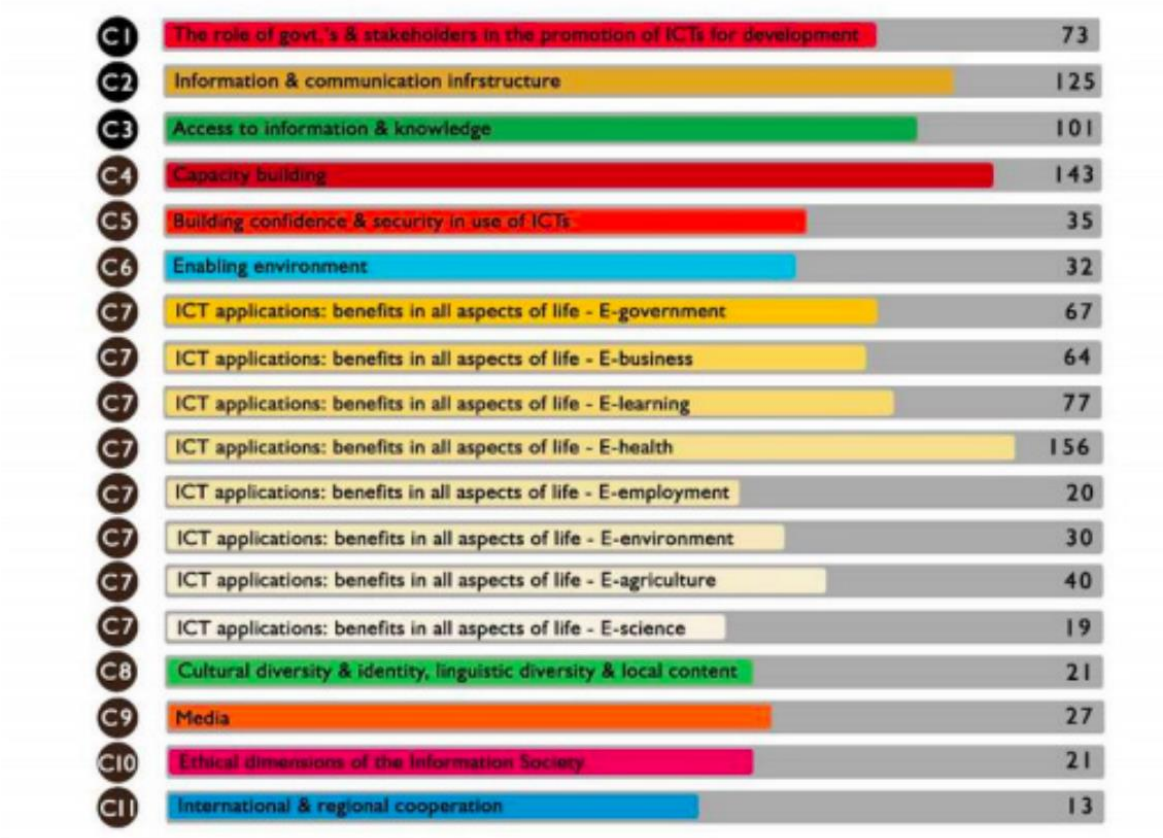
The principal role of the WSIS Stocktaking exercise is to leverage the activities of stakeholders working on the implementation of WSIS outcomes and share knowledge and experience of projects by replicating successful models designed to achieve the SDGs.

The WSIS action lines break down into 18 categories

These include:

1. the role of governments and all stakeholders in the promotion of ICTs for development
2. information and communication infrastructure
3. access to knowledge and information
4. capacity building
5. building confidence and security in the use of ICTs
6. enabling environment
7. e-government
8. e-business
9. e-learning

10. e-health
11. e-employment
12. e-environment
13. e-agriculture
14. e-science
15. cultural diversity and identity, linguistic diversity and local content
16. media
17. ethical dimension of the information society
18. international and regional cooperation.





The 17 Sustainable Development Goals

These include:

1. Goal 1: End poverty in all its forms everywhere.
2. Goal 2: End hunger, achieve food security and improved nutrition and promote sustainable agriculture.
3. Goal 3: Ensure healthy lives and promote well-being for all at all ages.
4. Goal 4: Ensure inclusive and equitable quality education and promote lifelong learning opportunities for all.
5. Goal 5: Achieve gender equality and empower all women and girls.
6. Goal 6: Ensure availability and sustainable management of water and sanitation for all.
7. Goal 7: Ensure access to affordable, reliable, sustainable and modern energy for all.
8. Goal 8: Promote sustained, inclusive and sustainable economic growth, full and productive employment and decent work for all.
9. Goal 9: Build resilient infrastructure, promote inclusive and sustainable industrialization and foster innovation.
10. Goal 10. Reduce inequality within and among countries.
11. Goal 11: Make cities and human settlements inclusive, safe, resilient and sustainable.
12. Goal 12: Ensure sustainable consumption and production patterns.
13. Goal 13: Take urgent action to combat climate change and its impacts by regulating emissions and promoting developments in renewable energy.
14. Goal 14: Conserve and sustainably use the oceans, seas and marine resources for sustainable development.
15. Goal 15: Protect, restore, and promote sustainable use of terrestrial ecosystems, sustainably manage forests, combat desertification, and halt and reverse land degradation and halt biodiversity loss.
16. Goal 16: Promote peaceful and inclusive societies for sustainable development, provide access to justice for all and build effective, accountable and inclusive institutions at all levels.
17. Goal 17: Strengthen the means of implementation and revitalize the global partnership for sustainable development.

Executive Summary

WSIS Stocktaking 2023 Report: Executive Summary

This year, 966 ICTs-related projects from around the world were submitted for the Report on the WSIS Stocktaking the WSIS Stakeholder community. The 14th edition of the Report on WSIS Stocktaking set a new record of global multi-stakeholder engagement in implementation of WSIS action lines for SDGs.

Since the WSIS Stocktaking process was first established, thirteen editions of Global WSIS Stocktaking reports were prepared; each of them included the latest information on WSIS-related activities as contributed by stakeholders. This exercise provided stakeholders with a platform presenting an overall picture of and sharper insight into the latest WSIS activities undertaken toward achieving WSIS goals.

The 2023 edition of the Report on the WSIS Stocktaking is the continuation of the series. This 14th edition reflects around 966 activities relating to ICTs for development, submitted to the WSIS Stocktaking Platform from 1 September 2022 to 21 January 2023, each one highlighting the efforts deployed by stakeholders involved in the implementation of the SDGs. The Report is based on the multi-stakeholder approach, including input from stakeholders from all over the world responding to ITU's official call in 2023 for Stocktaking updates and new entries. The inputs from WSIS action line facilitators and co-facilitators also contributed to the present Report. It emphasizes achievements, highlights trend, and draws conclusions consistent with the action lines referenced in the Geneva Plan of Action. The report provides key findings on emerging trends in the development of the information society, and a guide to major activities being implemented by facilitators, co-facilitators, and other stakeholders in the 18 areas covered by the 11 action lines.

The WSIS Stocktaking database (www.wsis.org/stocktaking) was introduced in 2010 and currently has more than 14,000 entries and a growing community more than 400,000 stakeholders. It is a unique global tool for collecting information and regular reporting on ICT-related initiatives and projects, carried out by governments, international organizations, the business sector, civil society, academia, and other entities, in the context of 11 WSIS action lines.

The United Nations Economic and Social Council resolution 2017/21 on "Assessment of the progress made in the implementation of and follow-up to the outcomes of the World Summit on the Information Society" reiterates the importance of sharing best practices at the global

level and, while recognizing excellence in the implementation of the projects and initiatives that further the WSIS goals, encourages all stakeholders to submit ICT-related projects and initiatives to the WSIS Stocktaking platform. The same resolution also reiterates the importance of recognizing excellence in the implementation of the projects and initiatives that further the goals of the WSIS process and encourages all stakeholders to nominate their ICT-related projects for the annual WSIS Prizes contest, as an integral part of the WSIS Stocktaking process.

With the year-round ongoing call for updates and new entries, all stakeholders are invited to continue sharing best practices on the WSIS Stocktaking Platform and emphasize how ICT-related initiatives and projects are enabling SDGs.

All WSIS-related publications, including the Reports on the WSIS Stocktaking, are available to download at the ITU Bookshop.

WSIS Action Line C1. The role of governments and all stakeholders in the promotion of ICTs for development

Non-reimbursable contributions for deployment of connectivity infrastructure in towns with less than 30,000 inhabitants

ENACOM considers Information and Communication Technologies (ICT) as a basic and indispensable human right for building a federal nation and digital citizenship. In this sense, we promote the financing of programs in order to bridging of the digital divide; create new jobs and develop specialized workforce for industries. As a distinctive feature, the Call to receive Non-Reimbursable Contributions in towns with up to 30,000 inhabitants makes it possible to improve or deploy network infrastructure for broadband access and its extension in unserved or underserved areas. The program finances up to 80% of the financeable items of the projects presented. As a result of this public policy several projects have been approved and the amount awarded exceeded 2,500 million pesos (nearly U$S 14.500.000)

Website: https://www.enacom.gob.ar/SU/concursos#servicio

Target Beneficiary Groups: RURL

Replicable Description: In most countries, the provision of ICT services is licensed or authorized by the National Administration, thus by having a specific universe of providers, it can be replicated.

Sustainable Description: The economic resources required for the execution of the program come from the Universal Service Fund, established by Law No. 27.078

WSIS Values Promotion: Promote the deployment of infrastructure and technological updating to strengthen the creation of capacities associated with ICTs. Allow more citizens to access the Internet without the geography of cities being an obstacle. Promote the availability of network infrastructure that allows the generation of new job and inclusion opportunities for those locations that are far from urban centers outside the coverage of large ISP, promoting access to information, education, culture, entertainment, and health, among others. Expand access to the digital environment for all citizens under equal conditions in terms of quality and affordability. Reaffirm the shared responsibility, cooperation and solidarity that promotes the public connectivity policy in order to bridge the digital divide.

WSIS Action Lines: 1, 2

SDGs: SDG4, SDG5, SDG8, SDG10, SDG11

Stakeholder Type: Government

Country, Region: Argentina, Latin America and the Caribbean



The Youth Empowerment Scheme in Information & Communications Technologies

The Youth Empowerment Scheme in Information & Communications Technologies (YES-ICT) is a youth-owned network of business that provides ICT services across Botswana. The Franchise eco-system comprises of 23 regional centres at full roll-out with each centre owned and operated by citizen youth ICT graduates. The companies offer aggregated ICT services including computer maintenance and repairs, systems support, sale of ICT consumables, internet access and computer literacy training to communities. On full roll out, YES-ICT franchise business seeks to create 514 sustainable jobs for graduate youth by placing at least one Affiliate Technician (AT) in every village in the country. The initiative seeks to reduce the high number of unemployed ICT gradates (4,000 unemployed ICT graduates as of 2015), provide universal access to ICT and services, cultivate the spirit of entrepreneurship in youth people as well as close the digital divide. The Founder and Champion of the initiative, Ms Rona Tshiamo is working with the Association of Citizen-owned Companies in Information Technology (CoBIT) for its experienced member companies to subcontract YES-ICT companies for nationwide project. Currently, some YES-ICT companies are successfully subcontracted for the nationwide Cisco Network Standardisation Project. YES-ICT companies target customers such as communities, government departments and ministries, schools, parastatals and private companies in need to ICT services or access to them.

Website: https://www.facebook.com/pg/Yes-Ict-1696609913892279

Target Beneficiary Groups: YOUTH

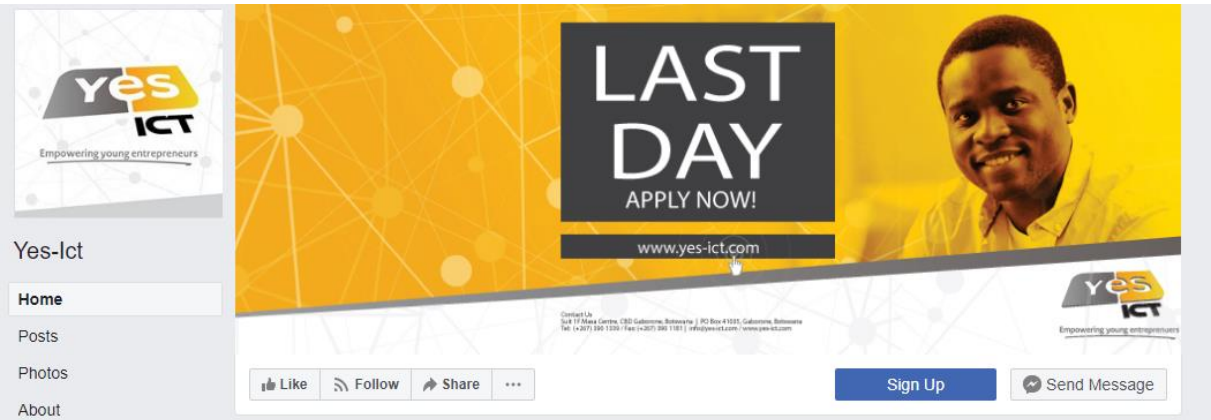
WSIS Values Promotion: The companies offer aggregated ICT services including computer maintenance and repairs, systems support, sale of ICT consumables, internet access and computer literacy training to communities.

WSIS Action Lines: 1, 2, 3

SDGs: SDG4, SDG8

Stakeholder Type: Private Sector

Country, Region: Botswana, Africa



Mascom Kitsong Centre (Telecentres)

The Mascom Kitsong Centers programme's objectives are: - To contribute to the ICT sector and respond to the global need of transforming small villages into knowledge-based economies. - To empower unemployed youth by giving them a business to operate. Village Selection The program has created employment for the Kitsong Centre operators and some of them have even hired assistants. Most of the communities like the local Police officers, tribal administration offices and Village Development Committees have been exposed and trained on ICT. Some operators have also offered free ICT training to Primary School students at their villages.

Website: https://www.mascom.bw/mascom-kitsong-centres/

Target Beneficiary Groups: YOUTH, UNEMP, RURL

Replicable Description: The project can be replicated at any village where there's 3G+ network and electricity. There also has to be enough population to utilize the facility.

Sustainable Description: 1. e-Government Services There are areas across Botswana where there are no certain government offices. The plan is to engage with the government to make these services accessible through Kitsong Centres. e.g., Renewal of Vehicle Registration license, Registration of Driver's license tests. The demand for government services at remote areas is very high and Kitsong Centers will play a vital role is saving the communities time and money to travel to urban areas for these services. 2. Kitsong Centers Support They share a support system that keeps them going. The operators motivate each other and share innovative ideas of how to keep the center running. Those who came up with new initiatives to bring in more revenue usually shares with others to help them sustain their centers financially. 3. Information Centers Kitsong Centers will also serve as information centers where tourists and visitors from neighbouring information can get information about places of interests, scheduled visits by government officials and mobile health team visiting the area. 4. e-Learning At remote areas there are still a lot of people who are not learned or who would like to study certain courses through distance learning. Kitsong Centers can be used by students to type assignments, communicate with lectures and get results. This will help improve education among communities and help them get employment.

WSIS Values Promotion: Mascom acknowledges that everyone has the equal right to be aware of ICT and be connected to have an opportunity to use ICT to generate income, combat poverty, ill health and most importantly to enhance literacy regardless of the location. Mascom has shared the responsibility of partnering with the Government by taking ICT to rural areas to contribute to the ICT sector and respond to the global need of transforming small villages into knowledge-based economies.

WSIS Action Lines: 1, 3, GOV, LEA, AGR

SDGs: SDG8

Stakeholder Type: Private Sector

Country, Region: Botswana, Africa



Western Government Grass-roots Governance Platform Based on Digital Twin Technology

1.projects' objective: This project provides the western government with the spatial Digital Twin platform service for the closed community and can realize the integrated management system of intelligent community integrating data acquisition, platform construction and service application. 2.the relevance of the project to the respective WSIS Action Line as referenced in the Geneva Plan of Action:This project concerns the role of governments and all stakeholders in the promotion of ICTs for development, which is related to WSIS C1 Action Line.This project provides the western government with the spatial Digital Twin platform service for the closed community, and can realize the integrated management system. 3.the results achieved and impact generated:In the future, the construction goals and concepts of digital twin community governance will be scientifically formulated according to national policy standards, industry policy standards and the overall needs of smart communities. 4. relevance to Sustainable Development Goals: Community is the cell of the city, so it is an important part of smart city, and also the inheritance, development and implementation of the concept of smart city. 5. ability of the model to be replicated: The solution of western government grass-roots governance platform based on digital twin technology has super replication. Field collection is carried out by UAV based on tilt photography technology, and 3D model results are generated through automatic modeling of image data. As a true reflection of outdoor scenes. 6.sustainability of project: Community is the main place for human life in the future. Then, High-quality urbanization is not only the growth of the number of communities, but also the improvement of community functions and citizens' quality of life.

Website: http://111.11.199.117:18081/ccp/#/login

Target Beneficiary Groups: YOUTH, OLDP, WOMN, INDG, DISB, UNEMP, POOR, MIGR, REFG, RURL

Replicable Description: The super replication of the solution of the western government grass-roots governance platform based on digital twin technology provides a strong support for the implementation of smart community projects. Field collection is carried out by UAV based on tilt photography technology, and 3D model results are generated through automatic modeling of image data. As a true reflection of outdoor scenes, it has the characteristics of high environmental and elevation information richness and high degree of automatic production, which is an indispensable part of digital twinning. This project applies 3D GIS capability to provide overlay and fusion of various spatio-temporal data, including image, elevation, vector, real scene, 3D model and other data. Support for OGC, MapBox, 3DTiles and other standard services and data access loading; 3 D spatial analysis ability, such as topology, buffer analysis, etc. Support 3 D visual chart ability.

Sustainable Description: This project has strong sustainability: 1. Community is the main place for human life in the future. Green smart community has functional urban environmental infrastructure, fast and convenient services, high-quality and beautiful communities, and residents' strong green values. It can meet the needs of residents in terms of comfort, convenience, and safety under the condition of health. It is necessary to establish a comprehensive evaluation index system including economic growth, resource consumption, environmental quality and social welfare in accordance with the requirements of harmonious and sustainable development of economy, society and nature. 2. High-quality urbanization is not only the growth of the number of communities and the number and proportion of community population, but also the improvement of community functions and citizens' quality of life. In the process of urban operation, development and construction, green management and sustainable development of urban communities are pursued.

WSIS Values Promotion: 1. The application of this project can promote the reconstruction of community governance system by digital means to the surrounding communities, open up information islands, accelerate real-time data interaction, and promote efficient coordination of grassroots affairs. 2.This project concerns the role of governments and all stakeholders in the promotion of ICTs for development, which is related to WSIS C1 Action Line. This project provides the western government with the spatial Digital Twin platform service for the closed community, and can realize the integrated management system of intelligent community integrating data acquisition, platform construction and service application. Based on the requirements of the information construction of the closed community, visual management inside and outside the community can be realized. Including three-dimensional scene presentation, visual remote control, community operation status monitoring, personnel management, to achieve intelligent community management. This project is based on map data to create community digital big digital scheduling to provide all-round community big data decision support.

WSIS Action Lines: 1, 4, 5

SDGs: SDG3, SDG9, SDG11

Stakeholder Type: Private Sector

Country, Region: China, Asia and Pacific



Banda Ancha para Todos

INDOTEL deployed 1,080 public access WiFi networks across the entire country. Those WiFi were deployed in all public higher education campuses, over 90% of public hospitals, all public transportation systems, public parks and plazas, public offices that offer citizen services, public libraries, among others. This was all done in collaboration with the three main internet service providers (ISP) of the DR, Claro, Altice and Wind. With these 3 companies, INDOTEL converted pending responsibilities into this project. Each ISP was responsible for the deployment, operation and maintenance of the 1,080 networks for a period of 3 years, at zero-cost for the government. Also, because of the experience and know-how of those ISPs, the entire deployment was made in just 18 months. The network has provided hundreds of thousands of Dominicans, free of charge, broadband connectivity wherever they are located, with presence in each of the 158 municipalities. In 2020, the network averaged 282,209 unique users, with highs of 550,000 users at the start of the year, and lows of 65,000 when the pandemic started. Those users, for 2020 alone, accounted for over 1,100 Terabytes of information which we estimated resulted in savings of over USD$4.9 million for those citizens that previously would have had to pay buy prepaid internet packages. This network also provided invaluable support during the COVID-19 pandemic, allowing citizens to communicate with family members, carry on education and job requirements.

Website: https://transparencia.indotel.gob.do/proyectos-y-programas/plan-bienal-de-proyectos-de-desarrollo-2017-2018/redes-wifi-de-acceso-en-lugares-publicos/

Target Beneficiary Groups: YOUTH, WOMN, UNEMP, POOR, RURL

Replicable Description: This project closes the digital divide by providing citizens universal access to the internet and could be replicated in each country by priorizing access and converting responsibilities, such as spectrum fees.

Sustainable Description: ISPs have the responsibility to maintain each network operational for 3 years. After that, we are working with them in creating a advertising platform that will sustain it.

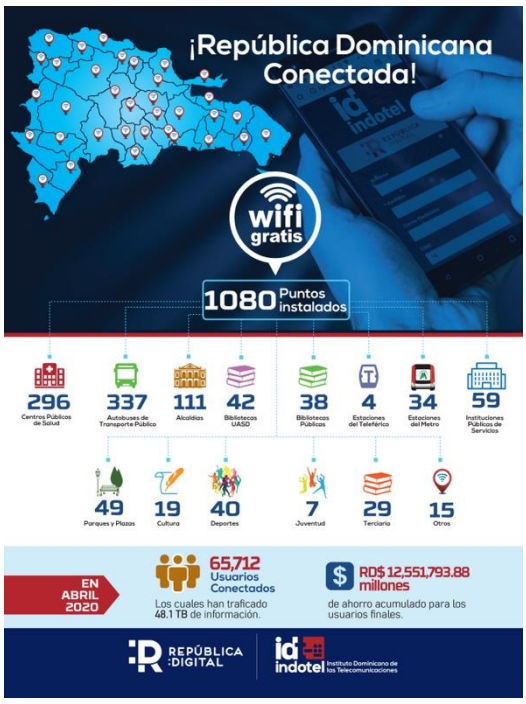
WSIS Values Promotion: This project is the core of the WSIS principle by ensuring that everyone can benefit from the opportunities that ICTs can offer. All stakeholders worked together to improve nation-wide access to information and communication infrastructure and technologies as well as to information and knowledge. This project checks the main requirement that allows other initiatives such as digital economy and eGob to florish.

WSIS Action Lines: 1, 2, 3

SDGs: SDG9, SDG10

Stakeholder Type: Government

Country, Region: Dominican Republic, Latin America and the Caribbean



Conectar a los no Conectados

It is a comprehensive project that will provide rural communities that are not served or with low levels of Internet penetration, living under the poverty line, access and connectivity to the quality broadband, which contributes to reducing the digital divide in the Republic Dominican Republic, under the premises of significant connectivity, which refers to a regular internet, an appropriate mobile device, sufficient data and a connection to minimum 4G, which enables these technologies to have a positive impact on your quality of life. The project is made up of three (3) main components: 1. Access and Infrastructure; 2. Subsidy on Demand; and 3. Transversal Strategy for Social Appropriation and Skills Development.

Website: https://transparencia.indotel.gob.do/media/214325/res_signed_103-2020_consulta_publica_plan_bianual_2021-2022_rev_final_23_122020__1___1__signed.pdf

Target Beneficiary Groups: RURL

Sustainable Description: Assigned budget from the Telecommunications promotions fund.

WSIS Values Promotion: Reaffirm the principle of universal service and the development of telecommunications, following the guidelines of the Social Policy on Universal Service

WSIS Action Lines: 1, 4

SDGs: SDG4, SDG16

Stakeholder Type: Government

Country, Region: Dominican Republic, Latin America and the Caribbean



Digital Decent Life

The "Decent Life" presidential initiative - the National Project for the Development of the Egyptian Countryside - is a multi-pronged and integrated initiative, launched by President Abdel Fattah El-Sisi, in 2019. The Initiative aims at improving the living conditions and daily life of Egyptian citizens, within a framework of integration and unity of efforts among the state institutions, private sector entities, civil society and development partners in Egypt. The Initiative also aims to provide an integrated package of services, including various aspects of health, social and living conditions. It is a huge shared responsibility among these different parties to provide a decent life to Egyptian citizens, especially vulnerable groups. MCIT Scope of WorkMore than 20 ministries and entities, and 23 Civil Society Organizations (CSOs) are collaborating to implement this significant project. This is in addition to the Egyptian youth who are volunteering for charity and development work through the "Decent Life" Foundation to implement the initiative's work pillars and achieve its goals in 4,500 Egyptian villages. The Ministry of Communications and Information Technology (MCIT) plays a significant role in implementing some of the initiative's pillars, including developing the telecommunications infrastructure, through installing a fiber-optic cable network and covering targeted villages with mobile phone network services; developing post offices to serve citizens; and promoting human development. MCIT Sector Pillars of Work: Fiber Optic Cable Network Installation Mobile Network Coverage Expansion Providing Advanced Postal Services Fostering Human Development (part of the institutional development mandate - building digital literacy, digital financial inclusion, digital economic empowerment, promoting e-Government under the project Digital Decent Life)

Website: https://mcit.gov.eg/en/decent_life

Target Beneficiary Groups: YOUTH, OLDP, WOMN, DISB, UNEMP, RURL

Replicable Description: The project has a clear methodology: targets three different poverty rates from over 70% to under 50% across 20 governorates, has a clear segmentation for the targeted beneficiary groups and it is spread across three phases. There is a national focus along with presidential focus and support and it is well documented.

Sustainable Description: The project touches upon all 17 UN SDGs, while Digital decent Life touches upon SDGs 5,8,10

WSIS Values Promotion: It aims to leave no one behind, decreasing inequalities between rural areas and city centers, improving people's livelihoods, creating opportunities by enhancing their employability via capacity building programes. Women, girls, and youth are at the heart of the initiative with crafted programmes to increase their employability and ensure decent work.

WSIS Action Lines: 1, 2, 3, 4, 5, GOV, BUS, EMP

SDGs: SDG5, SDG8, SDG10

Stakeholder Type: Government

Country, Region: Egypt, Africa



Fibre to the Community

The Ghana Investment Fund for Electronic Communications (GIFEC) is set-up by law under the Ministry of Communications to facilitate access and use of ICTs in unserved and underserved communities. As part of efforts to expand access and use of ICTs in rural communities in Ghana, GIFEC commissioned the "Fiber to the Community" programme as a potential to use aerial fiber technology, as smarter, quicker and cheaper way of deploying last mile solution to neglected rural communities in Ghana. The objective of this initiative seeks to leverage on the use of the existing electricity power poles and aerial fiber of the power distribution companies in its deployment of last mile solutions to provide secure and robust broadband connectivity for a digital and smart Ghana. The impact of this project has been enormous. First, through the Digital for Inclusion project is access to improved digital financial services in the unserved and underserved communities. Again, it has also enhanced access to the internet in areas, which hitherto had no form of connectivity. As part of Government ongoing digitization agenda, the roll-out of this intervention has also facilitated key government initiatives such as National Digital and Property Addressing System and the National Identification Card.

Website: https://gifec.gov.gh

Target Beneficiary Groups: RURL

Replicable Description: The basic infrastructure which is usually the power grid is almost ubiquitous in most countries and rural communities. The new technology adopted basically is to leverage on the existing electricity power lines to deploy broadband connectivity to rural and remote communities. Anywhere there is electricity, there could be broadband.

Sustainable Description: The project adopts an effective partnership model through a Tripartite Business Model which comprised of the key implementing entities such as GIFEC, the Utility Service Providers (ECG, GRIDco) and the Private Contractor. In our estimation, the commercialization of this technology, can most certainly result in a substantial additional revenue stream for the utility providers. Again, this collaboration will further help in the expansion of electricity to more unserved and underserved communities in Ghana.

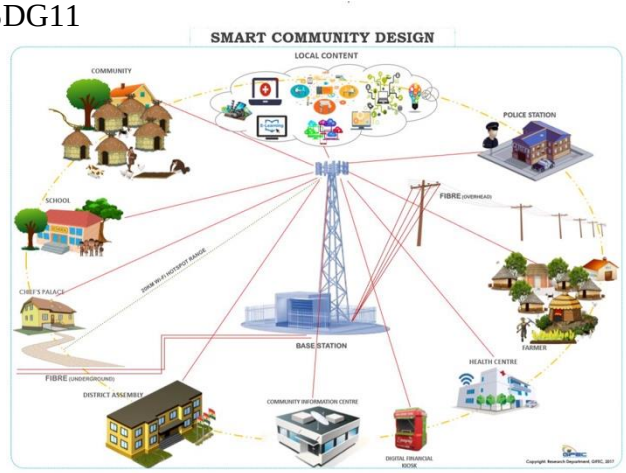
WSIS Values Promotion: The project has brought about financial inclusion in the unserved and underserved communities which hitherto had no form of connectivity. Rural dwellers can now send and receive money locally and internationally. ICT literacy education in basic and senior high schools in these unserved and underserved communities have also improved tremendously. Again, as part of effort at formalizing the Ghanaian economy by the Ghana Government, this project has facilitated key government projects such as the National Property and Digitize Addressing System and the National Identification Card System.

WSIS Action Lines: 1, 2, 3, GOV, BUS, LEA, HEA, EMP, ENV, AGR, SCI

SDGs: SDG1, SDG4, SDG7, SDG8, SDG9, SDG11

Stakeholder Type: Government

Country, Region: Ghana, Africa



SATUSEHAT (Indonesia Health Services Platform)

The current biggest challenge in healthcare service delivery in Indonesia is fragmentation of health data in various (health) apps and the non-uniformity of metadata in the information systems of the health facilities. Therefore, the Ministry of Health Indonesia developed SATUSEHAT (known also as Indonesia Health Services Platform) as a health information exchange platform of a patient's electronic medical record (EMR) by integrating individual health data of more than 60.000 health care facilities. SATUSEHAT standardizes interoperability with global formats HL7 FHIR, so the data of various health facilities' information systems can be integrated to each other. Through SATUSEHAT, patients' data in the health care facilities' information system could be exchanged among the integrated health facilities with the permission of the data owner. The MoH Indonesia has targeted 12 thousand health facilities in Java-Bali region to be integrated with SATUSEHAT at the end of 2022, while the integration of the platform with all health facilities throughout Indonesia is targeted to be completed in 2023.

Website: https://dto.kemkes.go.id/ihs-overview

Target Beneficiary Groups: YOUTH, OLDP, WOMN

Replicable Description: Yes, this project can be replicated in other countries to support health data interoperability and integration based on best practices that have been implemented in Indonesia and adapted to the conditions of that country.

Sustainable Description: Yes, SATUSEHAT will be integrated with electronic medical records provided by healthcare facilities and supported by the Regulation of Minister of Health Indonesia Number 24 year of 2022.

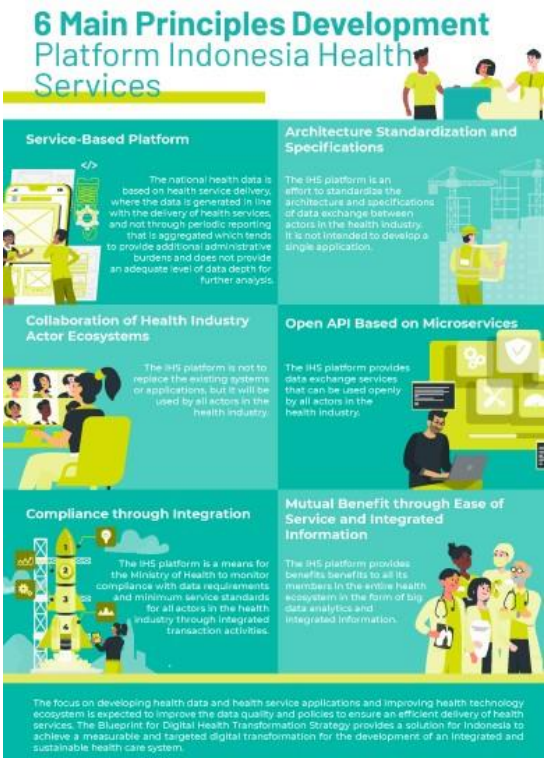
WSIS Values Promotion: The development of SATUSEHAT is a result of collaborative efforts of the directorate within the MoH Indonesia and relevant stakeholders to facilitate connected health services by integrating individual health data between health care facilities using HL7 FHIR as a global standard for data exchange protocol. Through this platform, MoH Indonesia integrates information systems in Puskesmas (SIMPUS), hospitals (SIMRS), and clinics (SIM KLINIK) through socialization and trial integration to assess their readiness in integrating with SATUSEHAT towards electronic medical record implementation.

WSIS Action Lines: 1, HEA

SDGs: SDG3

Stakeholder Type: Government

Country, Region: Indonesia, Asia and Pacific



BAKTI Inclusive Digital Ecosystem Actions for SDG (IDEA4SDG)

The objective of BAKTI's Inclusive Digital Ecosystem Actions for SDG initiative is to bridge the digital gap by utilisation of ICT infrastructure and creation of digital ecosystems that serve and address the communities' needs in remote and underdeveloped regions in Indonesia. However, Indonesia's vast and diverse cultural, economic, and social structures pose a huge challenge since there is no one-size-fits-all solution. As such, BAKTI plays an important role as the ecosystem enabler, catalyst and accelerator that accumulates experiences and lessons learned in developing the most suitable digital ecosystem initiatives for communities in remote and underdeveloped regions. Adopting strategic approach of localised digital ecosystem initiatives based on strategic partnership, BAKTI had implemented 50 digital ecosystem initiatives in four priority sectors during 2019-2022 that are aligned with the national strategic plan of the Ministry of Communication and Informatics of Indonesia. These four priority sectors consist of: education and literacy digital, tourism, MSMEs (micro, small, and medium enterprises), healthcare and e-government. Through these inclusive digital ecosystem activities, a total of approximately 340.000 thousand rural community members become direct beneficiaries and around 3.6 million community members indirectly benefited from the initiatives. BAKTI has served 677 villages across 35 regencies in Indonesia and collaborated with approximately 350 strategic partners, from local governments, startups and private sectors, community youth and leaders, and international organisations. To date, these activities have demonstrated tangible impacts among the communities in remote and underdeveloped regions in Indonesia, by empowering women entrepreneurs, supporting disability groups, and inspiring local heroes to amplify the digital ecosystem actions with their community groups.

Website: https://www.baktikominfo.id/

Target Beneficiary Groups: YOUTH, OLDP, WOMN, INDG, DISB, UNEMP, POOR, RURL

Replicable Description: BAKTI's digital ecosystem serves as a benchmark in the culmination of a network that can support the consistent impact of the government to bridge inequalities and meaningfully provide change to society. This effort in merging technology and infrastructure serves as the cornerstone in the development of a digital ecosystem through the principles of innovation and transparency by facilitating a STRATEGIC ALLIANCE between a variety of stakeholders ranging from the public, private and social sectors. As an example, looking at BAKTI's digital ecosystem in education. Initially BAKTI IDEA4SDG targeted teachers in two underdeveloped regencies and recognized the challenge of introducing technology into the learning process. We identified and collaborated with national startup (Ruangguru) that shares similar goal in delivering education services for disadvantaged areas in Indonesia. Ruangguru brought to the table the experiences of delivering distance learning via their online platform and how to engage with teachers whereas BAKTI IDEA4SDG offered insights and lessons learned on developing digital ecosystem strategy in remote areas. Aligning the project performance measurement with the established national competency standard by the Ministry of Education also help to bridge the initiative with the national priority and policy. After the first-year implementation, we learned that a more systemic intervention is needed. The initiative needs to involve capacity building for students themselves to achieve greater impact. In the second year, we also included students as beneficiaries of the program. Leveraging the online platform for students by Ruangguru, we also engaged virtual tour operators in introducing campus environment to the students in remote and underdeveloped regions. As a result, at least 20% of the total teacher beneficiaries of the program are currently active as local champions who continue to

participate in the ministry’s program and disseminate their knowledge to other teachers in their region.

Sustainable Description: BAKTI’s mission and mandate in providing ICT infrastructure and building inclusive digital ecosystems particularly in the remote and underdeveloped regions in Indonesia is stipulated in the Ministry of ICT Regulations No. 3/2018. The regulation cements BAKTI's role as the prominent government entity that drives the mission to bridge digital gap by applying two approaches, top-down and bottom-up approach. With these approaches, BAKTI lay the foundation for sustainability as it does not only stop at providing infrastructure, but it also strives to develop the suitable digital ecosystem initiatives that deliver real impact to the communities in the remote and underdeveloped regions. Due to its focus and mission to serve the under-served communities, BAKTI collect and manage the knowledge gained from its experiences of implementing various digital ecosystem initiatives. This enables BAKTI to be adaptive in designing innovative ways to ensure optimisation of the ICT infrastructure for the benefit of the local communities. The accumulated knowledge is also transferred to different stakeholders since BAKTI leverages partnership and collaboration with multi-stakeholders in building the digital ecosystems. BAKTI always ensure that the digital ecosystem initiative is aligned with the national priority and policies, coordinate with the relevant mandated government agencies to ensure that the success of the initiative would be taken up and scaled up by the relevant agencies. Partners from private, civil society and local youth are also empowered to continue developing the seeds of digital ecosystem that BAKTI has orchestrated. The core of digital ecosystem is based on a shared goal with their complementing capabilities to learn, adapt and innovate together hence, enabling them to address the wicked social and economic problems faced by the communities in remote and underdeveloped areas. Hence, sustainability is underlined through the baseline of cooperation, coordination and commitments that have been formalised.

WSIS Values Promotion: - Freedom: Using bottom-up approach, BAKTI IDEA4SDG project allows our stakeholders and rural communities to identify significant drivers that motivate them to develop their own unique digital ecosystem actions - Quality: Leveraging BAKTI's main role in bringing connectivity infrastructure to the rural areas, our target communities have the privilege to experience not only the best digital solutions available but also tailor-made to ensure compatibility with the digital devices and digital skills of the people - Solidarity and Tolerance: Promoting our well-known cultural value of "gotong-royong", BAKTI IDEA4SDG promotes the principle of 'no one left behind' when designing and implementing our digital ecosystem actions in the rural communities. This is reflected in our careful planning phase whereby we collect samplings via surveys to understand the socioeconomic and demographic landscape before rolling out initiatives - Shared responsibility: BAKTI IDEA4SDG emphasise the importance of ownership to ensure sustainability of the project in the targeted areas. Our close engagement with local governments and local/indigenous heroes is purposely established to allow BAKTI to share the progress and lesson learnt out of our initiatives implementation. - Respect for nature: Since most BAKTI IDEA4SDG initiatives, especially the tourism sectors, are implemented in pristine area where indigenous communities reside, participants are given educational training and capacity building to promote the conservation of environment and biodiversity

WSIS Action Lines: 1, 2, 3, 4, 5, 6, GOV, BUS, LEA, HEA, 8, 9

SDGs: SDG1, SDG3, SDG4, SDG5, SDG8, SDG9, SDG10, SDG16, SDG17

Stakeholder Type: Government

Country, Region: Indonesia, Asia and Pacific



PUBLIC HEALTH FACILITIES WIRELESS BROADBAND CONNECTIVITY

In an effort to ensure that a functional health system exist in the Kingdom of Eswatini, the government through the Ministry of Health has developed a centralised robust Client Management Information System (CMIS). The purpose of the CMIS is for the systematic collection of clinical service data, storage, processing, analysis and action-oriented reporting, dissemination and use of quality information for improved health care provision, patient management and decision making. To realise the benefits of the system, the basic requirement is that it needs to be accessible to all of the country's health facilities and centers. To assist the government's efforts in proving better health care services, the Eswatini Communications Commission, through the Universal Service Obligation Fund, initiated a project to connect fourty five (45) rural health facilities and centers around the country to the centralised platform. The wireless broadband connectivity project for health centers, provides connection speeds of between 20 and 50 mbps to the centralised CMIS platform for all the health centers and is deployed using the latest wireless technologies. In addition, the project also covers all adjacent public service centers to the health facilities.

Website: https://www.esccom.org.sz/universalservice//Universal_Service_Strategy.pdf

Target Beneficiary Groups: RURL

Replicable Description: Connectivity can be done in all the health facilities countrywide including private health centers in order to achieve an effectively functional health management system.

Sustainable Description: the project is supporting an initiative already run and managed by Government and this way the network will be properly maintained and the health system is already set up and that way it will not be a white elephant.

WSIS Values Promotion: This project is in line with the WSISI action lines C1, C2 and C3 and is also associated with SDG's 1,2,3,4 and 5.

WSIS Action Lines: 1, 2, 3, 5

SDGs: SDG1, SDG2, SDG3

Stakeholder Type: Government

Country, Region: Kingdom of Eswatini, Africa



Smart Villages, Sustainable well-being

Smart Villages, Sustainable Well-being it is a free satellite connectivity project for public places in rural areas or locations without telecommunication services coverage. The goal of this project is to promote digital access with sustainable and viable purposes to improve quality of life and well-being of population and contribute with the achievement of the WSIS Action Lines and the Sustainable Development Goals. It is a public policy model based on 4 phases: 1. Access: Connect public places with productivity projects of each location. The connectivity is provided by a satellite operator as compensation of the State Reserved Satellite Capacity. 2. Use: The productivity projects are related to the public places and impact economic, health, education, cultural and tourism sectors of each community. 3. Appropriation: Involve the growth of the economic, social and cultural activities based on connectivity, with the goal to generate innovative ideas for the improvement of the productivity projects. 4. Well-being: Allows the reduction of the social gap through enabling access to other human rights, such as health, education, work, etc., through the Internet service; those actions will be a contribution to the Sustainable Development Goals.

Website: https://coberturauniversal.gob.mx/aldeas-inteligentes

Replicable Description: The Project is a model of public policy that consists of a cycle of 4 phases. It starts with “access” which means internet service provision, that can be provided by any existing technology. What is relevant about the model is that connectivity is used for the purposes that the community chooses, considering productive projects that can be economic, educational, health, tourism and so on. Therefore, Smart Villages, Sustainable Well-being is a model based on the real community network, so it can be replicated in any geographical area that is willing to join forces to make technology the enabler of its economic and social development.

WSIS Values Promotion: Smart Villages, Sustainable Well-being promote, in the beneficiary communities, values of freedom, solidarity, equality, tolerance, responsibility and respect for nature, because it is the communities who choose the productive project to connect considering the greatest social and economic benefits, which are measured through indicators that are also designed by the communities themselves. With collaborative work, the values of the Information and Knowledge Society are promoted.

WSIS Action Lines: 1, 2, 3

SDGs: SDG1, SDG3, SDG4, SDG5, SDG10

Stakeholder Type: Government

Country, Region: Mexico, Latin America and the Caribbean

Digital Governance Awards

The Digital Governance Awards (DGA), which started in 2019 until the present is aligned with the function of Department of Information and Communications Technology (DICT) to "promote and assist LGUs and local stakeholders in developing specialized ICT-enabled investment areas by providing technical and industry-calibrated assistance in the use of ICT for the enhancement of key public services, development and promotion of local arts and culture, tourism, digital literacy, and talent development", the ICT Industry Development Bureau (IIDB), in partnership with the Department of Interior and Local Government (DILG) and the National ICT Confederation of the Philippines (NICP), be conducting the Digital Governance Awards 2022.The DGA is an annual search for best practices among local government units in utilizing information and communications technology (ICT) to effectively and efficiently deliver its public services directly to its constituents and to its business stakeholders. The DGA shares the vision of establishing indices for local government units across the country in harnessing the potentials of ICT towards raising the bar in delivering public service. By drawing attention to the best practices in integrating ICT capabilities and solutions, the different sectors of society and government units are enabled in their roles as catalysts of change. With the DGA strategy, the IIDB, DILG, and NICP envisions the proliferation of revolutionary ICT initiatives in the country that will support clearer, wider, and faster access to and delivery of information in our local government. DGA is part of the DICT's Advancing Government ICT Innovation, Leadership and Excellence (AGILE), Program. The AGILE Program aims to promote LGU capabilities in terms of their ICT-related services and/or projects together with the DGA Compendium and the Digital Governance Conferences (DGC).

Website: https://www.facebook.com/DGAwards

Replicable Description: The DGA can be replicated by many countries. The template is ready and available. The Digital Governance Awards is open to all local government units such as a province, city, or municipality. LGUs are limited to only one (1) unique entry per category for a total of three (3) entries. In instances where multiple entries per category are submitted, only the first one will be considered the official entry in that particular category. An LGU may join all three categories provided the entries are distinct entries per category. The Regional DILG and DICT officers will encourage and help advise LGUs on the categorization of their entries and of entry submission. Submissions are considered final.

Sustainable Description: The DGA is an annual search for best practices among local government units in utilizing information and communications technology (ICT) to effectively and efficiently deliver its public services directly to its constituents and to its business stakeholders. The DGA Compendium is a printed collection of past DGA winners. It hopes to serve as a tangible inspiration for innovative and transformative good governance. The DGC is a project that aims to provide learning sessions and caravans for both the national and regional level. Along with its other components, it has the larger goal of inspiring the integration of ICT-forward programs and services of local government units. DICT, together with DILG and NICP, hopes that, through the AGILE Program, LGUs grow to be more empowered to improve and enhance their services for their constituents. In a fast-paced and ever-evolving society, innovators and tech-leaders lead the path to a more inclusive, efficient and productive community. NICP, the partner of DICT, is the recognized national organization of ICT Councils in the Philippines. Our organization serves as the venue for collaboration and sharing of best practices for our member organizations. Through the years, our organization has served as the unified voice for the Philippine Information and Communications Technology (ICT) Sector. NICP work tirelessly to promote ICT all throughout the country and support each of the councils endeavours in order to help

strengthen the ICT in their areas and create more jobs for the Filipinos. See https://nicp.org.ph/

WSIS Values Promotion: OBJECTIVES - To highlight and encourage the effective and efficient utilization of Information and Communications Technology (ICT) in the delivery of services and performance of the duties and responsibilities by local government units (LGUs). - To share and replicate innovative practices, and commend, collate and document LGUs in integrating ICT in their processes to serve as example and benchmarks to other LGUs. It will serve as a good resource material for the Digital Cities Caravan. - To improve the business development, social services and the general ecosystem of the LGUs and motivate the private and business sector to actively participate and/or invest in the growth of the LGUs. - To promote citizen's responsibility and participation as well as accountability, efficiency and transparency in governance responsibility and encourage innovation.

WSIS Action Lines: 1, 4, 6, GOV

SDGs: SDG11

Stakeholder Type: Government

Country, Region: Philippines, Asia and Pacific



TASMU Digital Valley

TASMU Digital Valley (TDV) program was launched in 2017 with a mission to promote and grow Qatar's innovative and vibrant digital ecosystem to enable the realization of sustainable digital sector growth and a smart future. TDV will contribute to Qatar's Digital economy while allowing the achievement of QNV 2030 by becoming the acknowledged co-orchestrator of the digital innovation ecosystem and establishing digital as the ‘core enabler’ of Qatar’s economic transformation. TDV objectives are to:1) Foster transparency and insights into the composition and trends of the digital ecosystem2) Facilitate a connected digital ecosystem of stakeholders across all its layers3) Accelerate digital innovative outputs by supporting companies across the innovation funnel4) Create the conditions of a preferred ecosystem for attracting foreign companies5) Track the performance of the digital ecosystem and formulate recommendations accordinglyCurrently, we have 161 tech companies enrolled as TDV members on our portal. We offer multiple services for our members such as business registration, funding, early access to the digital use cases, networking with our local partners, etc.

Website: https://tdv.motc.gov.qa/

Target Beneficiary Groups: YOUTH, WOMN

Replicable Description: The program can be replicated at a government as well as private level – to support diversification of the economy, creation of new jobs to support new businesses.

Sustainable Description: The program aims to maintain and improve human capital by developing adequate mechanisms to increase entrepreneurship and support SMEs growth and development. The program works on improving and investing in the delivery of business facilitation services in an effective and enhanced way to support businesses. The program also works towards environmental sustainability goals by supporting economic diversification by promoting digital adoption across various sectors, thereby reducing reliance on hydrocarbon industries. Moreover, the program is working towards developing the next generation of startups and enterprises to support creating sustainable business environment.

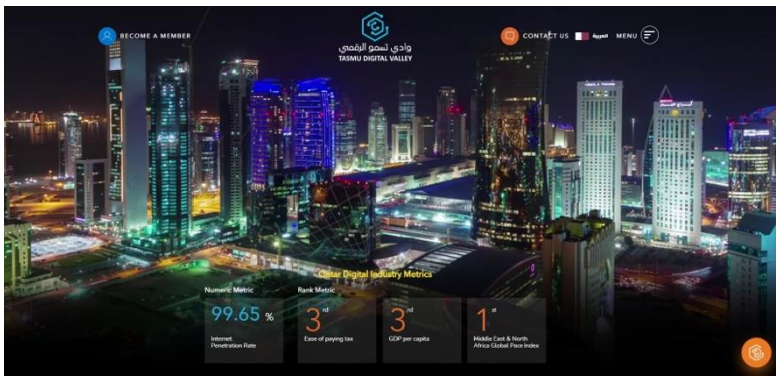
WSIS Values Promotion: Equality is one of the main WSIS fundamental values that TASMU Digital Valley (TDV) promotes. Since the launch of the program in 2017, TDV strives to foster equal opportunity and information accessibility to grow the ecosystem. It provides a 360 degree view of the digital ecosystem, resulting in equality in access to market intelligence and digital investment opportunities for companies and businesses.

WSIS Action Lines: 1, 3, 4, 6, 11

SDGs: SDG8, SDG9, SDG17

Stakeholder Type: Government

Country, Region: Qatar, Asia and Pacific



Leaders of Digital Transformation

Support and development of young IT specialists is one of the key priorities of the Moscow City Government. Since 2019, Moscow Agency of Innovations hosts an annual international competition for the Moscow Mayor's award "Leaders of Digital Transformation" to support talented developers of digital products and services. The project unites IT specialists from Russia and other countries to solve urgent tasks for the development of Moscow during a special hackathon. All participants work on actual tasks from customers and test their developments in real conditions. The organizers support the teams in further development of their projects, helping bring them to the market. Since 2019, more than 15,000 IT specialists from 79 regions of the Russian Federation and other countries have participated in the competition. This competition allowed to form a strong and motivated IT community, that includes more than 21,000 participants who have achieved outstanding results: • more than 1,000 relevant digital products and services developed, including AI and machine learning technologies; • more than 50 start-ups founded; • more than 20 pilot tests and implementations conducted; • more than 3 thousand publications published in the mass media.

Website: https://leaders2022.innoagency.ru

Target Beneficiary Groups: YOUTH

Replicable Description: The competition "Leaders of Digital Transformation" has proven its effectiveness. Due to the fact that such events are simple and easy to set up they can be replicated on several scales: 1. At the enterprise level: The practice of holding contests to support the best solutions to problems can also be implemented at the company level. In this case, employees will solve problems of a local nature for a prize. This mechanism will increase employee motivation, identify and implement best practices, and improve the efficiency of the company. 2. At the city level: Similar contests can be held in other cities with the support of the city authorities. These contests will help find new solutions to pressing problems of urban importance. Promising areas for holding competitions may be: the introduction of ICT in the city's infrastructure, waste management, the development of smart cities, decision-making support and others. Holding competitions to find solutions to these issues will contribute to the development of ICT skills of young people, the accumulation of knowledge and the exchange of experience. 3. At the level of the regions of the world: Governments of different countries can hold international contests to find the best solutions to global problems: climate change, poverty, cybersecurity, etc. International cooperation, exchange of best practices can accelerate the development of these areas. The wider use of such mechanisms contributes to the expansion of the interaction of young professionals and organizations. It creates a synergetic effect and contributes to the implementation of socially significant projects for the development of the society.

Sustainable Description: The competition provides conditions and opportunities for cooperation between ambitious IT specialists, city authorities, corporations, educational, research and youth organizations to build resilient infrastructure, foster innovation and promote inclusive and sustainable economic growth. In other words, contests contribute to the sustainable development of the innovation environment, thanks to which main actors of triple helix obtain benefit: — government: Contests allow to find the best solutions to urgent problems. Besides, as a result of the support of promising projects, the country's economy receives an impetus to development. — universities: Students and professors can get hands-on experience in project implementation and expand their network of acquaintances; — industry: Companies can explore new innovative ideas that will allow them to gain competitive advantages. Within the framework of the competitions, universities, industry and government form new connections, which contributes to the dissemination of new ideas, the acquisition of new skills and the formation of a new way of thinking. The result of these

processes is a synergistic effect that can bring the country's economy to a new level of development.

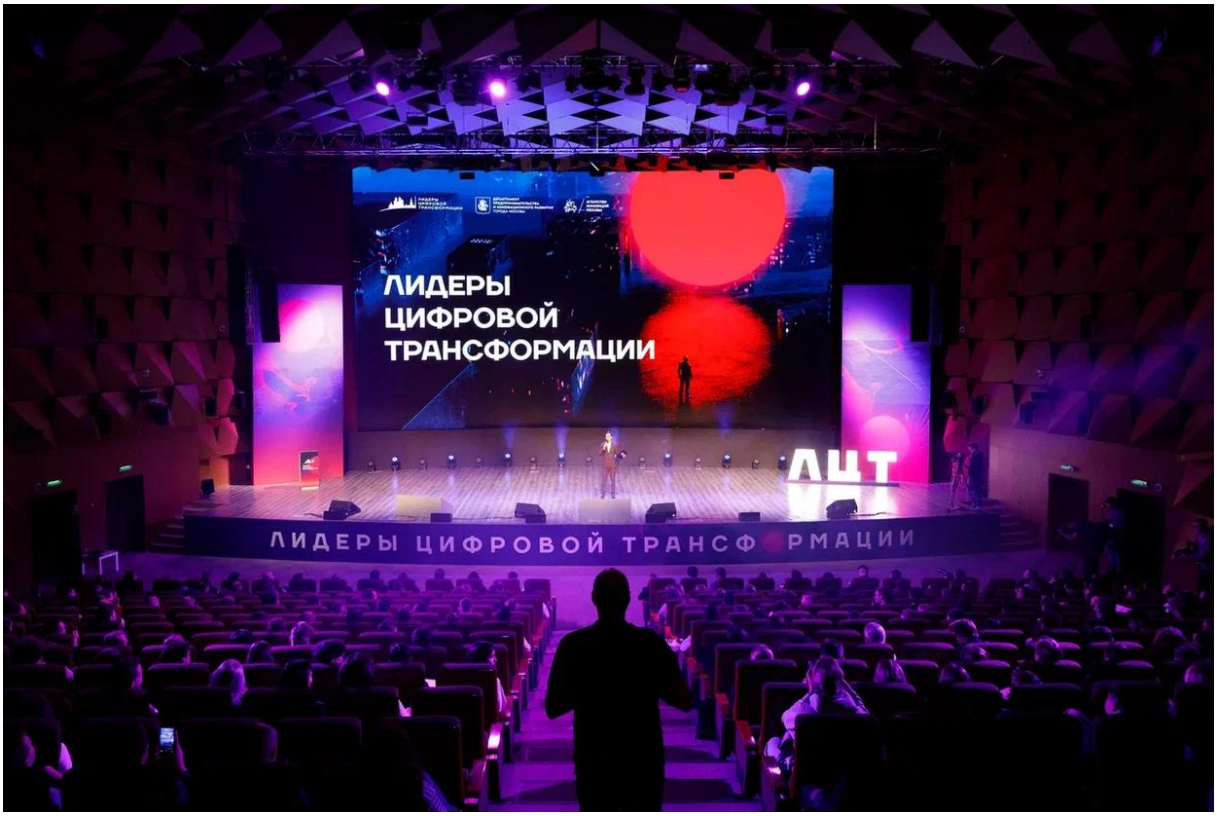
WSIS Values Promotion: The annual international competition "Leaders of Digital Transformation" makes a significant contribution to the promotion of the values of the WSIS. Within the framework of the competition, talented IT specialists from Russia and other countries receive support from experienced mentors to solve urgent urban problems and introduce new digital products for the city. Comprehensive support for the development of IT specialists and their involvement in the implementation of significant social projects makes such values as cooperation, partnership, free access to information and knowledge much more achievable. All in all, the project is guided by the spirit of the open exchange of ideas and knowledge, teamwork and peer-to-peer education.

WSIS Action Lines: 1, 3, 4, 6, 11

SDGs: SDG8, SDG9, SDG11, SDG17

Stakeholder Type: Government

Country, Region: Russian Federation, Eastern Europe



Digital for Life

Previously, digital readiness efforts were primarily led by the government with some corporate volunteerism support and ad-hoc ground up efforts. However, since COVID-19, many organisations have stepped forward on the digital inclusion front. Through MCI/IMDA's Emerging Stronger Conversation on Digital Readiness, which engaged a wide range of stakeholders across the community and industry, many organisations have expressed keen interest to work together to further the digital inclusion cause. The Digital for Life (DfL) movement aims to mobilise the Public-Private-People sector network as a unified effort and galvanise the community to help all Singaporeans embrace digital as a lifelong pursuit and enrich their lives using digital. Further, to uplift digital tools, skills and habit of all Singaporeans in a rapidly changing digital landscape and help build a digitally inclusive society, the DfL movement was established to support projects and activities that promote: a)Digital Technology and Inclusion – building digital resilience, and exciting different segments of society on how new digital technologies can enrich their daily lives,b)Digital Literacy and Wellness – promoting good digital habits as society engages in the digital domain, including in the areas of cyber safety, media literacy and mitigating the risks of online harms. To grow the DfL ecosystem, supporting platforms, resources and funding are provided to support programme development and execution. Potential 3P entities requiring funding support to scale their projects can tap on the DfL Fund, established to support community projects and activities aligned to the two pillars of DfL. Since its launch in Feb 2021 the number of participating organisations has grown to more than 100 partners and projects which have benefitted more than 50,000 people across various segments ranging from youths, seniors, disadvantaged groups, families, women, persons with disabilities to hawkers. B16

Website: https://www.imda.gov.sg/digitalforlife

Target Beneficiary Groups: YOUTH, OLDP, WOMN, DISB, UNEMP, POOR

Replicable Description: In replicating the project, there are a few key areas that should be taken into consideration to start such a movement – 1. Area of Needs in Digital Inclusion that are specific to country's needs. • A clear area of needs and gaps needs to be articulated to partners so that they can complement government efforts and lend support in areas that are lacking 2. Marketing & Publicity • Awareness of the movement is key when the movement is still in its nascent stage, as such, marketing through social media, mass public events etc. would be necessary to spread awareness of the movement and gain traction 3. Benefits to the participating organisations • Depending on resources available, one of the key "benefits" to the partner could be seed funding to offset some operating costs and publicity as a key partner of the movement. 4. Areas of contribution by participating organisations • To determine areas of contribution that partners/organisations can play a part in, specific to the needs and interest of the overarching goal of the movement. Eg. volunteering, donating, helping to publicise 5. Goal of achieving a broader base of partners, followed by quality partnerships • To spread the movement, it would be important to create a low barrier of entry to participate in the movement, so that more partners would be more willing to join the movement • Thereafter, partnerships could be sieved out and further cultivated to help to groom quality partnerships or "top tier" partners who could help to proliferate the movement and be the ambassador.

Sustainable Description: The Digital for Life movement adopts a framework for partners to be able to contribute/play a part in, specifically in these areas – a. Start a Project b. Volunteer c. Content Partner d. Channel Partner e. Publicity Partner f. Donate g. Apply for DfL Fund h. Lend your expertise It is a self-sustainable ecosystem as the movement aims to reach out to both "demand" and "supply" partners, with "demand" partners referring to partners who has specific needs eg. charities or non-profit organisations who need volunteers

to teach seniors basic digital skills, and “supply” partners referring to partners who are able to provide resources eg. corporate staff volunteers who are willing to teach digital skills, and donation of funds as part of CSR. With the movement being the middle ground and a platform for both demand/supply partners to meet each other, it allows for partners to meet other likeminded partners, collaborate and close the gaps.

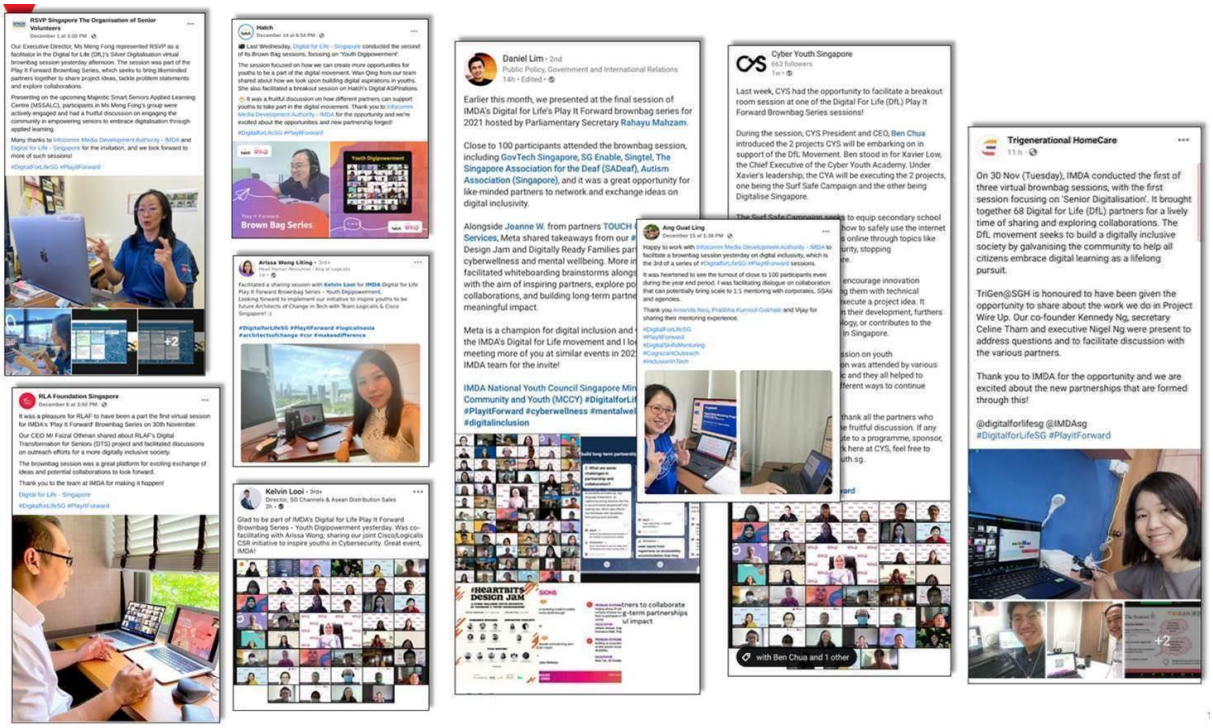
WSIS Values Promotion: The DfL movement aims to promote the WSIS values of equality, solidarity and shared responsibility. The movement is designed to engage the corporates, community groups, government and individuals to pay it forward and help more Singaporeans enjoy better quality of life through technology. This is especially so in light of the COVID-19 pandemic which has hastened Singapore’s digitalisation efforts, but also the potential to widen the digital divide. Going digital has become a way of life, as a live in a digital universe filled with many wonders. From education, finance and medica, to music, games and shopping, the digital life connects us to these and more, enriching our lives. Ensuring that everyone embraces digital as a lifelong pursuit to enrich their lives so that no one is left behind in Singapore’s journey into the digital future, is a national effort. IMDA reaches out to a broad network of partners from corporates, community organisations to individuals to share the responsibility of providing help to vulnerable segments of the population so that Singapore can be a digitally inclusive society. With the robust conversations and connections made in the DfL ecosystem, IMDA hopes to establish more 3P partnerships in empowering Singaporeans, regardless of race or language, have equal access to confidently and competently adopt digital technology for life, work and play.

WSIS Action Lines: 1, 3, 4, 5, 6

SDGs: SDG3, SDG4, SDG8, SDG16

Stakeholder Type: Government

Country, Region: Singapore, Asia and Pacific



Digital Identity for a Nation

To capture the opportunities of the burgeoning Digital Economy, Singapore's National Digital Identity (NDI) initiative aims to provide growing opportunities for digitalization and value creation to the everyday lives of residents and businesses by enabling end to end digital transactions. This is done through: 1. eliminating the need for multiple online identities and passwords. 2.empowers users with greater and more convenient access to their own data, allowing personal and corporate data to only be shared upon explicit consent. 3.Enable trust services through digital signing, remote authorisation of transactions and digital credentials stored in a digital wallet. Through NDI's Digital Identity for a nation, a digital identity is issued to all individuals. Singaporean residents can perform digital end to end transactions with the government and private sector. Singapore's National Digital Identity has worked with more than 700 public and private sector organizations to enable 4.5 million users (which consists of 97% Singapore Citizens and Permanent Residents aged 15 and above) to access more than 2000 digital services, making it one of the most pervasively adopted national digital identity systems in the world.

Website: https://www.singpass.gov.sg/main/

Sustainable Description: Digital Identity are now adopted by over 97% of Singapore citizens in their daily life - from making transactions with the government, to application of credit card and login to digital services. In order to ensure that we are providing values, we have adopted the Agile Methologies - focusing on quality by creating products that meet consumers' needs and expectations and responding quickly and responsively to the ever changing environment. As NDI moves forward, maintaining relevance to users and business needs will continue to be a main feature of the NDI development culture. Because we have listened to the user and business needs, NDI has evolved from just a login tool for government services to a pervasive end to end single access trust ecosystem.

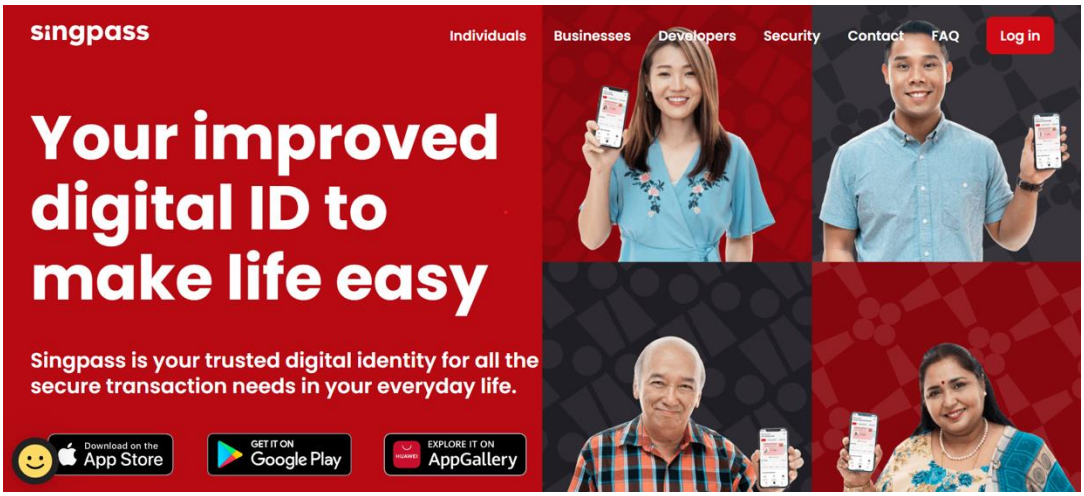
WSIS Values Promotion: Digital Identity for a Nation - as the project title suggest, it is a project for the Nation, meaning no one is left behind. Everyone - from citizens to permanent residents can transact with the government, and private sectors onboarded to NDI digitally, using their own digital identity.

WSIS Action Lines: 1

SDGs: SDG8

Stakeholder Type: Government

Country, Region: Singapore, Asia and Pacific



OMobileFunding

OMobileFunding: Web and Mobile crowdfunding platform. Technology is used to provide financial solutions and products for social inclusion and social entrepreneurship OMobileFunding was being implemented in Togo and Cote d'Ivoire. Jobs are created for these countries' youth in ITC and entrepreneurship domains. Clients are using this tech and financial solution to find funding for their projects, also to save and manage money (self-funding) for a sustainable development. Users will defend their projects online and find investments. And investors have the opportunity to discover local projects and fund them. Online Microfinance is another opportunity of OMobileFunding for users. The innovation is that this social product is based on web and mobile technologies: SMS/MMS and mobile payment against the issues of non-permanent use of the Internet and secure online payments in Africa.African countries have many needs and solving these problems via OMobileFunding is our day by day challenge and also to show a positive face of Africa by a sustainable developpement. Impacts: social, technological and economic.-OMobileFunding is a deck between technology and entrepreneurship-OMobileFunding creates employment opportunities especially for youth and women-We develop Social Entrepreneurship skills, project management and fund opportunities

Website: http://o-mobilefunding.com/

Target Beneficiary Groups: YOUTH, WOMN, UNEMP

WSIS Values Promotion: OMobileFunding creates employment opportunities especially for youth and women. We develop Social Entrepreneurship skills, project management and fund opportunities.

WSIS Action Lines: 1, 2

SDGs: SDG3, SDG8

Stakeholder Type: Private Sector

Country, Region: Togo, Africa

E-Kijiji: Connected Villages in the pandemic

With the pandemic where the world has been forced to digitize fast, Connectivity boost and the digital economy has surged to newer heights whilst the digital divide has deepened. Rural regions have been most affected with children at home without any means of being educated and exposed to adversities of the communities, Ugandan Female youth pregnancies have increased and drop out rate for children, most villages have been left out the progress loop brought by being connected. E-Kijiji is an open local government and citizen digital platform that will act as information intermediary and window of access to digital resources to villages. It shall host daily brief, mapped areas for social services, contacts of public officials, economic and market data, public online forum and a Massive open online course system to aid educating children and villages with normal life and digital skills. The E-Kijiji platform aims to connect all villages in Rural Tanzania, build stronger institutions by accountable government with open data and data driven policy, with Voices from rural regions effectively represented. It shall be accessed to all in mobile and web channels, Public data delivery and dissemination simplified, Our Digital skills first delivery shall be designed with human centred lenses to capture the working of the village and digitize the potent elements based on the requirements simulatenously ran by equipping villagers with the needed Skillsets for operation of the platform and basics of digital Literacy. The platform shall pivot to connected digital centred for sustainable access and boosted engagements.

Website: https://www.eyi.or.tz

Target Beneficiary Groups: YOUTH

Replicable Description: The project shall be build as open platforms to be replicated and run by the villagers selected independent board as administrators and capacity builders, Each village shall be encouraged to run it and find special projects to fund it, example a local farmers market e-commerce platform and social media for good strategy to create community groups and share expiriences, capacities and open the villages to the world and resources. We shall facilitate the installation and independent partnership with stakeholder groups to act as startegic partners to run and operate their local platforms.

Sustainable Description: The goal is to have heuristic and Autonomous digital villages with access to online markets and digital opportunities all connected and discreet in their own unique manner. Local Youths shall be trained on platform operation and data collection, local volunteers to teach villagers on it's benefit and usage. Public data shall be shared to ministries and stakeholders to make better inclusive policies. With the centres massive open online courses shall be taught to kids and youths having access to modern equipment and technology. Villagers can has the centres to connect e-meetings, direct contact with government officials and stakeholders via video conferencing and access to online government digital resources. Strategic partners shall be made and platforms licenced for government features and exclusive reports to stakeholders, Fundraising campaigns and local innovations on the space shall be encouraged to boost financing as well as local crowdfunding schemes with public online accounting data.

WSIS Values Promotion: Equal access to information and digital resources is mandatory this is well represented with WSIS values, with a connected community we gain informed citizenry, independent thinkers and adept sustainable autonomous agents that can run and operate their communities and gain development. With the pandemic it's potent to see how dependable humanity is to online spaces and information, access to the internet and digital resources is a human right. With connected villages we influence better labour, local content, accountable government and informed policy with the window of polarized communities opened to the world of experts and resources that can transform livelihoods.

WSIS Action Lines: 1, 3, 4, 8

SDGs: SDG1, SDG8, SDG9, SDG10

Stakeholder Type: Civil Society

Country, Region: United Republic of Tanzania, Africa



Open Data Development Project in the Republic of Uzbekistan

The project builds the capacity of national stakeholders in the field of open data management. In particular, special trainings were organized for members of the interdepartmental working group formed by the State Committee of the Republic of Uzbekistan on statistics. The working group trained 617 employees and specialists of government ministries and departments (2019 - 185, 2020 -200, 2021 - 232). Since the members of the working group are responsible for identifying open datasets and publishing them regularly on the Uzbekistan Open Data Portal, they have received appropriate training. Within the framework of the project, events are held to popularize open data, which include the Open data Tashkent conference, Open Data Week and Open Data Day seminars. Also, a separate event to promote open data among the IT community is hackathons. Open Data Challenge is an annual hackathon for the development of open data in the country. This hackathon has already been held 3 times (2019 - 398 applications, 2020 - 6015 applications, 2021 - 1005 applications). As you can see, the interest of the IT sector in open data is growing.

Website: https://datahack.uz/

Target Beneficiary Groups: YOUTH, OLDP, WOMN, INDG, MIGR, RURL

Replicable Description: The project is scalable, as there is a need to bring the project to the Central Asian region to generalize open data and the possibility of developing the regional IT sector.

Sustainable Description: The project has existed for more than three years and is supported by the state; the project has also been introduced into the state program.

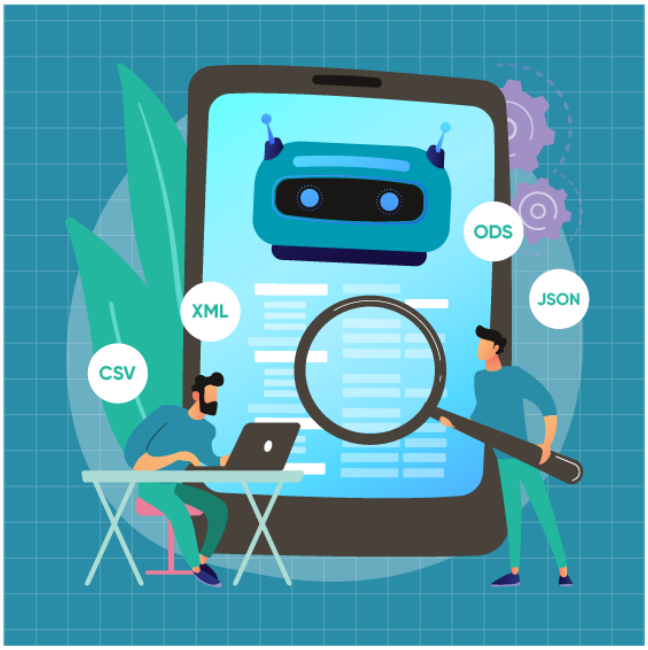
WSIS Values Promotion: The project supports the principles of freedom, equality, solidarity, tolerance, common responsibility, since the collection and dissemination and further use of open data require certain measures.

WSIS Action Lines: 1

SDGs: SDG4, SDG8, SDG9, SDG11

Stakeholder Type: Government

Country, Region: Uzbekistan, Asia and Pacific



WSIS Action Line C2. Information and communication infrastructure

Djezzy Cloud Programme

Public Clouds are game changers in ICT and has shown by now their high potential to improve flexibility and competitivity as we can see many companies adopted digitalization and cloud first strategies using Public Cloud products. In this context, digital sovereignty has become a major concern, and is nowadays a widely discussed topic all over the world. As leader in telecommunications and mobile network operator in Algeria, providing services to millions of mobile subscribers in the country, Djezzy aims to become a leader in digital services and build a sovereign cloud with high added value to the B2B market. Djezzy sovereign Cloud project has following objectives: Provide IaaS, PaaS and SaaS services in a one stop marketplace Support digitalization in the country by helping businesses in their digitalization and adoption of cloud solutionsOffering a reliable, resilient and secure cloud services to the B2B market by providing a full range of ICT security services Participate in the development of digital and economic ecosystem in Algeria We believe that this project will help businesses improving in many areas such as reduce CAPEX, externalize hardware and software maintenance, focus on their core business, improve business continuity and reduce time to market, help new business and startups to enter quickly the market. It will also help reduce environmental footprint of IT services in the country and enable innovation.

Website: https://www.djezzy.dz/cloud

Replicable Description: Djezzy sovereign cloud services will be installed on multi-site datacenters with hyper converged and software defined infrastructure that abstract the hardware and virtualization layers and present IaaS/PaaS/SaaS services to the Business. The platform will be based on a single API to ensure integration and the Services will be automated to ensure replicability and scalability.

Sustainable Description: The Djezzy sovereign cloud project will bring sustainability by helping reduce on-premises footprint associated with power, cooling and hardware for companies that will adopt the Cloud. It will also help companies and institutions in the digitalization of their services which will help reduce their carbon footprint and participate improving sustainability in the country.

WSIS Values Promotion: Creating a sovereign and public cloud that provides IT services in a competitive and accessible way will help democratize IT services and make it more accessible for all B2B and B2G. Later on it will also be opened for B2C. This will promote the development of many areas in the country, in public and private sectors. For example: education, communication, digital business, data analytics, health sector, by enabling the development of innovative digital solutions and promote startups. It will also help accelerate the development of the economic and digital ecosystem in the country, building capacity and confidence in secure ITCs, enabling regional and international cooperation.

WSIS Action Lines: 1, 2, 4, 5

SDGs: SDG8, SDG9

Stakeholder Type: Government

Country, Region: Algeria, Africa



Better connection for everyone

Imagine, with one-click you can travel the world with a single SIM-Card, with no tedious technical setup.Imagine that with just one SIM-Card and one click you can get the best rate for calls and internet in any country in the world, with no extra roaming charge.Imagine, with one-click you get new identity (IMSI,MSISN) with no need to change your SIM-Card Imagine you are in a jungle or a desert and there is no signal, and suddenly, with one click your phone can connect to any available mobile network.Imagine if your phone or SIM-Card is lost or stolen, and in one click, a new SIM-Card is delivered to you with all your contacts and SMS's conversation history.Imagine you have lost your phone and you still can reach your contacts and call them through cloud with the same features as your phone.Imagine, with one-click you can contribute in opening up the isolated areas and poor villages by giving them the opportunity to access information for a better life. Imagine this one-click become true with usWe are Universal Mobile, an Algerian startup that combines MVNO,MVNE and MNO philosophy, in order to achieve the imagined click.

Website: https://www.UniversalMobile.dz

Target Beneficiary Groups: YOUTH, OLDP, WOMN, INDG, DISB, UNEMP, POOR, MIGR, REFG, RURL

Replicable Description: This project can be applied in all poor countries, developing countries, developed countries, and places with poor network coverage.

Sustainable Description: The radio poles that we will install in isolated areas will depend on solar and wind as a source of energy.

WSIS Values Promotion: we aim to -Facilitate access to communication services and Internet all over the world -Bring tremendous convenience and simplicity at no extra cost to users - Contribute in extending telecommunication services to rural, underserved or unserved communities in the world. - Support economic development and human well-being by ensuring affordable network access for everyone -Break down barriers and help connect billions of people to the mobile market

WSIS Action Lines: 1, 2, 3, 6, BUS, LEA, EMP, SCI

SDGs: SDG4, SDG5, SDG8, SDG10

Stakeholder Type: Private Sector

Country, Region: Algeria, Africa

South Atlantic Cable System (SACS)

THE SOUTH ATLANTIC CABLE SYSTEM (SACS)The SOUTH ATLANTIC CABLE SYSTEM (SACS) went into commercial operation in September 2018. It was the first, high volume, ultra-low latency fibre optic cable to connect Africa to South America.SACS has been designed with 100Gbps coherent WDM technology on an end-to-end solution. With 4 fiber pairs it offers a total design capacity of 40 Tbit/s between Fortaleza (Brazil) and Luanda (Angola). Manufactured and powered by NEC Corporation, the SACS cable is one of the most advanced submarine telecommunications systems to go into commercial operation in the Southern Hemisphere. Given the onward connections to the Monet cable system and the West African Cable System (WACS) and the potential to expand the network Eastwards, SACS not only opens the door for Africa and Brazil to meaningfully participate in the growing global digital economy but has the potential to connect East to West through a more direct routing. For businesses to operate and for economies to flourish in the global digital economy, access to reliable connectivity and capacity is not just vital – it is essential.

Website: https://www.angolacables.co.ao/wp-content/uploads/2019/05/NG-0018-19E-GUIA-SACS-EN.pdf

Target Beneficiary Groups: UNEMP, POOR, RURL

Replicable Description: Further subsea cables can be connected to expand the network, reach and impact of the technology to the benefit of other communities.

Sustainable Description: The technology and infrastructure has a full operational lifespan of over 25 years.

WSIS Values Promotion: The SACS Cable provides direct, low latency access to the global digital and gig economy. Users and beneficiaries connected to the cable or is related services will have direct access to the advantages of global data transfer and secure internet access.

WSIS Action Lines: 2, 3, 4, 6, GOV, BUS, LEA, HEA, EMP, ENV, AGR, SCI, 8, 9, 11

SDGs: SDG2, SDG3, SDG4, SDG8, SDG9, SDG10, SDG11

Stakeholder Type: Private Sector

Country, Region: Angola, Africa

SCHOOL CONNECTIVITY PROJECT - MABUTSANE SUB-DISTRICT

In its continued effort to bridge the digital divide, Orange Botswana in partnership with Botswana Communications Regulatory Authority (BOCRA), Ministry of Transport & Communications (MTC), Ministry of Basic Education (MoBE) and Ministry of Local Government and Rural Development (MLGRD) rolled-out the Schools Connectivity Project and upgrades of base stations to 3G technology in 18 rural and undeserved villages of Mabutsane, Morwamosu, Sekoma, Khonkhwa, Keng, Khakhea, Kokong, Kanaku, Mahotshwane, Itholoke, Kutuku, Mokhomma, Seherelela, Sese, Maokane, Samane, Lefhoko, and Betesankwe villages. The main objective of this project is to address the problem of lack of broadband Internet and low bandwidth capacity in government schools across the country. In addition, the project seeks to bridge the digital divide that exists between rural and urban centers, through providing basic computer skills to learners at grassroots level. This is over and above the assistance for the computerization and connection of broadband Internet in public schools in selected rural areas. As a result of this project, a population of over 5,000 learners from the aforementioned villages continue to benefit from the project, not only giving them access to Information & Communication Technologies, but also helping in standardization, which is one of the essential building blocks of the Information Society. The project would also enable them to participate effectively in the global economy and also change their lives.

Website: http://www.uasf.org.bw/?page_id=75456

Target Beneficiary Groups: RURL

Sustainable Description: Through our partnership with the Botswana Communications Regulatory Authority and Universal Access Funds, the Universal Service Access Fund has engaged ICT graduates in each school to assist in training of the learners and maintenance of the networks. This does not only help sustain the project, but contribute towards job creation and youth employment that are most needed in localities distant from urban centers.

WSIS Values Promotion: Through this project, local communities are given universal access to equal opportunities by contributing towards bridging the digital divide, promoting access to ICTs, creating digital opportunities, and benefiting from the potential offered by ICTs for development. As Orange Botswana, we strongly believe in ensuring that everyone can benefit from the opportunities that ICTs can offer. This we strive to exercise through the creation of an enabling environment at all levels. Over and above this, we believe that connectivity is a central enabling agent in building the Information Society hence our efforts being focused more in giving each person an opportunity to acquire the necessary skills and knowledge in order to understand, participate actively in, and benefit fully from, the Information Society and the knowledge economy. Knowledge and universal primary education are basically key factors for building a fully inclusive information society, therefore creating an enabling environment here helps to achieve this.

WSIS Action Lines: 1, 2, 3

SDGs: SDG4, SDG8

Stakeholder Type: Private Sector

Country, Region: Botswana, Africa



5G Network Co-build and Co-share

This project is another major breakthrough and innovation in China's global leadership in 5G innovation development. Through the nationwide 5G co-construction, deployment, and application, we have achieved "one physical network and two logical networks". This proves the feasibility of wireless system sharing development and solves major challenges such as performance, power consumption, and operation. By taking full advantage of the advantages of the two operators in spectrum, transmission, site location, and manpower resources, we have built a 5G high-bandwidth network that covers more people, provides better user experience, lower network energy consumption, and minimizes the overall TCO. By using the 5G network, smart healthcare provided by multiple scientific and technological enterprises has been promoted in hospitals and health service centers, effectively alleviating the difficulty of insufficient healthcare personnel and reducing the risk of cross infection among healthcare providers. Blockchain technology is used to build a trust collaboration platform to ensure efficient operation of shared networks. AI energy-saving technologies are used to implement green network operation.In the 2C field, based on key innovative technologies and industry collaboration for 5G RAN Sharing of SA evolution, it served over 600 million shared network users worldwide and achieved the highest peak rate of 2.7 Gbit/s for a single user on the world's first C-band commercial network. In the 2B domain, Huawei has been the first to implement digital infrastructure capabilities such as wide area priority, latency-sensitive, and security-sensitive, based on the technology innovation of 5G RAN sharing and customization of private networks, and has applied more than 2000 projects. This project builds the foundation of the digital economy and empowers thousands of industries, implements the "Dual Carbon Action Plan", and contributes to the global fight against epidemics.

Website: http://www.chinatelecom.com.cn/

Target Beneficiary Groups: YOUTH, OLDP, WOMN, INDG, DISB, UNEMP, POOR, MIGR, RURL

Replicable Description: The 5G RAN sharing of wireless systems requires the solution of complex network architecture and operation and scheduling problems, and the basic problems of cost, efficiency, operation and scheduling, and energy consumption. The project overcomes a series of operation and scheduling challenges, such as co-construction, sharing, maintenance, and optimization, improving the operation efficiency of the shared network, reducing energy consumption, and improving user experience.Replicability involving three technologies: 1.NSA Co-construction and Shared Anchor Technology In the NSA phase, both 4G anchor sites and 5G base stations need to be shared. In addition, the differences in frequency policies, network load, and vendors on the live network of the two parties are considered, and factors such as user experience, implementation speed, construction investment, and maintenance difficulty are considered. The single-anchor sharing solution and dual-anchor sharing solution are proposed for 5G access network sharing innovation. The implementation modes such as anchor transfer and anchor selection are adopted to meet the requirements of different service scenarios. 2.Operation Scheduling Management Technology of Shared Network First, the blockchain technology is introduced to build a user data security base, provide data interaction and data desensitization, establish a mutual trust mechanism, and embed the three production and operation scenarios. Second, a unified AI intelligent energy-saving platform for base stations across the entire network based on internal data and AI capabilities, and uses AI energy-saving algorithms, energy-saving protection, and energy-saving instructions. Make contributions to energy conservation and emission reduction, especially green 5G technologies. 3.Innovative technologies for shared networks ToB private networks Supported 300 Zhiyuan 5G customized network projects and developed more than 20,000 5G private line users.

Sustainable Description: The shared network architecture and operation scheduling technologies not only innovate the 5G network architecture and operation scheduling technologies, but also solve the problem of continuous user experience and unperceived user experience. This feature enables network sharing, and ensures that network services are relatively independent of each other. It has forward-to-back compatibility and evolution capabilities. Especially in the face of complex telecom network operation management system, after network sharing, the two parties can share the network operation scheduling data, visualized and manageable, efficient and fair resource scheduling, and ensure mutual trust. The project will cover all 5G bands, including Sub6G and millimeter wave, and will continue throughout the 5G network life cycle.

WSIS Values Promotion: Carbon emission reductionChina Telecom cooperates closely with China Unicom and China Tower to actively promote the 5G RAN sharing of communication infrastructure such as base stations, pipelines, poles and roads, effectively reducing repeated construction, saving land resources, reducing energy and raw material consumption, and jointly protecting green homes. Poverty eradication: Based on 5G RAN sharing, we will build a 5G full-coverage network from cities to county towns, towns, and rural areas to achieve universal 5G services, bridge the digital divide, and help poor areas develop rural economies through various forms, such as agricultural products live and goods delivery and rural tourism. Eliminate poverty and achieve common prosperity. Hunger elimination: 5G RAN Sharing networks help build smart agriculture, improve agricultural production efficiency, and increase food yield, helping eliminate hunger. Helping with health: Build smart healthcare based on 5G RAN sharing networks. Use telemedicine to provide high-quality medical resources to cover more people, save lives of more patients through quick first aid, and use wearable devices to monitor blood pressure, heart rate, cholesterol, blood sugar, temperature, and triglycerides. Blood oxygen, uric acid and other human body indicators to achieve health management. Helping with education: Through distance education, children in remote areas can enjoy high-quality teacher education resources in the city, thus mastering knowledge, changing fate, and benefiting society.

WSIS Action Lines: 2

SDGs: SDG1, SDG2, SDG3, SDG4, SDG9, SDG17

Stakeholder Type: Private Sector

Country, Region: China, Asia and Pacific



Large-Scale distributed global Domain Name System service platform (SLS DNS Platform)

DNS is a vital infrastructure for ICT. .CN is an important part of the global DNS ecosystem. Since 2005, CNNIC begins to build SLS DNS Platform, with the goals: 1. Strives to be the leading platform, contributes to the development of information and communication infrastructure globally. 2. Focus on Internet balanced development issues, enhance the service quality of .CN in less developed areas worldwide. 3. Improves application ecological environment, provides a healthy information sharing platform for global users. The project is relevance to information and communication infrastructure, as the platform is a bridge that connects China to the international DNS ecosystem. The project achieves great results, as the platform carries the largest ccTLD, helping less developed areas on Internet to improve the online application environment. The platform fits to Sustainable Development Goals. For sustainability, firstly, as DNS is an irreplaceable part of the Internet, the platform cannot exit the stage of history. Secondly, CNNIC will play a more important role on supporting the continued stable operation of the project. For reproducibility, as the technology of the platform is standard and flexible, it can be replicated in all countries, by personalized the platform according to corresponding stage of Internet development.

Website: http://www.cnnic.cn/5/45/46/index.html

Target Beneficiary Groups: YOUTH, OLDP, WOMN, UNEMP, POOR, MIGR, REFG, RURL

Replicable Description: Domain name is a universal technology, people often say that "the network has no borders", which makes the domain name free from geographical restrictions. Like the logo of an enterprise, a domain name is a symbol of the website promotion. A good domain name can help customers better understand and remember the name and service of the website. After years of development, the Super Large-Scale distributed global Domain Name System service platform (SLS DNS Platform) has gradually developed into a global DNS service platform, with dozens of service sites radiating to major Internet regions around the world, carrying the world's largest country code top-level domain (ccTLD) service, and undertaking about 10 billion times of DNS responses daily. The replicability of this platform is mainly reflected in the following aspects. Firstly, the technology used in SLS DNS Platform is applicable to all countries. The distributed architecture of 2 locations and 3 centers, with global DNS service sites, which covers all five regions of the Internet Corporation for Assigned Names and Numbers (ICANN), can be well replicated in all countries around the world. Secondly, the scale of SLS DNS Platform can be flexible controlled according to the number of users, and can be rapidly expanded through cooperation, while the cost of the service sites can be controlled through lightweight node technology, making the project common among countries with different degrees of economic development and different populations. Thirdly, the existing technology of the platform has the characteristics of standardization, generalization and plasticization. Different countries can continuously optimize the service sites layout, technical architecture and service level according to the current situation of their Internet development, making the platform more personalized. The personalized SLS DNS Platform can help the people around the world to spread their thinking, innovate technology, and keeping pace with international Internet community development

Sustainable Description: The sustainability of the project is mainly reflected in the following aspects. Firstly, .CN ccTLD services, which are mainly carried by SLS DNS Platform, is an indispensable part of the global Internet system. .CN, as China's identity on the Internet, is an extremely important part of the global DNS ecosystem, as while as a key information infrastructure connecting China and global Internet. From the perspective of the current and

future development of the Internet for a long period of time, the DNS is still an irreplaceable part of the Internet, therefore, as .CN naturally has sustainability, SLS DNS Platform is sustainable as well. Secondly, .CN has bright future. After 25 years development, and be repeatedly inspected by the global Internet users, SLS DNS Platform already has the global first-class comprehensive service capability. In the long run, .CN still have great development prospects in the international domain name market. Thirdly, the project operation cost control is sustainable. By applying lightweight DNS service site technology in recent years, the investment has been effectively controlled while increasing the number of services sites, which helps the sustainable operation of the project in the long run. Fourthly, the project has a first-class technical team in DNS field. As the registry of .CN, CNNIC has cultivated a large number of excellent domain name practitioners over the years, made number of excellent partners. As the builder of the global information and communication infrastructure, CNNIC will certainly play a more important role in the future and support the continued safe and stable operation of the project.

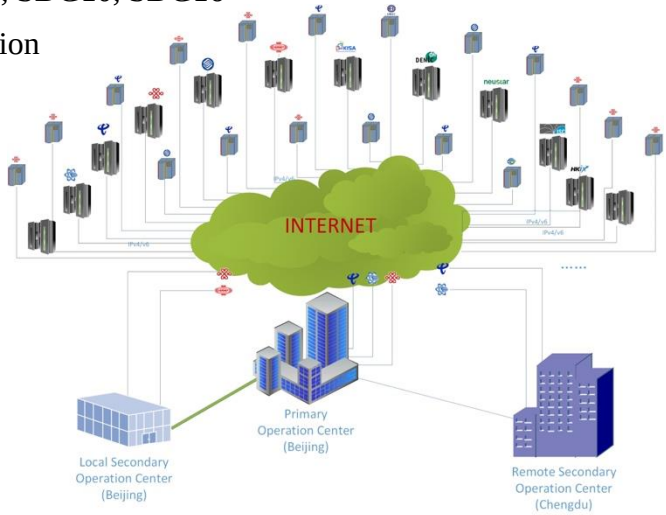
WSIS Values Promotion: With more and more people around the world interacting with ICT, generating information and accessing it, the increasingly significant impact of the Internet on people's daily lives cannot be underestimated. The DNS is an important infrastructure of the Internet, and the .CN ccTLD service is one of the key links concerning the overall service quality of global DNS. Through the construction of the SLS DNS Platform, the quality of Internet access for global Internet users is effectively improved: Firstly, the Internet experience of global users is enhanced. For example, the speed of global users' access to the Internet is accelerated. Meanwhile, the public, especially the underdeveloped Internet countries or regions, has been effectively improved, as well as the establishment of a high-speed network environment with abundant resources is promoted. Secondly, the project benefits a wide range of groups, including young people, the elderly, people with disabilities, and people in remote areas, all of whom can gain equal access to the Internet. By accessing the SLS DNS Platform, users worldwide can use ICT to improve their quality of life, acquire new knowledge and learn new skills. Thirdly, the Internet environment has been significantly improved. By carrying out special governance of domain name registration information, real name audit of .CN registration information has been well completed, which significantly reduce the probability of fraud, to combat crime, to protect the health and harmony of the Internet environment. Fourthly, based on the deployment of SLS DNS Platform, .CN-based applications provide the public with fair and equal opportunities in many aspects, carries out plenty of technical trainings for the society, enhances technical communication on a global scale, promotes global cultural exchange and interconnection, as well as creates more economic values and job opportunities.

WSIS Action Lines: 2

SDGs: SDG3, SDG4, SDG5, SDG8, SDG9, SDG10, SDG16

Stakeholder Type: International Organization

Country, Region: China, Asia and Pacific



Customer-based "Dual Gigabit" Network Product and Service for Integrating Wireless Communication and Home Broadband System

The project scheme and design concept are proposed by China Mobile Yunnan Company. The project product equipment hardware, data service platform, system architecture, core algorithm, onsite services solution and dual gigabit quality service application are all independently completed by Yunnan company and Guangdong company. At present, the project has applied for 1 national patent, 1 software work, published 9 papers, and there is another national patent in the application process. At present, the project results have been extended to Guangdong, Guizhou, Sichuan and Shaanxi provinces. Due to the low cost, high value, replicability and strong industrial linkage, the results will continue to be promoted to the whole country. The application of the project has brought economic benefits of more than 190 million yuan, including reducing costs 11.3517 million yuan, increasing benefits 180 million yuan, and customer satisfaction increased from 80.90 to 83.94, an increase of 3.04 points.

Website: http://www.10086.cn/

Target Beneficiary Groups: YOUTH, OLDP, WOMN, INDG, DISB, UNEMP, POOR, MIGR, REFG, RURL

Replicable Description: The products, data base and home service application and process included in the wireless and home broadband "Dual Gigabit" deep coverage low-cost solution created by this project have been applied on a large scale in Yunnan, and have been promoted to Guangdong, Guizhou, Sichuan and Shaanxi provinces. The related core technologies of this achievement have formed standard products commonly used in the industry, with low cost, reliable quality, excellent compatibility, strong industrial linkage, strong market competitiveness, and easy promotion, replication and implementation. (1) The Integrated Dual Gigabit Building Coverage Network Equipment Product Set Has Transformed The Core Technology into a Standard Product For The Industry: the products, equipment and related hardware of the integration of wireless and home broadband are being incorporated into the core competence list of China Mobile Communications Corporation. Provinces, municipalities and professional companies can directly copy and introduce the use, and quickly achieve indoor deep coverage through low-cost methods. (2) The Integrated Dual Gigabit Building Coverage Network Equipment Products with Low Cost and Reliable Quality: under the premise of ensuring that the network quality is not lower than the traditional scheme, compared with the traditional building indoor depth coverage solution. The cost of this scheme is 64.66 % lower than that of the new indoor communication network and home broadband respectively. The cost is reduced by 26.60% compared with the construction of traditional indoor communication network and home broadband respectively. Taking the residential area and university scale promotion scheme in Kunming as an example, the wireless and home broadband coverage of residential areas and universities with none or weak indoor coverage can save 1.79 billion yuan compared with the traditional scheme.

Sustainable Description: (1) 5G+Home Broadband Dual Gigabit Network Will Bring More Value-added Services to Smart Homes. At present, home broadband has basically met the business needs of existing smart homes. With the construction of 5G network and the development of 5G technology, 5G wireless network can make up for the shortage of home breadth in smart homes, and 5G can also bring more value-added services and the development of vertical industries to smart homes. For example, the transmission rate of 5G can be more than 10 times that of home broadband, and the indoor 5G network allows users to experience high-quality, immersive AR/VR concerts, sports competitions at home. In addition, the delay of 5G network is less than 1ms, and users can use applications with high sensitivity to delay at home, such as home remote education, home live broadcast with goods.

(2) The "Dual Gigabit" Home Coverage Scheme Integrating 5G Wireless and Home Broadband Has a Huge Market Prospect. At present, there are about 13000 stations in the 4G indoor communication network station of Yunnan Mobile, and the 5G indoor communication network station has not started large-scale construction, so there is a large room for improvement in the 5G sub network scale. At the same time, the household broadband coverage in residential areas is close to 95%. Therefore, the "Dual Gigabit" home coverage scheme integrating 5G wireless and home broadband has a large demand market, whether it is the scenario of utilizing existing home broadband transmission or the new scenario. (3) The Continuous Growth of Broadband is The "Booster" of The "Dual Gigabit" Home Coverage Scheme Integrating 5G Wireless and Home Broadband. In the Internet era with the rapid development of information technology, the Internet has entered the home of ordinary people, and broadband access technology has become increasingly mature in China, with more and more coverage. At present, China's broadband has entered a period of rapid development.

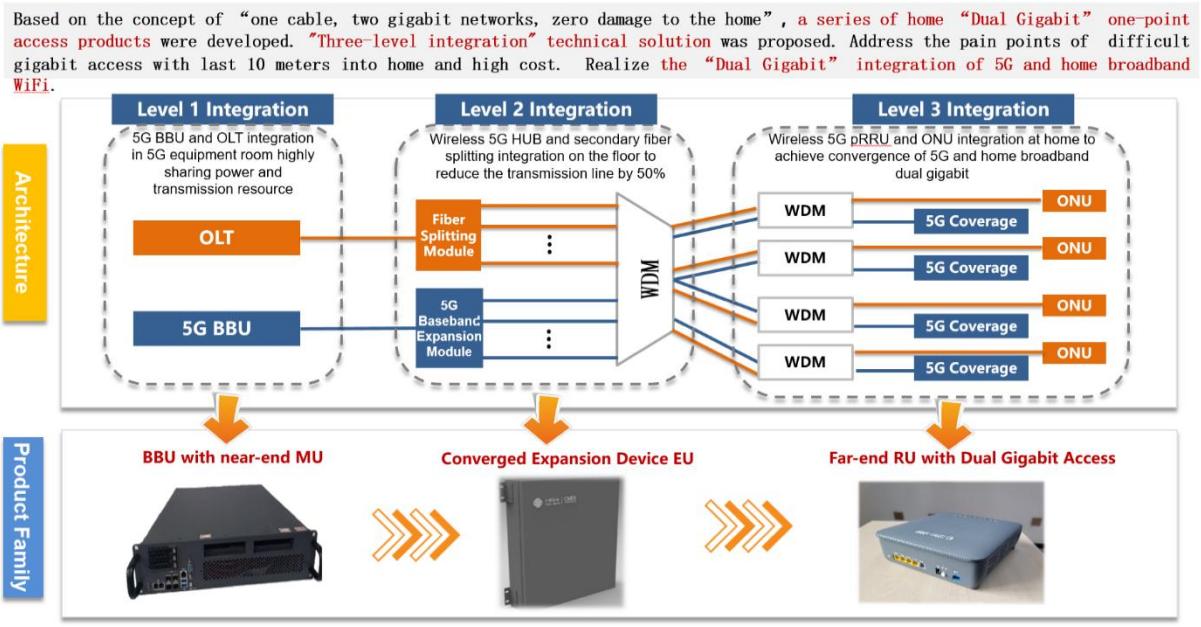
WSIS Values Promotion: A total of 1212 products (Customer-based "Dual Gigabit" Network Product) were piloted to 1180 users, of which 224 were used in the fight against poverty and rural revitalization. Farmers can use the advantages of dual gigabit large bandwidth and low latency to live streaming ecommerce without leaving home. In addition, 36 products were applied in the border defense of the new coronavirus pneumonia. Because Yunnan is located at the border and the border pressure is huge, the project products can bring 5G wireless signals and broadband signals to the border guards at the same time, so that they can keep in touch with the outside world and get the latest information.

WSIS Action Lines: 2

SDGs: SDG9

Stakeholder Type: Private Sector

Country, Region: China, Asia and Pacific



Young Ecological Mobile Club

Joven Club is a network of reference technology centers in the national territory, where children, adolescents, young people, older adults, women and men, have found a training space regarding the development of new technologies and where to deploy projects that promote the development of their ideas and perspectives. In addition, it is a place where the computational thinking of children is encouraged from an early age. Joven Club's strength is to be the source of connection for many of the communities in Cuba, facilitating connectivity to more than 1,150,000 people throughout the national territory, either by Wifi access point or by other forms of access. For the above reasons, the program “Young Club Computerizing the Community" is proposed, for the sake of: 1. Eliminate the gap that exists between the countryside and the city. 2. Contribute to the formation and creation of technological and computer culture in the communities. 3. To constitute a network of technological centers that make it possible, from an environmental perspective, to provide computer and connectivity services in the communities. 4. To enable more and more children, adolescents and young people to have access to technologies, with greater emphasis on women and girls.In this way, more connectivity services can be provided to the population, greater capacities to deploy personal projects in rural communities, promote the use of new technologies in Productive Poles, with the goal of linking agriculture with technology to achieve compliance with the sustainable development goals of the UN agenda until 2030.With this program, it is also desired to empower women in the use of technologies, so that they can deploy their projects based on the sustainable development of their locality. Disabled and elderly people will also be integrated in everything related to the broad concept of communication and technology.

Website: https://www.jovenclub.cu/

Target Beneficiary Groups: YOUTH, WOMN, DISB, RURL

WSIS Values Promotion: This project proposes the installation of solar panels in electric buses to create computer laboratories. The buses, being electric, avoid pollution to the environment and by using solar panels as an energy source, they self-manage the energy to be consumed by the equipment, because in very intricate areas it is not easy to access the electric current.

WSIS Action Lines: 2, 6, 10

SDGs: SDG5, SDG11, SDG13, SDG17

Stakeholder Type: Academia

Country, Region: Cuba, Latin America and the Caribbean

Smart Cities National Infrastructure Code and building supporting technical capacities

The transformation of cities into smarter and more sustainable environments is essential towards achieving the objectives of UNSDG, and outcomes of Egypt2030 vision and its Sustainable Development Strategy (SDS) as well as its decarbonization of Egypt economy. In this regard and due to Lack of national unified and standardized code/guidelines for building Smart Sustainable Cities, NTRA has developed and issued codes and guidelines for design and implement Telcom infrastructure that can accommodate different services and applications in smart cites and insure the reediness of this infrastructure for future technologies to promote the economic and social development. And to Ensure that codes are applied with the proper approach and in line with the goal of building and developing a workforce of both genders and creating new job possibilities that complement to deal with issued codes and guidelines, NTRA in cooperation with the different authorities, established a free optical fiber networks training program to train those in charge of implementing national guidelines and codes. To date, there are three thousand trainees benefiting from this free program.

Website: https://www.tra.gov.eg/en/

Target Beneficiary Groups: YOUTH, OLDP, WOMN, DISB

Replicable Description: The national code should be deployed in each new smart city project

Sustainable Description: The national code is describing the telecommunication and smart services requirement needed in smart city to achieve sustainability and improve inhabitants' quality of life in the future city's vision of the nation

WSIS Values Promotion: In line with WSIS actions regarding Information and communication infrastructure: an essential foundation for the Information Society, a national smart city code is kind of national framework of development & policies, that support an enabling competitive environment for the necessary investment in ICT infrastructure and for the development of new services

WSIS Action Lines: 2, 4

SDGs: SDG11

Stakeholder Type: Government

Country, Region: Egypt, Africa



Comunidades Inteligentes

The Smart Communities project aims to install connectivity for the Lenca indigenous community of Azacualpa, in the municipality of Yamaranguila, La Esperanza, Honduras, in order to increase its educational and economic development. Its purpose is to contribute to one of the Sustainable Development Goals (SDGs, 2030), specifically Goal 9.c, which consists of significantly increasing access to information and communication technologies and striving to provide universal internet access for low-income countries by 2020. Connectivity can contribute positively to overcome the community's recurring limitations.

Website: https://rds.hn/comunidades-inteligentes/

Target Beneficiary Groups: INDG, POOR, RURL

WSIS Values Promotion: By increasing educational and economic development, reducing isolation, facilitating their access to information, using technology to improve their means and life strategies.

WSIS Action Lines: 2, 3, 6, 9

SDGs: SDG9

Stakeholder Type: Civil Society

Country, Region: Honduras, Latin America and the Caribbean



ommunity of Azacualpa, as well as neighboring communities, through an Internet community

Zain Innovation Campus

The establishment of Zain Innovation Campus (ZINC) in Jordan. Zain Innovation Campus was created to enable women youth to convert their innovative ideas into productive start-up projects, to be marketed locally, regionally and globally. In Q4 2013, Zain launched a program, Zain AlMubadara, aimed at supporting entrepreneurial projects for women aged 18 to 28 years. Zain AlMubadara was the first initiative to be introduced by Zain Jordan, and it attracted 150 projects across the Kingdom and in various fields and domains. Following the above, in January 2014, Zain established a dedicated Corporate Entrepreneurship Responsibility (CER) division, within the company's corporate structure, where Zain became the first company in the region where its organizational structure includes an assigned section to support and develop start-up projects submitted by young entrepreneurs.

Website: https://www.facebook.com/ZINCJordan/

Target Beneficiary Groups: YOUTH, WOMN

WSIS Values Promotion: Zain Innovation Campus was created to enable women youth to convert their innovative ideas into productive start-up projects, to be marketed locally, regionally and globally.

WSIS Action Lines: 1, 2, 4, BUS

SDGs: SDG4, SDG8

Stakeholder Type: Private Sector

Country, Region: Jordan, Asia and Pacific



Jalinan Digital Negara Plan

The COVID-19 pandemic had resulted in a new approach to be explored to address the new norm and cater for future connectivity demands. The government has come up with a comprehensive national digital infrastructure plan known as Jalinan Digital Negara (JENDELA) to accelerate improvement of coverage and quality of broadband nationwide. JENDELA was implemented in phases i.e. Phase 1 from 2020 to 2022 and Phase 2 from 2023 to 2025. For Phase 1, the focus is to optimise existing resources and building new sites to achieve 7.5 million premises passed with gigabit access, 96.9% 4G coverage in populated areas and 35 Mbps mobile broadband speed. Under Phase 2, the targets have been stretched further to achieve 9 million premises passed with gigabit access, 100% internet coverage in populated areas and 100 Mbps mobile broadband speed leveraging on 5G technology by the end 2025. The targets are also in line with the 12th Malaysia Plan (12MP).JENDELA requires commitment from all parties involved including federal and state governments, local authorities and the industry. To facilitate the project deployment, certain policy recommendations are required to ensure all plans can be completed on time to achieve the targets.

Website: https://myjendela.my/

Target Beneficiary Groups: RURL

Replicable Description: Policies, regulatory guidelines, legislation and initiatives on digital infrastructure development.

Sustainable Description: The accomplishments of JENDELA as of the third quarter of 2022 indicates that all planned initiatives are on track to realise the country's desire to ensure that the public can receive more comprehensive and high-quality broadband services so that the public's socioeconomic status can be improved.

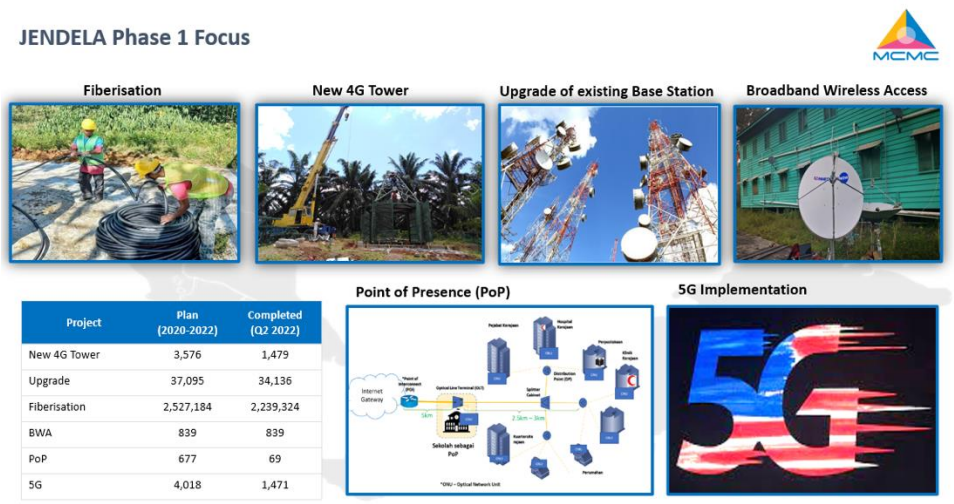
WSIS Values Promotion: JENDELA will bring Malaysia up to level with developed markets like Australia, Japan, Singapore, and South Korea. What is most important is, that people can continue their living by leveraging on better quality internet connectivity despite of future potential challenges in light of the slowing trend of global economic growth, instability of currency as well as inflation.

WSIS Action Lines: 2

SDGs: SDG4, SDG8, SDG9, SDG11

Stakeholder Type: Government

Country, Region: Malaysia, Asia and Pacific



MOE ICT Infrastructure

In reference to the Ministry of Education 'vision successful learning process can be achieved by continuous deployment of different services related to all entities within teaching and learning processes. The General Directory of Information Technology focuses on providing Information and telecommunication services that assists in the development of learning process . Basically, this goal can a be achieved by deployment of different projects to have strong infrastructure :1. Implementing local area Network in all related entities within the Ministry of Education. 2. Implement the centralized data centers in the Head quarter of the Ministry of Education (HQ) to publish services to the target groups. 3. Provide high Network connectivity between all MOE related Buildings. 4. Provide infrastructure to run Online Training in all training Centers within the Ministry of education. 5. Deployment of Electronic and digital services.

Website: https://home.moe.gov.om/

Target Beneficiary Groups:

Replicable Description: This project can be deployed in all organizations which offer on education and training.

Sustainable Description: - Ministry of Education has Tier 3 Data Center where there are redundant in power and cooling system. It has main source of power and generator. On cooling part, it has four Crack Units. Also, it uses private cloud servers which contains 3 chassis servers having total of 36 hosts. Those servers are connected to two storages(active/passive). All of these environments configured and running on virtualization solution (VMWare). So, it has many futures on hardware side which are high availability, Fault Tolerance, Distributed Resource scheduler (DRS) and vMotion. Apart of this, the network connections and power connections have redundancy with minimum two connections for each. Overall, all those equipment's and configurations supports to reduce fault and interruption in our electronic services. Also, all of these setups are managed and handled by MOE team. Add into that , - In each project network infrastructure should be sustainable for 25 years where Cat 6 A cabling is used . - Some open-source applications are deployed . these application can be improved and customized as per MOE current and future requirements by MOE local engineers and host programs. For example Shared-Folder System) and host programs (virtual environment) have been relied upon, which in turn limits dependence on external companies (without any kind of support). In addition, the operation of the human cadre in the institution which obtaining and transferring the acquired experiences.

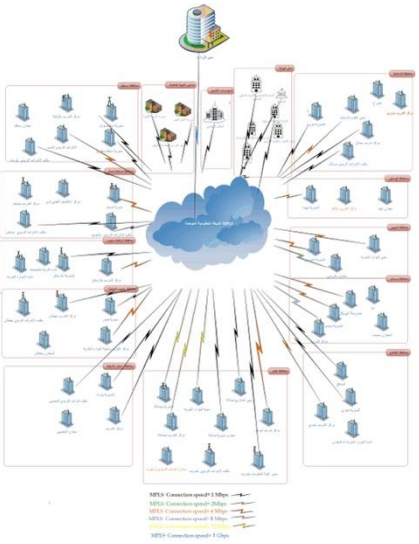
WSIS Values Promotion: MOE portal provide different process for electronic and digital services for parents such as (student registration, transformation public and private schools, student performance and result results, attendance. Most of these services are fully automated which simplify the process especially for families residing in the remote areas.

WSIS Action Lines: 2

SDGs: SDG10

Stakeholder Type: Government

Country, Region: Oman, Asia and Pacific



Bridging and Overcoming Network and E-Service Challenges in Mindoro, Marinduque, Romblon, and Palawan

Comprising of five large group of island provinces, MiMaRoPa is a sea-locked region stretching across the westernmost fringes of the Philippines with a population of 3,228,558 islanders. With significant areas unreached by commercial telecommunication companies, the region is plagued with challenges in connectivity, communication, and accessing basic services. With many unserved and underserved communities, terrorism trouble the far-flung areas taking advantage of Indigenous and isolated communities. To leverage ICT in empowering local communities towards sustainable inclusive development, DICT MiMaRoPa has intensified its Free Wi-Fi for All Project with the key results: 1.Connected isolated communities and bridged the digital divide with the establishment of 864 free connectivity sites in the region and benefiting 1,102,861 Free Wi-Fi Users for 2022 alone. The most remote islands, such as Kalayaan, Mangsee, and Ambil are prioritized and 21 connectivity sites are specifically installed in GIDA communities. 2.Empowered vulnerable and far-flung communities to participate in and benefit from Information Society through the delivery of 62 ICT Literacy and Capacity building trainings with 3,130 trained beneficiaries for 2022 alone. 3.Significantly contributed to converting insurgency hotspots to peaceful connectivity hotspots benefitting 20,357 GIDA residents and Indigenous Mangyan People of Mindoro Islands.

Website: https://dict.gov.ph/

Target Beneficiary Groups: INDG, UNEMP, POOR, RURL

Replicable Description: Through installation of Very Small Aperture Terminals, the ICT interventions of establishing internet connection in remote islands and Mangyan indigenous settlements of MiMaRoPa can serve as a model for other similarly situated far-flung areas and indigenous communities with locals awaiting to be transformed through Information and Communications Technologies. Correspondingly, with the enactment of Republic Act No. 10929 in the Philippines that created the Free Wi-Fi for All Program of the DICT, also known as the Act Establishing the Free Internet Access Program in Public, more public places throughout the country are slated for establishment of free internet access as the rollout of the project intensifies and continues for the benefit of more Filipino people.

Sustainable Description: Towards the sustainability of ICT connectivity project in tough to access areas, the DICT is set to establish 963 more Free Wi-Fi Sites in the MiMaRoPa Island region alone for 2023 of which a significant chunk will be allocated to 31 GIDA Barangays of the region. Through the ongoing partnership with the United Nations Development Programme, 50 more GIDA locations in MiMaRoPa will be installed with Free Wi-Fi . To support the deployment of connectivity, DICT MiMaRoPa is also set to hold more activities for the strengthening of capacity building component of the Free Wi-Fi for All Program with the aim of providing ICT skills and knowledge to the community, particularly the program beneficiaries. This initiative capacitates and raises awareness among the public, including the proper internet usage towards the acceleration of their economic, social and educational stance. The targeted participants are taught on how to connect to the Free WiFi in addition to the information regarding the different e-government services.

WSIS Values Promotion: Comprising of large group of island provinces of Mindoro (divided into Occidental Mindoro and Oriental Mindoro), Marinduque, Romblon, and Palawan, MIMAROPA is a sea-locked region of islands and islets stretching across the tropical seas south of Luzon in the Philippines. With a significant chunk of its communities isolated from mainstream society, the region is known for facing turmoil in accessible connectivity, communication, and information brought by the challenge of its archipelagic

isolation. This irregular configuration of the region has likewise caused hindrances for residents in its Geographically Isolated and Disadvantaged Areas (GIDAs) to access basic services including health, education, and government services, further contributing to more unserved and underserved communities in the island provinces. With physical and digital disconnect, issues of insurgency have persisted in the most remote areas of the region, particularly taking advantage of secluded settlements of Indigenous Peoples in the province of Mindoro. In line with the WSIS values and action lines of bringing access to ICT access within reach of unserved and underserved areas to empower local communities, the Department of Information and Communications Technology – MiMaRoPa (DICT MIMAROPA) has connected these identified vulnerable communities in addition to accelerating the deployment of its Free Wi-Fi for All Program in 864 Free Wi-Fi Sites of which 367 are operational in hospitals and rural health centers, state universities and colleges, public schools, ports and transport terminals, libraries, Local Government Units, plazas and public places of the region. With more upcoming Free Wi-Fi Site rollouts, the program has brought the community access to e-government services, contributed to the government's campaign in ending the local communist insurgency, and opened avenues to educational, social, and economical opportunities to even the most remote areas of the island region.

WSIS Action Lines: 1, 2, 3, 4

SDGs: SDG1, SDG4, SDG8, SDG9, SDG16

Stakeholder Type: Government

Country, Region: Philippines, Asia and Pacific



The Government Data Center

The Government Data Center offers a centralized facility to host government entities' IT infrastructure and provides essential hosting and basic monitoring services for all government entities. In addition, it provides space, power, cooling and physical security for government entities' servers, storage and network equipment that are connected to government network. Benefits of the Government data center: Quick onboarding of government entitiesHigh speed connectivity to the government networkCompliance to National Information Assurance standardsService delivery reporting against defined service level agreementCost reduction of establishing different data centers by acquiring capacity, without the need for capital expenditures

Website: https://mcit.gov.qa/en/service-1

Target Beneficiary Groups:

WSIS Values Promotion: Raise the efficiency of government E-services support. To maximize the utilization of the public resources of the state, also it works mainly to benefit the customers through high-quality standards. -Increase the level of transparency and community participation, also to identify the political and economic value that can be achieved through openness and communication with all partners and providing services that meet their needs.

WSIS Action Lines: 1, 2, 4, 5, GOV

SDGs: SDG8, SDG9

Stakeholder Type: Government

Country, Region: Qatar, Asia and Pacific

Government Network

The Government Network enables a secure and reliable environment for exchanging data between government agencies. The Government Network comprises more than110+ government entities, and facilitates access to the internet, in addition providing access to existing shared government services and future government applications. By providing a single connection to each government entity, the Government Network limits complexities related to multiple connection points, and reduces time, effort and cost, required for the connection. The Government Network provides the following features:- Secure and reliable connection to the Internet- A dedicated Network Operation Center which offers 24/7 support- Monitoring and troubleshooting for all government entities connected to the Government NetworkThe Government Network delivers many advantages to government entities:- Offers a secure and reliable connection with other agencies to exchange data and e-services- The Government Network provides connectivity to Microsoft Azure Cloud through dedicated Express-Route- Facilitates the access and use of any shared government services provided through the Government Network- Enabling entities to identify the adequate bandwidths based on the Government Network operation reports as appropriate to the actual use by government agencies and service level agreements

Website: https://www.mcit.gov.qa/en/service-5

Sustainable Description: The government Network is an ongoing, live time and sustainable project, since it is the backbone for all of the provided government shared services and a secure Internet connection and an essential. The government network started in 2009, and since that day, a continuous development and enhancement actions has been applied on it, to keep this Network applicable with all new services and enhanced technologies.

WSIS Values Promotion: The Government Network is the linkage between all Government entities with a high-availability and response time to facilitate and provide all technical support 24/7 to ensure the efficacy of the service. -The Government Network beneficiaries are all government entities, simi government and privet sector, they all benefited equally from the service, to support all sectors in the country. -the GN Raise the efficiency of government E-services support. To maximize the utilization of the public resources of the state. Also, to Increase the level of transparency and community participation.

WSIS Action Lines: 1, 2, 3, 4, 5, GOV, LEA, HEA

SDGs: SDG4, SDG9, SDG11, SDG12

Stakeholder Type: Government

Country, Region: Qatar, Asia and Pacific

Resilience of Long Range FSO Link under Tropical Weather Effects

Free-Space Optics (FSO) can transmit high data rate, up to 10 Gbps from several meters to kilometers, depending on meteorological conditions. They are potential candidates in overcoming high data rate and longer last miles connexion needs in the context of development of mobile broadband networks in many countries. The performances and availability of FSO systems are generally affected by weather conditions. In that paper we investigate on the reliability and resilience of a 5 km FSO link simulated by using visibilities data recorded from Dakar city. The Percentages of availabilities, the power margins, optimal relays placement, and architecture are proposed when operating conditions vary from clear atmosphere to heavy rain or in presence of heavy dust. During these bad weather conditions, often occurred in tropical climate, the effect of turbulence induced irradiance fluctuation, varying beam divergence angle and misalignment issues were analyzed and estimated. In addition lognormal distributions are established to make easy use of channel modelling and survey of FSO systems in similar physical environments.

Website: http://www.gouv.sn

Target Beneficiary Groups: POOR

Replicable Description: The project is a feasibility study of the FSO technology, in a tropical weather climate. In that regard, the result of the studies, the implementions succes, can be replicated in any other area with same climate conditions, and also with similar social and economic profile, or similar ICT/Telecom infrastructure development.

Sustainable Description: the project results and implementation can help to develop infrastructures of Telecom/ICTs and accessibility (in terms of cost and availability) and in term of inclusion of rural and remote area.

WSIS Values Promotion: In many least developed countries, like Senegal, telecommunications systems are emerging with deployment of metro core access in optical fiber and Digital Subscriber Lines (DSL) to provide high data rate to end users. But last mile, stills inaccessible, very far to end users. However, the FSO can solve the last mile problem by offering distance of connection up to 5 km, and high data rate in our case study, representing a typical Sahelian area, Dakar. As there is no known study on the effects of weather conditions in this country, this paper offers an attempt to analyze and identify the challenges related to the deployment and optimization of FSO systems under Senegalese's weather. The mathematical approximation used for the analyses are easily reproducible and by the way, will facilitate practitioners engineering matters. The project proposes a FSO technology which is low cost and high data rate, in that regard, the result can be used by country with similar profile in terms of Telecom infrastructure development and national income.

WSIS Action Lines: 2

SDGs: SDG4, SDG16

Stakeholder Type: Government

Country, Region: Senegal, Africa

Asynchronous Data Exchange

ADEX is a centralised, self-service data exchange platform for the whole-of-government and local business entities to share and receive lightweight, real-time data securely. Agencies can look forward to making better, real-time decisions based on up-to-date information with ADEX. The problem is: Data is everywhere, but often existing in silos. Government agencies can overcome the burden posed by inefficient, non-updated information transfers with ADEX's real-time, asynchronous fire-and-forget data transfer. The agencies can simply use ADEX by enrolling as a Publisher to provide data or Subscriber to consume data via a self-service platform.1. Cost Savings If agencies build their own data exchange platform instead of using ADEX, that will duplicate effort and cost resources that can be diverted for better use. Capex cost avoidance of ~$5M per agency. 2. Productivity ImprovementCompared to one-to-one direct connection, data provider reduces 60% of effort spent (setup 1 time instead of 3 times) if there are 3 data consumers to be onboarded. Also, time saving of ~2-12 months as agency does not need to build their own data exchange.3. Scalability BenefitsAgency only needs a one-time setup connection to get started. Subsequent consumption of new topics does not require any additional setup to be done.

Website: https://adex.gov.sg/adex/home

Sustainable Description: This project is sustained through the Government Reinvestment Fund and cost recovery efforts.

WSIS Values Promotion: 1. ADEX supports secured cross-zone data transfers between government agencies & local business entities, so this G2B/B2G partnership can be strengthened to deliver better experiences to citizens. 2. ADEX is capable of connecting all whole-of-government systems and sub-systems through the use of connectors/adaptors so that there can be seamless data flow within WOG. When the community is able to interact with the Singapore government as One Government instead of separate Singapore government agencies, departments and ministries, the citizens experience better services and faster responses for situations reported. 3. For example, the National Environment Agency can better engage and inform stakeholders with publication of updated environmental topics like rainfall, temperature, wind speed, wind direction, PSI and PM2.5. It also permits cross-agency innovations and collaborations within the government such as the sharing and publications of enforcement data for COVID-19 response efforts in ensuring social distancing measures to participating agencies between the Ministry of Health and Home Team Science and Technology Agency. 4. Through the agency engagement sessions between the ADEX team and stakeholders, they introduced new possibilities for agencies to re-engineer their existing business processes and revamp their monolithic, legacy systems (using file transfer protocol for batched updates) and replace with lightweight microservices and applications (using ADEX for real-time updates). Hence, ADEX is modernising the way that data sharing is being conducted in the WOG, uplifting one agency at a time.

WSIS Action Lines: 2

SDGs: SDG3, SDG9

Stakeholder Type: Government

Country, Region: Singapore, Asia and Pacific

SDWAN and customer Wi-Fi across 130 buildings

Ministry of Health Entire Branch Network having 134 Branches including the HQ and KDC DC. MOH would like to enhance the legacy WAN cloud from a performance, latency and cost perspectives while still maintaining a high level of security.MOH was looking for a cost effective solution to replace/assist the existing MPLS solution with proven and efficient technology without affecting service security levels of MOH services like SD-Wan over ADSL and 4G.Bandwidth costs to be lowered, deployment and configuration times to be shortened, and Internet performance to be improved while making sure the traffic is highly secured are the main objectives of this project.Fortinet recognizes the critically important and evolving role Internet usage play MOH infrastructure, ensuring both maximum customer service availability and reliability of valuable application performance. We recognize the need to provide solutions that will enable consolidation and simplification of the VPN for MOH while ensuring performance effectiveness at a better-cost point. We are not only meeting the requirements, we are providing innovative price /performance to meet the future needs of MOH to comfortably handle the increasing volumes and changing nature of network traffic. The FortiGate's unmatched performance for VPN allows organizations to establish secure communications and data privacy between multiple networks and hosts by leveraging custom security processors (SPUs) to accelerate encryption and decryption of network traffic.

Website: https://mohap.gov.ae/

Target Beneficiary Groups: YOUTH, OLDP, WOMN, POOR, MIGR, RURL

Replicable Description: Yes, this project can be implemented across all organizations wanted to reduce cost, provide agility and ease of access to multiple cloud with customers and users in focus without compromising security protocols described by authorities.

Sustainable Description: To succeed in achieving sustainability as per MOHAP's vision, software defined networking is building connectivity with the existing connectivity provided by the service providers. SD-WAN solution for MOHAP hospitals and entities will provide greater flexibility, control and visibility of the IT infrastructure. This will help MOHAP to run more streamlined services, improving user experience and making operations more efficient, driving operational excellence.

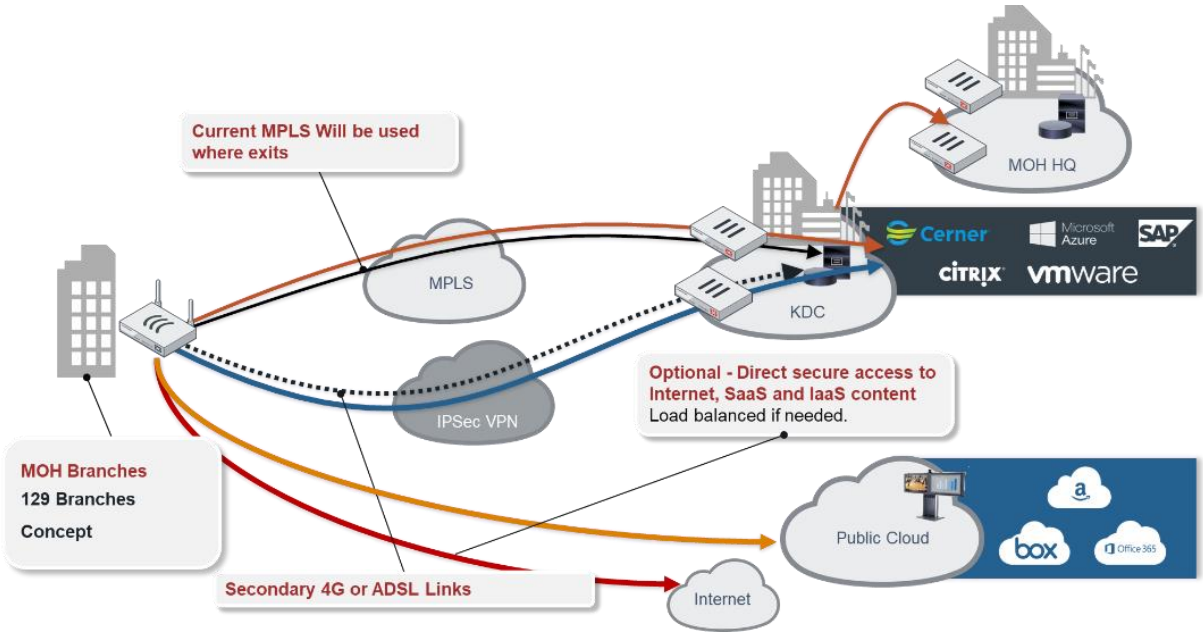
WSIS Values Promotion: SD-WAN solution for MOHAP has targeted the action lines - AL C2: Information and Communication Infrastructure - accordingly MOHAP hospitals and entities will provide greater flexibility, control and visibility of the IT infrastructure. This will help MOHAP to run more streamlined services, improving user experience and making operations more efficient, driving operational excellence. To provide a Cost effective Solution (hardware and software) that can replace/enhance the current setup and cover 134 branches using lower cost network (ADSL, 4G,…) 2. The solutions will provide a replacement/enhancement for traditional WAN routers and will be agnostic to WAN transport technologies. 3. The solution will provide dynamic, policy-based, application path selection across multiple WAN connections and supports service chaining for additional services such as WAN optimization and firewalls. 4. The Solution will provide Role-based access control (RBAC) 5. The solution is capable of providing detailed logging of traffic specially traffic going through the firewalls 6. FortiGate are widely compatible with most known event management (SIEM) solutions 7. The solution is able to provide secure tunnels based on secure key exchange, and unique codes for identifying and activating the solution components. 8. Dynamic routing path selection according to predefined roles. 9. The solution is built with scalable in mind to cater MOH current and future requirements. 10. The solution is designed to support branches scalability simultaneously using medium such as ADSL, 3G, 4G etc…

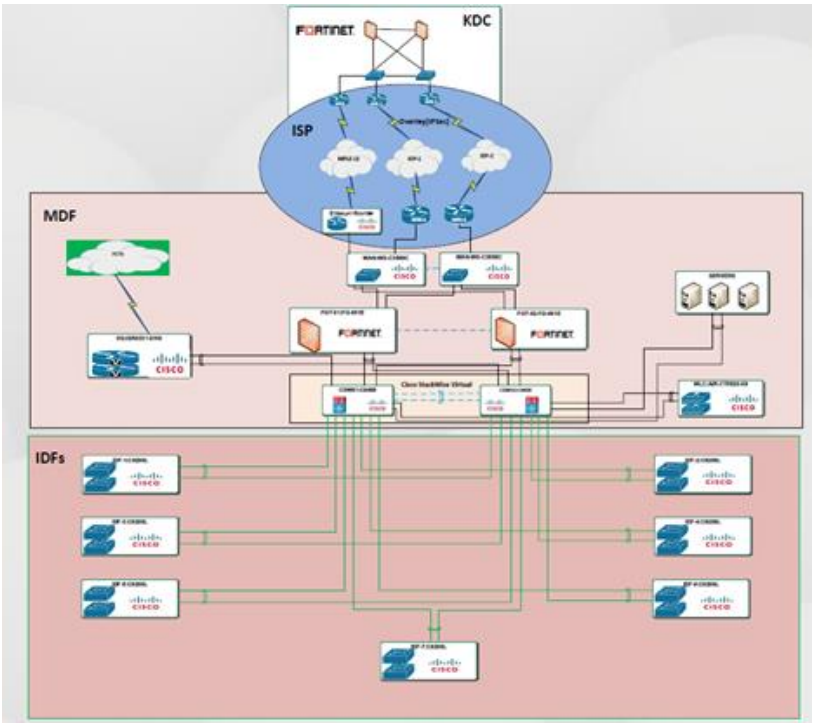
WSIS Action Lines: 2, 4, 5

SDGs: SDG3, SDG16, SDG17

Stakeholder Type: Government

Country, Region: United Arab Emirates, Asia and Pacific





Integrated Services Program

Utilising technological advancements to make processes smoother, more efficient, and paperless, Emirates Health Services (EHS), UAE, continues to innovate its workflows even with external entities. Many projects have come up that strive to maximise our efficiencies by banking on their Oracle Cerner EHR (Wareed's) capability of the integrated flow of information between different systems. With a vision to promote a culture of creativity and innovation through an integrated electronic platform using their EHR Wareed, four Screening programs were identified to be included under this initiative. These include pre-employment, pre-marital, pre-university, and national reserve screening programs provided at our Primary health care centres to meet the needs of four government entities (Federal Authority for Government Human Resources, Ministry of Justice, Ministry of Education, and Ministry of Defence). These services were reliant on manual processes that could be time-consuming. The Screening visits involved a lot of information gathering on papers and more than one visit to a physician to complete the screening process and receive a fitness certificate. Each visit was tied to at least one paper to print the fitness certificate.

Website: https://www.ehs.gov.ae/

Target Beneficiary Groups: OLDP, INDG, DISB, RURL

Replicable Description: This is a project with extensive technological capabilities. Any organisation with similar capabilities can replicate this model in their settings.

Sustainable Description: The core elements of sustainability were considered thoroughly when designing this project. Our leadership was convinced and engaged in the successful implementation of this program. We have created policies that define the roles and responsibilities of all users. We follow a continuous improvement cycle approach to ensure that our program is aligned with desired outcomes.

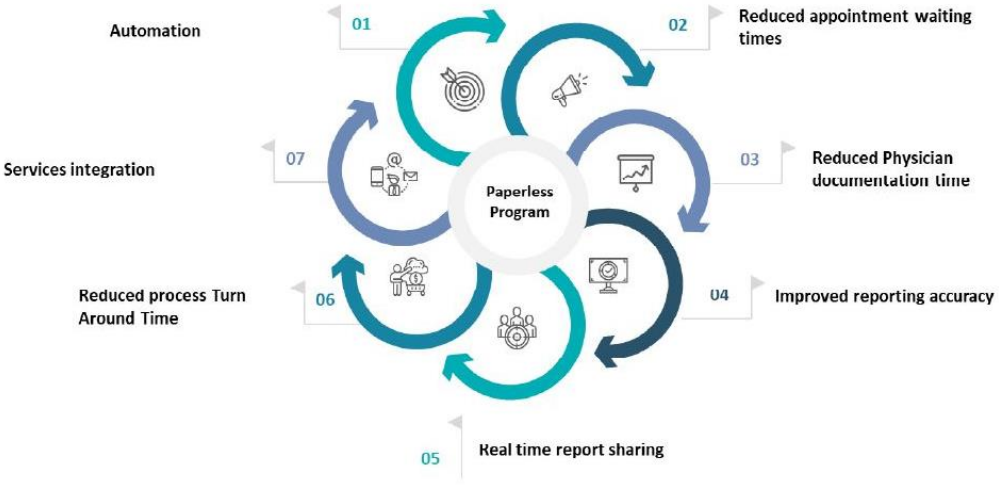
WSIS Values Promotion: -This program aims to create a system of safe and secure, bidirectional healthcare information exchange between EHS and other entities. - It focuses on producing efficient, environment-friendly (paperless), patient-centric and integrated solutions to meet the expectation of all services included.

WSIS Action Lines: 1, 2, 3

SDGs: SDG3, SDG8, SDG9, SDG11

Stakeholder Type: Government

Country, Region: United Arab Emirates, Asia and Pacific



WSIS Action Line C3. Access to knowledge and information

Armenian Startup Academy

Armenia Startup Academy is focusing on building game-changing entrepreneurship and startup education programs which will armor capable teams with knowledge and skills for building products that customers love. We are helping startups in gaining access to:- cutting edge customer development tracking knowledge and instruments,- startup curriculum designed from investment readiness perspective,- advanced mentors, advisers, instructors and entrepreneurial assistants. The program is designed to guide tech companies/teams through the process of customer development using advanced tracking methodologies and instruments. This includes active and continuous process of hypotheses verification in the marketIt aims to develop the Armenian startup ecosystem by utilizing necessary knowledge and experience and create an environment where global level technology startups will be born. It will help startups to create products that are really needed and for which people are willing to pay.

Website: https://www.startupacademy.am/

Target Beneficiary Groups: YOUTH, WOMN, RURL

Replicable Description: We intend to break the obstacles for Armenian tech companies for penetrating the market through a partnership with leading funding, acceleration and advisory institutions in the Europe, United States, Middle East and Africa.

Sustainable Description:

WSIS Values Promotion: By promoting the development of startups in Armenia.

WSIS Action Lines: 1, 3, 4

SDGs: SDG4, SDG16

Stakeholder Type: Civil Society

Country, Region: Armenia, Eastern Europe

Community Network for Education

The project consists of the construction of a local open access wireless network with free spectrum antennas (5.8GHz) and the implementation of an educational content server (called Chamilo -open source-) for the students of the `Eloy Alfaro` Educational Unit of the rural parish of San Blas, located in Imbabura, Ecuador. The total number of students who do not have fixed connectivity is 80%, and therefore, from the quarantine period, they did not have the possibility to continue studying regularly, considering that many of the teachers do not live locally. On the other hand, the amount of handed the assignments in by students was reduced by 90%. Then, the platform allowed teachers to generate content guided by the Ministry of Education to submit it to students, without Internet connection. Finally, considering that the school has 10Mbps of Internet connectivity, when teachers stop using it (approximately from 2:00 p.m.), it is routed to the network so that students can have access to other type of content that can complement their homework. This first stage has considered reaching 30 families until March 2021, benefiting more than 100 students of the School in order to support the self-provision of connectivity, the members of the network will pay approximately $3 to $5 dollars to finance the purchase of more antennas for the future beneficiary families in order to extend the network.

Website: http://redcomunitaria.umayux-ec.com/

Target Beneficiary Groups: INDG, POOR, MIGR, REFG, RURL

Replicable Description: The project can be replicated in any community or any low-income household that does not have connectivity. The access to the server allows the students to have content guided by their teacher and regulated by the Ministry of Education. For the deployment of the community network, it is necessary to involve the educational unit of the community to take advantage of the resources such as internet and computers that the school has. From there, teachers can send educational content and communicate with the students through written messages to help in their training process. Finally, the volunteers who wish to replicate this initiative in their locality will have information on the design of the network and the experiences that we have generated in this work in order to optimize the deployment of the network (in our website http://redcomunitaria.umayux-ec.com). If required, we can join directly with the shipment of donated equipment that has been refurbished to deliver to students.

Sustainable Description: When teachers leave school after classes, the Internet is routed through the network so that students have access to other types of content. The value that the families will pay from June 2021, will be about $3 to $5 dollars that will be used to cover the cost of more antennas for the new families that join the network. We also are trying to develop a payment mechanism through USSD messages and the recharges that users can make from their mobile phones to reduce the mobility of people who are in places very far from a centralized payment point. If the school in the community does not have internet to sub-distribute, the parish government, telecentre or other public or private company will be requested the collaboration to route their connection when they no longer use it effectively. The idea is to extend the network of each community and group the different community networks into a larger one to be able to channel a transport connection with the universities or internet service providers that are closest. Finally, we hope to train one or two people from the communities so that they can manage the network to correct minor damages that may occur. Thus, part of the payment made by the users of the community network is an income for the local administrators as well.

WSIS Values Promotion: The Community Network for Education project is focused on digital inclusion and the development of digital skills to give back to students the right to their

education who were affected by the irregularity in their school activities due to the pandemic. On the other hand, the purpose of the project is to replicate the experience of this community network in other localities at the national level to be able to interconnect them and thus expand the options for exchanging information and knowledge. In addition, the project seeks gender equity and the reduction of inequality between the countryside and the city through the cooperation of multiple stakeholders that contribute to the social, economic and productive development of rural areas.

WSIS Action Lines: 1, 2, 3, 4, LEA, 11

SDGs: SDG1, SDG4, SDG5, SDG10, SDG11, SDG12

Stakeholder Type: Private Sector

Country, Region: Ecuador, Latin America and the Caribbean



Jakarta Satu: One Map, One Data, One Policy

To facilitate knowledge transfer and data integration, the DKI Jakarta Provincial Government created a Geospatial Information System (GIS)-based site that contains maps and other data that can be accessed openly. Jakarta Satu is the program to integrate and synchronize the thematic maps of Jakarta to have one georeferenced, one standard, one database, and one geoportal. This program is regulated by Indonesian Presidential Regulation No. 9/2016 regarding the acceleration of the implementation of One Map Policy and Gubernatorial Instruction No. 34/2018 concerning map data systems on Jakarta Satu program. The maps that have been produced by collaborations among government agencies were compiled and verified. The validated thematic maps are then integrated with the standard base map. The major purposes of Jakarta Satu are to improving the quality of spatial planning and land use, resolving land-use conflicts, natural resources management, the realization of sustainable development goals, and disaster risk reduction management. This innovation considered as a geoportal that merges and leverages the effort of having Jakarta geospatial data from Local Government Work Unit (SKPD) for sharing data and easing the access to this information especially the data that are categorized as open data. Spatial open data can help the community and the public to find specific data that they are interested in. As well as for the government, the data can be used for making decisions to a policy statement. Furthermore, it can promote new shared services among the integrated government entities.

Website: https://jakartasatu.jakarta.go.id

Target Beneficiary Groups: YOUTH, OLDP, WOMN, INDG, DISB, UNEMP, POOR, MIGR, REFG, RURL

Replicable Description: Jakarta Satu gathered from among government agencies of Jakarta. This program embodies the Smart City vision and is a successful initiative which is referred to as a benchmark for the performance of a public service for regional or other government officials. So, it is highly enabled to be replicable to fulfil spatial data needs.

Sustainable Description: Jakarta Satu is established for the implementation of The One Map Policy with an effort to realize one map that refers to one geospatial reference, one standard, one database, and one geoportal so that it can become an accurate and accountable reference in implementing various spatial-based activities and policy formulation. Moreover, it is aligned with the SDGs where it mainly serves the Goal eleven (Make cities and human settlements inclusive, safe, resilient and sustainable) along with the other goals. This is evidenced through launching the latest implementation of Jakarta's Detailed Spatial Planning 2022 through Governor Regulation Number 31 of 2022 on Detailed Spatial Planning (RDTR) 2022.

WSIS Values Promotion: This innovation is in line with WSIS values of freedom, respect for nature, and shared responsibility, because the data can be developed by local governments to maximize regional potential and make relevant policies.

WSIS Action Lines: 3

SDGs: SDG1, SDG9, SDG11

Stakeholder Type: Government

Country, Region: Indonesia, Asia and Pacific



Reference of data and information systems of the country

This project offers the public statistical data produced by various local government agencies and organizations. The system, which has been implemented under the supervision of the Information Technology Organization of Iran, is considered as one of the main components of the open data reference system and brings many benefits to users. Among its most important advantages, the following can be mentioned- Creating a common infrastructure for sharing data sets produced by information custodian devices in the country.- Facilitating the search and retrieval of information related to open data available in the country based on things such as title, keywords, name of the custodian device, etc.- Getting information about the status of data available in the country.- Preventing rework to reproduce existing data in the country.- Facilitating access to open and functional data sets of the country by using the information contained in the data records, including how to contact the data custodian device.- Facilitate evaluation of available data for use in national projects and lower levels. So far, more than 6000 datasets have been uploaded in the system.

Website: https://www.data.gov.ir/

Replicable Description: Firstly the project covers the most important organizations and governmental bodies and then it replicate to the others.

Sustainable Description: Since this project provides accountability and help to have better governance in different aspects.

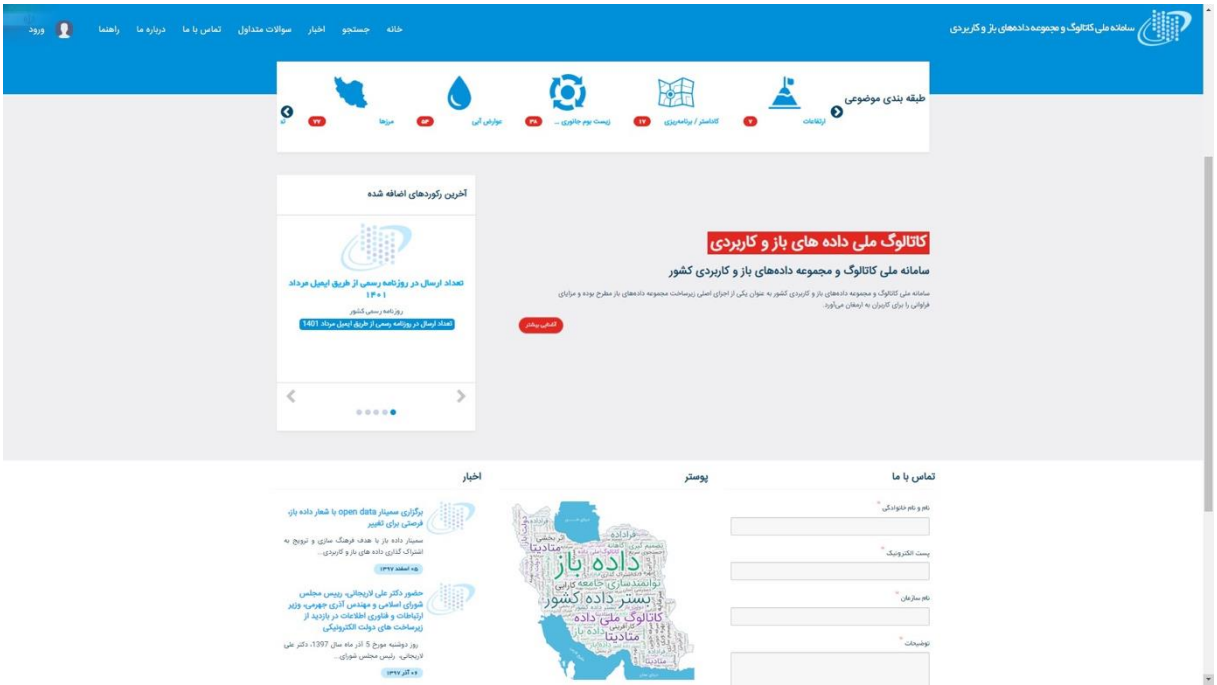
WSIS Values Promotion: Transparency and accountability is a pillar of information society. Open data project allows citizens to monitor data generated and managed by governmental agencies and ministries and thereby improves the accountability and transparency of government.

WSIS Action Lines: 3

SDGs: SDG8, SDG9

Stakeholder Type: Government

Country, Region: Iran (Islamic Republic of), Asia and Pacific



The National encyclopedia

In 2014 when the project of the National Encyclopedia (enciklopedija.lv) as an autonomous part of the National Library of Latvia was initiated, old-fashioned print encyclopedias were on the decline and the expansion of internet was dominated by sources of knowledge of various origin and quality. The objective of the National Encyclopedia was ambitious: to create trustful, contemporary, constantly up-to-date source of knowledge in Latvian that would be suitable for everyone - a mainstream universal encyclopedia, which would adopt all the elements of the nowaday internet-based information vehicle, using recent technological solutions, powers of both local and international academia while working with a limited budget allocated by the Ministry of Culture (editorial staff consists of 7 editors, which makes it probably the smallest staff of any universal encyclopedia in the world). The first result achieved was a completely new methodological approach (e.g., text structure, language suitable for both expert and general public) specifically created for the project to make the encyclopedia as efficient and user-friendly as possible. The second most important result was the reputation gained by the encyclopedia both at the academia and among general readership since itš public launch (December 2018). Hundreds of authors quickly became what could be described as a community of creators, and most of them continue to contribute to the encyclopedia. Thirdly, the content of the encyclopedia has grown from scratch to more than 3400 well structured and illustrated articles at the end of 2022, and it is growing every day. This content is among the TOP 3 web searches for almost all articles in Latvian. Encyclopedia serves as an additional (or sometimes main) source of information for students of all levels. Out of approximately 2 million speakers of Latvian, in 2021 the iencyclopedia had 950 000 visits by unique users.

Website: https://enciklopedija.lv/

Target Beneficiary Groups: YOUTH

Replicable Description: Project could be replicated by any country interested in creating and developing a resource of universal knowledge with limited financial means and using their own unique language and comparatively limited academic resources. Many smaller countries and languages feel disadvantaged and unable to compete on the internet, there exists an increasing gap between those who can provide massive amounts of information created by scholars, that is required for the contents of the universal encyclopedia, and those who for various reasons can't. The National encyclopedia project at the National Library of Latvia sets an example and a matrix for different language communities to follow. Our project can be replicated for those who have limited financial resources, who do not have immense number of academic institutions, and do not have established traditions of communication of popular science. The concept - quality before quantity - offers chance of a gradual, long-term development and creation of a network of interrelated articles, reputation building among academics and general public, and climbing up search engine ranking list on the internet.

Sustainable Description: Contemporary online encyclopedia is a process without a finish line. Both permanent content updates, adjustments to the latest technology takes and should take place all the time. Creating an encyclopedia is a process that already happens distantly, e.g., nowadays it rarely involves the use of office space, almost all the production of content takes place in a virtual environment. Sustainablity also includes a careful approach to the knowledge we collect - we are working on easy and reliable ways to update, to change, to add or to remove texts and technological elements now and in the future.

WSIS Values Promotion: First of all, at the very core of the philosphy of the National encyclopedia is academic freedom - academics decide how to create the content of the encyclopedia. Editors of the encyclopedia, figuratively speaking, are packaging the products

made by academically unconfined, unbiased and professional academic community. Another fundamental element of the philosophy at the National encyclopedia is the academic equality - what matters is knowledge not age, gender, social, ethnic or religious background or beliefs. A community of almost 700 authors represent all social groups within the Latvian academia. Thirdly, transparency and openness in decision making process is essential to gain public trust. Fourth, access to the encyclopedia is free of charge, without a paywall and it is technologically easily accessible knowledge for everyone.

WSIS Action Lines: 3

SDGs: SDG4

Stakeholder Type: Government

Country, Region: Latvia, Eastern Europe



Establishment of a Telecentre for girls and Women

RESARU would like to establish a resource centre, telecentre where girls and women can access internet, photocopying, scanning among other services. We train girls especially vulnerable and orphans and marginalised communities. Internet services are expensive as such girls and women do not have access to internet including so by coming up with the telecentre, we shall bring access to internet. We also train girls in computer skills. The Objective is to provide technology to the rural. To enhance capacity of girls in computer use and internet. To provide technology to rural and remote areas. The activities including typing, internet services, photocopying, scanning, teleconference, zoom meetings. Those in community day secondary schools girls access information on assignments and their research.

Website: https://beta.girlsnotbrides.org/our-partnership/member-directory/rural-education-support-and-rehabilitation-unit-resaru/

Target Beneficiary Groups: YOUTH, WOMN

Replicable Description: We intend to scale up the project because of high demand of the services. We have received overwhelming response hence the need to scale up

Sustainable Description: It helps to enhance capacity of girls in computer use and internet and to provide technology to rural and remote areas.

WSIS Values Promotion: We conducted evaluations in various schools and realized there are now using relearning and with covid the telecentre has helped girls accessing education during these restriction times.

WSIS Action Lines: 1, 2, 3, 5

SDGs: SDG1, SDG3, SDG4, SDG5, SDG8

Stakeholder Type: Civil Society

Country, Region: Malawi, Africa



Statistics Data Warehouse (StatsDW)

Statistics Data Warehouse (StatsDW) is an Enterprise Data Warehouse (EDW) containing historical data from various censuses and surveys conducted by the Department of Statistics Malaysia (DOSM) as well as compiled data for economic indicators. EDW consolidates data from multiple sources, giving the right people access to the right information so that they can take necessary action. In turn, this helps in reporting, data analysis and acts as a core component of business intelligence/analytics environment. The objective of StatsDW is to be a local reference platform; enable users to generate and analyse data more easily; display interactive tables and visualizations; display quality, integrity and guaranteed validity data; save time and cost of data search; and maintain the confidentiality of individual data. The outcomes that will be achieved through this StatsDW project are prepare DOSM as a Central Repository of Statistics; be the main platform for users to access and organise data as well as statistical graphs according to their own needs (custom made); encouraging data sharing between public sector agencies, can improve data culture and value added for value creation of data and integrating StatsDW with existing systems in DOSM and other Ministry/Department/Agency systems through the Application Programming Interface (API).

Website: https://statsdw.dosm.gov.my/

Target Beneficiary Groups: YOUTH, OLDP, WOMN, INDG, DISB, UNEMP, POOR, MIGR, REFG, RURL

Sustainable Description: This platform will be available all the time throught portal. StatsDW Blueprint 2021-2025 has been developed to understand the current capabilities and challenges of StatsDW, with a focus on identifying gaps and opportunities through environmental scanning; established a clear vision and aspirations for the system that is aligned to enterprise-wide goals and directions over the years towards 2025.

WSIS Values Promotion: Brings Data To Life

WSIS Action Lines: 1, 2, 3, 5, GOV, BUS, LEA, HEA, EMP, ENV, AGR, SCI

SDGs: SDG3, SDG8, SDG9

Stakeholder Type: Government

Country, Region: Malaysia, Asia and Pacific

Qatar Open Data Portal

Qatar Open Data Portal was launched in 2019 to provide a bilingual platform for government entities to share data, and make it available to the public, providing users with the ability to access open datasets and important statistical information released from government entities in a single window. The Portal is a part of one of the key objectives of Qatar Digital Government (QDG) Strategy 2020 to increase government openness and generate economic and political value by collaborating with customers on a co-design. Qatar has issued the Open Data Policy, announced in 2014, to support this objective, instituting specific actions for government entities to expand public access to government data by making it available online. This comes in line with the commitment of the Government of Qatar to publicly release the data it collects and produces so that businesses, researchers, and civil society members could take advantage of this data and reuse it in creative ways that are beneficial to the society.

Website: https://www.data.gov.qa/pages/home/

Target Beneficiary Groups: YOUTH, OLDP, WOMN, INDG, DISB, UNEMP, POOR, MIGR, REFG, RURL

Replicable Description: It is replicable, and this is clear in other government data portals, but with changes in how some data are presented or added.

Sustainable Description: Open Data is essential for building a sustainable, resilient infrastructure and improving it by depending on real-time data from all sectors. In addition, all datasets available on Qatar Open Data Portal are available for download in different formats without the need for printing, which helps reduce the amount of carbon footprint.

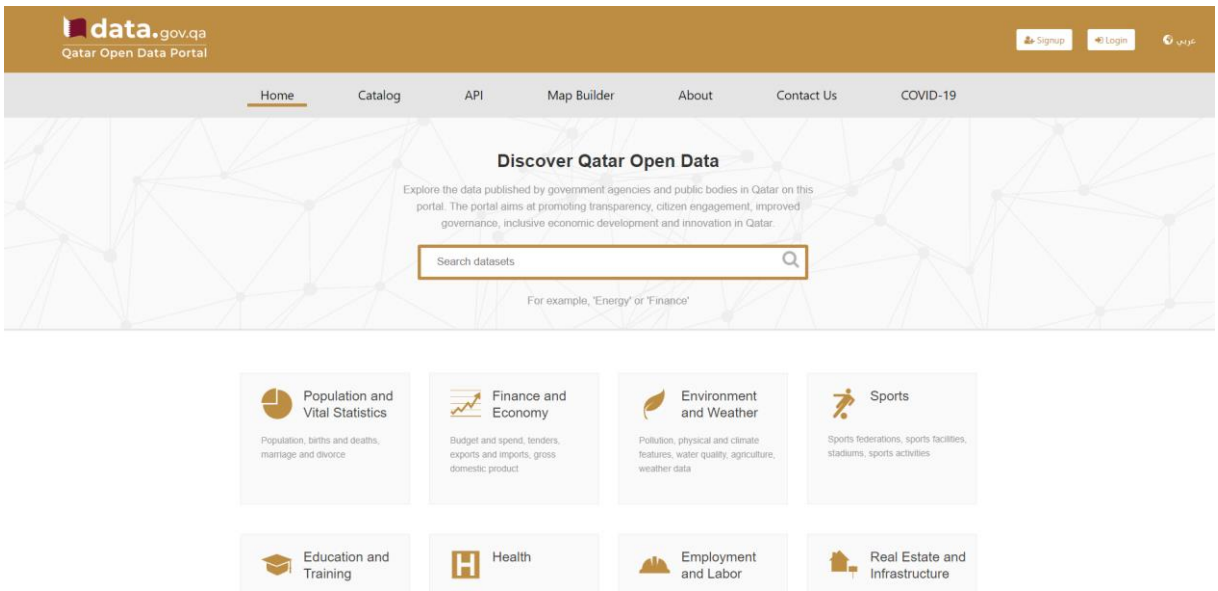
WSIS Values Promotion: Qatar Open Data Portal promotes open access initiatives to make information affordable and accessible on an equitable basis. It also promotes electronic publishing, long-term systematic and efficient collection, dissemination and preservation of essential digital data. The Portal adopts metadata standards to facilitate cooperation and effective use of collected information and data as appropriate to conduct scientific research.

WSIS Action Lines: 1, 2, 3, 5, 6, GOV, BUS, LEA, HEA, EMP, ENV, AGR, SCI

SDGs: SDG1, SDG4, SDG5, SDG7, SDG8, SDG9, SDG10, SDG11, SDG12, SDG15, SDG16, SDG17

Stakeholder Type: Government

Country, Region: Qatar, Asia and Pacific



mitp.md - Moldova tech ecosystem at 360°

Moldova Innovation Technology Park (MITP) is Europe's first e-Park and the largest tech entrepreneurial community in Moldova and the region. It registers over 1,250 resident companies, which generate 75% of jobs in the Moldovan IT sector, 80% of its turnover and 10% of the country's total exports. This year, our team developed a unique digital platform that provides a 360° view of the Moldovan IT ecosystem, digitizes the entire interaction between the park and its residents, and generates new opportunities for interaction and collaboration between different actors involved or interested in the tech industry. The platform development was highly supported by the Government of the Republic of Moldova, aligned with the Government's effort on the country's digital transformation. The main benefits of the www.mitp.md platform consist of: • Creating a unique platform around the entire IT ecosystem in Moldova; • Easy access to the latest information about the IT / creative / research and development industry, including statistics, vacancies, news, events, projects and tenders, etc.; • Providing a unique space where detailed information about MITP 1250+ resident companies can be found; • Connecting all the actors in the ecosystem in one single space and sharing and matchmaking the opportunities offered by them; • Digitalization of the interaction between the park and its residents. Residents can easily be updated with all the information through the www.mitp.md platform, instead of countless emails. Since its launching on 18 October 2022, the www.mitp.md platform has generated the following results:-1250+ companies have registered and filled in their public company profiles; -3000+ quarterly reports submitted digitally via the platform by the resident companies;-20+ community members registered and contributed with events and tenders;-45+ new companies have adhered to the IT Park via the platform with a fully digital experience and are now active members of the community.

Website: https://mitp.md/p/web/webHome

Sustainable Description: The mitp.md platform is sustainable at least during the period of Park operation, which was established for 10 years, by 31 December 2027.

WSIS Values Promotion: The mitp.md platform promotes shared services, responsibility, traceability, transparency, integration, equal treatment, and cooperation. MITP seeks to accelerate in a highly efficient way the digital transformation process. Being inspired by our vision, MITP developed the only and unique solution for MITP residents and the whole Moldovan and regional IT and digital innovation ecosystem. This project aims to: - Provide a unique digital space offering various functionalities for MITP Community and the entire IT and digital innovation ecosystem inter-alia: job center, tenders and projects, dedicated company profiling for each resident, matchmaking options, events, ecosystem statistics, industry news, etc.; - Digitize the interaction with the residents that mainly consists of applications, quarterly reporting, IT Visa application, changes to company data, any kind of interaction with the MITP while holding the resident status.

WSIS Action Lines: 2, 3, 4, 6, BUS, EMP

SDGs: SDG1, SDG2, SDG3, SDG5, SDG8, SDG9

Stakeholder Type: Government

Country, Region: Republic of Moldova, Eastern Europe



Operator of social Internet advertising

Websites with an audience of more than 100,000 users give a 5% quota for social advertising. The social advertising operator manages the distribution of social advertising on Russian websites, helping non-profit organisations (and charities) and government agencies to publish their social advertising campaigns. The goal of social advertising placed through the operator on the Internet is to change people's moral compass, draw attention to social problems, and increase public awareness of opportunities for social assistance and self-actualisation. Each advertising campaign receives up to 70 million hits on the Internet. The Operator of social Internet advertising model allows reaching 100% of Runet's audience Content placement format: Banners on the Internet Advertising platforms: Yandex, VK, Rambler, 2GIS, Ozon, Avito and others. Selection of social advertising is carried out according to 11 key themes that are identified through research from the population survey, survey of the non-profit sector, survey of government agencies: healthcare, education, improving financial and other literacy, social support, environment, volunteerism, support for the non-profit sector, culture, support for people with disabilities, prevention of child abandonment, donor development, support for people in difficult situations, etc.

Website: https://соцреклама.ири.рф

Target Beneficiary Groups: YOUTH, OLDP, WOMN, INDG, DISB, UNEMP, POOR, MIGR, REFG

Replicable Description: The project can be replicated (replicating the successful Russian experience) in any country where the law provides for the regulation of online advertising.

Sustainable Description: The Operator of social Internet advertising is sustainable because it is designed for long-term impact, incorporates ESG factors into its work and uses ICTs for the public good.

WSIS Values Promotion: The information and communication infrastructure are the most important foundation for an open information society. Access to information and knowledge - these are the goals of a social advertising operator. The global objective of social advertising placed through the operator on the Internet is to change people's moral compass, draw attention to societal issues, and provide access to knowledge about government social projects and non-profit sector initiatives. The Operator of social Internet advertising is a platform that promotes the well-being of society by harnessing the power of information and communication technology to achieve the Sustainable Development Goals.

WSIS Action Lines: 3, 4, 6

SDGs: SDG1, SDG2, SDG3, SDG4, SDG5, SDG6, SDG8, SDG9, SDG10, SDG11, SDG12, SDG13, SDG14, SDG15, SDG16

Stakeholder Type: Civil Society

Country, Region: Russian Federation, Eastern Europe

National Data Bank

Aligned with the Vision 2030 of the Kingdom of Saudi Arabia, SDAIA is taking charge in building and promoting national capabilities in Data and Analytics, thereby creating social and economic impacts, grow local talent and build a Data Driven economy and society. This will help in broaden the use and adoption of Data in the Kingdom, fuel socio-economic growth and yield digital dividends. Most of the government organizations have limited access to the much-needed, high quality cross government data assets and always struggle to discover and get hold of those trusted data assets to generate actionable insights. To address pain points of government entities face, SDAIA has developed a national scale data ecosystem called as NDB which consists of data-centric platforms to achieve following goals: • Contributing sizable non-oil revenue in the GDP of the Kingdom • Instilling data as a common denominator for the digital economy • Increasing national productivity, international competitiveness • Steering ESG initiatives for sustainable development • Realizing positive economic and financial benefits of national policies and decisions in order to accelerate data literacy, empower self-service data discovery and accessibility, SADIA has developed an innovative and state of the art constellation of the platforms encircled by Data standards and policies for robust governance. Furthermore, phenomenal progress has been achieved and now these platforms have become the focal point of the data related activities (exchange, governance, experimentation etc.) across government entities and tangible impact and results of NDB platforms are as follows: • National Data Lake: 40 Government agencies +2000 Datasets • Open Data Portal: +6000 Datasets from 9 sectors • National Data Marketplace: +200 APIs (more on the way) • National Data Catalog: +130 large systems, +10 Agencies, + 200 KPI/Metrics, +1500 Business attributes, +1000 Glossaries • National Reference Data Platform: +300 reference data tables

Website: https://data.gov.sa/en/

Target Beneficiary Groups: YOUTH, WOMN, UNEMP, POOR, RURL

Replicable Description: the end-to-end design of NDB project was based on open architecture principles and the design intent was that the part of the full-scale blueprint of NDB especially Data Lake can be leveraged for setting up the data lakes for various sectors (Health, Education, Tourism, Entertainment, Culture etc.) which is perfectly aligned with the KSA National Data Strategy to save cost, time, human effort, minimize the risk and accelerate the data sharing by the sectors through faster time to market. This replicability also benefits NDB as it streamlines the sectorial data acquisition and helps in amassing national data assets at much higher speed through the sectorial data lakes. Furthermore, NDB also aspires to act as an advisor, coach by sharing all the knowledge and learnings for countries intending to develop the same Data Bank to help them saving cost, achieving faster time to market and benefiting from governed and trusted national data assets for delivering better civic services and social uplifting to its people.

Sustainable Description: Successful initiatives tend to be purposeful. National Data Bank is fully sustainable from technical aspect as it is managed by inhouse team of IT experts of SDAIA. The open architecture principles adopted from the very beginning of the NDB journey is also helping by having minimal to no external dependency and vendors lock-in. From economic sustainability perspective, NDB has empowered a national data marketplace which has an integrated a comprehensive monetization framework for monetizing the National Data assets which offsets the CAPEX and OPEX of NDB and additionally contributes to the Kingdom’s GDP and increasing the non-oil revenues. The two-prong approach for achieving sustainability is very well aligned with the Vision 2030 of the KSA and national data strategy.

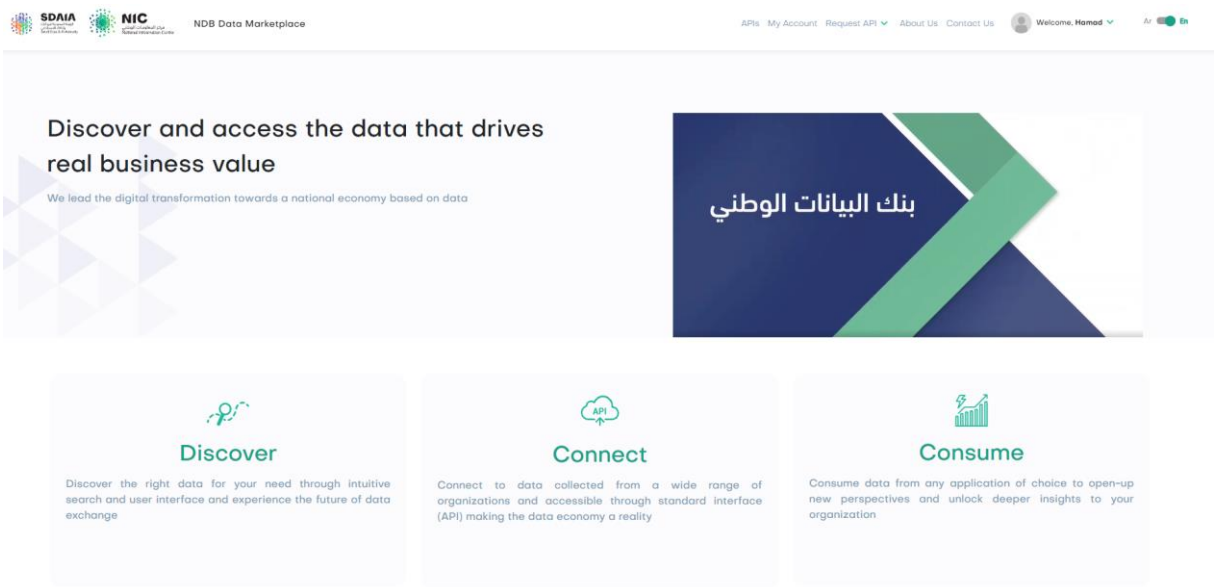
WSIS Values Promotion: The NDB initiative helps in actively promoting shared responsibility, and respect for nature values of WSIS by unlocking the value of data by collecting from various government agencies which is needed to understand the impact of various economic and industrial functions on environment and sustainability. The data is made available to policy makers to have a full insight through data that how environmental concerns and aspirations for sustainable future can be woven into the policies and acts to ensure these are adopted as shared responsibility to give a better tomorrow for the generations to come. Without that data, all policies and actions are best guesses which highly likely result in being counter-productive and producing undesirable impacts.

WSIS Action Lines: 3, 4, 6

SDGs: SDG4, SDG8, SDG9, SDG11, SDG13

Stakeholder Type: Government

Country, Region: Saudi Arabia, Asia and Pacific



Naqel

There are more than 60 higher education institutions in Saudi Arabia, including universities, colleges, and specialized institutes, whether governmental or private. Each entity has data, including students, administrative staff, and educational staff, whether it is current or historical data. From here, the specialists in the Ministry of Education felt that they have a treasure of data. Still, it is scattered among these institutions, and obtaining readings that benefit the higher authorities in supporting their decision-making is challenging. Accordingly, the idea of limiting the most important fields focused on extracting the essential statistics has been devised by providing servers in each educational institution that pulls data every day from these entities in an automated manner and per the cybersecurity legislation in this regard. "Naqil" is the system that presents the received data and its dashboards to the ministry's leaders. As for educational institutions, they can use the system to show statistics on the availability and quality of their data. Besides that, the system sends notes on data quality issues and shares them with the organizations to correct and resubmit them again.

Website: https://naqel.moe.gov.sa

Target Beneficiary Groups: RURL

WSIS Values Promotion: The shared responsibility of all educational sectors in the Kingdom of Saudi Arabia regarding the availability and quality of data, which provides a database that helps officials take appropriate decisions at the right time and ensures equality for all due to periodic follow-up of data.

WSIS Action Lines: 3, GOV

SDGs: SDG4

Stakeholder Type: Government

Country, Region: Saudi Arabia, Asia and Pacific

Child Safety Project

In today's world, parents need even more support than ever to keep their children safe. We combined our technical expertise with our love for corporate sustainability into the "Child Safety Project." This is a multi-faceted and multi-phased project with the main objective of helping parents and their children stay safe from multiple threats. As part of our partnership with UNICEF, we launched in 2021 phase one of the project called the Internet Monsters Campaign. As part of the campaign, we also created the comprehensive Online Safety Booklet to serve as an invaluable resource for parents and children. In addition, we also launched the Parental Control Page to show parents how they can set up parental controls on a variety of devices and gaming consoles in order to help keep their children stay safe online. We launched an anti-bullying campaign to raise awareness on this important matter. The videos show real-life incidents of bullying and how they can impact children's wellbeing. Finally, we signed an MoU with Child Helpline International (CHI) in order to leverage their expertise and integrate it into the KSA child helpline. To conclude we continue to work hard to protect kids from both online and offline threats.

Website: https://sa.zain.com/en/personal/Parental-Control

Target Beneficiary Groups: YOUTH

Sustainable Description: The project is part of our Corporate Sustainability Strategy which is made up of 4 main pillars. One of the pillars focuses on youth empowerment with a sub-pillar focusing on raising awareness on child safety.

WSIS Values Promotion: We promote ICT as a force for good. This project is about combining technology with humanity in order to promote quality education resulting in good health and wellbeing.

WSIS Action Lines: 3, LEA, 10

SDGs: SDG3, SDG4, SDG16

Stakeholder Type: Private Sector

Country, Region: Saudi Arabia, Asia and Pacific



Internet Hygiene Portal

As more businesses go online, cyber threats such as ransomware and phishing are becoming clear and present concerns. Many enterprises, particularly SMEs, have not adopted internet security best practices in safeguarding their domains, websites, and email servers. This lack of preparation and adoption put both the enterprise themselves and their customers at risk as their transactional data may be exposed. To protect Singapore's citizens and safeguard our cyber-space activities, the Cyber Security Agency of Singapore (CSA) launched the Internet Hygiene Portal (IHP) in October 2022. IHP is a free-to-use website platform that allows users to check cyber hygiene status of websites and provides enterprises with tools to improve the security of their websites. IHP provides access to information and knowledge to create a safer, secure and reliable internet ecosystem through the collective efforts of government, enterprises and individuals. For enterprises, IHP serves as a one-stop platform to support enterprises via an'AAA' approach: enhancing Awareness by providing enterprises with easily accessible resources on internet security standards, facilitating Assessment via self-initiated 'health check' tools, and promoting Adoption by reducing the friction for enterprises to embrace the recommended measures. Users can also use the assessment tool to find out more about a specific digital website or platform's internet hygiene. For a quick snapshot, CSA published an Internet Hygiene Rating table in the IHP website to facilitate visibility and transparency of websites and digital platforms to layman users. This will allow users to make informed choices on the transaction platform that would provide a higher assurance. The information provided in the IHP takes a step further from education to real live guidance that businesses and consumers can take as a reference on the level of protection accorded by a specific website/ digital platform. The rating table will be further developed to include more industry sectors.

Website: https://ihp.csa.gov.sg

Target Beneficiary Groups: YOUTH, OLDP, POOR, RURL

Replicable Description: While CSA designed IHP primarily to raise the internet hygiene in Singapore, other countries and parties can replicate the idea to fit their unique needs. In fact, there have been interested parties who engaged CSA to better understand how they could leverage IHP or adopt IHP's model in their own ecosystem. Besides replicating the idea, others can also mirror the Internet Hygiene Rating table to shape the behaviours of their consumers in each of their unique country, and popular regional digital platforms. In doing so, we will be able to see a significant rise in internet hygiene for all digital services across the globe.

Sustainable Description: The best practices and recommendations included in IHP was informed by the standards, guidelines, and recommendations of Internet Engineering Task Force (IETF), U.S National Institute of Standards and Technology (NIST), and Open Web Application Security Project (OWASP). These practices are thereby sustained by communities and institutions, along with advances in technological developments, and the ever-evolving threat landscape. On this basis, CSA is committed to work with international practitioners and leading global tech firms to keep IHP's guidance relevant. In this current iteration, CSA had worked with the Internet Society, and hyperscalers, such as Amazon, Google, and Microsoft, to review and curate the baseline internet security best practices for adoption by enterprises to ensure users' protection when using online platforms and to create a safer and more secure cyberspace. This project is sustainable as it seeks to fundamentally change the mindsets of enterprises and consumers, by getting them ready for the digital future. With greater awareness of the importance of internet security, and the increasing threat environment, the concerns and impetus to act could only grow stronger. The project will start on a voluntary based and reinforcing cycle, by leveraging government commitment,

enterprises proactiveness in the context of competitive branding, and increased consumers awareness and demand for greater protection. This approach, when combined and followed up with appropriate legislative measures, will ensure sustainability and responsiveness to the dynamic cybersecurity landscape in the long run.

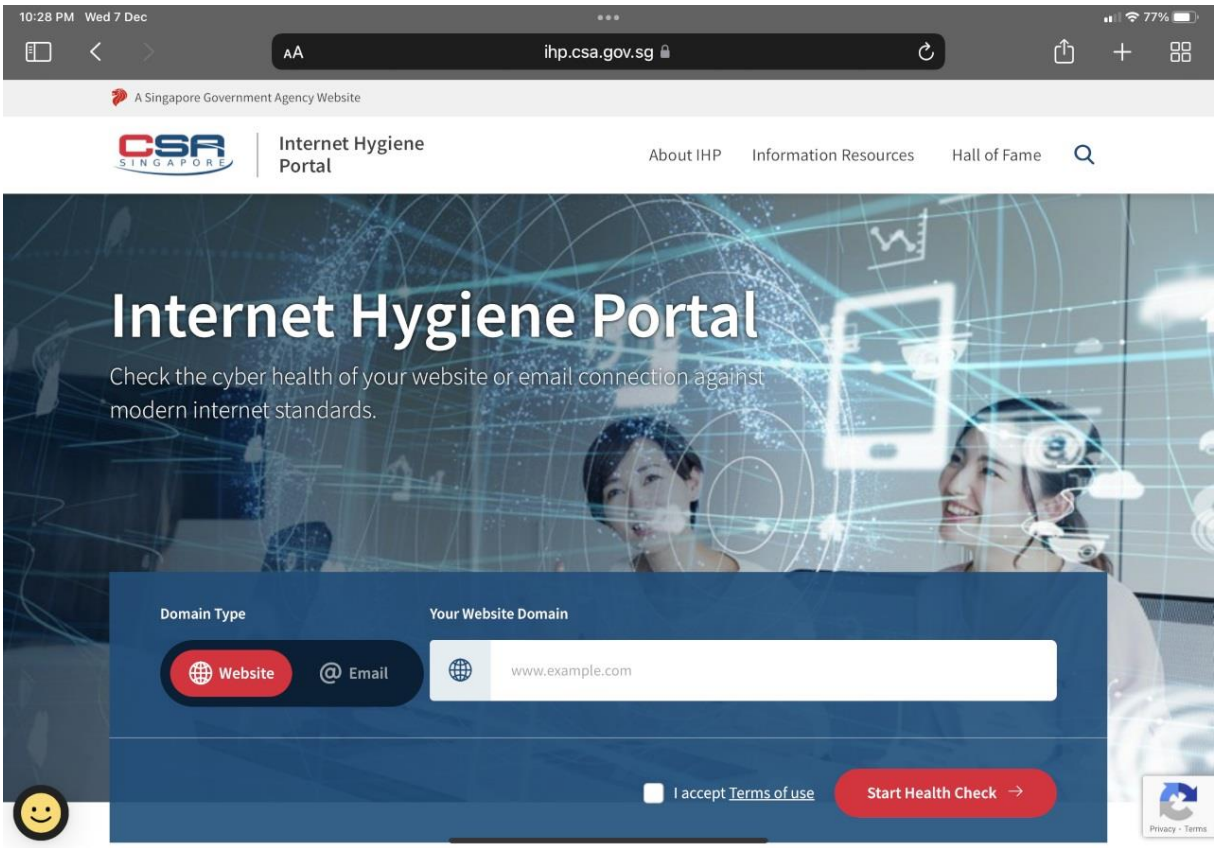
WSIS Values Promotion: IHP promotes WSIS' values of providing cost effective, affordable and accessible solution to develop quality services that are equipped with the necessary cybersecurity provisions to support economic development and human well-being. Cybersecurity is a team sport, where everyone has a role to play. That is why IHP was created as a shared responsibility tool. It promotes active participation and a spirit of shared responsibility between the government, enterprises and consumers to elevate the security of digital services. This spirit forms a chain of responsibility where we each chip in to make Singapore's internet space a safer and more secure environment to work, live and play. Furthermore, the fact that IHP is free-to-use will remove any barrier for entry for small businesses. Importantly, the IHP is helping to build greater cybersecurity consciousness, to transform consumer mindset and get them ready for the digital future.

WSIS Action Lines: 3, 5, 6, BUS, 11

SDGs: SDG9, SDG11

Stakeholder Type: Government

Country, Region: Singapore, Asia and Pacific



Geekulcha

Geekulcha is where the young, skilled, creative and ambitious tech minds meet to connect with each other, share knowledge, collaborate on projects, network with industry leaders, obtain training to further improve and enhance their skills and to put that newly acquired skill to work. The platform has over 9 400 students across Africa. Established 15 March 2013, our focus is on empowering young geeks through ICT skills development and training while giving them a taste of what awaits them in the big world through industry exposure.

Website: https://www.geekulcha.com/

Target Beneficiary Groups: YOUTH

Replicable Description: Has expanded to other countries in Africa: We currently have representatives in Mozambique, and also have key partners in Kenya. So, when we host our annual Geekulcha hackathon here for example, our partners have hosted it at the same time in Kenya both in 2015 and 2016. With Mozambique, we've been working on a skills exchange program, whereby their developers traveled down to see us and our team is heading there in September.

WSIS Values Promotion: We create platforms that enable innovation and creativity. We bring excitement and enlightenment around technology, by building co-creation spaces, organizing hackathons or meet-ups, and facilitating tech trainings.

WSIS Action Lines: 3, 4, LEA

SDGs: SDG4, SDG8

Stakeholder Type: Private Sector

Country, Region: South Africa, Africa



Books on the Phone

Türk Telekom considers the access to information of individuals who cannot participate equally in social life as its corporate responsibility and puts the equalizing power of technology at the service of the society. Turkey's first audiobook service on the phone, which has been in our lives for 10 years and was implemented in 2011 with the cooperation of Boğaziçi University GETEM (Technology and Education Center for the Visually Impaired) with an understanding of accessible communication for all, provides access to information for the visually impaired, and is continuously developed in line with the needs of the visually impaired and makes life easier for users. In “Books on the Phone”, there are more than 3,000 books read by volunteers in 50 categories. The application has been downloaded 55,000 times. In addition, 30 of the most well-known paintings by world-famous painters are included in the application with audio descriptions under the name "The Paintings are Talking". News flows about Turkey and the global agenda can be followed instantly on the app. With the money recognition feature developed for the first time in Turkey, visually impaired people can shop safely by holding the money on the phone screen and hearing the amount aloud. With the barcode recognizing feature, holding the drug box to the phone screen can be enough since the camera recognizes the barcode. Thanks to the app, the prospectuses of 6,000 drugs can be accessed without the need for anyone else.

Website: http://www.turkiyeyedeger.com.tr/telefon-kutuphanesi/

Target Beneficiary Groups: DISB

Replicable Description: The project has been carried out over 10 years. Untill all the books and printed documents are available in audio or Braille format, the application is needed to provide access to books and information in audio free of charge to people with visual disabilities. The projects started to offer audio books via land phones where mobiles and internet has a very limited use all across Turkey but fixline used to be in every house. Since then, the service was transformed into mobile app in accordance with the mobile penetration rise rapidly. Thus the service is reachable in everywhere at any minute. The app service has been widened comprehensively in line with the needs and technology has to offer. The project does not just provide access to books but also it gives an opportunity to user to reach world famous paintings with their audio descriptives. More to mention, lately the app offers free access to medicine inserts in audio format so that the visually impaired user does not need anyone to use. As the technology developes and the needs for visually impaired exists with a changing content, the project will be adressed to reach information for users.

Sustainable Description: Türk Telekom offers information technologies, which are the main driving force for sustainable economic growth and social development, to use in every corner of Turkey, and considers it its corporate responsibility to contribute to the access to information of all segments who cannot participate in social life due to economic, social or physical reasons, in addition to the products and services it develops. Türk Telekom supports the United Nations Sustainable Development goals with its projects. According to 2002 TUIK data, the ratio of the disabled to the total population is 12.29 percent. 281 thousand 439 out of 2.5 million disabled people in the National Disability Data System of the Ministry of Family and Social Services are visually impaired. “Books on the Phone” serves sustainable development by reducing inequalities, one of the United Nations Sustainable Development Goals, by enabling the visually impaired to access information and thus to participate equally in life. The project has been ongoing since 2011. The project has been serving the visually impaired for 10 years, as well as being one of the first projects to draw attention to accessibility in Turkey, breaking new ground in Turkey that meets the needs of the visually impaired; it also leaves a sustainable impact on the society in terms of raising public awareness with works such as the “Paintings Are Talking” exhibition, which offers the

opportunity to experience art together to everyone who are visually impaired and who are not. The project not only facilitates the lives of the visually impaired with the accessible content it offers, but also contributes to the development of policies related to the awareness it creates in the public and draws attention to accessibility, and also inspires the proliferation of similar studies. “Books on the Phone” continues to be a model project and the experience is shared in the workshops organized by the Information and Communication Technologies Department.

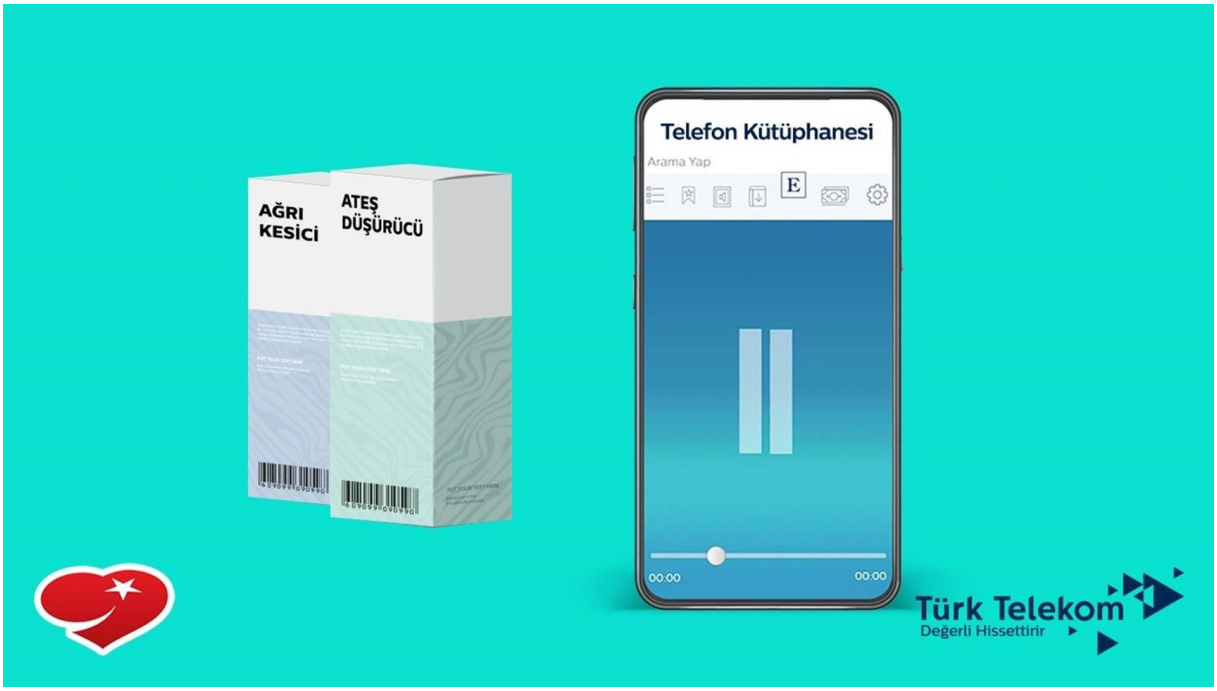
WSIS Values Promotion: Respect for Nature – “Books on the Phone” application offers more than 3 thousand books as digital content. 1 braille A4 page requires the use of 4 A4 sheets. Therefore, approximately 2,400,000 paper pages, that is, 960 boxes of A4 paper, were saved. Approximately 240 trees were prevented from being cut down. Equality - “Books on the Phone” application, inspired by the equalizing power of technology, enables the visually impaired to access information, is an accessible, free Turkish application that removes barriers to knowledge with its audio access to many books, as well as different types of content options and new features developed. The application can be downloaded free of charge on the App Store, Google Play and Huawei platforms, and only the visually impaired can use it due to the copyrights of the books. There are more than 3,000 books in more than 50 categories, from sufism to psychology, from kid's books to biography, on “Books on the Phone.” Visually impaired users can listen to the news from Turkey and the global agenda instantly and audibly. The " Paintings Are Talking" section in the application offers users an accessible exhibition experience with audio descriptions of world-famous paintings. From Mona Lisa to The Scream, from Dali to Picasso, there are 30 of the most well-known paintings by world-famous painters.

WSIS Action Lines: 3, LEA

SDGs: SDG11, SDG15

Stakeholder Type: Private Sector

Country, Region: Turkey, Western Europe and North America



Empowering women and girls through free internet

Foundation for Development and Relief Africa (FIDRA) started a journey as a partnership of young people, churches and local organizations committed to ending extreme poverty. Our single aim was to strengthen service delivery focusing mostly on mental, maternal and child health, Rights advocacy, education and empowerment of the marginalized. FIDRA works to create a society where young people are informed, empowered and freely given the opportunity to invest in their own future. Over the last years, FIDRA has made notable progress on: - Supporting maternal and child health services through creating access to commodities and services that save expectant mothers and their newly born children - Creating access to safe and clean drinking water for girls, children, women and their communities, - Improving livelihood of young mothers, youths and the marginalized groups - Improving environment that supports girls education through menstrual hygiene management and provision of scholastic materials to rural poor girls - Breaking barriers on issues that drive HIV/AIDS among the most at-risk rural young people - Equipping rural smallholders farmers especially women with smart agronomic skills to improve their productivity and livelihood - providing access to internet, computer trainings and online studies for young women and girls - Providing online rehabilitation, theraphy and counselling for mental health issus among young women and girls - Practical skills on hand and vocational skills training for the young mothers and youths with little or low education.

Website: http://www.fidrafrica.org/

Target Beneficiary Groups: YOUTH, OLDP, WOMN, DISB, UNEMP, POOR, RURL

Replicable Description: Empowering women and girls through free internet access project was replicaded in Mali, Kenya, Zimbabwe and Tanzania by TINADA Youth Orgnization, World Educate, UNICEF and World Vision International. It is currently being piloted in more than 7other African Countries as an adaptation for the virtual online stdies due to the closure and shutdown of schools due to the COVID 19.

Sustainable Description: Our major objectives include: i. Developing skills training for young people to provide self-reliance and job creation ii. Promoting education for the less underprivileged especially girls and people with special needs iii. promoting sexual reproductive health services of women and girls through advocacy and improving service deliveries iv.Promoting women and girls access to technology, skills training and using internet to access services and participation for rights, advocacy, good governance and accountability.

WSIS Values Promotion: Community-based peer learning, mentorship and rehabilitation by trained community service providers including VHT, Lay Health Workers and Ambassadors on creating platforms to give spaces for knowledge sharing, on and off site sexual reproductive health issues, political issues, social and economic agenda while engaging local government and other stakeholders on women and girls development programs.

WSIS Action Lines: 1, 2, 3, 4, 5, LEA, EMP

SDGs: SDG1, SDG3, SDG4, SDG5, SDG8

Stakeholder Type: Civil Society

Country, Region: Uganda, Africa



National Economic Register project

National Economic Register (NER) is an integrated platform between the federal and local entities and one of government accelerators initiatives launched during the UAE Government Annual Meetings held in September 2017. NER serves government policies aimed at enhancing the capabilities and enablers of the knowledge-based economy and the integration and sharing of government data at the national level. It enables government entities, businessmen, researchers, and customers to get instant, accurate and comprehensive information about existing economic licences, data, statistics, activities, and reports. NER platform aims achieve integration and the smooth exchange and synchronization of data between local and national registers and to provide a database on licensed economic sectors in the country including the size and capital invested and accurate statistics and reports to support decision-makers. NER simplify and facilitate access to data for new investors, researchers, government and private entities and consumers within the UAE and abroad and it enhance the economic competitiveness of the UAE and attract more investments.

Website: https://ner.economy.ae/

Target Beneficiary Groups: YOUTH, UNEMP

Replicable Description: This project can be applied in any other country if the required human and financial resources are available. All countries need to have a system that contains a database of all existing economic activities so that the government can develop economic policies and legislation based on the analysis of the data of this system. Another point we mentioned is that this system helps in developing shared platforms to provide services to multiple categories of customers in coordination between government institutions and private sector companies.

Sustainable Description: This project is a comprehensive economic data system, and it is a national project at the level of the UAE. It is considered one of the government's priorities in the economic sector. Therefore, there is a long-term plan to develop the system and add many functions to it during the coming years.

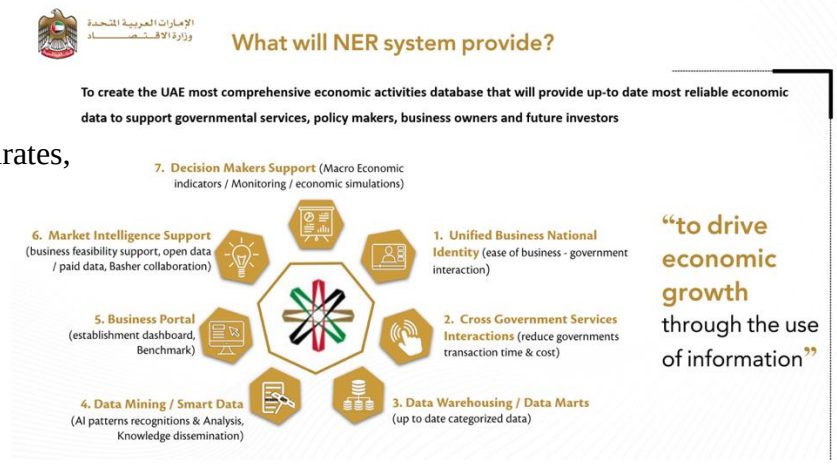
WSIS Values Promotion: In a number of ways, this project contributes to the values embraced by WSIS: It improves access to knowledge and data, which is crucial in an open information society. The national economic register currently provides precise and detailed information on economic activity across numerous industries. Additionally, it aids in analyzing the efficacy of the government's policies enacted to encourage economic growth. This benefits both the public and private sectors in decision-making processes related to the economic sector and commercial activities.

WSIS Action Lines: 1, 2, 3

SDGs: SDG8

Stakeholder Type: Government

Country, Region: United Arab Emirates, Asia and Pacific



MOHAP Website

The real challenge of MOHAP website is to create something entirely new that won't look like every other site. The website contains number of informational pages that have content, images, tables, etc. Additional, unlimited to number of pages can be created by the admin through the website CMS. The website has many innovative features that make it user friendly for the customers as below: -Design Compliance-Responsive action-Self-explanatory Icons & Graphics-Important Icons and Functions-Accessibility: The website is designed and developed so that people with disabilities can use it. More specifically, people can: perceive, understand, navigate, and interact with the services and functions exist, so the user can use alternative texts for non-textual content such as images, buttons, icons, multimedia etc. that clearly describe it and make it screen readable by text to speech tool. - Userway feature: it's a tool used on web pages that can be added and applied to sites. Once it is added, the access tool will appear on the site which will allow the user audience to make certain changes to the way the site is presented. These changes will give them the ability to interact with the site in a way that best suits their needs. thus, the user can choose the language through which the user wants to browse the site, as there are many languages from which to choose and Access profiles. Beside that the use of the link highlighting feature, as they are fully shaded, which will facilitate access to them by the user. - The application has an open data feature: which improves the level of general and specialized information, enabling users to use our published information considering legal affairs and policies. - Digital participation section: the Ministry seeks to launch a number of medical examination centers strategically located inside various shopping malls with the aim of facilitating the client's journey--reducing waiting times and providing all services.

Website: https://mohap.gov.ae/

Target Beneficiary Groups: YOUTH, WOMN, UNEMP, REFG

Replicable Description: All public and private sectors that present online health services to customers can all replicate this website. MOHAP website follows the international standards for support customers and make interactions between the customer and the sector more intelligent. However, this project needs only to type the URL on any supportive browsers. This website can be replicated across any public/private health sectors.

Sustainable Description: MOHAP website project, a set of integrated API's and services with health information system which connected all MOHAP facilities (17 hospitals , and 78 clinics) as this model of full integration had been developed and formed effectively , which can quickly reflect the medical history and all service provider documentation directly on application as the patient have full access 24/7 on medical record and history , and have the right to share with physicians, with this workflow , the reduce of printing the paper / medical reports , medical summery , medication and prescription and much more. • Through MOHAP website, the users can find any needed services in an easily and clear way , also ,the user will be able to search for a desired services using keyword. important links such as Blood Donation, Smart Applications & Medical Examination will be shown as well. • The user can make payment for any payable service online, The official invoices for the transaction are issued online in PDF format. • Availability of services on the site in a better way in terms of search and access. • The user can make payment for any payable service online , The official invoices for the transaction are issued online in PDF format • MOHAP website has Digital participation section : the Ministry seeks to launch a number of medical examination centers strategically located inside various shopping malls with the aim of facilitating the client's journey--reducing waiting times and providing all services in one place, with the best methods, electronic systems and intelligent technologies. It encourages its customers to share their thoughts, opinions and suggestions, and has implemented a range of tools to help its

customers do so. Customers can contact the Ministry through its various social media platforms on Facebook, • In adherence with sustainability, there is a Chatbot system that allows the customer to contact the ministry online at anytime with short response time.

WSIS Values Promotion: MOHAP Website is the website for the ministry of health in UAE which is federal health authority, provides comprehensive healthcare to all citizens and residents through its preventive and curative health services. It is responsible for developing the readiness of the health system to deal with pandemics and other health risks. It launches initiatives and projects to promote the health of the community through the provision of comprehensive and innovative health services. It builds state-of-the-art hospitals equipped with the latest equipment across the country and recruits highly experienced medical staff. It is keen to develop health information systems and provide regulatory and oversight services to the health sector. Action line C3 – Access to information and knowledge, as well as the goals of sustainable development. Our own deep conviction is that human capital is one of the most important components of the information society. Therefore, we are developing a modern feature, that allow the user to easy access to the information such as applying all innovative accessibility features (AAA and Userway) and easy search for any data , Ease of access to the website through all search engines, as it appears as the first option on the results page on the search engine. The user will find first choice services such as Birth Certificate Service and Medical Professional Evaluation. Beside that the user can add his favourite services by clicking on the favourite icon, which makes it easier for him to return to them again and easily. Other than that, the user can complete the payment process through the website in a short time. all coming AI features will explain the use of ICT that helps to increase customer experience in this area. Al C1: The role of governments and all stakeholders in the promotion of ICTs for development: this easily implemented in MOHAP Website through Open data section , MOHAP provides an open data platform to improve the level of general and specialized information.

WSIS Action Lines: 1, 2, 3, HEA

SDGs: SDG3, SDG5, SDG10, SDG11, SDG16, SDG17

Stakeholder Type: Government

Country, Region: United Arab Emirates, Asia and Pacific



Federal Automated Revenue Estimation System - V2

Ministry of Finance (MOF) implemented an integrated revenue forecasting automation system that linked revenue forecasting to annual 5-year budgeting process and enhancing the existing workforce budget control application with revamped integration with Bayanati HRMS system that improved budgetary discipline and MOF's control over manpower budget. Oracle EPM 11.1.2.4 Planning and Budgeting module used in process of building the revenue forecast application. Our solution for Revenue Forecasting fully integrated with revenue collection system, Oracle EBS and MOF Budget Automation System and it allows MOF to integrate Revenue Forecasting process and service level revenue details into planning and budgeting process. This ability enables MOF to perform various advanced forecasting techniques including MTFF forward estimates, revenue stress test. The improved visibility allows MOF to benchmark contributions of government services to federal budget and simulation of impact of service pricing decisions on the government budget. Revenue forecasting system implemented involve in implementation of integrations with MOF's existing systems.FARES is innovative project that links all federal government entities associated with the federal financial system FMIS in one platform, regarding the official process of preparing annual budget of federal government, it was built using the Oracle Hyperion system, and the system was integrated electronically with the Oracle EBS and collection revenue data "Data Lake" as well through a unified window for all federal entities.

Website: https://federalepm.mof.gov.ae/workspace/index.jsp

Sustainable Description: This process is sustainable project were supporting the environment with 0% using of paper through all process of sending data of forecasting revenues in the system, so the federal government entity can validate the information and follow-up through the system. In addition to environmental impact, the system contribute to economic sustainability by improving the accuracy of the forecasting , which will result in more economic impacts and results

WSIS Values Promotion: forecasting revenues include two values of WSIS which are: shared responsibility and respect for nature. The main objective when system has been built is to 0% using of paper to save the environment and shared the responsibility of sharing information with automate solution provide for all federal entities.

WSIS Action Lines: 1, 3

SDGs: SDG3

Stakeholder Type: Government

Country, Region: United Arab Emirates, Asia and Pacific

نظام فارس لتنبؤات إيرادات الحكومة الاتحادية

تم إطلاق نظام "فارس" المؤتمت لجميع الجهات الاتحادية في الدولة بهدف تحسين آلية تنبؤات الإيرادات بشكل أكثر كفاءة من خلال تكامل البيانات بين الأنظمة المختلفة واحتساب التقديرات بدقة، مما يسهل عملية اتخاذ القرارات ويوفر الوقت والجهد.

WSIS Action Line C4. Capacity building

IT GIRLS

IT Girls initiative, supported by the UN, UNDP, UNICEF and UN Women which aims to increase the number of girls and women in the STEM area. The most number of events were focused on children, in the form of workshops in elementary schools across Bosnia and Herzegovina and where a few of them were focused only on girls. IT Girls program impacts more than 1000 girls in the last year in Bosnia and Herzegovina as a pilot model before this program starts in the rest of the world. It is very important to underline that there is no any similar program in the local community before and the program involved a wider community under this umbrella creating different workshops.

Website: http://itgirls.ba/

Target Beneficiary Groups: YOUTH, WOMN, RURL

Replicable Description: UNDP Bosnia and Herzegovina has started a program called IT Girls. IT Girls is a pilot project of UNDP local office in Sarajevo, which is run by a group of young UN staff and volunteers trying to make a positive impact in the lives of girls and their involvement with IT. IT Girls is a project that wants to encourage girls to start thinking about education and eventually a potential career in the world of information technology, from an early age on. It started off as an initiative of young employees of United Nations in Bosnia and Herzegovina, where this idea and this topic was voted as best one in the "UNder30 Innovation Challenge". The rationale behind the IT Girls initiative lies in the cross-cutting commitment for the participation of women and girls in the labor market and their equal involvement in all career directions outlined in frameworks for protection and promotion of women's rights and national policies and legislation in Bosnia and Herzegovina (BiH). The IT Girls project breaks this gap by addressing the fact that women and girls remain invisible in the Information and Communication Technologies (ICT) sector. Although one of the highest paying occupation groups in BiH, with the possibility of rapid growth, the ICT sector is highly male dominated. Therefore, IT Girls has great potential for encouraging girls to take on ICT and start developing their skills from an early age.

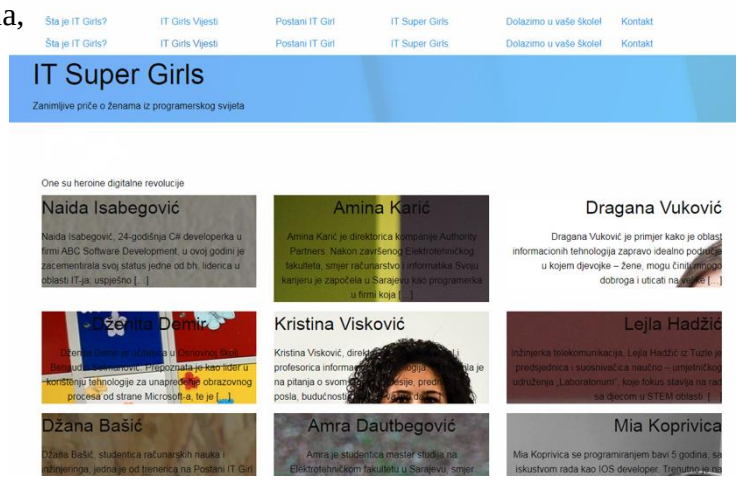
WSIS Values Promotion: By encouraging girls to start thinking about education and eventually a potential career in the world of information technology, from an early age on.

WSIS Action Lines: 3, 4, LEA, EMP

SDGs: SDG5, SDG8

Stakeholder Type: International Organization

Country, Region: Bosnia and Herzegovina, Eastern Europe



Burundi Innovation Hub (BiHUB)

Burundi Innovation Hub (BiHUB) is a first techpreneur hub initiative in Burundi whose aim is to bring together young talent in an environment conducive to innovation through capacity building, collaboration, the use of new technologies, the culture of entrepreneurship and the sense of service towards the society. Our target audience are youth, girls and Women. We currently run 4 programs and one of the them is ICT CULTURE designed to promote digital literacy and tech skills to youth, women and girls. This will help us fill the gap in the education system in Burundi and bridge the digital literacy gap. Burundian Education curriculum is not designed with coding literacy in mind, with students being trained as users rather than creators of digital technology.

Website: https://bihub.bi

Target Beneficiary Groups: YOUTH, WOMN

Replicable Description: Over 20 volunteers that we have trained have started teaching our programs to different clubs and schools. We have inspired quite a few people to start trainings in IT.

WSIS Values Promotion: By the use of new technologies, the culture of entrepreneurship and the sense of service towards the society.

WSIS Action Lines: 4, 8

SDGs: SDG4, SDG5

Stakeholder Type: Private Sector

Country, Region: Burundi, Africa

Big Cloud Operating System

Cloud computing is gradually becoming a digital business platform for economic and social operations, which is crucial to the sustainable economic development of our society.To promote the realization of the WSIS action policy and accelerate the digital transformation of the enabling industry, ECloud actively undertakes corporate social responsibility. Centring on the concept of computing power layout development, the mobile Cloud takes "autonomous and controllable, safe and reliable, green and low-carbon, ecological openness" as its development goals, adheres to the independent and controllable core technology of products, and independently develops Big Cloud operating system.By integrating key technologies such as chips, virtualization, distributed storage, software-defined network, native security and resource scheduling, the project contributes a lot in the cloud for 11 million teachers, 170 million students and 350,000 schools. More than 60 epidemic prevention systems have been built based on the Big Cloud operating system to protect the life, health and safety of more than 1 billion people in more than 20 provinces. China has supported the sharing of over 180 billion epidemic data. We helped 161,000 rural households expand marketing channels for agricultural products, and continued to consolidate poverty alleviation and the foundation of agriculture. The project has won the second Prize in the Science and Technology Award of the Chinese Institute of Electronics, the 2018 ODCC Award-Self-Developed Innovation Award, the first Green Computing Innovation Application Award in China, and the Outstanding Product Award of the COSCL. The systems and technologies developed in this project provide a safe and healthy cloud ecosystem, enabling the "new infrastructure" and facilitating the digital transformation of enterprises, contributing to people's needs for a better digital life.

Website: https://ecloud.10086.cn/home/

Target Beneficiary Groups: YOUTH, OLDP, WOMN

Replicable Description: This project focuses on technological breakthroughs in Cloud Computing, Storage, Network, Security, etc., builds an integrated ecology of strong and reliable software and hardware, strengthens the advantages of security and credibility, and continues to create the Computing Power Foundation which is not only industry-leaded, ultra-high performance, stable, but also easy-to-use, cost-intensive, safe and reliable. On another hand, this project would also continuous breakthroughs in the fields of the operating system, computing, storage, etc., with industry-leading core performance indicators, and has been widely used in public clouds, industry clouds, private clouds, hybrid clouds and edge clouds. The project has awarded 28 patent authorizations, and 17 soft works, and participated in the release of 10 national standards and 7 industry/group standards up to now. 1、Patents a)CN 106937315 B b)CN 108089814 B c)CN 108241545 B d)CN 108614701 B e)CN 109951506 B f)CN 110298677 B g)CN 111865885B h)CN 112583760 B i)CN 112039683 B j)CN 113271323 B k)CN 113271215 B l)CN 106933699 B m)CN 106933604 B n)CN 108268300 B o)CN 109699089 B p)CN 109697142 B q)CN 110247937 B r)CN 110324248 B s)CN 110278233 B t)CN 110290159 B u)CN 110445822 B v)CN 110737924 B w)CN 110868435 B x)CN 112019368 B y)CN 111917683 B z)CN 110392078 B aa)CN 112448839 B ab)CN 113271323 2、Software Copyright a)2021SR1573853 b)2021SR1573888 c)2021SR1499644 d)2021SR1573890 e)2021SR1573880 f)2021SR173812 g)2021SR1495746 h)2020SR0865824 i)2020SR0865830 j)2020SR1236039 k)2020SR1589355 l)2020SR1591309 m)2019SR0950115 n)2019SR0987466 o)2019SR1024125 p)2019SR1024662 2019SR1152448

Sustainable Description: In 2022, the "Digital from the East and Calculate from the West" project has been fully rolled out, and the data centre will enter the stage of large-scale construction. This project will follow the development trend and actively cooperate with the

upstream and downstream of the industrial chain to break the situation in an all-round way based on such a huge development opportunity, to achieve sustainable development in terms of overall computing power, intelligent scheduling, data security, and cloud-network-edge collaboration. In terms of Computing Power Coordination and Intelligent Scheduling, this project has the characteristics of ultra-large-scale, massive capacity, stability, reliability and flexibility. It has been widely applied in the Ecloud (public cloud), supporting millions of customers up to the cloud and the scenarios involve various scenarios such as government affairs, finance, medical care, and industry. In terms of Data Security, this project supports features such as one cloud with multiple pools, security and trustworthiness, and multi-cloud unified management and control. It is oriented to the internal system of China Mobile IT Cloud and supports the resource needs of various companies within the China Mobile Group. In terms of cloud Network Edge Collaboration, this project supports CDN, cloud gaming and other business scenarios, providing them with stable and reliable IaaS services. In the future, with the construction of Ecloud resource pools and edge clouds in various provinces, this project will serve more public cloud, private cloud, edge cloud and other customers, drive the economic development of provinces and cities, and continue to help "Digital from the East and Calculate from the West". Besides, it will provide various forms of cloud service capabilities, combined with heterogeneous acceleration hardware computing capabilities, based on the big cloud operating system

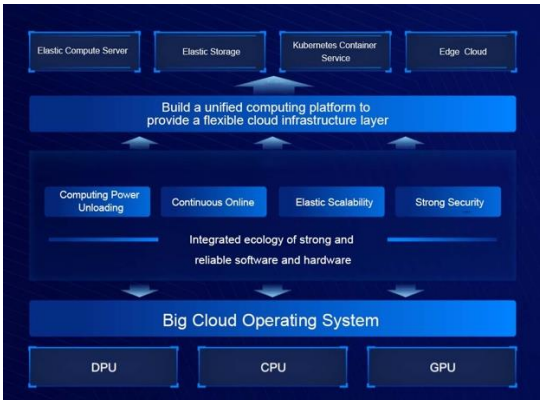
WSIS Values Promotion: Under the guidance of the new development concept of innovation, coordination, green, openness and sharing, the project has actively promoted digital industrialization and industrial digitalization since it was established, accelerated the digital transformation of empowering industries, and actively focused on medical and health care, poverty alleviation, agricultural assistance, environmental protection, industrial manufacturing and other fields. This project is created industry solutions and moves together with customers into the "depth of the cloud" to create, build and share an intelligent and beautiful world. Relying on the huge channels, networks, customers, technologies, platforms and other resources of China Mobile Group headquarters, provincial companies, industry research institutes and professional companies, the project is closely coordinated by all parties. Endogenous advantageous resources are focused on Ecloud, relying on Ecloud platform to promote new infrastructure construction, build a more inclusive, diverse and sustainable society, narrow cultural, social, technological and economic gaps, and realize that everyone learns from the cloud, uses the cloud and recommend the cloud. Moreover, this project is deeply integrated with the real economy, empowering customers from all industries to become an important engine of economic development. We have worked with customers to build several benchmark projects such as the Nucleic Acid Detection System of the Jiangsu Provincial Health Commission, the Digital Transformation of the Minquan County Government and the Gansu Poverty Alleviation Platform. In total, this project accelerates the integration of various industries into the tide of digital transformation and presses the "accelerator" for the high-quality development of the digital economy.

WSIS Action Lines: 4

SDGs: SDG3, SDG4, SDG7, SDG8, SDG9, SDG11

Stakeholder Type: Civil Society

Country, Region: China, Asia and Pacific



Cloud-based Application of digital products for rural areas in China

Based on policy interpretation and market analysis, China Mobile has built a product capability system based on the One Village platform, which is a self-developed industry capability platform developed by China Mobile, and has made positive progress in building digital villages in nearly 30,000 administrative villages across the country. It focuses on the following five objectives: (1)Rural digital governance: explore and promote the new model of digital rural governance, and expand the digital application scenario of rural governance. We will improve the rural party building system, improve the level of village affairs management, and constantly improve the rural digital governance system. (2)Building a green and smart village: constantly improve the rural environmental monitoring system and improve the monitoring capacity of water environment and water ecology in rural areas. Strengthen the information management of rural domestic waste collection, transportation and disposal, and improve the level of sewage and waste treatment in villages and towns. (3)Smart rural emergency management: relying on the monitoring system, strengthen the comprehensive monitoring and early warning of natural disasters, and monitor and early warning of rural geological disasters, fires and other disasters and production and living safety. (4)Expand digital services for the benefit of the people: continue to deepen information services for the benefit of the people, improve the level of information services for special rural groups, and strengthen information management for the elderly left behind in rural areas. (5)Build a new format of rural economy: explore a new model for the development of e-commerce of agricultural products. Deeply promote the project of "Internet plus" model to help agricultural products going out of villages and into cities. Based on the self owned Chongqing Yinong e-commerce platform of China Mobile, promote the export of agricultural products from the village, and increase the income of village names

Website: https://cmii.10086.cn/

Target Beneficiary Groups: YOUTH, OLDP, WOMN, INDG, DISB, UNEMP, POOR, MIGR, REFG, RURL

Replicable Description: According to the plan for the development of digital villages between 2022 and 2025, which is jointly issued by nine government departments, a large number of distinctive brands of rural e-commerce agricultural products will be cultivated; Internet culture will flourish in rural areas; and rural digital governance system will be continuously improved. Based on statistics, the number of rural internet users in China has reached 284 million. Because of the vigorous development of rural e-commerce, new platforms such as slivestreaming e-commerce platforms and short video platforms have been built in rural areas to facilitate the circulation of agricultural products, and farmers have broader channels for increasing their income In addition, more work opportunities can be created for locals. Furthermore, the application of information technologies make rural governance in China is marching toward digitalization and precision. By deploying digital village platforms, accurate distribution of services and information to can be realized, In addition, through the digital platforms, high-quality resources in such fields as education, health care and agricultural technology to villages can be spread, which has the potential to effectively improving the efficiency of grassroots governance. These all facts indicate that digital government, digital public-interest services, and digital village construction will significantly promote more inclusive and equal public services, and allow the public to derive greater and fairer benefits from the digital economy, and continuously enhance people’s sense of fulfillment, happiness, and security. The informatization of rural revitalization has a huge potential for development, and successful models have huge ability to be replicated across the whole country.

Sustainable Description: China Mobile Chengdu Institute of Research and Development will not only gather pace in the deployment of facilities concerning 5G, artificial intelligence (AI) and the Internet of Things in rural areas to achieve in-depth integration of digital technology and agriculture, but strive to improve the digital literacy of rural residents. An increasing number of digital Village, Village governance and Rural revitalizationl projects have boosted China‘s digital economy. At present, the OneVillage-based solutions have been promoted and applied in 26 provinces nationwide, covering nearly 30000 administrative villages and 2 million residents. With the development strategy of Rural Revitalization in China, One Village platform-based solutions, which will make great effects on all aspects of rural residents' production and life, can be applied to a variety of scenarios according to actual scene demand. One Village platform-based solutions can provide long-term guarantee for agricultural production and residents' life, and has good sustainability.

WSIS Values Promotion: This project has significantly accelerated the development of digital villages, further improved new infrastructure in rural areas, explored the potential of new business forms and models and promoted the construction of rural digital governance system. Besides, this project has also guaranteed the happy life of rural residents and promoted the harmonious development of society through technology integration. Therefore, this project is in line with WSIS Action Goal 3: Ensure healthy lives and promote well-being for all, and Goal 16: Promote a just, peaceful and inclusive society.

WSIS Action Lines: 4

SDGs: SDG1, SDG3

Stakeholder Type: Academia

Country, Region: China, Asia and Pacific



Chicas STEAM

Maloka has developed an informal science education program called Chicas STEAM aimed at promoting interest in pursuing scientific vocations among girls between 12 and 15 years of age. Participants gain confidence in their abilities through various educational activities to explore different fields of knowledge provided in safe, supportive environments. It is a 12-week virtual program focused on the development of attitudes through meetings with pairs of the same age from different parts of the country and mediators from the program, mentoring sessions with women scientists, the delivery of a kit that includes protoboards, sensors, and other coding devices and tablet with the contests of the program and experimentation apps. This program aims to influence the reality of the participant by promoting self-recognition of their skills, intelligence, and capacities to produce knowledge, as well as to enrich their engagement in science by linking their vital questions to propose initiatives to transform their surroundings. At the same time, it aims to generate learning environments carefully disposed to build confidence and to avoid gender bias, which have historically been a cause of exclusion to many women from science fields.

Website: https://maloka.org/noticias/chicas-steam-2022-mintic-inscripciones/

Target Beneficiary Groups: YOUTH, WOMN, INDG, POOR, MIGR, REFG, RURL

Replicable Description: All the elements that are part of the project can be put in place somewhere else due to the fact that it has a virtual implementation and the kit contains parts that can be purchased anywhere, the kit is understood as an unfinished kit, and that it is constantly being built by the girls. The project has the quality of being replicable, so it is easily implemented somewhere else.

Sustainable Description: Sustaining this educational social innovation, carried out in a science and technology museum, required building a network of stakeholders within the Colombian educational system. This network begins with the pairing of objectives between the museum and a national Ministry to scale the initiative as a program of coverage and public interest. Thus, it was possible to connect the program with various levels of the State structure, to guarantee the functioning and sustainability of its actions. At a regional level, school associations, universities, education secretariats and territorial allies were linked, who support monitoring and encourage participation. At a local level, educational institutions were targeted to commit to inviting and encouraging the participation of families and girls and young women. This interaction of actors allows the articulation of interests, resources and actions based on the educational experience of the participants, building a shared vision and a framework of governance and leadership, according to their role.

WSIS Values Promotion: The program is aimed to reduce gaps in participation of women in ICT, so the principal value promoted is equality and citizen participation, however the pedagogical approach has demonstrated to promote solidarity among participants especially from mentor women to the girls as well as freedom in terms of opening access to knowledge to girls that do not have possibilities to explore different opportunities to participate in knowledge society as well as to express their interests, worries and dreams and to have the educational accompaniment of professional mediators in various areas that stimulate and provide feedback on their initiatives. Finally the diversity of participants and the constant invitation to understand their context and to actively participate in taking actions to improve its conditions through their actions fosters shared responsibility, respect to nature, critical attitude and values diversity as a way to have a better understanding of the different realities of inequality in Colombian society.

WSIS Action Lines: 1, 3, 4, 5

SDGs: SDG4, SDG5

Stakeholder Type: Private Sector

Country, Region: Colombia, Latin America and the Caribbean



Egyptian African Training Telecom Regulatory Training Center

•The Egyptian African Telecommunication Training Center (EG-ATRC) is established by NTRA, with the purpose of providing capacity development in the field of ICT for the African and Arab region. •EG-ATRC aims to develop human competencies capable of dealing with the challenges in the ICT sector. •The Center is launched in July 2021, its broad-wide curriculum includes different training programs and drills on Cybersecurity, Spectrum Management, Smart Cities & Infrastructure, Type Approval, e-payment, Licensing and Market governance issues.

Website: https://www.tra.gov.eg/en/ntra-websites/atrc/about/about-atrc/

Target Beneficiary Groups: YOUTH, WOMN

Replicable Description: The project is replicable and can be executed in different fields and regions worldwide

Sustainable Description: The Project is sustainable and can be expanded to include more geographical coverage and introduce new topics for the training courses.

WSIS Values Promotion: NTRA believes in the essential and vital role of African human competencies working in the field of Communication and Information Technology, and the role that these human experiences play in developing and stimulating the promising African digital economy. In this project, we highlight the necessity of human competencies development with the aim to transfer soft skills experiences in terms of technology and expertise to African regulators through building bridges across the continent. Which comes in line with the WSIS values related to capacity building and that '' Each person should have the opportunity to acquire the necessary skills and knowledge in order to understand, participate actively in, and benefit fully from, the Information Society and the knowledge economy''

WSIS Action Lines: 3, 4

SDGs: SDG10, SDG17

Stakeholder Type: Government

Country, Region: Egypt, Africa



Online Exercise for Older Adults

Background: Digital solutions have great potential to improve functional capacity of older people with early physical impairments, living independently at home. In Finland, nearly half of people aged 75+ years belong to this group. Objectives: The aims were to 1) launch an online exercise model to promote functional capacity for ageing people, 2) train professionals and volunteers to organize online exercise and act as instructors or digital tutors, and 3) offer exercise videos and other digital materials to support organizing and practicing online exercise.Methods: The project included a 3,5-year development phase during 2017-2020, including pilots with 7 municipalities and 13 NGOs. Instructors were either professionals (n=5) or volunteers (n=12). In total, 42 volunteers were involved, supported by experts in sports, social and health care, and ICT.Results: 13 online exercise groups participated in 3-month interventions, including a weekly online exercise broadcast and encouragement for additional self-training with videos 1-3 times a week. Altogether 107 remote exercisers (age 60–91) participated. Results from objectively measured functioning (n=47) showed an overall increase in SPPB test (from 8,95 to 9,85 points) and in hand grip strength (from 23,6 to 25,1 N). The participants reported of positive effects on everyday life (such as home chores, moving), mood, social interaction, and digital skills. Municipalities and NGOs scored the project as effective for providing group exercise.Impact: In the development phase, online exercise proved to be effective, well-accepted, and implementable practice. It is currently at a national scaling-up and implementation phase in Finland.

Website: https://www.ikainstituutti.fi/liikunta-ja-ulkoilu/voimaa-etajumpasta/

Target Beneficiary Groups: OLDP

Replicable Description: After development phase was completed, the project moved to a national scaling-up and implementation phase. Municipalities and NGOs implement their own online exercise groups. Age Institute acts as a coordinator, and provides professionals and volunteers with training, tutoring and materials. Age Institute also conducts a follow-up research on implementation of online exercise. Since January 2020, launching online exercise has been supported by Age Institute across Finland in collaboration with national physical activity program for older adults (Older People on the Move) and two implementation projects. 168 professionals and volunteers have participated in training, and 25 online exercise groups have been launched. In each group, there are 5-50 participants. According to our experiences, the model of online exercise is easily replicated in municipalities and NGOs when adequate support is provided. Launching a new group takes 2-6 months. Key elements in replicability are the free choice of technology (video conference programs, hardware), free choice of participants (individuals, couples, friends, groups) and location (homes, club rooms etc.), and the concept is mostly carried out free of charge. Covid-19 pandemic has strengthened the justification for the scale up work of the project. The project offered means to promote physical activity services during social distancing.

Sustainable Description: This project is aligned with SDG goal 3.

WSIS Values Promotion: Municipalities and NGO's offer balance and strength training sessions online, either as one-way or two-way broadcasts. The model of online exercise is based on commonly used digital solutions (video conferencing programs, laptops, tablet computers, web-cameras, speakerphones). Each municipality or NGO chooses software and hardware according to their local needs. Cameras help to view the safety of the exercisers and to give feedback. Speakerphones are advised to be used by the instructors for improved audio. Training of professionals and volunteers is conducted online, with digital materials. The www.voitas.fi-site provides the instructors with a practical tool to build their training sessions

using a movement database. Further, Voitas.fi-site (and alternatively our YouTube channel) offers the exercisers self-training videos free of charge.

WSIS Action Lines: 4, 6, HEA, 10

SDGs: SDG3

Stakeholder Type: Civil Society

Country, Region: Finland, Western Europe and North America

Older people on the move



Kuva: Fotofuusio.

Arab Women in Computing

The Arab Women in Computing Association mission is to support, inspire, retain, encourage collaboration among, increase visibility of and help elevate the status of Arab women in computing from the various computing/technology sectors (academia, industry and entrepreneurship) and allow them to achieve their goals. Also, to create linkage with international women -in-CS organizations. Arab Women in Computing - Lebanon Chapter is launched on July 2015 in Lebanon and it is one of the tenth of chapters in Middle East belonging to Arab Women in Computing organization. Our target is to inspire and encourage women to go into the STEAM fields. Since launching the chapter in Lebanon we have done many events to encourage girls in Lebanon to pursue their education and their career in the STEAM fields.

Website: http://arabwic.org/

Target Beneficiary Groups: WOMN, REFG

Replicable Description: Yes and we are now putting the plan for the upcoming year.

WSIS Values Promotion: By helping to elevate status of Arab women in computing from the various computing/technology sectors.

WSIS Action Lines: 3, 4, 5

SDGs: SDG4, SDG5

Stakeholder Type: International Organization

Country, Region: Lebanon, Asia and Pacific



Digital skills @ your local library - Uganda

The national ICT survey (2022) found that almost 90% of Ugandans have not used the internet in the last three months. The reasons provided include: no access to ICT, costs of connectivity, lack of skills, no interest, and limited awareness about the benefits of the Internet.Digital Skills @ Your Local library - Uganda, mobilises public and community library ICT facilities and skilled staff to provide people, especially women and youth, with the skills they need to get online and access digital opportunities. We work with 27 libraries equipped with public access ICT. We train librarians to improve their ICT and training skills. In places where libraries are not available or sufficiently equipped, we bring 5-day mobile digital literacy camps using a vehicle equipped with solar power, laptops and mobile internet connectivity. The impact has been transformational. Libraries are training single mothers, street vendors, businesswomen, unemployed youth, teachers, health workers and others. Despite disruptions caused by Covid-19 lockdowns, libraries trained over 6,000 people in 2021/22. In addition, almost 900 people completed online courses, studying in learning circles (groups of fellow learners) in libraries. Many have used their new knowledge to generate income for themselves and their families.

Website: https://www.eifl.net/eifl-in-action/digital-skills-and-inclusion-through-libraries-uganda

Target Beneficiary Groups: YOUTH, WOMN, UNEMP, POOR, RURL

Replicable Description: The project is built on existing infrastructure of public libraries, equipped with computers and internet by the government or private donors. It can be replicated in other low income countries, which have a public and community library network, equipped with ICT, paid staff and/or volunteers, and administrative support from library authorities.

Sustainable Description: We are relying on an existing and sustainable network of local libraries, which is supported by the government at national and local levels, and that has public access ICT infrastructure and staff. All tools used in the project are open source and free.

WSIS Values Promotion: Digital technologies have offered local libraries new opportunities to increase access to knowledge, support democracy and multiculturalism, help people to learn life-changing skills for the future, and improve standards of living. Like WSIS, we believe that in today's world, equitable and sustainable development is only possible if individuals and communities have the tools and skills to participate in and benefit from digital technologies and the internet. Libraries in Uganda are harnessing the power of digital technologies, providing essential skills training in their communities, including for the most vulnerable groups, and helping to bridge the digital divide. By providing public access to the internet, information, staff support, and a wide range of educational and cultural programmes, Ugandan public and community libraries stand as unique partners in building a people-centric, inclusive and development-oriented information society. Librarians are agents of change, they know their communities well and are key to delivering the knowledge that communities need to improve their lives and contribute to development goals and targets.

WSIS Action Lines: 2, 3, 4, LEA

SDGs: SDG4, SDG5

Stakeholder Type: Civil Society

Country, Region: Lithuania, Eastern Europe



AT&T Mobile Classroom for digital literacy

AT&T mobile classrooms are spaces dedicated to digital literacy where people in vulnerable communities can take free digital skills courses and labour training. The courses are designed to last less than 3 months which is the period of time that the mobile classrooms remain in one community. Once this period concludes, the classrooms are moved to other community within the same state. The project started in 2016 and to date, more than 3,000 people in 7 states of Mexico have taken different courses on digital literacy provided in the classrooms. More than 70% of this people are women and elders. This is more relevant considering that in Mexico, people of more than 55 years registered the lowest Internet use, less than 50%, according to 2021 data.At AT&T Mobile Classrooms, families can also learn how to be a digital citizen through a digital citizenship program designed for children and parents. With this program, families can learn, through different games, concepts such as digital rights, privacy protection, how to identify fake news, the importance of digital footprint, how to prevent cyberbullying, among others.

Website: https://www.youtube.com/watch?v=ip1lGxfmtGs

Target Beneficiary Groups: YOUTH, OLDP, WOMN, POOR, RURL

Replicable Description: AT&T mobile classrooms have been replicated in 7 different states in Mexico through a model that combines a standardized catalogue of courses with the possibility of adapting it to the communities' needs. Digital resources are used by the facilitators and teachers as a support to their lessons. Once the mobile classroom arrives to a different community, people can apply to take the course according to their level. The courses offer in one specific location is configurated according to the level and the needs of the people and could be different from one community to another.

Sustainable Description:

WSIS Values Promotion: In AT&T we believe that technology may positively impact our response to global challenges, and it could be an enabler of rights such as freedom, equality, solidarity, and tolerance. This initiative promotes WSIS values in two different ways: 1. The rapid growth of Internet access and connectivity has paved the way for the development of a digital economy across the world. However, there are major inequalities due to lack of digital skills. Providing digital skills training to people through this initiative will have a spill over effect fostering other rights and values due to the potential of technology to enable rights and contribute to the social and economic development. 2. Beneficiaries of this initiative are getting the right tools to become change agents in the use of technology to make positive impact in their communities.

WSIS Action Lines: 3, 4, 5

SDGs: SDG4, SDG5, SDG9, SDG17

Stakeholder Type: Private Sector

Country, Region: Mexico, Latin America and the Caribbean



Mobile Connectivity for Teachers in Poor and Remote Areas Project

CONAFE is a part of the Mexican Ministry of Education (SEP), and for the last 51 years has delivered educational services in the poorest, most disadvantaged, and remote areas of the country where SEP cannot establish a public kindergarten, elementary, or high school. CONAFE serves around 600,000 children in more than 37,000 of the most remote and marginalized communities across Mexico. It provides its services with the help of about 62,000 “Community Education Leaders” (CELs), a group of volunteers composed of higher education students and young women from the communities. Our project equipped CELs with mobile broadband and a Google Workspace for Education account. Both are used in implementing the ABCD tutoring model (a revolutionary set of teaching and learning techniques where one student learns from another student), teacher training and development, educational productivity, collaboration, and communication, and for relevant support to the Community Education.Main results towards breaking the poverty trap: +51,000 teachers and +500,000 students benefited83% of benefited teachers are young women15% of benefited students are indigenous or nomadic+30% more mobile data coverage thanks to Shared Network10X more monthly data for each user+30 distance-training events for Community Education

Website: https://redpotencia.net/connectivity-for-teachers

Target Beneficiary Groups: YOUTH, WOMN, INDG, UNEMP, POOR, MIGR, REFG, RURL

Replicable Description: CONAFE’s ABCD tutoring model, operations, and the provided connectivity are replicable and has been replicated in the past. The ABCD tutoring model is a revolutionary set of teaching and learning techniques where one student can teach another interested student about a topic they both like. On a level plain field, with mutual trust, respect, and genuine interest, anybody and everybody becomes a tutor or is tutored by a fellow human being and learns about something. This model has been replicated across educational levels and systems throughout Mexico and in other countries like Peru and Thailand. CONAFE’s operations are somewhat similar to that of the NGO “Teach for America” and its international chapters. Traditionally, CONAFE searches for college students and young women in communities that would like to volunteer as Community Education Leaders (CELs) and work for education in the community for a period between 1 to 3 years. The similarity of both institutions operations suggests replicability. MC4TPRA involved equipping CELs with 40GB of monthly 4G-LTE broadband data and a Google Workspace for Education (GWfE) account that equips CELs with cloud productivity, collaboration, and communication software. The data plans cost about $ 15 USD a month per user. These mobile data services run on Mexico’s new Shared Network (SN) that exploits the 700MHz spectrum and interconnects with the other main Operators allowing CELs to be connected in +30% more communities than before. Although not all countries have a SN, most have an MVNO ecosystem. The GWfE accounts is available in most countries. Expending $15usd a month to support teachers in remote areas with connectivity to each teacher turns out to be a very profitable investment: e.g. teachers become a link to the Internet and end up helping citizens in the community access other government services like scholarships for continuing education. Thus, many components useds in this project are (or can be) available in other countries facilitating project replication.

Sustainable Description: The MC4TPRA project is sustainable for various reasons. First, CONAFE is a stable institution inside the Mexican Ministry of Education that has been providing educational services for more than half a century. It helps deliver educational services in the poorest, most disadvantaged, and remote areas of the country where SEP cannot establish a public kindergarten, elementary school, or high school. CONAFE’s

operation involves volunteers, citizens, and parents from the 37,000 poor and remote communities where it operates. Such involvement creates a cooperative environment with many parties having an interest in maintaining the continuation and stability of its educational services. Although some progress has been made in the past 50 years toward serving citizens with the most basic needs, in Mexico, the official measurement of poverty, indicates that there were 55.7 million persons living in poverty in 2020, or 43.9% of the total population. These persons not only have a low income, but they also suffer from none, poor, or limited access to basic services, food, housing, health, and education. All of these limitations generate poor social cohesion and a poverty trap where citizens are marginalized and ignored due also to their inability to exercise their rights and the impossibility to escape their difficult environment. For half a century CONAFE has worked in breaking this poverty trap by taking educational services to those places where the Ministry of Education (SEP) cannot normally provide them.CONAFE is constantly active in expanding, broadening, and enlarging the educational services it offers as it demonstrated recently by achieving Federal authorization to amplify its mandate and constitutive statutes. CONAFE can now offer mid and higher-education services and has opted to expand the retribution to its volunteers so that they can continue higher education remotely from their communities. This avoids emigration and contributes to breaking the poverty trap.

WSIS Values Promotion: According to the WSIS declaration of principles, the Information Society should respect peace and uphold the fundamental values of freedom, equality, solidarity, tolerance, shared responsibility, and respect for nature. The MC4TPRA project has equipped CELs with mobile broadband and a Google Workspace for Education account. Both are used in implementing the ABCD tutoring model, teacher training and development, and Educational productivity, collaboration, and communication, as well as with, relevant support to other Community Education topics (e.g. federal government scholarship online registrations). This project assists in creating equality, given that CONAFE delivers educational services in poor, remote, and marginalized communities with the aim of using education to break connectivity, exclusion and poverty traps. Similarly, the MC4TPRA project creates solidarity by recruiting young women and higher education students to become volunteers and deliver educational services applying the ABCD tutoring model in the communities. There, an association of parents, share the responsibility of caring and hosting for the educational services and the CELs. CONAFE's operations are always performed in an environment of care for the ecosystem and inclusion: migrant, indigenous, internally displaced, and disabled children are always welcomed and included. The ABCD tutoring model at the heart of CONAFE's operation also promotes these values. The ABCD tutoring model is strongly based on building and strengthening peer-to-peer relationships. In it one student can teach another interested student about a topic they both like. On a level plain field, with mutual trust, respect, and genuine interest, anybody and everybody becomes a tutor or is tutored by a fellow human being and learns about something.

WSIS Action Lines: 3, 4, LEA, 8, 10

SDGs: SDG1, SDG4, SDG5, SDG10, SDG17

Stakeholder Type: Government

Country, Region: Mexico, Latin America and the Caribbean

Mobile Connectivity for Teachers in Poor and Remote Areas Project (MC4TPRA)

CONAFE
Consejo Nacional de Fomento Educativo



Digital Upskilling Program for Filipinos

The COVID-19 pandemic pushed all people to heavily rely on information and communications technology for access to vital services on health, entertainment, commerce, and even education. Most activities have shifted from the traditional face-to-face transactions to ICT-enabled processes. People started to work from home, students and teachers adopted remote education, and businesses joined e-marketplaces. This drastic disruption thrusting the people to utilize ICT has also brought to light the gap in digital literacy skills of Filipinos. Philippine Digital Economy 2020 Report by World Bank emphasized that these skills are imperative for individuals to "gain aptitude to access online services and use digital content to explore opportunities for personal and professional development". The study revealed a wide gap in digital literacy caused by factors such as age, educational attainment, and household income. For this reason, we have conducted free ICT skills training for Filipinos.From 2020-2022, this Digital Upskilling Program has accomplished:- 116 courses conducted on Digital Governance, Digital Education, Digital Marketing, and CyberSecurity.- 225,607 participants gained basic to advance ICT skills.- 1,989 teachers earned Continuing Professional Development units required for license renewal.- 368 equipped to land online jobs through the Digital Jobs intensive course.- Learning Management System Portal and Mobile App launched with 21,100 registered users and 57,521 course certificates generated as of November 2022.

Website: https://www.facebook.com/DICT.RO9BASULTA/

Target Beneficiary Groups: YOUTH, OLDP, WOMN, DISB, UNEMP

Replicable Description: While we only cover Zamboanga Peninsula Basilan, Sulu, and Tawi-tawi regions, our program has trained over 225,000 participants located across the country in just a span of 2 years. With the country's 17 regions, other ICT agencies can replicate this digital literacy training program to equip more Filipinos with ability to utilize ICTs and explore a plethora of opportunities found in the digital realm. These agencies can follow through our model of hosting the training online, open the registration to all interested participants, and release e-Certificates as incentive for their participation. The training materials/video lectures are also made available as open access materials which can provide content or serve as template for other training programs.

Sustainable Description: The training sessions are being done online via Zoom Communications Inc and streamed simultaneously on our Facebook page (https://www.facebook.com/DICT.RO9BASULTA/). The training materials are available and accessible anytime on said Facebook Page for anyone to re-watch, watch later, or download. For high-demand courses such as CyberSecurity and Digital Education, the courses are later uploaded in DICT's locally developed learning management system (https://dictr9-lms.online/) with a feature that allows self-generation of certificates once session and evaluation are done. The LMS serves as an on-demand portal available for anyone to access anywhere, anytime. A mobile app version was also recently released to make the learning sessions more accessible to the public. This model encourages continuing education and lifelong learning which is critical to the growth and development of target beneficiaries such as educators. Since the course materials are produced as Open Educational Resources through the DICT's repository, continuous use can be assured.

WSIS Values Promotion: The free training program equipped the participants on topics such as but not limited to open distance education, education technology, cybersafety, digital parenting, online marketing strategies, graphics design, video editing, hardware servicing, productivity tools, and programming essentials. These skills have enabled them to participate and benefit in the Information Society and digital economy. 70% of the training participants

are also women, hence advancing the implementation of gender-inclusive programs that enable women to advance in the ICT industry. Persons with disability and senior citizens have also actively joined the online training courses in our pursuit of strengthening the vulnerable sector. As we witness new technologies sprout, traditional work is slowly becoming obsolete. Hence, this training has enhanced the current workforce with digital know-how to be able to ride the waves of digital transformation.

WSIS Action Lines: 3, 4

SDGs: SDG4, SDG5, SDG8, SDG17

Stakeholder Type: Government

Country, Region: Philippines, Asia and Pacific



Electronic education program for elderly people

The project aimed to ensure inclusive and equitable quality education and promote lifelong learning opportunities for all.This goal was achieved by organizing several courses in collaboration with Mada Technology Center to help train older people in the use of smartphones and their applications, the program aims to facilitate the use of technology products including smart devices for older persons and enhance their self-confidence, develop the services provided to them, strengthen the bonds of intergenerational communication, and improve the educational and rehabilitation status of older persons for continuing productive work, especially since technology has become a means of helping to communicate with the community in a modern way.These programs supported Ehsan center to overcome communication barriers within Corona pandemic

Website: http://www.ehsan.org.qa

Target Beneficiary Groups: OLDP

Replicable Description: Yes. The project could be replicable as follows: - Presenting this project as a role model to be adopted by governmental authorities. - Adding more categories from the target audiences. - Organizing joint fund-raising campaigns to achieve advocacy and community mobility to support the project. Signing MOU's and MOA's with different sectors inside Qatar. - Seeking to mutual partnerships regionally and internationally

WSIS Values Promotion: Ehsan was supported by Mada Ict to achieve the the project main goal Digital Equality for All Ages" to highlight the need to use technology to overcome the difficulties of human-oriented life as it ages. The use of ICT by older persons improves self-esteem, reduces isolation and depression, improves quality of life by providing opportunities for friendship development and access to websites that provide cognitive incentives, promotes a sense of interdependence, satisfaction, benefit and positive learning experiences. The project supported and promoted the UN Decade of Healthy Ageing Action Areas in different ways as follows: -T t emphasized how is ICT linked to SDG fourth goal and ? To what extent this link may accelerate SDGs' implementation? -The impact of ICT on accelerating SDGs - The challenges hampering the efficient utilization of ICT for SDGs' implementation - Changing how we think, feel and act towards age and ageing; - Developing communities in ways that foster the abilities of older people; - Delivering person centred integrated care and training services responsive to older people - Providing older people who need it with access to long-term E education

WSIS Action Lines: 4

SDGs: SDG4

Stakeholder Type: Civil Society

Country, Region: Qatar, Asia and Pacific



ABC of the Internet - A Program to Teach Older Users and People with Disabilities to Work on a Computer and on the Internet

The ABC of the Internet program helps to solve a number of social problems: improvement of the quality of life through acquiring computer skills and Internet experience; facilitating access of pensioners to government electronic services through the Internet; elimination of digital barriers and ensuring availability of digital solutions for all citizens of the Russian Federation, regardless of the age, place of residence, income, social status, etc. social involvement of older people, prolongation of active ageing; bridging the digital divide between generations; creation of a positive image of government bodies in the public's eye.During the implementation of the project, social welfare facilities, libraries, universities, public organizations of the Union of Pensioners and many other organizations joined the training program.The project has regional partners - Sberbank, The Russian Railways.The training takes place in 74 regions of the Russian Federation.More than 250 thousand people have already completed a training course of the ABC of the Internet program.The results of the project are clearly demonstrated by the All-Russian contest “Thank you, Internet!”, which presents the works of people who completed the training course, where they tell their personal stories of how their lives have improved through learning to work on a computer and on the Internet.

Website: https://www.company.rt.ru/en/

Target Beneficiary Groups: OLDP

Replicable Description: The project on teaching computer literacy to pensioners can not only be replicated, it has already been implemented in the Republic of Armenia. There are many people living in different republics of the former USSR of retirement or very close to retirement age whose relatives or friends due to circumstances live In Russia. To ensure the ability to maintain friendly and family ties, it is very important for these people to master Internet communication programs - messengers, videoconferencing, email, etc. In this regard, within the framework of the “ABC of the Internet” program, Rostelecom has initiated adaptation of the basic workbook for residents of the Republic of Armenia. In the process of adaptation, it became clear that part of the lessons of the program is universal, applicable to training pensioners from different countries (e.g. turning on the computer, using e-mail, access to the Internet, etc.). Some chapters of the manual need to be revised and adapted for every region (government services in Russia and government services in Armenia, websites of government authorities of different countries, etc.). Implementation of the project in the Republic of Armenia was also supported by Rossotrudnichestvo (Federal Agency for the Commonwealth of Independent States Affairs, Compatriots Living Abroad, and International Humanitarian Cooperation), which took an active part in arranging training courses in Yerevan and engagement of partner academic institutions where they hold classes for pensioners in Armenia. Thus, the ABC of the Internet program helps support fellow countrymen abroad and can be implemented in any country that has expressed a desire to join it.

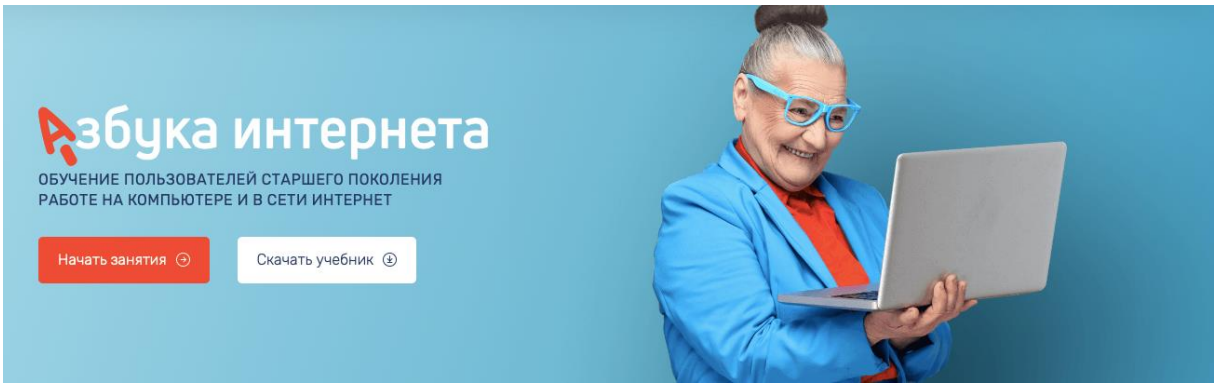
WSIS Values Promotion: ICTs play a critical role in this project. The project grants elderly people more opportunities to participate in the process of building the information society and development of national economies, making more chances to use e-participation in public life, e-government services, e-learning, etc. . The training allows pensioners to use the government services portal, communicate in social networks, make an appointment with doctors, find necessary information on the Internet, pay for goods, services and remain active members of the society using the Internet portals of local authorities, where you can ask to repair your street or get a grant to register your own company based on the results of participation in a relevant competition.

WSIS Action Lines: 1, 2, 4, EMP, ENV, 10, 11

SDGs: SDG1, SDG3, SDG4

Stakeholder Type: Private Sector

Country, Region: Russian Federation, Eastern Europe



Hackathon of Food Security and Environmental Sustainability

The objective of this project is to draw attention to significant parts of daily life while also offering solutions to urgent problems relating to the environment, food, water, and health. To meet the requirements of the present and future generations in a balanced, adaptable, and integrated manner, that does not threaten human lives, we must increase food security and environmental sustainability. Industry experts meet at our hackathon to discuss technology, environmental sustainability, and food security. Only 22 of the initial 100 teams, including 350 competitors, finished the race. Each team spends three days researching modern technologies and digital solutions in fields including food security and environmental sustainability. The technology industry expected to contribute $14 trillion to the global economy by 2020 (Accenture). We believe that the hackathon helps with food provision, gives inventive and creative developers the opportunity to offer solutions while also making a financial contribution, and advances the development of environmentally beneficial strategies, practices, and technologies that will allow us to meet SDGs (goal 3), and achieve (goal 15) on ocean life protection. Furthermore, some solutions may be able to help achieve (goal 11), which calls for more sustainably designed cities (goal 7), besides our needs over time.

Website: https://services.kfu.edu.sa/Hackathon

Target Beneficiary Groups: INDG, RURL

Replicable Description: The IT hackathons can be repeated annually or every six months, taking into account the applicable SDGs and the needs of humanity both now and in the future. Not only the academic community, but also countries that frequently host conferences on the UN SDGs, can use it.

Sustainable Description: We believe that the hackathon helps with food provision, gives inventive and creative developers the opportunity to offer solutions while also making a financial contribution, and advances the development of environmentally beneficial strategies, practices, and technologies that will allow us to meet top SDGs like (3,7,11,15) besides regularly humans needs over time.

WSIS Values Promotion: KFU is motivated to find solutions to issues such as food security and environmental sustainability in order to contribute to the UN's Sustainable Development Goals. The solutions proposed by participating teams may contribute to the provision of food, allow us to meet SDG Goals. How the KFU HAKATHOON met the SDGs goals (3, 7, 11, and 15)? We at KFU focus on attaining the mentioned UN's Sustainable Development Goals through our major business activities by improving instructional, learning, and scientific research methodologies, establishing community collaborations and growing our innovation and business development sector. We have tremendous faith in the institution's agility and skilled workers to manage impending changes and developments, allowing us to alter our plans as needed. The details below show how the goals of King Faisal University and the hackathon coincide with the SDGs of the UN. - GOAL #3: GOOD HEALTH AND WELL - BEING Through the Guidance and Counseling Unit, KFU provides many developmental, preventive, and health guidance services, academically, educationally, socially, psychologically, and professionally. -GOAL #7: AFFORDABLE AND CLEAN ENERGY The Research and Consultation Institute of KFU provides expertise and scientific consultancies to serve the community. KFU provides a study to the Ministry of Energy, Industry, and Mineral Resources on the storage of renewable energy in the Kingdom - GOAL #11: SUSTAINABLE CITIES AND COMMUNITIES Students and staff are encouraged to participate in those activities. The public can use the KFU sidewalk to exercise or bike, access to its buildings and important landmarks, including school students' visits, & benefit from the university library. - GOAL #15: LIFE ON LAND A program for treating organic waste. A

program for inorganic waste from our campus to the government waste plant. A management program for (solid/liquid/gaseous) hazardous waste directed by a service company in collaboration with the College of Science and Medicine.

WSIS Action Lines: 2, 3, 4, 5, 6, HEA, ENV, AGR, SCI, 8, 10

SDGs: SDG3, SDG7, SDG11, SDG15

Stakeholder Type: Government

Country, Region: Saudi Arabia, Asia and Pacific



Women, technology and the 2030 Agenda

In this project, actions have been carried out in the three spheres of action that the 2030 Agenda indicates for a higher education centre:* Training: it addresses the trinomial of Women, technology and the 2030 Agenda, analysing the need for digital technologies to safely face the economic, social, and environmental challenges that we face, from a gender perspective as a necessary and enriching element in the promotion of the 2030 Agenda.* Research: selecting an alphabet of women technologists who have made advances that deserve to be recognized in the field of technology, looking for references in the promotion of STEM vocations in girls and an interactive trivia game that allows the knowledge acquired to be tested.* Social leadership: through an awareness campaign about the 2030 Agenda with an exhibition called "17 goals to improve", which was completed with some works and dramatized performances about the SDGs carried out by secondary school students.All the activities are included in an open website built among all the participating experts that allows to enrich the knowledge on the subject matter.

Website: https://mujeresytecnologia.quned.es/portada

Target Beneficiary Groups: YOUTH, WOMN

Replicable Description: The project has been developed following an innovative impact system with the 2030 Agenda from the three areas of action that a higher education center has with its environment: teaching, through training activities and dissemination of knowledge with an impact on sustainable development; the promotion of research and institutional policy and social leadership, introducing the principles of the SDGs in project management and through maintaining a public commitment to the 2030 Agenda. This system allows building knowledge with the participation of different experts and sharing it in a continuous and open way. It has already been applied on several occasions by the UNED in Tudela. As an example, in addition to the project at hand, there is the one carried out in 2021. How can the Public Administration contribute to the SDGs? (https://ods-administracion.quned.es/) and it can be replicated in the future with other themes. This system can also be replicated by other education organizations following the scheme of generating knowledge in a participatory way by experts in the subject and making it available to society through open knowledge web portals.

Sustainable Description: This project is part of UNED Tudela's Social Responsibility and Agenda 2030 development line, whose main objective is to raise awareness and provide knowledge related to the challenges of sustainable development and the 2030 Agenda, as well as to favour participatory and transparent environments that facilitate dialogue and knowledge exchange between organizations and between these and society, all under the prism of an environment that is respectful of the dimensions of sustainable development. The project carried out in 2021 entitled “How to contribute to the SDGs from the Public Administration?” allowed the identification of the 2030 Agenda’s ecosystem, opening the possibility of new projects that allow to reach certain sectors and issues to continue advancing in the challenges posed by the SDGs within the spheres of action of the UNED Tudela Centre. In 2022, the trinomial of Women, technology and the 2030 Agenda has been addressed, and in the future other issues will be undertaken in line with the 2030 Agenda. The Women, Technology and Agenda 2030 website is also sustainable since it is created as an open and specialized knowledge portal and is distributed in different places, such as the UNED website.

WSIS Values Promotion: The challenge faced by the WSIS seeks to promote the use of technology to promote a series of achievements, among which is the promotion of gender equality and the empowerment of women within the framework of sustainable development. This is the foundation of a project that addresses the trinomial of Women, technology and the

2030 Agenda in a participatory manner. Technology at the service of the SDGs The promotion of digital technologies is essential to face with guarantees these economic, social, and environmental challenges included in the 2030 Agenda. According to the communication "Digital technologies for compliance with the United Nations SDGs" made by the International Union Telecommunications “ICTs are the means to deliver high quality goods and services in essential fields such as health care, education, finance, trade, governance and agriculture. They can contribute to reducing poverty and hunger, improving healthcare, creating new jobs, mitigating climate change, improving energy efficiency and making cities and communities more sustainable.” To make this statement a reality, the ITU has a "Connect 2030" strategy that focuses on how technological advances contribute to accelerating the achievement of the SDGs and also reinforces the facilitating role of this organization in the execution of the lines Action Plan of the World Summit on the Information Society (WSIS). Woman and technology Education and gender equality are part of the 2030 Agenda for Sustainable Development. There is a gender gap in the technology sector that is especially serious given that it is the industry that will create the most net employment in the coming years, which also generates a loss of wealth by ignoring a group that represents 50% of the population.

WSIS Action Lines: 4

SDGs: SDG4, SDG5, SDG9, SDG17

Stakeholder Type: Academia

Country, Region: Spain, Western Europe and North America



Early Career Fellowship

The Early Career Fellowship is a training program to nurture a new generation of global Internet Champions. Each year, 15 Fellows embark on a 5-month capacity-building journey that empowers them with knowledge, skills, and tools to be inclusive, innovative, holistic, and strategic leaders to advocate for an open, globally connected, secure, and trustworthy Internet for everyone, everywhere. The initial Internet pioneers over the past 30 years are now moving into retirement. There are not enough young people preparing to take on these leadership and governance roles. The Internet Society via its implementation partners like Dr. Laura DeNardis (American University), Oxford Internet Institute, Diplo Foundation, 89Up, and Pyramid Learning enables the Fellows to lead in volatile, uncertain, complex, and ambiguous circumstances. The 2022 cohort had 15 Fellows with the average age of 28 years hailing from 12 countries of which 53% (8) were women and 60% (9) were from the global south. We've been gauging early-stage impact with Fellows driving advocacy campaigns on the importance of ICT, writing academic papers and blogs on Internet issues, raising funds for Internet-related projects with a public benefit, and actively engaging in global Internet debates like organizing sessions on privacy-enabling technologies at the national-IGF.

Website: https://www.internetsociety.org/fellowships/early-career/

Target Beneficiary Groups: YOUTH, WOMN, RURL

Replicable Description: The Fellowship program was carefully developed after analysing the gaps in the existing Fellowships in the Internet space. Accordingly, a nuanced program with a balance of knowledge about core Internet architecture, key Internet issues, advocacy along with hands-on practical skills to enhance employability and engagement of youth in key conversations was developed. After two successful iterations of the Early Career Fellowship, the Internet Society also launched the Mid Career Fellowship which is a seven-month training for professionals with more than 10 years of experience. The model is similar with more focus on leadership skills and mentoring via Internet Pioneers. This further establishes the replicability of the Early Career Fellowship program. The details about program implementation partners and the dedicated modules are publicly available on the program webpage for others to seek inspiration from.

Sustainable Description: After the successful deployment of the Early Career Fellowship in 2021, and its second edition in 2022 we have now opened the applications for the third edition and the third cohort would be onboarded in January 2023. Over the three iterations, we have not only sustained the key elements of the Fellowship but also enhanced it by adding dedicated training on the Internet Way of Networking, leadership, and communications to empower the Fellows to advocate for an open, globally connected, secure, and trustworthy Internet for everyone, everywhere. We look forward to sustaining this program via a combination of internal budget allocations and outside funding through grants and sponsorships.

WSIS Values Promotion: The Internet Society advocates for an Internet that is available for everyone, everywhere! Our Fellowship program aims to foster equality of opportunity by taking multiple steps: 1. A majority of the Fellows selected were women (53%) 2. A majority of the Fellows selected were from the global south (60%) 3. Connectivity stipends were offered to all Fellows who faced challenges in accessing the Internet 4. Video and audio recording along with transcripts of live sessions were provided to the Fellows so those facing connectivity issues may access the sessions via their preferred mode (for some Fellows access to audio recordings were preferred owing to bandwidth concerns). The Fellowship also fostered solidarity by pairing Fellows from different geographic regions and stakeholder groups to work together on thematic issues and host discussions. The live sessions led by

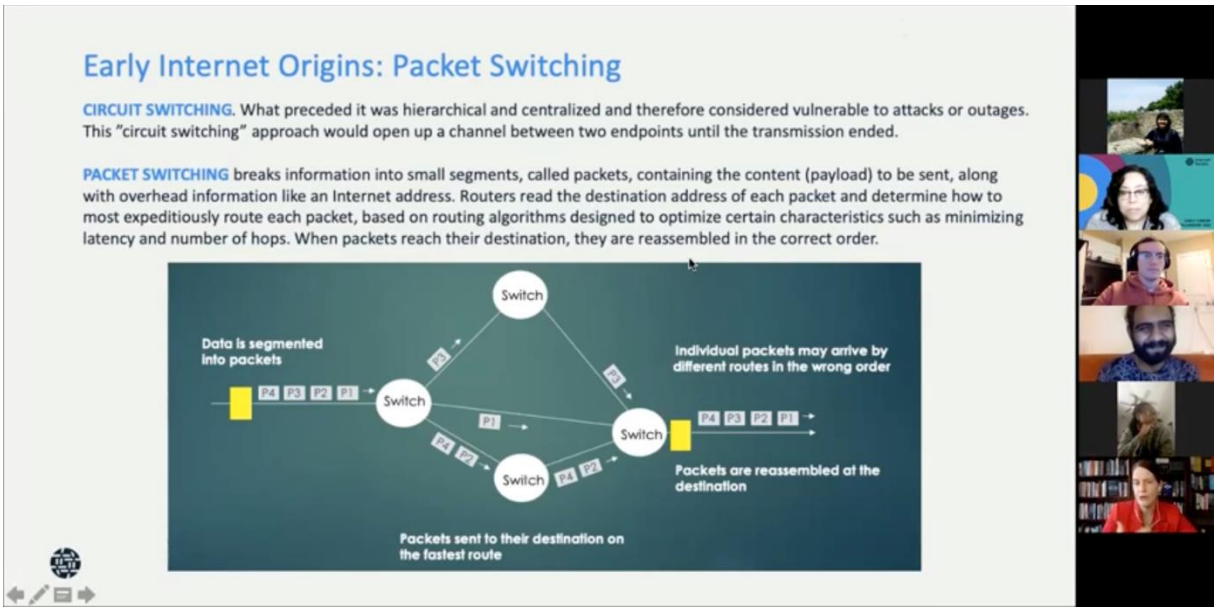
subject matter experts were open for Fellows to freely express their thoughts on the key ICT issues that they see the society grappling with and to seek the inputs of others. The Fellowship also provided informal sessions where the Fellows would connect with each other, work together in groups to find solutions and in the process stimulate respect for cultural and linguistic diversity, traditions and religions, and foster dialogue among cultures and civilizations.

WSIS Action Lines: 1, 3, 4

SDGs: SDG4, SDG5, SDG8, SDG9, SDG10

Stakeholder Type: Civil Society

Country, Region: United States of America, Western Europe and North America



SMART Sistas Girls ICT Camp, Girls Mobile App Training Program & Girls Robotic Team

The Situation for ICT in Vanuatu is there is a lack of information communication technology training to empower girls ages 11-15 to become leaders in the ICT field. The SMART Sistas (Sisters Mastering Advanced Real Technology) ICT Camp for girls strives to empower girls ages 11-15 to pursue educational opportunities in information communication technology areas to help Vanuatu reach gender equality in the ICT field. The selection criteria of 10 Girls are based on; - --- familiarity with the English language - ability to follow instructions - very knowledgeable with windows keyboard, mouse and familiarity with a laptop - experience using the internet browser - familiarity with windows graphical user interface. By the end of the five day camp, each girl and their parent/guardian completes; - 24 hours of ICT technical training - 12 hours of leadership and gender empowerment training - 4 hours of career exploration in telecommunications, television, radio broadcasting, computer hardware, software and services and electronic media.

Website: https://www.facebook.com/pg/smartsistas/about/?ref=page_internal

Target Beneficiary Groups: YOUTH, POOR, RURL

Replicable Description: Yes, initiated in 2014 but could not be funded and lack of resources. Scaled down to a simple, manageable, efficient and effective Training and successfully implemented in 2016.

WSIS Values Promotion: By increasing the number of women in the ICT field and empowering girls to pursue educational opportunities in the Information Communications Technology field.

WSIS Action Lines: 3, 4, LEA, 10

SDGs: SDG1, SDG4, SDG5

Stakeholder Type: Private Sector

Country, Region: Vanuatu, Asia and Pacific



Bridging the gender digital divide

A project that sought to empower female students at the University of Zimbabwe by bridging the gender digital divide. The target audience was 2 916 female students resident in three University female hostels. The objectives were to a) to create an enabling ICT environment b) to train the basic computing skills (International Computer Driving Licence), c) to enhance ICT literacy skills. Activities involved setting up of computer labs in three female hostels.Engaged Computer Society to train in ICDL, selected (100)less privileged female students.

Website: http://www.uz.ac.zw

Target Beneficiary Groups: YOUTH, WOMN

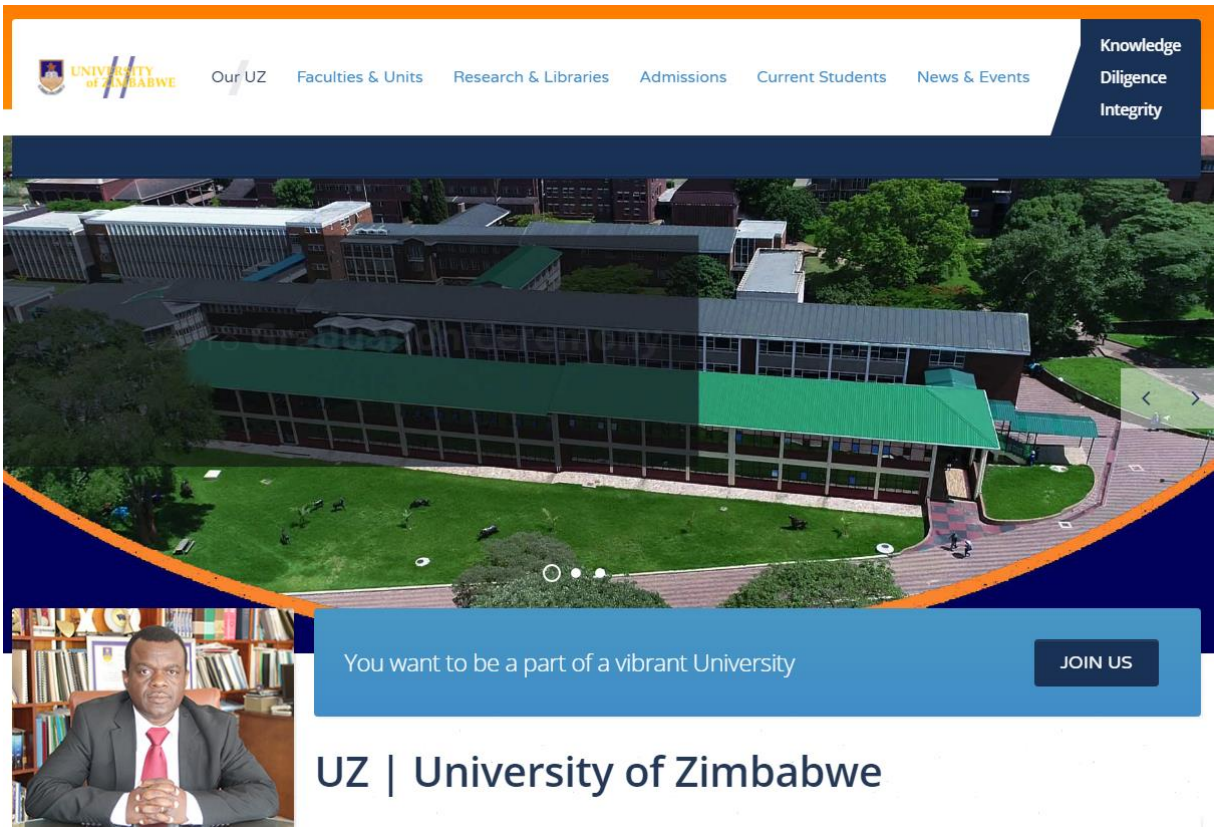
WSIS Values Promotion: A project that sought to empower female students at the University of Zimbabwe by bridging the gender digital divide.

WSIS Action Lines: 2, 4, 6

SDGs: SDG4, SDG5

Stakeholder Type: Academia

Country, Region: Zimbabwe, Africa



WSIS Action Line C5. Building confidence and security in the use of ICTs

Reducing the school dropout using Blockchain

Billetera Activa San Luis represents a significant step toward advancing the Argentine province of San Luis as an information and knowledge-based society. It builds on a social and educational program first launched in 2010, offering high school students a financial incentive to graduate. By giving students paper stamps that they redeemed for a one-time financial stipend, the program has helped improve graduation rates by 20 percent – positioning San Luis above the national average. With the launch of Billetera Activa San Luis, provincial leaders are leveraging blockchain technology to modernize the graduation-incentive program, making financial data secure and accessible for students, preventing devaluation, and encouraging financial literacy and savings. Billetera Activa San Luis replaces paper stamps with secure digital assets that are backed by the U.S. dollar, enabling savings to maintain value over time by mitigating the effects of inflation. The one-of-a-kind private blockchain platform enables users to access data and complete transactions in a secure, stable and scalable environment. Within the next year, the platform will be extended to province residents and merchants to establish it as a stable asset. This pioneering model is creating a new paradigm for governments and citizens to support financial opportunity, education and inclusion.Description of educational incentives:San Luis Wallet: 1 ASL = 1 US Dollar * The government of San Luis gives digital assets value in ASL of 50, 100, 300 and 400. * They are assigned to the student who satisfactorily completes the school year, up to the total amount of 1,200 as follows: * From 1st to 6th grade (primary level): each student receives in ASL of 50 for each grade passed. * From 7th to 11th (secondary level): each student receives in ASL 100 for each year approved. * In the 12th (secondary level), each student receives in ASL of 400.The students who complete the secondary education have ASL 1200 in their "San Luis Activa Wallet".

Website: https://billetera.sanluis.gov.ar/

Target Beneficiary Groups: YOUTH, WOMN, RURL

Replicable Description: In San Luis, we work to ensure that every project is framed within public policies that make it accessible to the entire population. This model is replicable to other contexts if the following conditions are present: Informational and Knowledge-based Society: During the last 30 years, San Luis evolved from a “restricted” society in terms of technology and services, to an “advanced” information- and knowledge-based society. It is important for the future of the society that it continues to mature in the creation, distribution, use, integration and manipulation of information. Technical Infrastructure: The province government has been connecting its citizens to the internet since 1998 to eliminate inequalities and foster innovation and economic growth. Currently, 95% of the entire population uses the internet on a daily basis. The province offers free Internet access in full geographical coverage. The new “San Luis a 1000” program is delivering 1000 Mbps FTTH internet services to homes, schools, commerce, companies, and public areas to further expand internet access. Skills: Characteristics like ubiquity, affordability, reliability and speed are necessary conditions to maximize digitization, but the most important factors are ease of use and aptitude. Those who have the knowledge and talent of utilizing information for the service of others are essential to modernizing the province’s digital agenda. Education: Quality education is the core pillar for a modern informational and knowledge- based society. Innovative policies that encourage students to finish high school, include young citizens and are inclusive of gender are essential to advancing the province. The San Luis Province has

invested greatly in education above the Argentinean average. Legal Context: The Stamp Savings Law was approved in 2010 to foster financial and educational inclusion within the younger generations. The new “Digital Assets Law” was approved in 2022, which regulates digital assets while promoting innovation and inclusion.

Sustainable Description: From the outset, the Billetera San Luis project was selected and designed to align with SDGs (Sustainable Development Goals): it is innovative, aims to improve education, emphasizes gender equality while being mindful of other inequities and promotes economic growth. This project is not only sustainable in itself, but it is a powerful tool to support the sustainability of a program that has been proven to positively impact graduation rates. It represents the complete digital transformation of physical stamps to digital assets that the students can save and exchange, improving existing processes by introducing security, scalability and access and removing inherent challenges from inflation. Billetera San Luis was conceptualized as a savings platform from its origin; it will not become a trading asset under any circumstance. But leaders do see its potential to enable the creation of stable assets for the benefits of residents and merchants province-wide. The sustainability of a system is fundamentally given by factors external to it, mainly by the political decision focused on the need to have young citizens able to live and work in an advanced knowledge society. The whole project is the 100% digital transformation of physical stamps in paper to digital assets that can be exchanged by the students. Is a technological evolution over a decision made in 2010, that aims to improve and digitally transform an existing process.

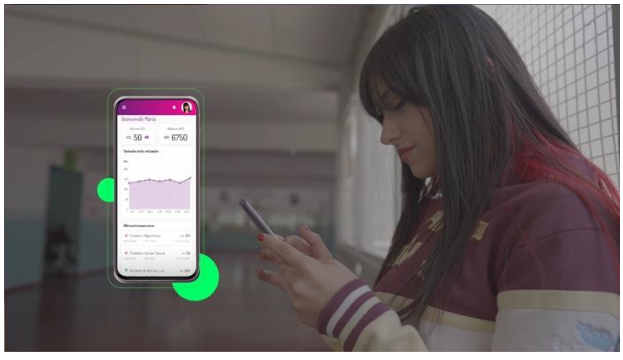
WSIS Values Promotion: This project promotes many of the WSIS values enabling individuals and communities by: * Improving the quality of life through education, reducing inequity and enabling the promotion of gender equality and empowerment of women. * Use of ICTs to reduce traditional obstacles, especially regarding time and distance. * Moving a process based in paper (stamps) to a virtual process empowers the poor, particularly those living in remote, rural and marginalized urban areas. * Generating new partnerships between government and the private sector. * Uses information technology, communication and infrastructure, which are core elements of an inclusive informational society * Satisfying people’s needs and demands with innovative and inclusive proposals for modernization. * Fostering digital inclusion and promotion of the usage of mobile apps to perform common and daily economical activities. * Attaining the providence’s goal of digital integration based on their investments in free connectivity, delivery of e-devices to children, teenagers, adults and the elderly without distinction of race, sex or socioeconomic level. This allows access to education for people living in all villages and towns, even the most distant and deprived ones, and connectivity is ensured for every single person.

WSIS Action Lines: 5

SDGs: SDG4, SDG5, SDG8, SDG9, SDG10

Stakeholder Type: Government

Country, Region: Argentina, Latin America and the Caribbean



National Postal Electronic System

The National Postal Electronic System is a secure automated information system of the National Postal Operator of the Republic of Belarus that provides receipt, processing, storage and delivery (handing over) of postal items in electronic form (ordinary or registered), advice of postal items, advice of postal item receipt, messaging concerning the receipt, processing, storage and delivery (handing over) of postal items, and it also provides confirmations of their receipt and delivery (handing over).At present, the NPES performs the following functions: • receipt and delivery of ordinary and registered letters in electronic form; • receipt and delivery of ordinary and registered hybrid items (from electronic form to paper one); • integration with user's payment service system by bank cards; • organization of interaction with AIDS (Automated Information Data System) of the Republican Certification Center (State System of Public Key Management and Electronic Digital Signature) when using electronic digital signature tools (hereinafter referred to as EDS).To send postal items in electronic form, a user of postal services creates an electronic mailbox in NPES which is a digital equivalent of a post office box. When sending a postal item in electronic form, it shall be addressed to the receiver's postal address (NPES user) that does not require the sender to know additional requisites and identifiers of the receiver. If the postal item receiver is not registered in NPES, the National Postal Operator shall automatically print and convert the attachment, and deliver the postal item to the addressee according to the postal address.The users register in NPES by means of mobile EDS on Sim card, EDS on USB mass storage devices, as well as by means of login and password that can be issued to natural persons in any post office of the Republic of Belarus upon presenting of an identity document. Letters are sent via secure data channels by using data cryptographic protection tools.

Website: https://www.belpost.by/services/MailNpas

Sustainable Description: This project is in line with sustainable development goals 9 "Industry, innovation and infrastructure", 11 "Sustainable cities and communities", 17 "Partnership for the goals".

WSIS Values Promotion: With the development in the Republic of Belarus on the wave of digital transformation of various identification tools, digital directories, registries, as well as taking into account the growing need of the user for a fully digital and remote service, the process of digital transformation of the enterprise is endless and cyclical. And in our case, it is limited only by the fact that parcels are a physical object, and its delivery generally requires interaction with the client when delivering mail. As a result of the implementation of the NPES and due to the gradual transition of simple and registered written correspondence from paper to electronic/hybrid, the expected volume/share of electronic correspondence in 2025 will be at least 40 percent of the total volume of written correspondence (excluding direct mail advertising, small packages, parcels, etc.). The NPES will provide state guarantees of the availability and quality of universal postal services by ensuring the operation of the postal network in a convenient (modern) mode for service users in compliance with the proper quality and secrecy of postal communications guaranteed by the state.

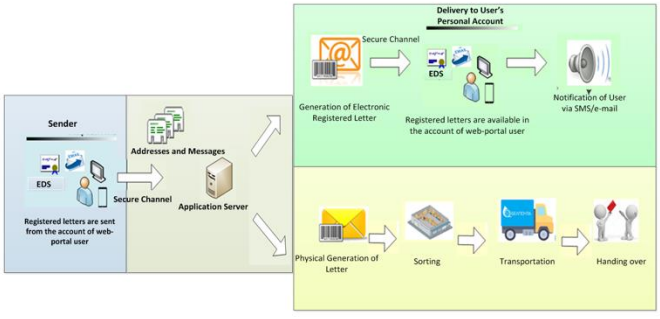
WSIS Action Lines: 5

SDGs: SDG9, SDG11, SDG17

Stakeholder Type: Government

Country, Region: Belarus, Eastern Europe

The process of letter forwarding in NPES is presented in the following scheme:



Distributed Near-Source Network Security Protection Platform (DNSNSPP)

As of January 2022, there were more than 4.95 billion active internet users worldwide. Our daily life communication, business, production, and enjoyment depend chiefly on the internet, regardless of our gender, race, age, or occupation. However, China suffers from thousands of severe distributed denial of service attacks on a daily basis just in the first half of 2020. To prevent the discontinuity of the functioning of society, China Telecom innovatively designed and deployed the Distributed Near Source Network Security Protection Platform, which is able to provide real-time accurate measurement, tracing, and defending of the massive-level network attacks. The DNSNSPP is easily accessible as SaaS service or standard API. It makes contribution to develop the network security capability of key national infrastructures, and effectively improves the overall level of national internet security protection. The DNSNSPP provided security defense to DDoS attacks over 65,000 times at a monthly basis and the annual average defending attack traffic is up to 150,000 TB. Over 10,000 schools, energy corporations, hospitals, government organizations, economic companies, and many other various organizations are protected by DNSNSPP from internet security attacks to promote the sustainability of infrastructure, industry, and daily life activities.

Website: http://www.damddos.com/protect

Target Beneficiary Groups: YOUTH, OLDP, WOMN, INDG, DISB, UNEMP, POOR, MIGR, REFG, RURL

Replicable Description: DNSNSPP can be replicable in any country worldwide at the national level since any network provider by its nature has the capability to build the near-source type of security protection. Once such protection platform be established, the people and organizations who can benefit are very wide. DNSNSPP provides protection for many different organizations in various industries, including almost 300 schools, 150 hospitals, 550 manufacturing and energy organizations, 1,000 social and government organizations, more than 600 financial organizations, more than 1,300 profit or non-profit service companies, and many other organizations in construction, agriculture, law, and so on.

Sustainable Description: As the network coverage continues to increase, the number of large-scale DDoS attacks is at rapid growth. Therefore, the DNSNSPP will play an increasing role in the future. The DNSNSPP continues to expand its strategies and capabilities based on the constantly changing and updated network attacks. The availability of the DNSNSPP is 100% during the last three years. As of the first half of 2022, the DNSNSPP was able to provide security response to DDoS attacks over 65,000 times for a variety of infrastructures and organizations at a monthly basis. 1)The maintainability of the DNSNSPP is at high level. 2)Modules can be added, modified, or eliminated at very low cost or risk. 3)There are technology processionals available 724 to provide technical support. 4)The DNSNSPP is sustainable supported by China Telecom as a telecom carrier. The DNSNSPP has been taken as one of the important foundations of the national cyber security protection strategy.

WSIS Values Promotion: The DNSNSPP strongly helps to develop the network security capability of key national infrastructures, and effectively improves the overall level of national internet security protection. The distributed near-source security protection platform based on the backbone network is an innovative approach, and it has been proven to be highly effective. It overcame the difficulties in network traffic measurement of DDoS attacks on ultra-large-scale network, firstly made the breakthrough in monitoring, tracing, and defending the Tbps-level attacks in China. The protection is sufficient to monitor and protect a large number of attacks that may occur in infrastructure and industrial networks, which improves the stability of the infrastructure, guarantees the continuity of industrial production, and

further promotes innovation. The protection provided by DNSNSPP ensures that people's online communication, learning, work, business activities, and automated production will not be suspended due to DDoS attacks. It is now used to protect over 10,000 schools, energy corporations, hospitals, government organizations, economic companies, and many other various organizations from internet security attacks. It also has defended a number of important national and international conferences from the risk of network service interruption, like the Belt and Road Summit, World Internet Conference, and China International Import and Export Trade Fait. The DNSNSPP helps to ensure the sustainability of everyone's daily life, contributes to make it safer in the Internet age.

WSIS Action Lines: 5

SDGs: SDG9, SDG11

Stakeholder Type: Private Sector

Country, Region: China, Asia and Pacific



HACKER GIRLS

Hacker Girls is an initiative that aims to support and generate spaces for education and job opportunities for women based on strengthening their knowledge in areas associated with cybersecurity. The ICT Ministry has sought various ways to reduce the structural barriers that hinder women's participation in cybersecurity, strengthen diversity in work teams, and expand the opportunity for employment in the field. There have been 13 spaces for advanced training and preparation of women with technical capabilities to address existing threats and, in turn, have the skills to comply with the guidelines established in international and national frameworks such as the Information Security and Privacy Model. These activities have been achieved through strategic articulations and agreements with different actors such as academia, public and private organizations, and non-profit entities. With this initiative, the ICT Ministry is making progress in creating a qualified group of top-level women experts in digital security in Colombia, positioning the country as a regional leader in initiatives of this type. To date, it has impacted 1,600 women with knowledge of information security.

Website:
https://gobiernodigital.mintic.gov.co/seguridadyprivacidad/portal/Iniciativas/Hacker-Girls/

Target Beneficiary Groups: WOMN

Replicable Description: The Hacker Girls initiative may be replicable at the level of cells or work nodes. The incorporation of replicability with the academy has been considered, where actors of the departmental academy are an essential gear for identification and congregation of the population potentially benefiting from the initiative. Since last year we have been working with the Network of Systems Engineering and Related Programs (Red de Programas de Ingeniería de Sistemas y Afines -REDIS- which works through nodes. The main idea of working with them is to link through them the academic sector population that could be a potential beneficiary of the initiative.

Sustainable Description: Under the strategic articulations and agreements with the private sector and academia, an ecosystem of actors has been established in which everyone has a clear role within the initiative. The private sector and academia act as facilitators of spaces and professionals and training for the beneficiaries of the initiative. This clear definition has made the Hacker Girls initiative sustainable over time.

WSIS Values Promotion: Ethical dimensions of the Information Society

WSIS Action Lines: 5

SDGs: SDG5

Stakeholder Type: Government

Country, Region: Colombia, Latin America and the Caribbean



ID360

The diversity of remote identification methods, the different levels of guarantee, the different regulatory issues and the different identification needs for the same entity make this identification phase difficult to understand for a company; multiple integration, partners and support services. However, the identification issue is essential and should not be a hindrance to the end user in the business process.ID360 is a global remote identity verification service that provides a set of means, processes, and solutions with different levels of assurance. The acquisition and control of additional documents can be optionally added to the identity verification. The ID360 service is designed for all types of business departments that need to remotely verify the identity of their users. Accessible to both large enterprises and small businesses, it significantly reduces the need to perform this identification phase in all processes. ID360 is a fully-fledged trust service, with an assumed responsibility, information systems security, operational security, personal data security, ethical and inclusive approach. Compliance with the ETSI EN 319 401 standard is the culmination of the maximum security of this innovative service.

Website: https://id360docaposte.com

Target Beneficiary Groups: YOUTH, OLDP, WOMN, INDG, DISB, UNEMP, POOR, MIGR, REFG, RURL

Replicable Description: The fact that it offers all types of identification methods, all levels of coverage, and customizable paths make ID360 suitable for all identification needs: regulated services, non-regulated services, and customers with entities around the world. Its disruptive billing method makes it accessible to very small businesses, self-employed entrepreneurs, and large groups alike. The fact that it can collect and control documents other than identity documents, regardless of the identification method chosen, makes it suitable for all types of transactions (HR, health, banking, insurance, etc.). ID360 is the universal solution to meet all identification challenges.

Sustainable Description: The fact that it is designed by Docapost, a La Poste Groupe branch, whose CSR performance has been rated platinum by ECOVADIS (76/100), we can say that this project is sustainable. Moreover, we developped a plateform called LEIA that was designed to use different services only when needed. An finally, we at ID360, have taken steps to further optimize its carbon footprint (web audit, development optimization).

WSIS Values Promotion: Thanks to its open approach, ID360 opens up identification to the whole of civil society, taking into account disabilities, digital inclusion, and giving the choice of means used to the citizens. The ability to integrate regional resources allows us to cover an international territory, adapted to the digital world.

WSIS Action Lines: 1, 5, GOV, BUS, 11

SDGs: SDG9, SDG10, SDG11, SDG17

Stakeholder Type: Private Sector

Country, Region: France,
Western Europe and North America



i-PROGNOSIS

Transition from healthy status to Parkinson's Disease (PD) is vaguely tractable, since symptoms can be so subtle in the early stages that they go unnoticed. Lack of biomarkers and/or findings on routine MRI and CT scans, PD is left undiagnosed for years, gradually affecting the life of over 6.5 million of older adults (>55-60 yrs) worldwide, increasing the risk of their health deterioration. Epidemiological studies conclude that early intervention could have an inverse relation with the PD-related risks of progressive frailty, falls and emotional shift towards depression. Based on this evidence, the cardinal objective of i-PROGNOSIS is the development of (i) an ICT-based behavioral analysis approach for capturing, as early as possible, the PD symptoms appearance, and (ii) the application of ICT-based interventions countering identified risks. Via awareness initiatives, the i-PROGNOSIS community was formed, reaching >4000 older individuals, for unobtrusively sensing large scale behavioral data from its members, acquired from their natural use of mobile devices (smartphone/smartwatch). Ensuring anonymization and secure Cloud archiving, i-PROGNOSIS developed advanced big data analytics and machine learning techniques, in a distributed and privacy aware fashion, instantiating a PD Behavioral Model and constructing reliable early PD symptoms detection alarms. To those identified and clinically validated as early-stage PD patients, ICT-based interventions were provided via the i-PROGNOSIS Intervention Platform, including: a) Personalized Game Suite for physical/emotional support, b) targeted nocturnal intervention to increase relaxation/sleep quality, and c) assistive interventions for voice enhancement and gait rhythm guidance. Clearly, i-PROGNOSIS constructively contributed to active and healthy ageing sector.

Website: http://www.i-prognosis.eu/

Target Beneficiary Groups: OLDP, WOMN, DISB

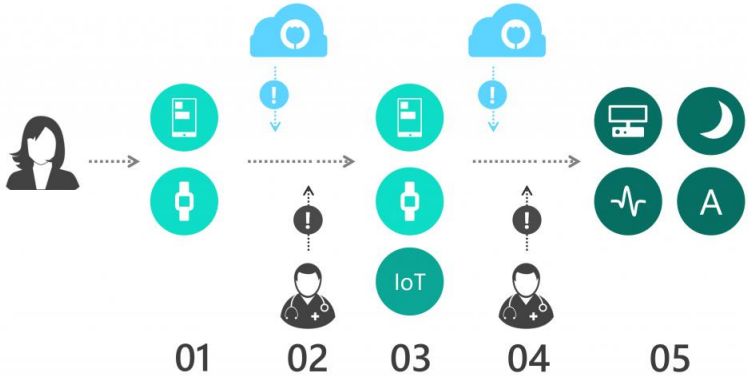
WSIS Values Promotion: Based on this evidence, the cardinal objective of i-PROGNOSIS is the development of (i) an ICT-based behavioral analysis approach for capturing, as early as possible, the PD symptoms appearance, and (ii) the application of ICT-based interventions countering identified risks. Via awareness initiatives, the i-PROGNOSIS community was formed, reaching >4000 older individuals, for unobtrusively sensing large scale behavioral data from its members, acquired from their natural use of mobile devices (smartphone/smartwatch).

WSIS Action Lines: 4, 5, GOV, 11

SDGs: SDG3

Stakeholder Type: Academia

Country, Region: Greece, Western Europe and North America



Jaklapor: Privacy-Preserving Online Public Complaint Application

Jakarta as a capital city as well as the biggest city in Indonesia with a population of 11 million people facing various urban challenges, not only during the Covid-19 pandemic in providing public services, such as education, health, economy, social, and transportation, to people who live and work in Jakarta. Pandemic has driven the way governments provide online based on public services. Jakarta has been faced with various problems in managing public complaints. The existing complaint channels are time consuming and costly for the public to complain about. The community also does not believe that the government is able to resolve complaints or follow up on reports which are only a formality. This is due to the lack of transparency in the completion of reports. Apart from that, the public is also worried about the misuse of personal data which causes the public to feel insecure in complaining. We have developed a mobile based Jaklapor with a focus on customer centricity. By using Jaklapor, people who live and work in Jakarta are able to send complaints about public services safely. Jaklapor prioritizes the principle of quick and complete by upholding the confidentiality of the complainant's data. People can choose either to be public or private (anonymous) to keep their identity confidentiality safe. Jaklapor is equipped with a geo-tagging system to capture a picture along with the exact location of the occured problems. People can choose a category of problems and write a description about their complaint. Then, people will obtain a receipt code of their complaint so that it can be used to track the status of the complaint (real-time monitoring).

Website: https://jaki.jakarta.go.id/id/

Target Beneficiary Groups: YOUTH, OLDP, WOMN, INDG, DISB, UNEMP, POOR, MIGR, REFG, RURL

Replicable Description: Jaklapor can be applied to both the public and private sectors. This system is implemented from the village level to the province through omnichannel and based on geotagging. This public complaint management adheres to the principles of public privacy.

Sustainable Description: Jaklapor is carried out through an omnichannel based on geotagging by ensuring the confidentiality of the reporting data. This public complaint management adheres to the principles of public privacy, transparency of information, and no fees to the public.

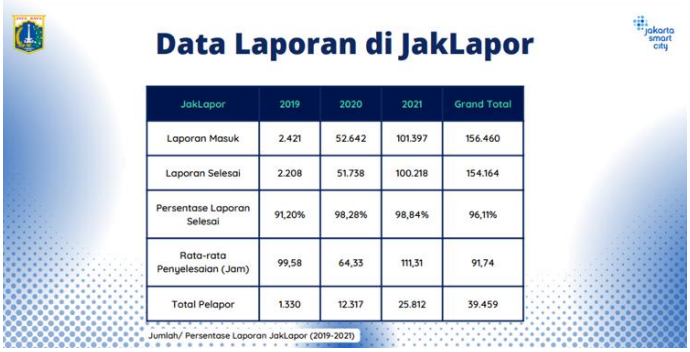
WSIS Values Promotion: Jaklapor can support the WSIS value promotion: reedom, equity, solidarity, tolerance, shared responsibility, and respect for nature. Jaklapor involves the active role of heterogeneous communities by submitting reports on phenomena that occur through various available channels to help solve city problems. Jaklapor prioritizes privacy in accordance with national regulations regarding personal data. This makes community participation more sustainable and increased because its safety has been guaranteed.

WSIS Action Lines: 5

SDGs: SDG9, SDG11, SDG13, SDG16, SDG17

Stakeholder Type: Government

Country, Region: Indonesia, Asia and Pacific



JakLapor	2019	2020	2021	Grand Total
Laporan Masuk	2.421	52.642	101.397	156.460
Laporan Selesai	2.208	51.738	100.218	154.164
Persentase Laporan Selesai	91,20%	98,28%	98,84%	96,11%
Rata-rata Penyelesaian (Jam)	99,58	64,33	111,31	91,74
Total Pelapor	1.330	12.317	25.812	39.459

Women in Cybersecurity

The Internet Society Kazakhstan Almaty Chapter has a solution. Their “Women in Cybersecurity” is a training course designed to increase the number of women in the field of cybersecurity, encouraging them to expand their potential and create role models for future cybersecurity professionals. The project will provide eight training sessions conducted by experienced female teachers with high quality educational programs such as TRANSITS-I course developed by GEANT Association, CompTIA Security+, and CCNA Cybersecurity Operations. At the moment 45 women have been trained By the end of the course, students have learned: principles of confidentiality, integrity, and availability as they relate to data and cybersecurity countermeasures;techniques and procedures of criminals and professionals in the cybersecurity field;strategies used by cybersecurity professionals to defend all components of the network; andlaws related to cybersecurity.

Website: https://www.isocfoundation.org/story/kazakh-women-in-cybersecurity/

Replicable Description: Successful implementation of Women in Cybersecurity Project in Kazakhstan will be good example of promoting Open Standards, Security and Resiliency of the Internet and attracting more women in ICT.

Sustainable Description: The project has good chances to be sustainable because Kazakhstan experiences big shortage of trained and certified Cyber Security professionals. The project in future will be supported by national and international women development programs.

WSIS Values Promotion: Traditional mentality of the people of Kazakhstan would negatively influence female students to choose carrier in Cyber Security. This project aims to reduce the digital gender gap and build confidence and security in the use of ITCs

WSIS Action Lines: 5

SDGs: SDG4, SDG5, SDG8

Stakeholder Type: International Organization

Country, Region: Kazakhstan, Asia and Pacific



Go Passwordless with Blockchain Secure Authentication

BSA is the only True Passwordless Multi-Factor Authentication (MFA) solution in the world that use blockchain technology platform for user verification and authentication. BSA is built by design as the first-ever patented blockchain technology to enhance the authentication security level and performance for a secure, fast, and convenient user login Passwordless BSA implementation as a primary authentication method with MFA will replace the current ID and password system to a passwordless blockchain-based authentication. BSA also provides integration with Electronic Know Your Customer (eKYC) for a fast, secure and frictionless non-face-to-face user onboarding experience. BSA hybrid on blockchain technology is used for securing user authentication on both the user identity and device without compromising the performance and user experience. BSA provides the performance guarantee of less than 3 seconds latency with a 0.02% percent of error rate on the blockchain authentication process.BSA solution is certified with industry security standards of ISO/IEC 15408 Common Criteria EAL2 Product Security Certification and it has been proven in South Korea with more than 1 million users from 25 enterprises and government customers. BSA technology is patented in Malaysia, Republic of Korea, United States of America, United Kingdom, Japan, China, Taiwan and Singapore.

Website: https://fnsmalaysia.com/

Target Beneficiary Groups: YOUTH, OLDP, WOMN, DISB, UNEMP, POOR, MIGR, RURL

Replicable Description: BSA is a fully customisable project initiative with the development and customisation of Application Programming Interface (API), Software Development Kit (SDK) and Plug-In source code that make integration with any applications easier and faster. BSA can be integrated with web or mobile applications and with Identity Provider (IdP), electronic Know Your Customer (eKYC) and 3rd party Multi-Factor Authentication (MFA) if required.

Sustainable Description: BSA initiative provide secure, fast and convenient user login experience with less than 3 seconds authentication and can be reduced up to 70% cost of operation by eliminating user ID and password management and operation. BSA also enable organisation to comply with global standard practices and regulatory requirements; provides organisation with operational and compliance cost reduction, avoidance and recovery of security breaches and business continuity. BSA is sustainable for any digital services because it enable trust, fast and convenient online user experience for onboarding, sign-in, sign-up and self-services.

WSIS Values Promotion: BSA provide a secure, fast, and convenient passwordless Multi Factor Authentication (MFA) build by design for security, privacy and trust for safe access to digital services. BSA is the world's first private initiative using blockchain verification and authentication to transform digital access security from username ID and password to passwordless blockchain secure authentication with MFA. In the digital world, organizations need a new security paradigm that is effectively adapts to the complexity of the agile business environment, embraces mobile and remote workforce, and protects people, devices, applications, data, network and cloud seamlessly. The current Username ID and Password is no longer secure and cannot be trusted. Organizations need to protect their user data from cyber threats such as credential theft, account take over (ATO), phishing fraud and ransomware. BSA is a homegrown and patented technology by FNS Value Co. Ltd, Korea using next generation blockchain technology for secure authentication. FNSM extend the project and initiative to secure digital services for Malaysia, Indonesia and Singapore. The project and initiative can be extended to other countries to implement blockchain

authentication technology to maximize the value and benefits of fast, secure and convenient authentication. FNSM is committed to build confidence and security in use of ICTs and promote blockchain technology for a safer world with passwordless BSA. BSA also promotes “Zero Trust Access Security” principles to provide secure access to critical information and communication infrastructure, ICT applications such as for E-government, E-business and E-health.

WSIS Action Lines: 2, 5

SDGs: SDG9, SDG17

Stakeholder Type: Private Sector

Country, Region: Malaysia, Asia and Pacific



Cybersecurity Education in the Philippines in the Face of New Normal Adversities

According to statistics from the Kaspersky Security Network, the Philippines ranks 4th among countries most targeted by web threats. In 2021 alone, more than 50 million cyberthreat attempts were monitored which entails an upsetting 433% increase from 2017 with malware and malicious files topping the list. Moreover, a global study revealed that 20 percent of Filipinos aged 12 to 17 using the internet became victims of Online Sexual Exploitation of Children (OSEC). In its effort to combat these ever-present cybersecurity threats, the DICT has strengthened its cybersecurity education program more than ever through online, face-to-face, and partnership strategies essential to improving the country's cybersecurity posture amid rising digitalization. In Region IX (Zamboanga Peninsula) and BASULTA, home to various ethnic groups, an in-house Learning Management System (LMS) has been developed where free cybersecurity courses are accessible online and on-demand. To date, the said LMS has already educated 23000+ individuals who finished with completion certificates. Additionally, the free cybersafety webinars designed to shape the Philippine digital community livestreamed on Zoom and Facebook which started back in 2020 had digitally upskilled and awarded 50,000+ individuals with completion certificates. The wide reach acquired through the new normal strategies played a vital role in this endeavor toward a safe, resilient, digitized nation.

Website: https://www.facebook.com/DICT.RO9BASULTA

Target Beneficiary Groups: YOUTH, OLDP, WOMN, INDG, DISB, UNEMP, POOR, MIGR, REFG, RURL

Replicable Description: The percentage of online users in the country dramatically increases as more and more people learn to engage in cyberspace with limited face-to-face interactions observed, not to mention schools shifting to online learning during the pandemic. For this reason, the replicability of this project is effectively achieved through partnering with stakeholders and social media promotion to reach even the remote communities so that more training and webinars will be conducted across the different parts of the country. Also, targeted approaches are paramount to an effective reproduction in consideration of the cybercrime trends such as but not limited to the conduct of face-to-face cybersecurity awareness caravans to schools, parents, women, children, business owners, etc. The complementary projects of the government such as the provision of free internet in the unserved and underserved communities also reinforce the goal to educate every Filipino on the dangers that lurk in the internet.

Sustainable Description: As mentioned, the government formulated its National Cybersecurity Plan with the primary goals of: (1) assuring the continuous operation of our nation's critical infostructures, public and military networks (2) implementing cyber resiliency measures to enhance our ability to respond to threats before, during and after attacks, (3) effective coordination with law enforcement agencies and (4) a cybersecurity educated society. The DICT through its attached agency the Cybercrime Investigation and Coordination Center (CICC) is at the forefront of making this happen. Both reactive and proactive strategies are a priority thus the sustainability of this project is never in question. Moreover, the fast advancement of technology gives birth to countless possibilities of online risks, hence the need for early detection and careful study of future online threats to formulate new suitable training modules to further strengthen the country's defense against these threats.

WSIS Values Promotion: The wise use of ICT opens a gateway to infinite opportunities for the public, but cyber threats may excessively affect the functioning of life be it financial, legal, or reputational. The prevalence of online risks, often disruptive, broadcasted over the

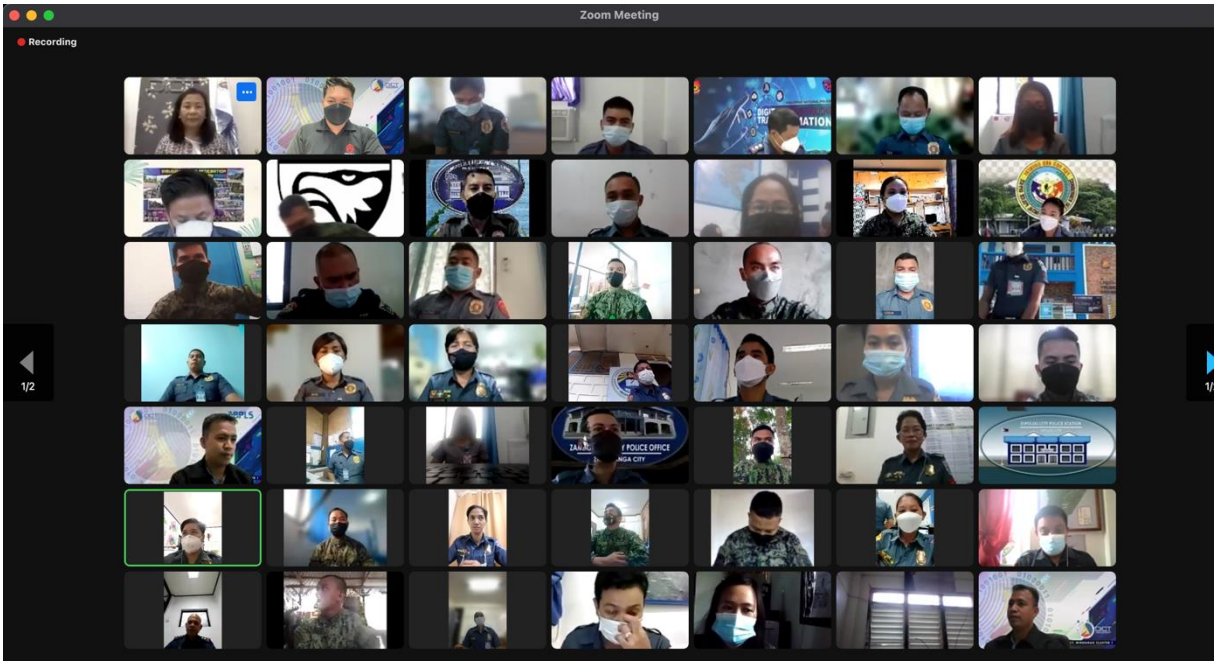
media also gives room for doubt in ICT use among the end users impairing its optimal impact. The information security governance and risk management approaches of the government are critical in building confidence and security in the use of ICT, paving the way for the country's digital transformation.

WSIS Action Lines: 1, 3, 4, 5

SDGs: SDG3, SDG4, SDG5, SDG9, SDG11, SDG16

Stakeholder Type: Government

Country, Region: Philippines, Asia and Pacific



National Information Security Compliance Framework (NISCF)

National Cyber Security Agency (NCSA) of Qatar National Information Security Compliance Framework (NISCF) focus on Cyber Security Assurance from different verticals (e.g., Supply chain, Consumer, Products). Cyber Security is one of the most important challenges in the days & age of the 4th industrial revolution & with all eyes set on Qatar for the FIFA World Cup, providing trust & assurance that the State, residents & visitors' data is safe & secure is a must to achieve the set objectives.The program includes Accreditation Certificates for Service Providers providing Audit & Advisory Services in Cyber Security to increase trust & quality in the supply chain. The Accreditation is the cornerstone of NISCF in a one of its kind in the State of Qatar Private / Public partnership. They assist organizations in securing their data through high quality consultancy covering all aspects of Cyber Security & are trusted by NCSA to audit & evaluate organizations, processes & products to issue Certificate of Compliance against National (e.g., National Information Assurance - NIA) & International (e.g., Common Criteria) Standards in Cyber Security. Until today multiple important National (e.g., Milaha) & International (e.g., Microsoft, Huawei, PwC, Protiviti, Deloitte) organizations earned their Certificates by NCSA.

Website: https://compliance.qcert.org

Replicable Description: The project is replicable in different countries as the context for Cyber Security is common and they documentation of the programs related to Accreditation and Certification have been made public. Also, the programs standards and processes are aligned to international best practices.

Sustainable Description: The Accreditation and Certification programs require continuous compliance and include periodic assessment to ensure Cyber Security compliance. Cyber Security is an everlasting lifecycle improvement for organizations. As ICT adoption increases, the Cyber risks would increase requiring trust and assurance that the Accreditation and Certification programs address and improve the overall security posture of the ecosystem.

WSIS Values Promotion: Based on the program we believe in shard responsibility of Cyber Security of the Qatar ecosystem with involvement from NCSA as regulator, government entities and critical sectors organization and Cyber Security Service Providers. The Accreditation and Certification programs open a new market to Accredited Service Providers supporting them in establishing confidence, improving maturity and secure the supply chain of Cyber Security.

WSIS Action Lines: 5

SDGs: SDG9, SDG11

Stakeholder Type: Government

Country, Region: Qatar, Asia and Pacific

National Portal for Cybersecurity Platforms (Haseen)

NCA was established in KSA with state of art mandates to drive consolidated efforts with centralized cybersecurity governance, and to address some of the challenges faced globally, NCA launched “Haseen.”, an integrated platform to provides services across all the national entities, including government agencies, private companies, NGOs, and IGOs, such as: Incident Response: • National Incident Response: Platform to bilaterally communicate cybersecurity incidents and trigger support for intervention required for incident management, including containment, and recovery. • Files Inspection Platform: Malware analysis platform that helps security analysts analyze suspicious files and URLs to detect malicious software •Email Authentication Service: Platform to fortify and authenticate email domains to reduce cyber threats Information Sharing Platform: • Platform to promote bilaterally communication across national entities and provides real-time threat feeds and reports to enable a proactive understanding of adversarial threats and protection.Assessments: • Platform to manage and assess compliance and risk in cybersecurity, complying with top notch standards and controls, thus enabling organizations to monitor and continuously evaluate their compliance levels, also establishing national view of risk and compliance maturity.Capacity building Platform: • Platform to provide needed supports for the cybersecurity startup entrepreneurs and CS workforce in KSA; establishing national view of the ecosystem to prioritize required efforts.*(an extended description can be founded in "Extended description" and in the supporting documents)

Website: https://haseen.gov.sa/

Target Beneficiary Groups: YOUTH, WOMN, UNEMP

Replicable Description: Cybersecurity is one of the most systemically important issues facing the world today. In little over a decade, cybersecurity has been transformed from a primarily technical domain centered on securing networks and technology to a major strategic topic of global importance – the cost of cybercrime is up to $2+ from $500B in 2015; By 2031, the estimated global cost of ransomware damage will be $265B, up from 20B in 2021. Most of nations are struggling to drive coordinate efforts and not able to have consolidated view of the cybersecurity threats. The Haseen model not only addresses such challenges but also deliver much-needed critical services in a centralized way, cooperating with a broad range of national stakeholders. The Haseen can be replicated in different countries. NCA with Haseen has created a global benchmark to provide one-stop national portal for cybersecurity platforms and will work with its national partners to replicate and scale the platform to other nations. As NCA firmly believe in moving from individual resilience to collective resilience to make global cyberspace safe and secure for everyone.

Sustainable Description: The project was developed locally and is operated and managed on a national level, building on effective partnerships with: • Implementation partner, such as, SITE • National government organizations • Critical public and private entities • NGOs (end-users and main beneficiaries) • National Academic Institutions The project also focuses on empowering youth and entrepreneurs by unlocking their potential through offering the following programs: • Accelerator programs to foster innovation in the sector • Leadership and talent programs to ensure local talent development. The project is already self-sustaining, and it is built with an operating model that can be easily implemented in other contexts. We think it is most applicable for developing countries that could benefit from guidance in building more resilient cybersecurity capabilities under a cost-effective and self-sustaining model.

WSIS Values Promotion: This project promotes WSIS values in our local community here in Saudi Arabia, and it has the potential to do the same for others around the world. The

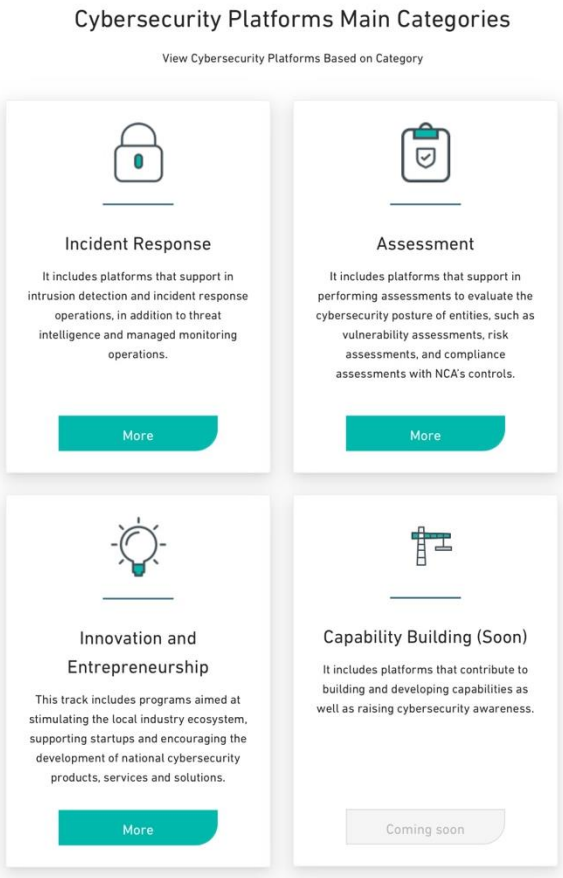
Platform aims to enhance trust, security, and resilience of infrastructure, promoting cybersecurity and protecting infrastructure for all. It is not a platform that just serves government entities but rather a platform with benefits for all stakeholders: government agencies, private companies, civil society, NGOs, IGOs, SMEs, the scientific and academic community, and individuals. Our project upholds WSIS's vision to bridge the global digital divide, contributes to achieving gender equality and improving professional and educational opportunities for women and girls, addresses youth employment challenges by providing specialized technical career training in a growing sector, and contributes to massive economic benefits by protecting the largest agencies and companies from severe cybersecurity incidents that could financially cripple the economy. One specific example of how our project promotes WSIS values in Saudi Arabia is our focus on Innovation and Entrepreneurship and Capability Building. Through these pillars of our platform, we provide programs for promising youth entrepreneurs, mentorship opportunities for young startup founders, and career opportunities for many women. While the global representation of women in the cybersecurity field is only about 25%, the sector in Saudi Arabia has 45% participation from women. Saudi Arabia is undergoing a massive societal transformation, and our project is one part of the Kingdom's push towards providing more opportunities to women (source: https://saudigazette.com.sa/article/616161)

WSIS Action Lines: 5

SDGs: SDG4, SDG5, SDG8, SDG9, SDG11

Stakeholder Type: Government

Country, Region: Saudi Arabia, Asia and Pacific



Linkcheck

“linkcheck” is a free service offered by stc to the community. It aims to raise the customers awareness about suspicious/malicious domains. The service will provide some insights about the domain in question like the domain reputation, hosting country, registration date. The customer just needs to send the link to the WhatsApp Chabot and will get automated response with information & indicators about the link which will help to take the right decision either by visiting or ignoring the link. The service will contribute to safe internet browsing.

Website: http://exigate.stc.com.sa/linkcheck/

Target Beneficiary Groups: YOUTH

Sustainable Description: Empower the community to identify suspicious website links and provide a high level of security to keep the community safe from cyber-attacks.

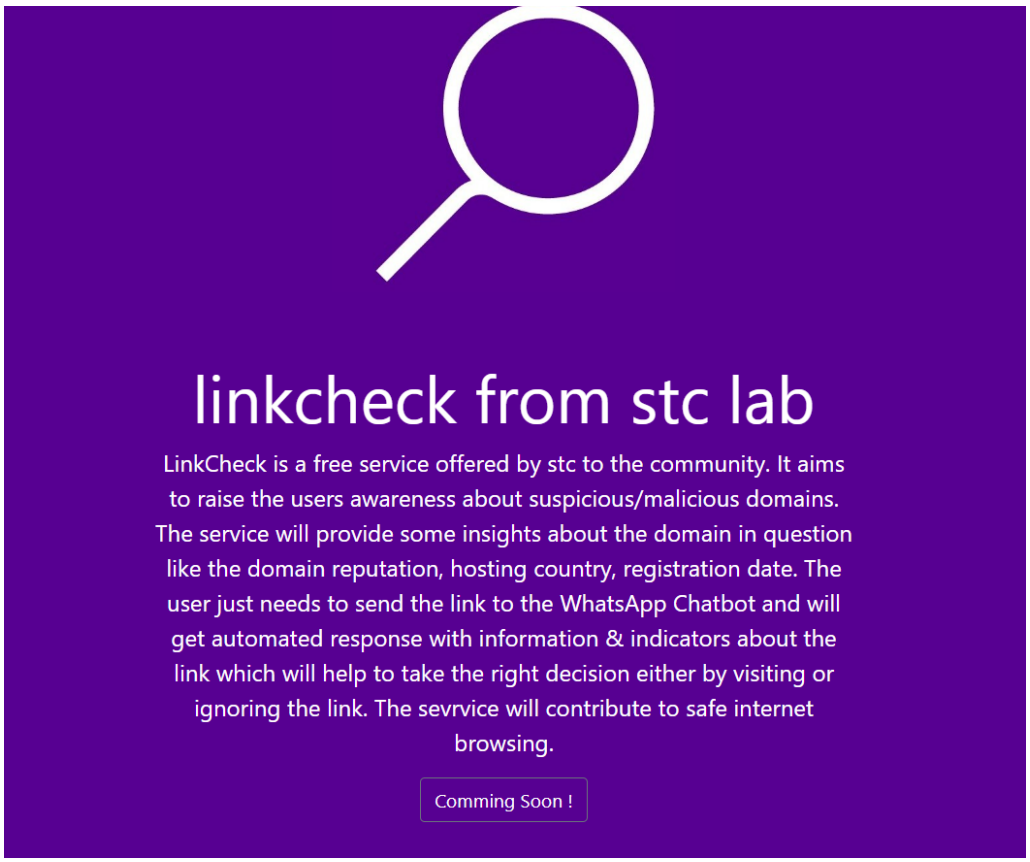
WSIS Values Promotion: Empower the community to identify suspicious website links and provide a high level of security to keep the community safe from cyber-attacks. This project will also help to raise community awareness of cybersecurity.

WSIS Action Lines: 5

SDGs: SDG9

Stakeholder Type: Private Sector

Country, Region: Saudi Arabia, Asia and Pacific



INtelligeNt vOiCe tEchnology applied to AfriCan languagEs

Our solution is based on Intelligent Voice Technology and Natural Language. The dynamics of this concept was born from the observation made by the founder of i-Wanga, Moustapha DJIMERA, on the lack of services adapted to the realities of the African populations: illiteracy, lack of education on the concepts and uses of NTIC... Thus, with the aim of having a major social impact on the continent, we imagine and create solutions allowing populations to access any type of technological service, thanks to their voice and in their local languages (the ones they master best).Voice-based services offer a myriad of use cases: - Product purchase - Assistance/Awareness (first aid, health, mobility impaired, road safety...) - Education (e.g. school lessons,) - Verification (e.g. checking account balance) - Customer service - Task execution/scheduling (e.g. calls, meetings, etc.) - Listening to content (e.g. music, TV, radio, news...)

Website: https://iwangainc.tech/?page_id=58

Target Beneficiary Groups: YOUTH, OLDP, WOMN, INDG, DISB, UNEMP, POOR, MIGR, REFG, RURL

Replicable Description: The model is reproducible as the languages change in each country. The AI models we develop will be able to adapt to this as we target a language in each country. We just need to have the relevant data to train them. The project allows to value the local languages of each country of the African continent. The numerous awards we have obtained allow us to prove that the solution is viable and that it is easily reproducible as long as the data obtained is not biased. The goal of the project is to develop a technology capable of being embedded in any type of target application (web, mobile, IOT, kiosks, etc...) with all imaginable use cases. Our target is Africa and the number of languages spoken on the continent varies between 1500 and 3000. This is a huge resource that we believe should be exploited and developed in the future. Thus, being based in West Africa, our first target will be this part of the continent to then focus on the East, the South and finally the North. The first languages that we are working on are Wolof, Peul, Bambara, Haoussa, Yoruba and Ibo.

Sustainable Description: Given that our project has a strong social dimension and a Research and Development approach, we are struggling to find the necessary funding for our development. Investors are often attracted by projects with a quick ROI and do not require much investment time. However, by getting the support and investment we need we will become one of the major and disruptive players in the market for decades.

WSIS Values Promotion: We are convinced that the language barrier is a major challenge for the access to information for the populations. Our solution allows us to facilitate and democratize technology within the community by communicating with them in the languages they speak. It is a real gas pedal that will allow to better apply the values and concepts of the WSIS.

WSIS Action Lines: 1, 2, 3, 4, 5, GOV, BUS, LEA, HEA, EMP, ENV, AGR, SCI, 8, 9, 10, 11

SDGs: SDG4, SDG5, SDG8, SDG9, SDG10, SDG11, SDG16

Stakeholder Type: Private Sector

Country, Region: Senegal, Africa



Cybersecurity Capacity Building Programme for Least Developed Countries (LDCs) and Small Island Developing States (SIDS)

Welchman Keen is offering series of cybersecurity capacity building programmes (CCBPs) free of charge to LDCs and SIDS, aimed at cybersecurity capacity building and preparedness. These training programmes are targeted at government decision makers, management-level executives, and other public and private sector groups of importance, as identified by Welchman Keen and the recipient country. Welchman Keen acknowledges that, amid the ongoing transition of services to digital platforms, it is critical that stakeholders in developing countries – such as Computer Emergency Response Teams (CERTs) and critical infrastructure (CI) providers have the right toolsets and capacity to defend against evolving cyber threats. The CCBP was created as a building block for LDCs and SIDSs to improve capacity across a range of cybersecurity areas, including data security, national cybersecurity strategy (NCS) and child online protection (COP). We cover all expenses related to content, instructor fees, and associated travel and accommodation expenses. The total commercial value of the CCBP is calculated at USD800,000; by the end of November 2022, 401 individual participants from eight countries, namely Bhutan, Vanuatu, Nauru, Papua New Guinea, Maldives, Tonga, Samoa, and Brunei, have benefitted from the programme. 20 countries in total are expected to participate in the programme.

Website: https://welchmankeen.com/our-services/

Target Beneficiary Groups: YOUTH, WOMN, INDG, POOR, RURL

Replicable Description: It is recognised that many developing countries do not possess the requisite technical skills and capabilities to handle and mitigate cyber threats, but private sector entities are unable to support given the low commercial viability of doing so. Instead, it is NGOs and international organisations which have mostly rendered the cybersecurity support to developing countries. Focusing on public-private stakeholder cooperation and capacity building, we believe that other private for-profit entities can offer similar programmes and achieve similar outcomes. The CCBP is sourced and developed from the knowledge of our in-house experts and other leading global cybersecurity and technological firms. Based in Singapore, we are neutral and develop programmes tailored directly to the needs and requirements of the partner country, free from any external influence or agenda. While the training content is not made available publicly for commercial reasons, Welchman Keen provides the content to partner countries for their reference and usage free-of-charge and free from any encumbrances. The goal of the CCBP is to help developing countries move up the tech ladder and create a better online environment for its people, businesses, and for public services. With closer collaboration between the public and private sector, we believe that collective trust in ICT platforms and digitisation can be developed, accelerating safe and secure digital transformation and more opportunities for people to participate and reap the benefits of the digital economy.

Sustainable Description: From a continuity perspective, we work with partner countries to deliver the CCBP either physically or virtually. Welchman Keen prefers physical programmes, given that it is more conducive for attendees to ask questions, participate, and learn in an interactive manner. However, should it be challenging to conduct physical trainings (travel restrictions, prohibitively high expenses), Welchman Keen can deliver the programmes virtually, and at low cost. We adopt a cross-subsidisation model, where we use revenue obtained from our other practices to subsidise the cost of running the CCBP. This stems from our belief that people from all countries should have equitable access to quality tools, knowledge, and resources. Cybersecurity is an often-forgotten principle but is no less important than physical connectivity infrastructure itself. We believe that the CCBP is a foundational block in kickstarting conversations on the importance of cybersecurity in the

partner country. Our programme will also continue to be relevant, especially as the cyber threat landscape evolves rapidly and at every second. Our in-house experts work closely with our content partners and partner countries to ensure that our content remains relevant, useful, and timely. Post-programme, we follow up closely with attendees to ensure that the programme was impactful and made a difference to their work and skills. From feedback, we continuously improve our programmes to ensure ongoing relevance. We are also open to working with interested partners to develop the programme curriculum and to introduce new modules and content to the trainings to the benefit of attendees.

WSIS Values Promotion: We acknowledge our role in working with governments and other stakeholders in implementing good cybersecurity practices to accelerate the adoption of ICTs, while also enabling equal access to information and knowledge; countries regardless of their economic status, should be able to access high quality training programmes and capacity building to improve their cybersecurity posture and capabilities. The key tenet of the CCBP is capacity building. In Tonga and Samoa, for example, we worked with the respective Department of ICT to conduct data protection and privacy trainings in relation to national sovereignty, critical national information infrastructure protection (CNIIP), COP, and ransomware trainings to ministers, CERT stakeholders, and national infrastructure providers, equipping them with the mindset and tools to handle cyber incidents when they happen. In Maldives, we worked directly with the ICT Ministry to conduct trainings for parents and children to cultivate good cyber hygiene and browsing habits. We also deliver the programmes to industry stakeholders as needed. In Fiji, for instance, we worked with the Ministry of Defence to conduct capacity building to CI providers from the utilities, telco, and education sectors. As people from these developing countries – the poor, the marginalised, and even indigenous and rural groups – come online and access the Internet for the first time, we are helping to ensure that the requisite protections and cybersecurity measures must already be implemented by the government and companies. We believe that our close collaboration with governments and other private sector companies will create an enabling environment for all to benefit from the digital economy.

WSIS Action Lines: 1, 2, 3, 4, 5, 6, 10, 11

SDGs: SDG4, SDG5, SDG8, SDG10, SDG16, SDG17

Stakeholder Type: Private Sector

Country, Region: Singapore, Asia and Pacific



Asset-Based Cyber Defence

At the start of the COVID pandemic, ransomware and data breach incidents started making headlines and highlighted the need for better cybersecurity solutions. Three Singapore-based companies, SecureAge, IBM-ReaQta, and InsiderSecurity, came together to propose a solution to implement CSA's 'Be Safe Online' Essentials to protect against ransomware and Advanced Persistent Threats (APTs) stealing information. ABCD is this collaborative solution.ABCD is an end-point protection solution that implements a zero-trust concept in 3 layers of defence. The approach was designed because most cyber attackers must first infiltrate malicious software towards the endpoints to achieve their objectives. The first layer of defence verifies that assets are clean using multiple anti-malware scanners. The second layer verifies the assets and activities against the tactics, techniques, and procedures (TTPs) of sophisticated attackers, such as the TTPs of the MITRE ATT&CK framework. The third layer of defence leverages several AI/ML models to check for suspicious behaviors that could indicate malicious activities. ABCD is offered as a Security-as-a-service (SecaaS) due to the model's affordability and lower barrier to entry, so that entities like small and medium enterprises (SMEs) and individuals may have access to robust cybersecurity without them needing to be cybersecurity experts themselves. The SecaaS model functions as a one-stop service delivered via Managed Security Service Providers (MSSP). Currently, Toffs Technologies Pte Ltd and Lumen Technologies are the Singapore MSSPs. The MSSPs deliver the ABCD services with the support of Security Operations Centre (SOC) teams that provide 24/7 security monitoring, response, and security consultancy. By the end 2022, ABCD would have protected more than 500 SMEs in Singapore. Without the need to set aside extra resources to deal with cyber incidents, these SMEs can focus on growing/sustaining their businesses in the digital world yet remain protected against cyber-attacks.

Website: https://abcd-security.com

Replicable Description: ABCD defends entities against ransomware and APTs, which are issues for the global digital community. So every country can use ABCD to solve these problems. In addition, there are plans for ABCD to be implemented in Oracle Cloud Infrastructure (OCI) so that any MSSPs who partner OCI can provide ABCD to their clients. In addition, ABCD was designed to be aligned to the US NIST Cybersecurity Framework (IPDRR). Hence, there is opportunity for international recognition amongst similar initiatives that adopt the same Framework.

Sustainable Description: ABCD partners have signed a Memorandum of Understanding with Singapore's Institute of Technical Education (ITE) to train students in cybersecurity to sustain the manpower pool who supports the ABCD services, while solving one of the key challenges of the cybersecurity industry to have more cybersecurity talent. The ABCD also provide more employment opportunities for young cybersecurity experts. Furthermore, foreign countries who wish to improve their security posture may choose to adopt a similar sustainability model by introducing the ABCD solution to their own local SMEs. The collaboration could be a best-case example as to how "Security-as-a-service" could be provided locally and globally. When applied globally, this project can potentially improve the security posture of the global cyber ecosystem.

WSIS Values Promotion: ABCD endeavours to promote WSIS' values of developing quality, reliable, and sustainable cybersecurity solutions to support economic development and human well-being, with a focus on making the ABCD solution cost effective, affordable, and accessible to all. With the potential to stop ransomware and APTs, ABCD will enable users to reduce the business risk when pursuing their business goals.

WSIS Action Lines: 1, 2, 5, 6, BUS

SDGs: SDG9, SDG11

Stakeholder Type: Government

Country, Region: Singapore, Asia and Pacific



Aunjai Cyber : Cyber Immunities tools for Thai People

Citing data from the Office of the National Economic and Social Development Board (NESDB),More than 3 millions thai population became victims who had been damaged by fraud with a total value of the damage of approximately 7,200,000,000 THB.Therefore, AIS, as a Cognitive Tech-Co focused on providing access to digital for everybody in society, consistent with the UN SDG Goal No. 4, AIS developed Aunjai Cyber project, cyber immunities tools for Thai people by increasing digital literacy skill by Aunjai cyber e-learning platform for Thai and decreasing cybercrimes by AIS /AIS Fibre Secure Net and AIS Spam Report Center. Aunjai cyber project divided into 2 parts: First part is Aunjai Cyber course, avaliable on online e-learning platform, provide access digital literacy knowledge skill for free in Thai language. It's easy to use for all devices and all networks especially for AIS customers, they can access without data usage charges. AIS has applied its digital expertise in partnership with state agencies and the Ministry of Education to develop the "Aunjai Cyber" online e-learning platform, the first syllabus to build cyber immunity in Thailand. The second part, there are AIS Secure Net, AIS Fibre Secure Net, Google Familiy Link services, digital tools for protect AIS customers from cyber threats as a network-based security solution, these reduce cyber threats more efficiently include viruses, malware, and fake links, as well as inappropriate websites.Objective: To enhance digital literacy of 3 millions people by 2027 through Aunjai Cyber , online e-learning platform and AIS Secure/fibre net, preventive digital tools to protect malware and spam link. Nowadays, number of registrations to study "Aunjai Cyber" online course are more than 150,000 users, number of customers of AIS Secure Net, AIS Fibre Secure Net are more over 170,000 users.

Website: https://sustainability.ais.co.th/en/sustainability-priorities/cyber-wellness-online-safety

Target Beneficiary Groups: YOUTH, OLDP, RURL

Replicable Description: Aunjai Cyber project is divided into 2 parts: The first is "Aunjai Cyber online course", digital e-learning platform. The others are AIS /AIS Fibre secure net, 1185 hotlines, Spam Report Center, the preventive digital tools for reducing the malware and spam link and alerts to receive complaints about fraudulent telephone calls and SMS. "Aunjai Cyber online course", digital e-learning platform, by its nature can be disseminated basic information and help people to become savvy Internet users at national level and can be replicable at the national level in any country. The contents in Aunjai Cyber online course are opensource, which everyone can use widely, all teachers can use as teaching/Learning Materials. It's easy to understand for students who can learn by themselves. In term of collaboration tools, AIS already have strong partnership with Government sector, Department of Mental Health of the Ministry of Public Health, and Ministry of Education to develop the Aunjai Cyber online course. The syllabus has been certified by the Office of the Basic Education Commission (OBEC). Teachers may count the hours of development in their requests for positions and promotions in the procedure of the Teachers and Educational Personnel Committee as educational material to promote online digital communication skills. It's the incentive for all teachers, and it encourage students to learn. This process can be replicable. Moreover, to reduce cybercrime in Thailand, AIS has collaborated with cyber police from Cyber Crime Investigation Bureau created the hotline on 1185, to receive complaints about fraudulent telephone calls and SMS which AIS customers call in for free. It leads and help polices can arrested call center gang case. This digital tools can be replicable at any country with IVR Self Service and AI Chatbot to alert cyber police and gather information which open 24/7.

Sustainable Description: According to AIS is committed to operate business sustainably in support of a transition to a digital economy, providing guidance on cyber wellness "Using

Internet and social media appropriately" is a significant topic for AIS to do business sustainably, from giving knowledge and enhancing digital skills for general Internet users, to selecting solutions or technologies which are tools to prevent cyber threats, required for providing services to customers. AIS is committed to protecting Thai people from cyber threats and promoting a safe and responsible online society with cyber immunity common with a particular focus on vulnerable groups. Meanwhile, in return, AIS can be visible as safety and reliable network among teacher, students, and Thai people. Aunjai Cyber course raise awareness and reach among more than 1 million people to watch the VDO clips of the campaign. Thai people are engaged to apply aunjai cyber online course more than 150,000 users (updated on 30 Nov 2022). AIS engage with government sectors and private sectors which will be led the one of future customer. In terms of digital tools, AIS Secure Net /AIS Fiber Net, preventive tools, will provide digital solution which assist the safe and responsible use of Internet and social media. The company has the most subscribers in Thailand, counting over 45.7 million in September 2022, whereas Aunjai Cyber project can reach people more than one million by raise awareness campaign such as Stop Bullying campaign, Think before Comment etc. Moreover, in remote area, although it's high invested network infrastructure, we also consider about the topic that everyone can access online learning for free without any charges. It will increase credibility, create brand loyalty, brand love and being the safety network. Therefore, AIS are still the one of top of mind of Safety & Reliable Network and being trusted brand. AIS received the Marketeer No.1 brand 2021-2022 for 13 consecutive years, Thailand's Most Admired Brand from BrandAge for 11 consecutive years.

WSIS Values Promotion: The implementation of Aunjai Cyber project contributes a lot to promote WSIS values in Thailand. First, Aunjai Cyber Online course is a basic knowledge for everyone can access, self-learning and it opens for using as learning/teaching materials especially to connect universities, colleges secondary schools and primary schools with ICTs. Aunjai cyber, E-learning platform encourages central government to provide network for all communities align with WSIS action line C3. Under Aunjai Cyber project, "Think before comment", "Please call me by my name" and "Wisdom to survive" campaigns initiate to raise awareness about cyber wellness and digital skill for Thai people via our 45.7 million subscribers of AIS. Thai Government, especially Ministry of Education are encouraged to educate Thai students and teachers to build cyber immunity with digital tech tools and seeking digital solutions for customers using the Internet over the mobile phone network and the home Internet network and increasing digital literacy by learning Aunjai Cyber course. It encourages initiatives to facilitate access, including free and affordable access, to open access for everyone. Second, to reduce cybercrime like Call Center gangster fraud case, AIS collaborate with Cyber Crime Investigation Bureau to build 1185 hotlines, to receive complaints about fraudulent telephone calls and SMS. AIS Spam Report Center enables AIS customers to call in for free and open 24/7. Data is inspected, and if irregularities are found, and this is confirmed that that number or SMS sender is this scammer, AIS will block the number and the SMS immediately and notify the customer by SMS within 72 hours as well as sending the matter for investigation to the cyber police, which leads for further legal action which is pursued to finality. Finally, it also countering misuse of ICTs – by reducing spam cybercrime, online fraud, reduce cyberbullying cases, it takes appropriate action on spam at national level which is one of the expected outcomes of WSIS action line C5.

WSIS Action Lines: 5

SDGs: SDG4

Stakeholder Type: Private Sector

Country, Region: Thailand, Asia and Pacific



Digital Transformation for MOHAP E-Services

Ministry of health and Prevention is the ministry of the Government of UAE which is responsible for the implementation of health care policy in all areas of technical, material, and coordination with the Ministries of State, and cooperation with the private sector in health locally and internationally. the mission of MOHAP is to enhance community health by providing comprehensive, innovative, and fair healthcare services as per international standards, and performing its role as a regulator and supervisor of the healthcare sector, however Digital Transformation project has addressed many challenges as below: • Analyzing implemented MOHAP services through many process phases • Studying current situation for MOHAP and make logical decisions • Make process reengineering (Discover, plan, Do and Maintain) , which need to Identify modules priority, process owners, new system workshops, new milestones, Nonfunctional Acceptance Criteria (Security, TDRA, 7 Stars, User Journey, Accessibility, Responsiveness) then to execute process approach • Make integrations between new process and other entities (UAE PASS, Emirates ID).• Integrate with other main apps and gateways.** innovative or unique in the project : • All services are easy accessed via 3 steps only . • User profiling for documents as the user don't need to upload files for every service, its done only one time and saved. • There is an integration with UAE PASS to extract user profile • It helps MOHAP to break free from legacy systems and embrace innovative, scalable alternatives to become more agile and responsive to the evolution of customer preferences. • Adopting the strategy of the Government of UAE to have one centralized system incorporating all the stake holders. • One Stop Shop automated solution for data analysis that help putting health strategies and national KPIs • attachments or actions and ask the applicant to complete the payment. • It contains Service Prediction which helps in providing the services before requesting them.

Website: https://mohap.gov.ae/

Target Beneficiary Groups: OLDP, WOMN, INDG, DISB, MIGR

Replicable Description: This project can be replicated for the other executive power, in other administrative territories, as it is a platform for solving the problems of people living in local territories.

Sustainable Description: The application of security certificates for the protection of personal data, unlimited number of users, tracking of changes in the status of appeals, monitoring of statistics, interactive reporting form, ability to export reports to an excel file the convenience for government agencies provide the basis for sustainable and further expansion of the system.

WSIS Values Promotion: the project is to ensure the transition to digitalization in the country and at the same time to minimize physical contact with government agencies in a pandemic (Cov-19). The system gives advantages for citizens and for government stockholders. Citizens may opportunity to apply without leaving the place, online tracking own applications, to save time, to get results faster. The system gives for government employers systematization of appeals, follow-up, and monitoring of appeals, sending real-time notifications.

WSIS Action Lines: 1, 2, 3, 5, 6, HEA

SDGs: SDG3, SDG8, SDG9, SDG10, SDG11, SDG17

Stakeholder Type: Government

Country, Region: United Arab Emirates, Asia and Pacific



Apps and Girls

Apps and Girls is a Tanzanian award-winning social enterprise that empowers girls and young women to create the world they want to live in using technology. We give girls and young women aged 12-24 from both privileged and underprivileged backgrounds, at secondary school, university, or out-of-school the skills and a platform to become effective tech-entrepreneurs, innovators, including high-quality software and hardware programming experts. We are implementing an innovative cyclical process of basic-advanced coding training, entrepreneurship training, mentorship, and incubation. The process itself harnesses the power of digital technologies, notably through the creation of coding clubs in secondary schools, an offline and online women's tech entrepreneurship incubator, e-learning and e-mentoring platform to match emerging tech entrepreneurs/ enthusiasts with mentors. Our mission to reduce the gender gap in ICT, tech-entrepreneurship, and empower more change-makers in Tanzania and across Africa. Objectives: To invest in girls and young women as potential tech entrepreneurs, tech creators, tech role models, and leaders, in Tanzania and across Africa.

Website: https://www.appsandgirls.com

Target Beneficiary Groups: YOUTH, WOMN

Replicable Description: Apps and Girls has expanded from one region (Dar es Salaam) in Tanzania to more than ten regions and now we are building other two hubs in Morogoro and Zanzibar to provide a space for training and incubation for girls and young women. We have been able to scale through Train the Trainer (TOT) method and the #TechisFemale Campaign with TIGO. For the TOT, we have empowered 785 teachers so far with the IT and Entrepreneurship skills so that they could transfer them to their students. We have also designed uniform materials to enable them to help their students learn effectively. Also, as one of Tanzania's leading telecom giants, Tigo has pledged to support Apps and Girls on the mission to bridge the existing technology gender gap in Tanzania. Tigo has an eSchools program where they have recruited schools across Tanzania and provides them with FREE Internet, we have access to do the training in the whole network of Tigo eSchools. In 2019, #TechisFemale campaign managed to reach eight regions in Tanzania. Furthermore, Apps and Girls expanded its activities to Uganda in 2019 with the Robotics program being the first program to be implemented. We trained 20 students and four of them were able to compete in the First Global Olympics 2019 and represent Uganda in the international competition where they won the "Best Alliance award Silver Medal". The robotics program aims to encourage problem-solving, creative thinking, and a healthy sense of competition that drives innovation from students.

Sustainable Description: To promote and advocate women's socio-economic empowerment through women's tech-based entrepreneurship and participation in the formal employment sector, notably in ICT-related employment, initially in Tanzania and across Africa. Bridge the gender digital gap in Africa and contribute towards achieving SDG goal number 5 Gender equality.

WSIS Values Promotion: Activities: 1. Provision of Coding and Entrepreneurship Training a) Coding clubs in schools: We have created coding clubs in public secondary schools where girls are taught coding and entrepreneurship weekly to get them inspired to enroll in STEM courses and be digitally literate to be able to develop their own digital projects/innovations and succeed in their careers. b) At the Girls Hub: We provide Intensive 6 months long Advanced IT and Entrepreneurship training for marginalized girls and young women who dropped out of school to be able to participate in the formal employment sector, notably in ICT-related employment or be able to create their own tech-based enterprises thus elevating

women’s socio-economic empowerment. 2. Provision of Mentorship and Incubation (online & offline) We provide mentorship and Incubation to emerging young female tech entrepreneurs (including girls in secondary schools and out-of-school enrolled in the program) which includes access to indispensable resources, training, mentorship, zero interest loans to support the successful launch and scale-up of their IT-based enterprises at our hub and in our online incubation platform called Code Galaxy. 3. Provide innovations that enhance learning in secondary and primary schools. We have created an interactive e-learning platform for children in both rural and urban areas across Tanzania during COVID-19 crisis and after, by connecting learners, parents, and teachers for continuous learning opportunities at home.

WSIS Action Lines: 1, 2, 3, 5, LEA

SDGs: SDG3, SDG5, SDG8

Stakeholder Type: Civil Society

Country, Region: United Republic of Tanzania, Africa

WSIS Action Line C6. Enabling environment

Community Networks in the strategy of connecting rural and remote areas as licensees in Argentina

Argentina has been working to include and encourage a different type of solutions that allow connectivity throughout the country. Rural and remote areas, with low population density, have represented a challenge from the geographical point of view as well as from the business profitability to attract licensees willing to provide ICT services. In this context community networks are developed as a solution to connect communities that would otherwise be excluded from ICT. The objective of these Networks is to provide connectivity in rural, remote unserved and underserved areas, in which the inhabitants themselves are responsible for helping to deploy the infrastructure, including civil works, installation of equipment and the network management. A solution was sought from ENACOM for these networks could be developed under the regulatory framework, with all the benefits that come with being a licensee recognized by national regulations. To this end, a specific community networks license regime for the provision of ICT Services for Internet access was approved. This recognition marks a milestone since there are not many similar cases in other regions yet. ENACOM takes the lead in enabiling an innovative legal framework with the aim of guaranteeing everybody's equal access to licensees' regime.

Website: https://www.enacom.gob.ar/licencias-de-servicios-de-tecnologias-de-la-informacion-y-las-comunicaciones_p2360

Target Beneficiary Groups: INDG, RURL

Replicable Description: The recognition of like community networks could work in other countries and regions. While, of course, there are differences between ICT legal frameworks worldwide, this licensing approach could be replicated elsewhere.

Sustainable Description: The implementation of this project does not require resources.

WSIS Values Promotion: The actions taken by ENACOM to include community networks in the regulatory framework are closely related to the need to promote greater equality by establishing the requirements to be part of the ICT sector, not only from a commercial perspective but in a more inclusive way. and focused on social factors. The concept in which these licensees are granted is based on the solidarity and unity of the community that works together to take responsibility for the network that they themselves deploy.

WSIS Action Lines: 1, 6

SDGs: SDG4, SDG8, SDG10, SDG16

Stakeholder Type: Government

Country, Region: Argentina,
Latin America and the Caribbean



My light on the mountain

With the materialization of the program and its projects, in a first stage more than 5,000 children could benefit, which would be favored in all stages of development of the projects, including the disabled, a similar figure that will increase each year. Joven Club is a referential network of technological centers in the national territory, where boys, girls, adolescents, young people, older adults, women and men, have found a training space in terms of the development of new technologies and where to deploy projects that promote the development of their ideas and perspectives. In addition, it is a place where children's computational thinking is encouraged from an early age. Joven Club's strength is being the source of connection for many of the communities in Cuba, facilitating connectivity to more than 1,150,000 people throughout the national territory, either by Wi-Fi access point or by other forms of access. Due to the foregoing, the "Joven Club Computerizing the Community" program is proposed, in order to: 1. Eliminate the gap that exists between the countryside and the city. 2. Contribute to the formation and creation of a technological and informatics culture in the communities. 3. Create a network of technology centers that make it possible, from an environmental perspective, to provide computer and connectivity services in the communities. 4. Make it possible for more and more children, adolescents and young people to have access to technologies, placing greater emphasis on women and girls. In this way, more connectivity services can be provided to the population, greater capacities to deploy personal projects in rural communities, encourage the use of new technologies in the Productive Poles, with the goal of linking agriculture with technology to achieve with the sustainable development goals of the ONU 2030.

Website: https://www.jovenclub.cu/

Target Beneficiary Groups: YOUTH, WOMN, DISB, RURL

Sustainable Description: The project requires an initial investment for the purchase of equipment, accessories and parts. Provision should be made in the Joven Club Expenditure budget to finance the sustainability of the project, as well as the care and maintenance of the resources that the technical teams of each entity will be responsible for.

WSIS Values Promotion: With this project it will be possible to bring information and communications technology to a large population in rural communities. Therefore, these population groups would benefit from access to renewable energy, which will allow them to train in virtual and distance courses offered by the Youth Club, access the connection and its benefits. By reducing the gap between the countryside and the city, young people will also be able to develop their intellectual capacities according to current technological development.

WSIS Action Lines: 2, 6, ENV, 8

SDGs: SDG5, SDG10

Stakeholder Type: Academia

Country, Region: Cuba, Latin America and the Caribbean



Construction of the 2030 Digital Agenda

After two decades of executing short-term strategies that did not achieve the expected results and under the effects of a pandemic that posed new challenges, the Dominican Republic set about formulating a national digital transformation strategy that was long-term and built with the active participation of society, including community organizations from the different regions of the country, using a collaborative platform donated by the IDB. During the process of construction and consensus of the 2030 Digital Agenda, more than 200 public and private organizations participated, as well as 1,015 people in person and virtually from different parts of the country.

Website: https://agendadigital.gob.do/

Target Beneficiary Groups: YOUTH, OLDP, WOMN, INDG, DISB, UNEMP, POOR, MIGR, REFG, RURL

Replicable Description: This project is replicable in any developing nation that decides to build a national consensus strategy to close the digital divide and produce social inclusion through the use of technologies.

Sustainable Description: The fact that the private sector, civil society and academia have joined the public sector to formulate objectives, lines of action, indicators, initiatives and short, medium and long-term goals to elaborate the Digital Agenda 2030; they ensure its sustainability beyond a government period since it consists of a country-strategy.

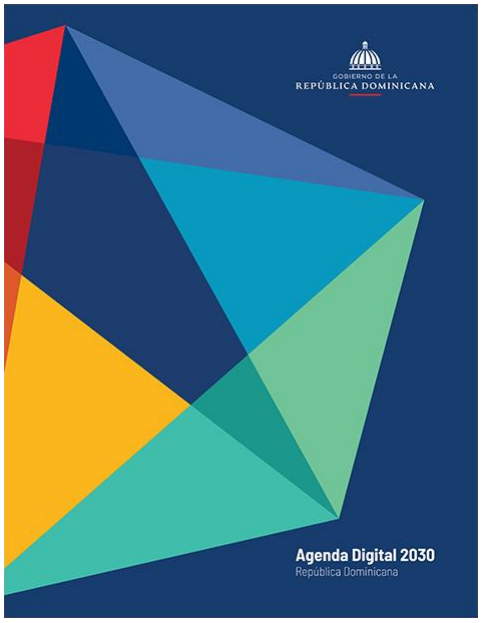
WSIS Values Promotion: The collaborative way in which the 2030 Digital Agenda was elaborated, with the participation of the different actors that make up Dominican society, contributes to empowering them and sharing the responsibility of building an Information Society that provides equal opportunities to all, where it is respected the environment and the rights of every citizen.

WSIS Action Lines: 1, 6

SDGs: SDG1, SDG3, SDG4, SDG5, SDG8, SDG9, SDG10, SDG16, SDG17

Stakeholder Type: Government

Country, Region: Dominican Republic, Latin America and the Caribbean



Social tariff for mobile voice and data for beneficiaries of human development transfers

Close to 1 million families are in the poorest quintiles in Ecuador, and that means they are under the poverty and extreme poverty line. Most of these people belong to the Human Development Group (HDG), and they receive conditional cash transfers between $ 50 USD and $ 100 USD to improve their live conditions. Currently, 35% of these families own at least one mobile phone. On the one hand, consumption in voice or data traffic service as a percentage of the income of an average subscriber is around 5% to 8%, but for people who are in the HDG group that have mobile phone, this percentage is between 18% to 25%. Therefore, the project consists in establishing and promoting reduced tariffs to mobiles services (voice and data) from stakeholders to HDG group with the objective of balancing the conditions with those groups and an average user. In general, that mechanism will be able to allow a saving of up to 70% in voice services and 89% in data for this vulnerable group.

Website: http://www.arcotel.gob.ec/proyecto-de-tarifas-sociales/

Target Beneficiary Groups: WOMN, INDG, DISB, POOR, RURL

Replicable Description: This project can be replicable in any part of the region or the world. First, there must be an information baseline for people who are below the poverty line and that information must be shared with the mobile operators, so they can focus the benefit of preferential tariffs only to groups that the service is not affordable. Secondly, the next step is to bring content to the people of the human development group (HDG) that they can access in order to aid in the education of themselves, seeking information, improving the sales process of their products, and so on. Finally, there must be the commitment and social responsibility of the operators in promoting regulatory action through offers that allow the potential subscriber of the HDG group an easy acquisition of the service.

Sustainable Description: This project is sustainable because it is focused on the purchasing power of the families that belong to the Human Development Group (HDG) to access voice or mobile data services. On the one hand, the State contributes conditional cash transfers to the families to this vulnerable group, and also generates the conditions of affordability through the mechanism of social tariffs so that they can access the service through the packages that offer mobile operators in conditions that guarantee a minimum capacity for their communication as an average user.

WSIS Values Promotion: This project promotes two main WSIS values: freedom and equality. The first one is related to the women empowerment through the use of technology because most of the head of household of the families that belong to the Human Development Group (HDG) are women and they are in the rural regions. And, on the other hand, it promotes equity through the promotion of affordability to telecommunications services for both the average user and the subscribers who belong to the poorest quintiles.

WSIS Action Lines: 1, 6

SDGs: SDG1, SDG5, SDG8, SDG10, SDG16

Stakeholder Type: Government

Country, Region: Ecuador, Latin America and the Caribbean



Kampung Penggerak Literasi TIK Madiun (Madiun Village ITC Empowerment)

Information and Communication Technology Literacy Driving Village (Kartika) is a facilitation program, campaign and education on the use of information and communication technology implemented by KIM Pangongangan Madiun City with full support from the Pangongangan sub-district and other mobilizing communities. The form of activity consists of facilitating umkm to go online, making photos of residents' business products, digitizing education space and the residents' economy. Kartika is also a common room study and joint campaign about the safe use of ICT. Meanwhile, joint campaigns and outreach are carried out in the form of expos/exhibitions, bazaars and creative shows. This activity involves educational institutions, government, private sector, mass media and community/society. In the joint campaign and outreach, the social and economic potential of the people in the Pangongangan village is shown and campaigns for the optimal use of ICT. Kartika does not involve KIM members, but also PKK, UMKM, LKMK and Karang Taruna. KIM Pandan Arum had great hopes that it could be more optimal in educating the use of ICT to the general public, in addition to carrying out its routine activities as a citizen journalist.

Website: http://kartika.medhiun.id

Target Beneficiary Groups: YOUTH, OLDP, WOMN, DISB, UNEMP, POOR, MIGR, REFG

Replicable Description: Yes. This program can be imitated because it is very easy and simple.

Sustainable Description: Yes, it is. In addition to providing assistance in the digitalization of community businesses, learning and joint campaigns in the ICT field which is simple, easy and free, Kartika's continuation will be developed into an open and inclusive learning system in the community. Among them: 1. Providing digital service facilitation for the community that can be accessed by anyone down to the smallest community institutional level 2. Providing promotional and educational digitization services in the ICT field 3. Develop training of trainer services through training by residents who have difficulty understanding ICT. 4. Adding ICT learning methods and types as well as ICT campaign methods in the community.

WSIS Values Promotion: Kartika is local paradigma to activities for freedom,, solidarity, tolerance and shared responsibility to all people in term of "Quality Life"

WSIS Action Lines: 3, 4, 6, 10

SDGs: SDG3, SDG4, SDG5, SDG8, SDG11, SDG16

Stakeholder Type: Civil Society

Country, Region: Indonesia, Asia and Pacific



BAKTI Impact Adventures

Remote and underdeveloped regions in Indonesia offers abundant of potential tourist attractions, particularly its natural landscape and local culture and products. Tourism sector is one of the key sectors contributing to foreign currency earnings and job creation in Indonesia. In addition to this, as pointed out by UNWTO, tourism sector engages a high share of youth and women (54% of the workforce) making it crucial sector that could contribute to women empowerment. Though COVID19 pandemic hits this sector hard, however, BAKTI KOMINFO views this as an opportunity to promote and build a resilient tourism sector that benefits the remote and underdeveloped areas using ICT. BAKTI KOMINFO implemented several interventions since 2019 to assist the local communities and tourism business actors through complementary activities, which included two main pillars: - Promotion and inclusion of community-based tourism businesses to online tourism platform and marketplace. Approximately ~200 local wisdom-based tourism packages are marketed, and 500 inventories of local tourism businesses are exhibited in digital platform for tourism. - Capacity building for tourism actors and stakeholders, which included training for tourism actors to develop and sell attractive virtual tour packages and foreign language (English) training. A total of 250 people received this training producing more than 200 tour packages. In a relatively short period of time, this program has managed to achieve tangible results for the program beneficiaries. Several local tour operators and guides as training recipients have been able to apply their newly obtained skills and knowledge in creating virtual tour products and receive income from the sales and rental of the virtual tour packages. In addition to this, the program also resulted other positive effects, in which the beneficiaries found motivation and confidence to creatively develop attractive virtual tour products and disseminate their knowledge to the youth in their own communities.

Website: https://www.impactadventures.travel/

Target Beneficiary Groups: YOUTH, OLDP, WOMN, INDG, UNEMP, POOR, RURL

Replicable Description: This program has demonstrated effectiveness using the right strategy and approach under the conditions and characteristics of the target population in the remote and underdeveloped areas in Indonesia. This approach led to successful program outcomes. First, the program ensures that utilization of ICT should not become an additional burden for the program beneficiaries. Hence, the program provided simple methods and techniques for photo and video editing using existing gadgets that the participants own. This has greatly facilitated the learning process. Second, the program transferred the novel yet valuable knowledge and skills to the participants on how to build a product that is attractive for the market using demand-driven approach. This resulted to the production of virtual tour packages that are marketable for both domestic and international market. Aside from the technical knowledge, the program also equipped the participants with foreign language (English) training that greatly boost their confidence in creating the virtual tour packages and readiness in welcoming foreign tourists. Third, BAKTI KOMINFO connected the program with its market as well national priority program by the Government. Recognizing the potential market of adventure tourism that appeals to international tourists, BAKTI KOMINFO collaborated with the Ministry of Foreign Affairs and Embassies to tap into the international market. Furthermore, BAKTI KOMINFO also aligned the program with the national program and priority areas under the National Ministry of Tourism and Creative Economy. The approaches and strategies that this program has taken could offer valuable insights for other stakeholders who want to replicate the program particularly for disadvantaged communities. Overall, the program has managed to put the right pieces altogether to achieve good results within a relatively short period of program implementation.

Sustainable Description: As tourism become one of the Government of Indonesia's priority sectors for economic recovery and rebuilding, the Government has allocated sufficient budget for infrastructure development particularly in remote and underdeveloped regions to ensure inclusive development. The National Ministry of Tourism and Creative Economy had issued its five-year plan and priority through Ministry of Tourism and Creative Economy Regulation No. 12/2020, and simultaneously launched a national program for tourism recovery, namely Super Priority Destination (Destinasi Super Prioritas). BAKTI KOMINFO supported this national priority through the inclusion of remote and underdeveloped areas within the Super Priority Destinations, creating a concerted effort in ensuring that no one is left behind. The collaboration with the National Ministry of Tourism and Creative Economy also ensures sustainability of the results as the Ministry continues to promote tourism in the areas of intervention and connect them to potential domestic and international tourists as well as their own program through local tourism services. After the first year of program implementation, BAKTI KOMINFO also learned that delivering skills training to program beneficiaries would not be enough to ensure full participation and impact. Another key factor of sustainability is related the program beneficiaries targeting. BAKTI KOMINFO aims to ensure that the communities in remote and underdeveloped areas are not left behind and hence priority was given to the community-based businesses. For example, instead of merely engaging big tour operators to develop tour packages for them, the program really targeted local businesses such as local tour guides. At the same time, they learned the importance of preserving their environment and tourist attractions to enjoy a long-lasting benefit for them and for their communities and became the local sustainable tourism champions.

WSIS Values Promotion: Ensuring that remote and underdeveloped regions experience economic growth that benefits all its community members is a crucial goal in sustainable development. Tourism in remote and underdeveloped regions held enormous potential that could deliver equitable distribution of benefits to communities, contributing to poverty eradication and social development. Under this pandemic situation, however, innovative strategy is needed to act as an enabler of growth via tourism promotion and development for tourism business actors in the remote and underdeveloped regions. This program leverages ICTs as the innovative strategy that allows the local tourism businesses to survive and thrive under a global pandemic that hits tourism sector hard. Focusing on impact adventures and community-based tourism development that highlights and preserve local wisdoms and cultures, the program is aligned with not only the future of tourism as well as national and international development agenda. The Government of Indonesia via the Ministry of Tourism and Creative Economy have set up a national agenda and program to support the tourism sector. BAKTI KOMINFO's tourism initiatives in remote and underdeveloped regions is aligned with the national tourism strategy as well as its tourism destination priority areas, contributing to the following targets: (i) improvement of quality and quantity of human resources in tourism and creative economy, (ii) improvement of contribution of tourism and creative economy to the local economic resilience, and (iii) improvement of competitiveness of national tourism destinations. As a result, the program has managed to achieve tangible results within a relatively short period of time, for example increasing the income of local tourism business through the development of virtual tours. This success demonstrates the possibility in advancing sustainable development when a program that leverage ICT is designed appropriately to the local context and bring benefit directly to the micro and small enterprises.

WSIS Action Lines: 1, 3, 4, 5, 6, 11

SDGs: SDG1, SDG4, SDG8, SDG15

Stakeholder Type: Government

Country, Region: Indonesia, Asia and Pacific











Gerakan Nasional 1000 Startup Digital (National Movement of 1000 Digital Startup)

Gerakan Nasional 1000 Startup Digital is a program initiated in 2016 by the Indonesian Ministry of Communication and Informatics that provides opportunities for digital technology entrepreneurship to all regions of Indonesia. This program is a collective effort by the Indonesian digital startup ecosystem drivers to take part in initiating change to build connections, share knowledge, and experiences. This movement aims to create digital-based startups with young people as the key drivers. This program is divided into 3 focuses. The first focus is to encourage the creation of digital solutions for local problems. Participants will receive coaching/mentoring through a series of activities starting from Ignition, Workshop, Hacksprint, Bootcamp, to Incubation in order to improve the entrepreneurial mindset and quality of newly formed startups, and make their products an asset to join the accelerator program at the upcoming level. The second focus is to have a higher priority to develop talent in quality digital startups. Participants can enrich their entrepreneurial mindset and develop technical skills in the field of technology and digital startups, and gain knowledge about startups through our content, such as Cakap Startup, Sekolah Beta, and Rintisan Books. The third focus is to build a collaborative and inclusive digital startup ecosystem. Therefore, startups that formed through this program can continue to become sustainable businesses. Since its launch in 2016, this program has captured 100k+ potential startup founders and produced 1,400+ startups. This program also involved 400+ mentors and 300+ local activists from various industrial sectors. Through this program, we have succeeded in coaching early-stage startups so that the startups can achieve product-market fit and earn revenue as well as funding.

Website: https://1000startupdigital.id

Target Beneficiary Groups: YOUTH

Replicable Description: This program encourages the development of a digital startup ecosystem with 3 main focuses on providing digital technology-based entrepreneurial opportunities to all regions of Indonesia. This program provides guidance for all Indonesian people from the early stage to being able to create an idea/solution that is product market fit based on digital technology. Gerakan Nasional 1000 Startup Digital begins with the Ignition stage, which is a seminar that enables startup players from all over Indonesia and regulators from related industries to build common understanding and goals in adopting the latest technology that can support the development of innovative and sustainable digital startups. In addition to the Ignition stage, this program also includes 4 stages, namely Workshop, Hacksprint, Bootcamp and Hatch! All the activities will guide the participants to develop and execute ideas, build teams, test products to accelerate startups so they can have a real impact and provide solutions to digital problems. Moreover, participants will get connections with co-founders and experienced mentors in startups, industry, academia and government. Up to this point, the program has been implemented in 17 hubs in Indonesia covering 34 provinces. The program curriculum is structured systematically, so it can be adapted to the conditions of the problems and potential that exist in the region. For the future, we plan that this program can be implemented independently and replicated in each region and the existing curriculum can be developed according to the needs in the region.

Sustainable Description: This program is called Ecosystem Connect. Implementing pentahelix, this program integrates various stakeholders as a step towards building a collaborative, inclusive, and sustainable digital startup ecosystem. We adopt the pentahelix collaboration which integrates stakeholders (academicians, business, community, government and media) to achieve this goal. Through Ecosystem Connect, discussions are held between cross-stakeholders, specifically the central government, regional governments, related

agencies, universities, high schools, communities, incubators, startups, and the media. This is intended to gather information on initiatives and programs that have been implemented by the government, academics, and local ecosystem players to build a digital technology-based startup ecosystem in the area. This program also discussed current obstacles for each stakeholder, solutions that currently exist in the region, as well as mapping regional potentials that can be developed to strengthen the digital startup ecosystem and technology-based entrepreneurship both on the talent side, resources, policies, to access to capital and other opportunities. This activity invites all stakeholders in the ecosystem to be connected to each other so that they can collaborate and synergize for the development of a sustainable startup ecosystem in the future. Thus, early-stage startups will gain coaching support from the digital ecosystem in their regions to grow and go extra miles according to their problems. From the beneficiary side, the community will get real solutions to their problems, they can increase the efficiency and productivity of life. This program will gradually increase economic growth driven by increasing e-commerce transactions and increasing new jobs.

WSIS Values Promotion: Gerakan Nasional 1000 Startup Digital helps improve the quality and skills of digital talent and create technology-based startups to build a digital economy and support digital transformation in Indonesia by adapting the pentahelix collaboration model. We invite various stakeholders to collaborate in adopting the latest technology that can support the development of innovative and sustainable digital startups. Collaboration between stakeholders could revive the digital startup ecosystem in the region. They will be able to map the existing potential in their regions to find ideas or solutions to a problem by utilizing digital technology.

WSIS Action Lines: 1, 3, 4, 6, EMP

SDGs: SDG4, SDG8

Stakeholder Type: Government

Country, Region: Indonesia, Asia and Pacific



Electronic appeals

The lack of the unified database for storing of all appeals of state authorities complicated the processes of consideration of appeals and did not allow for the supervision of proper execution. In order to minimize violations of the rights and interests of citizens while considering appeals, to streamline and improve the efficiency of the work of government in this direction, the work on the project “Electronic appeals” has begun. Electronic appeals is a single platform of citizens' appeals, which is created for monitoring, analysis, identification of systemic problems of citizens. In this project it is planned to apply the technology "text mining" (intellectual analysis of texts of appeals), which will reduce the time of consideration of appeals. For citizens there will be a convenient and fast process of submission of an appeal as in the system templates of an appeal submission will be developed. The advantage for government will be the optimization of the appeal consideration process (appeals will be distributed according to the competence of state authorities), control of consideration of applications, the possibility of analysis of socio-economic nature to develop appropriate measures.

Website: https://qamqor.gov.kz/portal/page/portal/POPageGroup/Services/Euol

Target Beneficiary Groups: YOUTH, OLDP, WOMN, DISB, UNEMP, POOR, REFG, RURL

Replicable Description: The project is available throughout the country, where there is an internet connection.

Sustainable Description: The project is multifunctional and can be improved according to new technologies.

WSIS Values Promotion: The WSIS competition gives an opportunity to present our project for the whole world and winning is acknowledged as the highest achievement in our country.

WSIS Action Lines: 6

SDGs: SDG3, SDG7, SDG8, SDG9, SDG10, SDG11, SDG16

Stakeholder Type: Government

Country, Region: Kazakhstan, Asia and Pacific



ELECTRONIC PASS REGISTRY AGRORUQSAT

Mission and main goal: Providing the population with food in the context of restrictive government measures aimed at countering the spread of COVID-19In 2020 most countries have enforced severe restrictions on movement, social contact, and access to public spaces across the board to limit the spread of COVID-19. However, restrictive measures also affected farmers and other agribusiness entities that provide the population with food and foodstuffs. Thus, in April 2020, the President of the Republic of Kazakhstan K.K. Tokayev was instructed to ensure the unhindered crossing of quarantine zones for farmers and other agribusiness entities. In this regard, the IAC in a short time developed and launched the electronic service AGRORUQSAT, which allows farmers to form an application for a pass online, while the service automatically verifies the data on the applicant from about 15 state databases, information on the pass is automatically transferred to the checkpoints. The introduction of the service made it possible to avoid direct contact between farmers and government agencies, eliminated the need to travel to administrative centers and provide paper documents, thereby eliminating the risk of the spread of COVID-19. Since 2020, 230,374 passes have been issued, of which 184,914 for farmers, 45,460 for other agribusiness entities, 149,809 passes for vehicles and agricultural machinery have also been issued.

Website: https://ruqsat.qoldau.kz/

Target Beneficiary Groups: RURL

Replicable Description: The coronavirus pandemic that humanity faces in 2020 will not be the last. This was stated by the Director General of the World Health Organization (WHO) Tedros Ghebreyesus in a video message timed to coincide with the International Day of Anti-Epidemic Preparedness, celebrated on December 27. Thus, the use of the principles of building this project and its implementation goals will be relevant in the future. At the same time, the project can be expanded by using it by subjects of other countries or replicating the implementation experience with the advisory support of team members and partners. According to our estimates, the introduction of such services will increase the efficiency and precision of measures to combat pandemics.

Sustainable Description: The high degree of sustainability of the project is determined by the following factors: 1. Proactive GOVERNMENT POLICY on digitalization of industries 2. Sustainable PARTNERSHIPS with internationally recognized partners (Transtelecom Airbus, Vander Sat, DTN, Swiss re, Syngenta, etc.). 3. INTEGRATION with 20+ systems and databases (Ministries of Justice, Finance, Agriculture, Internal Affairs, National Bank, second-tier banks, etc.). 4. EFFECTIVE WORKED TEAM of architects, analysts and developers with experience in creating and developing more than 4 digital platforms for the ministries of finance and agriculture, the National Bank. The operator of the AGRORUQSAT project is JSC IAC, established in 1993 as a financial institution with 100% state participation and is a single operator in the field of state property. It should be noted that the AGRORUQSAT project is implemented on the digital platform for business Qoldau.kz, while the platform itself has no analogues in the world in terms of the totality and variety of implemented projects in the G&B and B&B format.

WSIS Values Promotion: The project as a whole is unique in its kind: the project offers the society unprecedented principles, methods and technologies for breakthrough and sustainable development of agriculture at levels that meet modern requirements. The constant consistent development of the project attracts many professionals and technocrats from all spheres of society development: (science, politics, economics, etc.) and key sectors: industry, IT-industry, education, agriculture, etc. Effective interaction of interested professional partners has a multiplier effect on the development of society as a whole: on the one hand, it stimulates

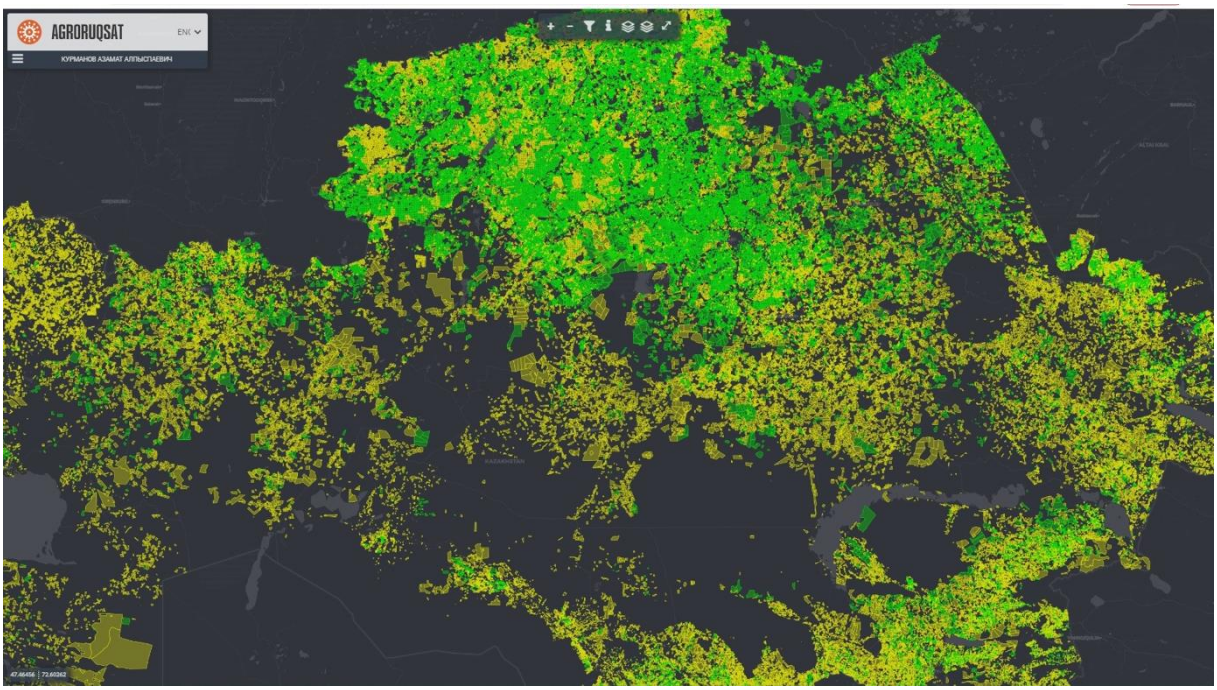
and encourages the development of lagging industries and spheres, and on the other hand, it poses “challenges” for partners for transformation and movement forward. It should also be noted that the strategy for the development of agriculture has changed under the influence of the further development of the digital land monitoring project. However, we believe that in order to achieve the highest goals of society's development, it is important to mobilize all available resources, for which key representatives of government (national and local), civil society and other key figures (actors) should interact in the community.

WSIS Action Lines: 6

SDGs: SDG2, SDG3, SDG16

Stakeholder Type: Government

Country, Region: Kazakhstan, Asia and Pacific



MOBIGIRLZ: Empowerment of Young Women in ICT

MobiGirlz is an initiative by eMobilis Mobile technology Academy that targets young women in marginalized areas/ slums as well as underprivileged women in universities that are passionate about technology. We focus on redressing the gender imbalance in Africa's tech industry by encouraging, empowering and offering scholarships to support these young women which introduces and up-skills more female technology talent while providing women access to tech opportunities and jobs. We achieve this through: • Training young women • Mentoring young women • Community Participation in Women in Tech Activities and events • Offering financial Scholarships to bright deserving young women • Promoting top female students, industry high achievers and working with them to inspire more women into tech • Inviting lead female developers to give talks, to share real life experience in the tech profession and networking. Our core mission is to enhance and increase the participation of women in the tech Industry, uplifting their innovations and talents in the industry, and exposing them to opportunities at an early age to benefit from the Tech Space and future of work. For the longest period, the tech space has been male dominated with women taking up a mere 28% of the representation. We encourage young women to venture into the STEM field in order to achieve digital gender equality.

Website: https://www.emobilis.ac.ke/mobigirlz

Target Beneficiary Groups: YOUTH, WOMN

WSIS Values Promotion: The project supports young women in tech, contributes to growth in the tech industry through inclusion of talented women, and improves livelihoods of women.

WSIS Action Lines: 4, 6

SDGs: SDG5, SDG8, SDG16

Stakeholder Type: Academia

Country, Region: Kenya, Africa

Integrated Legal Information Management System

Integrated Legal Information Management System (i-AGC) is an electronic legal records management system, an initiative by Attorney General's Chambers to improve operational efficiency and user productivity in handling government's legal processes by intergrading with National Registration Department (JPN) and Public Service Department Malaysia (JPA). i-AGC aim to promote non-stacking functionality, eliminate redundant work and digitalized legal processes from creating legal cases' file until the cases are settled. Besides that, i-AGC also include managerial functionality such as applying for training, oversea holiday and work from home.i-AGC is a web based system which can be accessed by Federal Government and Local Authorities' lawyers from anywhere, anytime and on any devices including smartphone and tablets securely. i-AGC is located at AGC's green data centre and provides a free access to Federal Government and Local Authorities' lawyers. i-AGC is currently the only centralised law records management system in Malaysia that is implemented on 2017 and until today it has a total of 8,146 registered users, 251,216 documents uploaded and 4.7 million transactions.i-AGC manages to create substantial values for the Government and its users as it increase Government's productivity, provide an accountability legal record management environment and in line with Malaysia Public Sector Digitization Strategic Plan (PSPSA) 2021-2025; to drive the Sustainable Digital Government agenda towards shaping a digital society. The system also serve as decision-making tools in giving law opinions as previous case opinions are captured in a central repository which are easily retrieved.

Website: https://i.agc.gov.my

Target Beneficiary Groups: WOMN, INDG, DISB, RURL

Replicable Description: i-AGC is using a centralized registry for legal records management that eliminate duplication of records, reduce storage space for physical file and consume less paper. Since i-AGC also cater for AGC's cadre that is based at other agency; therefore, agency that wishes to implement i-AGC do not needs to install any software or configure their desktop. This is because the system can be login using user's official AGC email and password. Hence, there will not be any problem for other agency to replicate.

Sustainable Description: To increase the sustainability of the project, great efforts are taken to continuing enhance the system to stay relevant to the current legal trend. Currently, the system is using MySQL enterprise edition for database and Microsoft SharePoint for document sharing environment that is supported by reliable vendors. For the security measure of the system, Security Posture Assessment (SPA) is being carried out yearly by reliable vendors in line with Malaysia Government ICT Security Protocols. i-AGC usage is monitored by presenting the findings in top management's meeting twice a year. AGC division that has low usage will be advise by the top management to utilize the system. With the keen efforts from top management, this helps to sustain the viable of the system. Other than that, files uploaded into i-AGC consist of classified and non-classified documents; therefore, it is crucial to sustain this project.

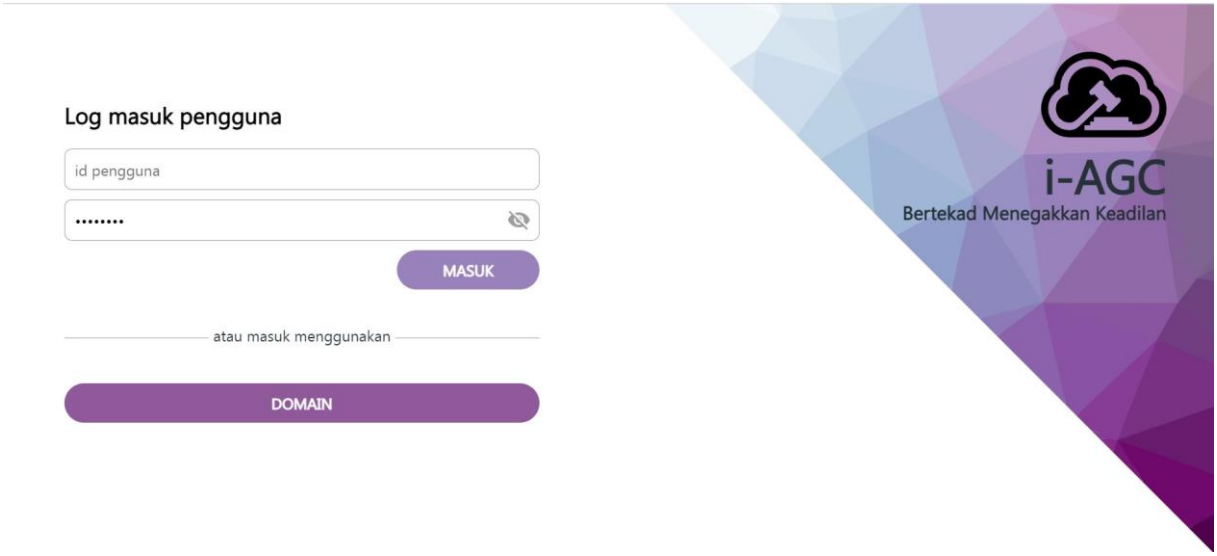
WSIS Values Promotion: The community of users for i-AGC consist of Federal Government and Local Authorities's lawyers who uses the system for their daily work routine. Champions are appointed from every division in AGC and states where they are equipped with training on how to use the system and assisting the users when they have any queries. For those who can not attend the trainig, video recording of the training is provided for them to learn at their own space. Besides that, Champions also act as an enabler to aid in change management processes at their work location. Therefore, i-AGC Champions need to be appointed for the system to run smoothly in the user community. To date, there are at lease one (1) Champion in every AGC's division and states.

WSIS Action Lines: 6

SDGs: SDG8

Stakeholder Type: Government

Country, Region: Malaysia, Asia and Pacific



eNovadoras

eNovadoras, a program launched by AT&T in 2022 whose main objective is to support women-led technological entrepreneurship. eNovadoras aims to promote the participation of women and close the gender gap in the entrepreneurial ecosystem in Mexico, providing them with training, access to a network of women leaders and seed capital to take their businesses to the next level. The program started with an open call for women leaders of technological entrepreneurships in Mexico. Those interested submitted their application online. These submissions were reviewed by a group of experts from AT&T. As a result, 15 finalists were chosen to participate in the eNovadoras Bootcamp, a learning and networking experience designed just for them. eNovadoras bootcamp offered the participants knowledge and tools so that their enterprises can be successful and relevant, causing a positive impact. The work plan was scheduled to be carried out during the weekends through a live broadcast. Workshops and follow-up sessions were also provided on weekdays depending on the different needs of the proposals. Through this bootcamp the participants received training in useful tools and methodologies for the process of creating a proposal that integrates technology, innovation and sustainable business models. At the end of the bootcamp, the entrepreneurs presented their projects at an investment panel, where 10 of them were chosen to receive a seed capital of $10,000 dollars each. AT&T team is following up on the implementation of the entrepreneurs' investment projects providing them with technological support and mentoring.

Website: https://enovadoras.mx/

Target Beneficiary Groups: WOMN

Replicable Description: The program is 100% replicable. Our goal is to make at least 5 editions, one per year benefiting at least 100 women entrepreneurs in Mexico.

WSIS Values Promotion: eNovadoras promotes equity by closing the gender gap in technology and entrepreneurship in Mexico. It also promotes freedom and economic empowerment for women providing them with tools, training and funding to have successful and impactful entrepreneurships. It promotes solidarity and sorority by encouraging the creation of networks of relevant contacts of other entrepreneurs and experts of different sectors.

WSIS Action Lines: 4, 6

SDGs: SDG5, SDG8

Stakeholder Type: Private Sector

Country, Region: Mexico, Latin America and the Caribbean



Report on the Terms and Conditions applicable to Users in the use of Platforms of E-Commerce

The Report on terms and conditions applicable to users in the use of e-commerce platforms, aims to make transparent and inform users about the terms and conditions to which they are subject when using or transacting through such platforms, as well as providing recommendations and advice to facilitate informed decision-making. The above, in order to promote the informed, responsible and safe use of digital services, as well as to contribute with actions to the program to promote trust in the digital ecosystem, secure access to the Internet and confidence in carrying out operations on electronic commerce platforms.

Website: https://www.ift.org.mx/usuarios-y-audiencias/tercer-informe-de-privacidad-de-la-informacion-de-los-usuarios-en-el-uso-de-servicios-digitales

Target Beneficiary Groups: YOUTH, OLDP, WOMN, DISB, RURL

Replicable Description: It is considered that this report can be replicated by other Member States of the Union, since for the preparation of this report the terms and conditions were considered, as well as the privacy policies published on the Internet pages of some of the digital platforms that enable the provision of e-commerce services. Therefore, the information they should have to carry out the analysis is public. Likewise, this report may serve as a basis to take into account the variables identified for the preparation of the report.

Sustainable Description: The preparation of this report is considered to be sustainable, since the information can be consulted online, therefore, the preparation is entirely in digital format, no paper is used, all content is developed virtually and is available in the cloud.

WSIS Values Promotion: This Project contributes to the follow-up of the actions undertaken to promote the culture of cybersecurity, the informed and responsible use of internet access, as well as digital services. Likewise, the Report aims to make transparent and make available the content of the privacy policies, so it does not constitute an assessment or qualification of these or the terms and conditions. In addition, it promotes the informed, responsible and safe use of digital services and contributes to the Program to Promote Trust in the Digital Ecosystem implemented by the Federal Telecommunications Institute.

WSIS Action Lines: 3, 5, 6

SDGs: SDG9, SDG16

Stakeholder Type: Government

Country, Region: Mexico, Latin America and the Caribbean



Empowering lives in prisons through Information and Communication Technologies

Technology Empowerment for Education, Employment, Entrepreneurs and Economic Development (Tech4ED) is a program of the Department of Information and Communications Technology (DICT) aimed to harness ICT resources and opportunities to bridge digital divide and alleviate poverty in unserved and underserved communities in the Philippines through establishment of facilities called Tech4ED Centers. Among its objectives is bringing ICT closer to every Filipino by reaching out to vulnerable sectors like Persons Deprived of Liberty (PDL). With an evident social and economic marginalization felt in prisons, it is in these trying times that it has become essential for PDL to be given opportunities and renewed sense of purpose. In the promotion of universal education equality and freedom, integration of ICT services and learning have proven to become a powerful tool in the creation of an inclusive society regardless of people's social or legal circumstances. With these realities, DICT Region IV established 10 Tech4ED Centers packaged with computers/laptops across the CALABARZON and MIMAROPA Regions from 2016 in partnership with Bureau of Jail Management and Penology (BJMP) and has revamped inclusivity in prisons thus bridging the social, digital and education divide by giving access to ICT opportunities for Alternative Learning System and online selling of livelihood products, currently serving 3,352 inmates from the existing centers. ICT-enabled services were also made available to inmates such as e-Dalaw or virtual visitations, Tele-Hearing of Cases, e-Legal Consultations, Tele-Psychology and Tele-Medicine. Promoting grassroot development for inclusive growth and poverty reduction, Tech4ED Centers in prisons made it possible and convenient for persons behind bars to access wide range of ICT services despite their isolation including the sustained provision of ICT skill trainings that ensures PDL are equipped and prepared for their return to society while enabling their smooth transition from incarceration to freedom.

Website: https://dict.gov.ph/

Target Beneficiary Groups: UNEMP, RURL

Replicable Description: The establishment of Tech4ED Centers by the DICT in partnership with Bureau of Jail Management and Penology (BJMP) is a national digital inclusion initiative to execute the provision of access to ICT-enabled services for the Persons Deprived of Liberty by providing them with digital means of promoting growth and development. Empowering lives in prisons through Information and Communication Technologies can be replicated by more institutions considering the current statistics of 470 jails in the Philippines housing a total of 131,311 Persons Deprived of Liberty per BJMP Actual Jail Population Data as of September 30, 2022.

Sustainable Description: The forged partnerships of the Department of Information and Communications Technology with other institutions and agencies towards igniting the bridging of digital divide with the establishment of Tech4ED Centers and learning opportunities in partnership with the Bureau of Jail Management and Penology (BJMP) have made it possible to provide programs for Persons Deprived of Liberty (PDL) and take into account their welfare and development despite their prohibited conditions. These BJMP Tech4ED Centers provided an innovative approach to the functions of the Bureau by ensuring the continuity and sustainability of the project being taken part by a dedicated center manager, for the maintenance and up keeping of the ICT equipment within each center as well as the ability of assisting and conducting of trainings for the PDL in ICT Literacy. With the continued expansion of service delivery by the Tech4ED Program of the DICT, more centers in jails are eyed to be launched and sustained following the present initiatives and developing more for improvement and greater impact.

WSIS Values Promotion: The project is enjoined by the WSIS' declared principle of Building the Information Society in the new millennium. Working on the DICT Tech4ED's commitment of building an inclusive and developing Information Society, the project envisions an environment empowered by ICT with priority on vulnerable and underprivileged sectors like the Persons Deprived of Liberty. Aimed at bridging the digital divide, we promote e-literacy, education and trainings for everyone to gain access, utilize and share information and knowledge to achieve their full potential while promoting everyone's sustainable development and improving the quality of life for every Filipino. Upholding the vision of enabling individuals, communities and people to be part of an information society for all, lifelong learning is promoted by equipping the inmates with timely and relevant digital skills which is rooted from the foreseen termination of detainees' service of sentence and their much awaited re-entry into the society. The project promotes inclusive societies for sustainable development and provides access to justice for all, regardless of gender or background, in building effective, accountable and inclusive institutions to create confidence and security through the use of ICT resources for development.

WSIS Action Lines: 1, 4, 6

SDGs: SDG8, SDG10, SDG11

Stakeholder Type: Government

Country, Region: Philippines, Asia and Pacific



Cybersecurity Labelling Scheme

The proliferation of "smart" devices has resulted in increasing security concerns due to the lack of cybersecurity provisions. On the other hand, general consumers have no easy means to determine the security provisions of IoT devices and therefore manufacturers are not incentivised or motivated to invest in the security of such devices. The Cybersecurity Labelling Scheme (CLS) is the world's first multi-levelled rating scheme for consumer Internet-of-Things (IoT) Devices. By making cybersecurity provisions transparent and providing indication of the level of security in IoT devices, the CLS empowers consumers to make informed purchasing decisions while incentivising manufacturers with competitive branding to develop more secure products to differentiate themselves from competitors. The CLS also improves international market access and eliminate trade barriers by facilitating Mutual Recognition Arrangements (MRAs), thereby eradicating duplicated testing and reducing cost of compliance across national boundaries. The CLS has received over 300 applications. Today, consumers have access to more than 200 CLS labelled products (across Wi-Fi Routers, Smart Home Hubs, Smart Lighting, Smart Home Appliances, IP Cameras, etc.) with better cybersecurity provisions, and more labelled products becoming available. The CLS is currently mutually recognised with Finland and Germany, and more MRAs discussions with other nations and organisations are on-going. These has enhanced the reach and richness of the IoT eco-system, and garnered global efforts to build a safer and more secure IoT eco-system. Beyond raising the hygiene level of consumer IoT devices, CLS' agile modality governance has been instrumental in transforming mindsets, steering industry towards being proactive and more sustainable, and getting consumer to be ready for our digital future. Overall, CLS helps to raise cybersecurity, harmonise standards, and change mindset, to foster an enabling environment for our digital future.

Website: https://www.csa.gov.sg/Programmes/certification-and-labelling-schemes/cybersecurity-labelling-scheme/about-cls

Replicable Description: The CLS helps to reduce the attack surfaces by eradicating common flaws and mistakes in IoT, raise cybersecurity hygiene, and create a safe and more secure cyberspace. It brings about the following benefits: • Safeguarding Citizens: Providing transparency in consumer IoT's cybersecurity provisions, transforming mindsets, and enabling consumers to make informed purchasing decisions. • Fostering a Cybersecurity-conscious Industry: Incentivising manufacturers through branding to differentiate their product from competition, inculcating a more proactive attitude. • Growing Digital Economy: Reduce cost of compliance and facilitate market access through MRAs. The CLS is designed with internationally acceptable standards as a basis. CLS Level 1 and 2 leverage standards such as the ETSI EN 303645 and NIST 8259. The set of CLS publication is available on the CSA website. The framework of the CLS itself is formalised into the Singapore Technical Reference 91 (TR 91). A Universal Cybersecurity Labelling Framework (UCLF) has also been approved for development under NP/ISO27404, agnostic of whether a binary or multi-level scheme, to serve as a common labelling requirement reference to integrate and harmonise standards, to facilitate interoperability and compatibility for mutual recognition globally. Importantly, beyond raising the hygiene level of consumer IoT devices, CLS has been instrumental in changing mindsets both in the industry and for the consumer. In the industry, it moves away from the developer-centric, complained focus approach towards an inherently proactive and more sustainable ecosystem where developers are incentivised to develop more secure products. For the consumer, CLS is helping consumer to gain better awareness of cyber risks, and to imbue in themselves a cybersecurity consciousness upfront to be ready for our digital future.

Sustainable Description: The CLS and the supporting framework are regularly reviewed to ensure their relevance. As the CLS framework will be formalised into an ISO/IEC standard, it follows the periodic review cycle. Similarly, the international standards that support CLS, the EN 303 645 and NIST 8259, undergo periodic reviews. Internally, CSA reviews and updates the baseline framework of CLS to ensure its relevance to technology development and threat landscape. For instance, the minimum test specifications are constantly updated by incorporating feedbacks from the approved testing laboratories to ensure the specifications remain relevant and adequate to test devices against prevalent threats. The CLS' sustainability is further accentuated by its following attributes: Agile Governance for Emerging Technology. CLS modality of agile governance, enables it to be flexible and dynamic to set a low entry barrier while progressively nudge developers towards achieving higher security requirements. This is achieved through a sustainable approach by stimulating demand from consumers through awareness, education, and transparency (through CLS), which in turn incentivise developers to proactive develop more secure products, keeping in pace with advancement of technology, through competitive branding and market dynamics. Facilitate International Mutual Recognition. The CLS actively seeks out like-minded partners for mutual recognition to improve market access and reduce cost of compliance and testing across national boundaries. These improvements will address key woes highlighted by the industry and help grow the digital economy. Cultivate a Sustainable Industry. By empowering consumers to make more informed purchasing decisions to suit their cybersecurity needs, providing branding to incentivise manufacturers to develop more secure product, and facilitating mutual recognition to reduce cost of compliance and reducing barriers to market, CLS cultivates a proactive mindset in the industry for long term sustainability.

WSIS Values Promotion: CLS endeavours to promote WSIS' values of freedom, equality, solidarity, tolerance, and shared responsibility. CLS builds confidence and security in the use of technology devices, through shared responsibility between consumers and device manufacturers. CLS encourages businesses and device developers to consider security as part of their device design and encourages consumers to make informed decision when selecting a secure smart device for their daily needs. The collaborative approach enables the creation of an enabling environment for a thriving secure digital ecosystem. Strike balance between Innovation and Security. The CLS enables a delicate balance of raising cyber hygiene while continuing to encourage innovation and advent of new products. In this way, regulators need not stifle innovation; but over time, progressively nudge the market towards higher security requirements based on factors such as market demand, product readiness, and technology maturity. Cultivate a Proactive Industry. The scheme is flexible, combining the attributes of self-declaration and third-party independent assessment. It can be light weight, low cost and scalable for basic cyber hygiene to allow easy onboarding, while offering the opportunity to progress towards higher assurance for stronger branding. This design is a paradigm shift from the traditional developer-centric, compliant focused approach. Changing Consumer mindsets. With now a spectrum of labelled products in the markets, we are beginning to refocus our efforts on the consumer through a plethora of activities in the social media, campaigns and public roadshows, and news and media, to raise awareness and educate our consumers on the CLS and importance of cybersecurity. Unlike in the physical world, our populace has cultivated the safety habits like locking the house, zipping up the wallets, we cannot take for granted that the populace knows how to safeguard themselves in the digital world.

WSIS Action Lines: 2, 5, 6, 11

SDGs: SDG8, SDG9, SDG10, SDG11

Stakeholder Type: Government

Country, Region: Singapore, Asia and Pacific



Implementation of a National Central Equipment Identification Register

The parallel market of ICT devices, counterfeiting and theft have become a growing problem with serious economic and social consequences. In Tunisia, the illegal importation of mobile phones and tablets makes up 60 percent of the mobile phone market, costing the legitimate importers considerable lost sales and the government about 10 million TND tax revenue losses in addition to a significant number of direct and indirect lost jobs. Due to scale of the negative impacts to the mobile ecosystem, the Tunisian government decided to put in a place a proper regulatory and technical framework that can serve as an excellent foundation to controlling the proliferation of counterfeit, illegal, non-compliant & stolen devices. The Centre d'Etudes et de Recherche des Télécommunications (CERT), together with the cooperation of the Ministry of Communication Technologies, developed and implemented a technology-based system, known as SAJALNI (the equivalent to register me in Arabic), to enforce regulations. SAJALNI is a National Central Equipment Identity Register that enables identification, registration and control of devices connecting to the nation's mobile networks. It is a decision support tool for citizens, which provides the status of mobile device (new, used, and rejected) by simply dialing the USSD code. The main benefits of the system are:- Avoid illegal importation of ICT devices-Fight against stolen ICT mobile devices-Limit the use of non-compliant phones-Protect the economy and generate additional tax revenue-Protect consumer safety-Ensure a good quality of service to consumers-Protect the national frequency spectrum A public awareness campaign was launched on 16th December 2020 targeting importers, distributors, traders, and customers to ensure that all the ecosystem is aware of this new regulation and ready to register mobile. Different communication channels: SMS mesages, TV, Radio, etc.

Website: https://sajalni.tn

Target Beneficiary Groups: YOUTH, OLDP, WOMN, DISB, UNEMP, POOR, MIGR, REFG, RURL

Replicable Description: Governments and industries are in need to deploy solutions to solve the issue of counterfeit and stolen ICT devices more widely in countries across the world to ensure one country's illegal devices do not simply relocate to another country lacking proper solution. Every country is indeed at risk and the problem needs to be addressed globally. SAJALNI is convenient for all stakeholders and can be adapted to local country regulations without the need for any customization efforts. SAJALNI is a technology-based system that allows the control of mobile terminals market, combating counterfeit and stolen ICT devices. The integration of the GSMA database into the system SAJALNI is an important step in the fight against counterfeit and illicitly traded mobile devices, and in addressing the problem globally. CERT is actively involved in the technical work of ITU-T Study Group 11 Question 15 (Q15/11) "Combating counterfeit and stolen ICT equipment" which currently focuses on the preparation of two Technical Reports ;Guidelines on Best Practice and Solutions for Combating Counterfeit ICT Devices (TR-BR_CF); and a report on use of anti-counterfeiting technical solutions relying on unique and persistent mobile device identifiers (TR-Uni_Id)

Sustainable Description: The project is the fruit of strong sponsorship and close collaboration among stakeholders, who believe that the project will bring positive results in a sustainably way. The sustainability of the project is ensured at economic and social levels: - At economic level, the system SAJALNI will reduce the parallel market, tax evasion and ensure efficient use of a scarce public resource (radio spectrum). It helps legitimate importers to increase sales from eliminating unfair competition, while increases the growth of legal taxation and jobs creation. - At social level, SAJALNI will reduce the threat of crime, helps fight against the theft of mobile devices and strengthens consumer protection by limiting the adverse effects of counterfeit phones on health (excess radiation) and data privacy.

WSIS Values Promotion: SAJALNI promotes WSIS values in the society by using ICT solution to protect consumers and economy from the serious impact of counterfeiting on the ICT market, ranging from lost taxes and other revenue to erosion of brand value, network disruptions and interoperability challenges resulting in poor service delivery; and risks to health, safety and environment. It encourages the use of legal ICT equipment to promote access to information and knowledge to all persons in the society.

WSIS Action Lines: 6

SDGs: SDG8, SDG9, SDG11

Stakeholder Type: Government

Country, Region: Tunisia, Africa



Electronic Mediation System

The Mediation System serves as an alternative, free and transparent solution for disputes before and after the court. Digital Mediation aims to carry out this process completely electronically. In the Mediation System, 3,607,000 files have been created electronically since the system was started to be implemented. 1,716,000 of these files resulted in an agreement without resorting to litigation in civil courts. In addition, between March 2020 and March 2022, when the covid-19 pandemic was intensely felt in our country, 787.985 of 1,609,027 applications were resolved electronically without the parties coming together physically. The e-Mediator Mobile Application used by the mediators and the Mediator Portal, the Citizen Portal and the Lawyer Portal applications used by the parties, work integrated and form the digital pillars of the process. It was made possible for the stakeholders to complete their meetings with the teleconference method, to sign the final minutes document with an electronic signature in the digital environment and to transfer it to the system. Thanks to the Digital Realization of the Mediation System, for all stakeholders involved in the process; positive gains have been achieved in terms of time, energy and economics, as well as factors such as trust in the concept of justice for other segments of the society, awareness of protecting the environment and social peace.

Website: https://wsisbigm.my.canva.site/e-mediation

Replicable Description: It is a project that can be used by any country that wants legal disputes to be resolved at or before the court.

Sustainable Description: It is a sustainable project as it is beneficial for all segments of society in terms of time, energy, economy and environment.

WSIS Values Promotion: The Mediation System operates within the Enabling Environment, which is among the WSIS lines of action. It has become a pioneering project in terms of alternative disputes in WSIS values, thanks to the fact that the project is carried out in a completely digital environment, preventing paper waste, establishing an inclusive and peaceful social order, and strengthening the trust of stakeholders through information and communication technologies. In the mediation process, no entity other than the parties and the mediator has any information about the content of the process. This situation creates the awareness of the parties that their information is stored in a reliable environment while using the system. As a result, WSIS values find a very important response in the society through our project.

WSIS Action Lines: 1, 2, 6, GOV

SDGs: SDG10, SDG16

Stakeholder Type: Government

Country, Region: Turkey,
Western Europe and North America



UAE GeoEnvironment Platform

Objectives- Support and Highlight the UAE status and efforts in achieving sustainable development goals and Conservation natural resources.- Providing technical environment to share with local and global platforms. - Supporting decision-making in implementation of strategic plans, projects and environmental initiatives- Used as future foresight tool in predicting and scenario planning addressing sustainability. Results achieved-More than 250 geographic layers in the specializations of the environment sector - Geoplatform of more than 45 Developed Geoapplications related with environment sector -Among the first countries to share and publish national SDG initiatives on United Nations SDG platform. Impact generated1. achieving UAE Competitiveness indicators globally and regionally and improving the country ranking as below: Global:- Global Climate Risk Index – Ranking 4 - Adequate Protection for nature - Ranking 4 - Satisfaction with Preservation Efforts - Ranking 1 - Food Security and Nutrition- Ranking 7 - Environment Laws - Ranking 7Regional:- Agriculture and land use - Ranking 1 - Clean ocean water- Ranking 1 - Marine protected Area - Ranking 1 - Total Protected Area - Ranking 1- Environment laws - Ranking 12. impact on the high rate of compliance with the legislations.

Website: https://gis.moccae.gov.ae/arcgis/home/

Target Beneficiary Groups: YOUTH, INDG

Sustainable Description: The project is sustainable in a sense that the technical environment is being continuously updated to ensure the up-to date data and best service is provided to all stakeholders. The project has a geodatabase that are constantly updated and new types of data were generated and added. The knowledge transfer is being expanded to the university students and employees to expand the knowledge sharing through training and spread the benefit to a larger community. Data is continuously updated and linkage with other databases, systems and platforms is ongoing to ensure the sustainability of the project. The platform applications are updated and feeded in a way ensures an interactive maps are created along with other applications.

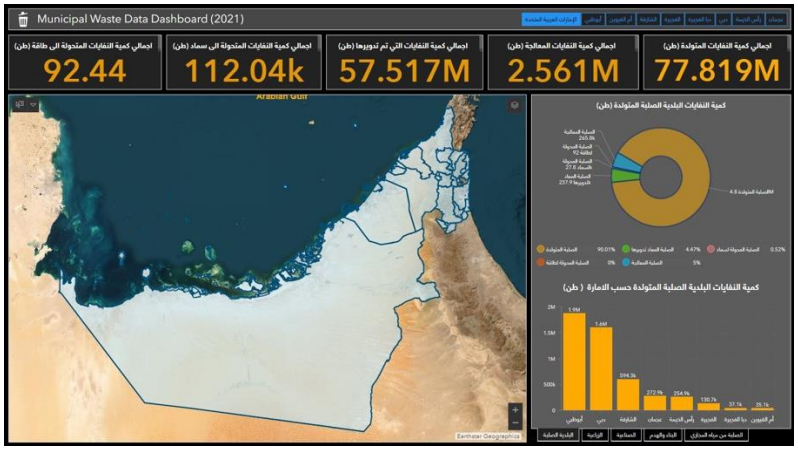
WSIS Values Promotion: By highlighting the importance of spatial data in the development of the environment and sustainability sector and devote additional efforts to develop similar systems to unify efforts and maximize the benefits from such important systems to all stakeholders. Furthermore, the project expanded the scope of environmental data exchange and sharing at the local, regional and global levels.

WSIS Action Lines: 1, 2, 3, 4, 5, 6, GOV, LEA, ENV, AGR

SDGs: SDG2, SDG11, SDG12, SDG13, SDG14, SDG15

Stakeholder Type: Government

Country, Region: United Arab Emirates, Asia and Pacific



ICT PACK

One of the TCRA's strategic objective is to promote efficient and affordable communication services and increase access to postal and ICT services to under-served and un-served areas. In order to fulfill the strategic objective TCRA created a project called ICT Pack, which has been adopted in the subsequent annual action plans and budget. The project aims at facilitating access to ICTs for designated groups such as women, youth and disabled. Since year 2015 TCRA has been conducting the ICT pack project, which involves issuing of ICT facilities such as Computers, printers, specialized computers for the blind and low vision girls students, and provision of Internet services. The project has benefitted more than six thousand (6000) girls students from twenty one (21) schools located in remote areas in Tanzania. Below are some of the results of the ICT Pack project: 1. Girls Students who registered for ICT National Examination have been noted to have good performance in their examinations due to presence of computers for learning. Before having the ICT Pack project the students' performance in ICT subject were not satisfactory in National Examinations. 2. The internet service provided in the project helps teachers to prepare teaching materials from different online sources for students. 3. As the results of having the project many girls students have been encouraged to take the ICT subjects which compelled schools to register them and seat for the National Examination in ICT Subject. Before the project, only few girls students were registering for ICT subject during the National Examinations.

Website: https://www.tcra.go.tz

Target Beneficiary Groups: YOUTH, WOMN, DISB, RURL

Replicable Description: In the year 2015, TCRA conducted phase one of ICT pack project to 16 schools in the country. Following phase one success; in year 2019 TCRA replicated the same project to 5 more schools. Due to TCRA initiative of the ICT pack schools now have planned and budgeted for more computers in order to accommodate more girls students. Some schools have extended the internet services provided in the project to other classrooms through wireless.

Sustainable Description: The project takes into account the remote and rural areas in Tanzania and the youth, particularly girls in those areas in need of ICT tools for achieving better learning outcomes and innovative ideas. Thus, the project is sustainable and is organized on a regular basis.

WSIS Values Promotion: The project contributes to inclusive development by means of ICTs, the youth in remote areas receive ICT facilities such as Computers, printers, specialized computers for the blind and low vision girls students, and provision of Internet services. This creates an environment of confidence in using ICT tools and helps increase the level of education in the country. The outcomes commit to economic growth and sustainable development.

WSIS Action Lines: 1, 2, 3, 6, LEA

SDGs: SDG4, SDG5, SDG16

Stakeholder Type: Government

Country, Region: United Republic of Tanzania, Africa

Incubation Centers at Universities of Uzbekistan

IT Park, it became clear that in Uzbekistan a lot of young guys still do not have clear and specific concepts about what a "startup" is. And to fix this, IT Park decided to start from the roots and pay attention to working not only with established entrepreneurs and large IT companies, but also young and promising guys who also have no less potential to become worthy entrepreneurs and lead large IT companies. Thus, the idea of creating incubation centers that will serve as a platform for the development of technological startup projects of students came to light.

Website: https://it-park.uz/

Target Beneficiary Groups: YOUTH

WSIS Values Promotion: Incubation centers operate in almost all the main universities of the country, giving the opportunity to help young students entrepreneurs who have startup ideas and the desire to implement them. Special attention is also paid to women's entrepreneurship.

WSIS Action Lines: 6

SDGs: SDG4, SDG5

Stakeholder Type: Government

Country, Region: Uzbekistan, Asia and Pacific



WSIS Action Line C7. ICT Applications: e-government

Benayat

The main purpose of this system is to speed up the Building permit issuance through automation and Public Private Partnership and increase the confidence level through Unified building guideline, SLAs and transparency. The Building Permit System is an end-to-end system for a Building Owner to request for a building permit, apply for related permits, obtain address, report construction progress, obtain Utility Service Connections and finally receive a building completion certificate. The system is integrated with GIS mapviewer which includes updated utility infrastructure data to automate validations and support Engineers in decision making. Recently, several services have been added to the system, including online insurance refund service after building completion, the acceptance of building permit applications in multi-land use properties in addition to allowing minor changes to issued building permits to reduce permit resubmissions and increase service quality and efficiency. Benayat has reduced the time for issuing building permits from an average of 115 days to an average of 2.5 working days through automation, PPP and limiting approval entities to minimum, achieved transparency between the government, engineering offices and the property owner, through the published guidelines, communication and providing information on building permit requirements before the submission of a building permit.

Website: https://www.benayat.bh/building-permits/index

Replicable Description: the project can be applied in other countries for re-engineering and redesigning their building permit process with innovative solutions implemented within this project.

Sustainable Description: To ensure sustainability of the project, the government had set several procedures to ensure the sustainability of the project, including the monitoring of the performance and KPI on a regular basis at high level of the government, the development and continuous enhancement of the live services based on the principles of the project (transparency, quality, fast delivery of service, once only data policy, Public Private Partnership) ensuring continuous communication with stakeholders to get feedback on the services. In addition, building regulations are periodically updated with regulations to support flexibility and promote innovation based on the latest building technologies in the world. Technically, Benayat System has been developed as a modular structure considering the need for future scalability and extensibility. Groups of modules were initially developed and then integrated to produce the Building Permit System. The application is designed in such a way as to easily adapt to external service modules and data components in the future. The project has led to the development of some reusable components that can be very easily integrated within other applications, as well as to replicate projects of similar nature.

WSIS Values Promotion: Benayat project not only ensures transparency where building regulations are published online. Equality is promoted on several levels where the property owner selects the engineering office responsible for submitting the request and applicant has the freedom to select the applicable reviewing engineering office to verify the building permit compliance. Green building regulations where also published in Benayat to encourage green building practices. In addition, Netmetering service application is also available in Benayat to encourage the uptake of renewable energy in the kingdom of Bahrain and connect to the electricity grid to benefit from any extra energy in the connected renewable energy sources.

WSIS Action Lines: GOV, ENV

SDGs: SDG9, SDG11

Stakeholder Type: Government

Country, Region: Bahrain, Asia and Pacific

بنايات

BENAYAT

نظام اصدار رخص البناء

BUILDING PERMIT PORTAL

Express service for establishing administrative documents remotely

The project consists of offering an express service for establishing administrative documents (birth certificate, criminal record, nationality certificate, marriage certificate, etc.) remotely. This is to offer an official source for ordering administrative documents with an online ordering service. Anyone residing in Burkina Faso or abroad can benefit from the service by requesting their administrative document via a platform designed for this purpose and accessible by their PC or Smartphone. The information that is transmitted to the post office via the platform allows it to contact a town hall or a courthouse to have the administrative document drawn up as quickly as possible. The customer is notified by SMS as soon as the document is available to pick up at a postal agency that he will have previously specified when ordering. Agreements have been signed with these different partners. This project allows the customer to save time and money. In addition, with this security crisis which makes travel difficult or even impossible in certain localities, this project undoubtedly allows these populations to obtain administrative documents.

Website: http://www.idocs.gov.bf

Target Beneficiary Groups: YOUTH, OLDP, WOMN, INDG, DISB, UNEMP, POOR, MIGR, REFG, RURL

Replicable Description: This project is carried out in many areas such as health, the improvement of financial capacity, the expansion of electronic means of payment.

Sustainable Description: This project is sustainable given the mobility of people, the galloping demography, the repetitive need for documents, the desire to save money and save time.

WSIS Values Promotion: This project enables the implementation of application-based (platform) e-government strategies aimed at innovation and promoting transparency. It facilitates access to all, including vulnerable people, to electronic administration services.

WSIS Action Lines: 1, GOV

SDGs: SDG1, SDG5, SDG10, SDG12, SDG16

Stakeholder Type: Government

Country, Region: Burkina Faso, Africa



Single Window for Foreign Investment in Cuba

The project focuses its actions on the development of the Digital Single Window Platform for Foreign Investment in Cuba as an instrument for facilitation, revitalization of information exchange, reduction of time and transparency. With its operation, internal obstacles are eliminated, betting on management modes where simplification, standardization and automation of processes and standards predominate. The fundamental objectives of VUINEX are to provide information and advice on foreign investment, promote business opportunities, and facilitate the constitution of foreign investment modalities, the carrying out of its investment processes and the processing of permits, licenses and authorizations. Its implementation constitutes an indirect incentive to foreign investment, since it will allow expediting the permits, licenses and authorizations required by businesses with foreign capital. It allows foreign and national investors residing abroad to consult and manage via the web what refers to the permits of foreign investment modalities. The greatest impact is its 24-hour availability via the Internet, speeding up and simplifying information flows between potential investors and the diversity of government entities and companies involved in the process. It will affect the competitiveness of the country's economy with agile, easy and safe processes that make Foreign Direct Investment viable. It provides benefits such as effective technical assistance, quality and security of information, legal certainty, reduction of time and costs.

Website: https://vuinex.mincex.gob.cu/

Replicable Description: The platform can be used by any entity that needs to automate its foreign investment process or any type of process with small changes.

Sustainable Description: This project is sustainable. Foreign investment is a process that is carried out in all countries, mainly in sectors that promote sustainable development.

WSIS Values Promotion: The project helps with the use of ICT to boost the process of foreign investment that catalyzes the country's economy, creates jobs, products and services.

WSIS Action Lines: 1, 2, 4, GOV, BUS, 11

SDGs: SDG8, SDG9, SDG10, SDG17

Stakeholder Type: Academia

Country, Region: Cuba, Latin America and the Caribbean



Universidad de las Ciencias Informáticas

Online Registration of Marriages

This is an application towards providing speedy services to the citizens for Marriage Registration. This shall enable greater mobility of registrars as the site may be accessed from any location using Internet facilities from any ISP. Computerisation of the process of registration of marriages necessitates the need to preserve data in electronic form and aid that the incumbents get a fair trial in the event of any dispute arising out of the marriage, viz.(i) Polygamy / Polyandry, (ii) Legal separation/ Nullity,(iii) Grant of citizenship,(iv) Restrict child Marriage,(v) Other legal and social angles

Website: https://rgmwb.gov.in/

Target Beneficiary Groups: YOUTH, WOMN, POOR, RURL

WSIS Values Promotion: Residential address of any one of the parties (husband/ wife, as the case may be) can be changed to another's address by virtue of marriage registration certificate. Registration of marriages in digital mode can restrict Polygamy / Polyandry. Marriage registration certificate can be used for Legal separation/ Nullity, Grant of citizenship, Restrict child Marriage, Determination of successor to some extent.

WSIS Action Lines: 3, GOV

SDGs: SDG5, SDG10, SDG16

Stakeholder Type: Government

Country, Region: India, Asia and Pacific



AuditOnline : Facilitating Audit in Government

An audit is an integral part of accounting henceforth AuditOnline, a cross-disciplinary and open-source software (OSS) having a metadata-based framework, instigated as a part of the e-panchayat Mission Mode Project (MMP) under the Ministry of Panchayati Raj (MoPR). AuditOnline facilitates Internal/External financial, and/or for funds(s) allotment based audits to certify the accounts of the government's last granular level entity, not limited to this it also maintains past audit records to ensure good governance and reliability. It is a configurable quintessential application in all expected, administrative obligations and then goes above and beyond our reckoning to aid our Panchayati Raj Institutions (PRIs), the last foothold of governance presence (Panchayati raj System of India as per 73rd Constitutional Amendment Act), our finance commissions, and our government's mission to get the last-mile panchayat account audited and resting it for the public cognizance. AuditOnline exigency caters to the monitoring gap when huge amounts of funds are devolved by the government, and it becomes critical to handle a diversity of geographically distinguished locations for the same before remitting more funds thus scalable and can be entrusted for improvised transparency and accountability. AuditOnline is an efficacy that connects different government institutions/departments (Auditors) with 2.6 lacs + panchayats/equivalent and departments (Auditee) at national level.

Website: https://auditonline.gov.in/

Target Beneficiary Groups: RURL

Replicable Description: Auditonline is a multi-tenant solution designed to be highly configurable, making the application perform the way we want with our varied stakeholders of the nation. Its modular architectural design allows the application to be scalable (vertical & Horizontal) and interoperable while handling different business rules and logic for different state's guidelines. Its scalable architecture allows the application to run with its different instances in different locations for different users or with a single instance for multiple users.

Sustainable Description: Auditonline has been developed using the latest open-source technology, the software development process was done responsibly utilizing ecological, human, and financial constraints. The system's technology and its implementation are at most sustainable with minimized environmental impact and well-managed knowledge. Auditonline modular approach has allowed us to configure the system for different users in no time and as per their specific requirements, moreover, if there is any need to change the configured system then also it takes no time after impact analysis to get the changes done. The efficient algorithms, agile practices, optimization activities, and continuous quality assessment based on feedback have helped us and shall allow us to retain sustainability for a longer period.

WSIS Values Promotion: Mission Statement: Facilitation of online audit process for accountability and ensuring effective utilization of financial and other resources with compliance of norms. AuditOnline is envisaged to serve as the cornerstone of government entities that are geographically distributed in urban to rural remote places across the Nation. The configurable and modular approach in AuditOnline widens the scope of sustainability. It is earmarked to offset the monitoring gaps between Ministry/Government institutions and the audited unit and helps certify the entity by executing an audit process on its provisional accounts to assure compliance, and transparency thus keeping up with citizens' right to information and ensuring quality life. AuditOnline safeguards information and its exchange with role-based access and any authentic stakeholder may extract data in a standard downloadable format for their perusal.

WSIS Action Lines: 5, 6, GOV

SDGs: SDG8, SDG16

Stakeholder Type: Government

Country, Region: India, Asia and Pacific



The National Public Service Complaints and Management System – the People's Online Aspiration and Complaint Service

The National Public Service Complaints and Management System – the People's Online Aspiration and Complaint Service or SP4N-LAPOR! is a service for conveying all the aspirations and complaints of the Indonesians. This project is aimed to manage complaints from the public in a simple, fast, precise, thorough and well-coordinated, providing access for public participation in submitting complaints and improving the quality of public services. SP4N-LAPOR! can be accessed through several ways – website, SMS 1708, twitter and mobile applications. As of now, SP4N-LAPOR! has been connected with 34 Ministries, 100 government agencies, and 490 local governments in Indonesia. Until 30th November 2022, 747.924 complaints have been reported by the citizen through SP4N-LAPOR! With the very high traffic of complaints and aspirations submitted by the public, this can be the way to simplify the interaction between the citizens and the government. Hence, the government can evaluate their public services so this may lead to the enhancement of the quality of the public services.

Website: https://www.lapor.go.id/

Target Beneficiary Groups: YOUTH, OLDP, WOMN, INDG, DISB, UNEMP, POOR, MIGR, REFG, RURL

Replicable Description: This application is a generic application that can be used by all governmental offices in Indonesia. So, all of the governmental offices can have the same quality, integrated and centralized reporting services. And this also support the "no wrong door policy" so the public's complaints and aspirations will be responded and handled by the authorized institutions.

Sustainable Description: SP4N-LAPOR! is aimed to realize the "no wrong door policy" which guarantees the public right on freedom to speak. Therefore, any type of complaints and aspirations from anywhere can be submitted to SP4N-LAPOR! and will be responded and handled by the authorized institutions. The sustainability of this project is validated with the Indonesian government's policy by establishing the 2020-2024 National Public Service Complaint Management System Road Map to illustrate the initial conditions and expected conditions as well as the stages in implementing a public service complaint management system. Furthermore, some regulations underlying this project to ensure the sustainability of its implementation, i.e; o Law of The Republic of Indonesia Number 14 of 2008 on Disclosure of Public Information o Law of The Republic of Indonesia Number 37 of 2008 on Ombudsman o Law of The Republic of Indonesia Number 25 of 2009 on Public Services o Regulation of Government of the Republic of Indonesia Number 61 of 2010 on Implementation of Law on Transparency in Public Information o Regulation of Government of the Republic of Indonesia Number 96 of 2012 on Implementation of the Public Services Act o Presidential Regulation Number 76 of 2013 on National Public Service Complaint Management o The Ministry of State Apparatus Utilization and Bureaucratic Reform Regulation Number 24 of 2014 on Guidelines for Implementing National Public Service Complaint o The Ministry of State Apparatus Utilization and Bureaucratic Reform Regulation Number 3 of 2015 on the National Public Service Complaint Management System Roadmap.

WSIS Values Promotion: This project ensures citizen's freedom of speech and equal rights to express their aspirations and complaints about public services based on their situation. Furthermore, with the existence of a one stop complaint platform, there is an assurance that citizen's aspirations and complaints will be delivered to authorities to be solved. Not to mention, SP4N-LAPOR! also supports other WSIS values such as tolerance, solidarity and respect for nature because essentially all walks of life in Indonesia can express their

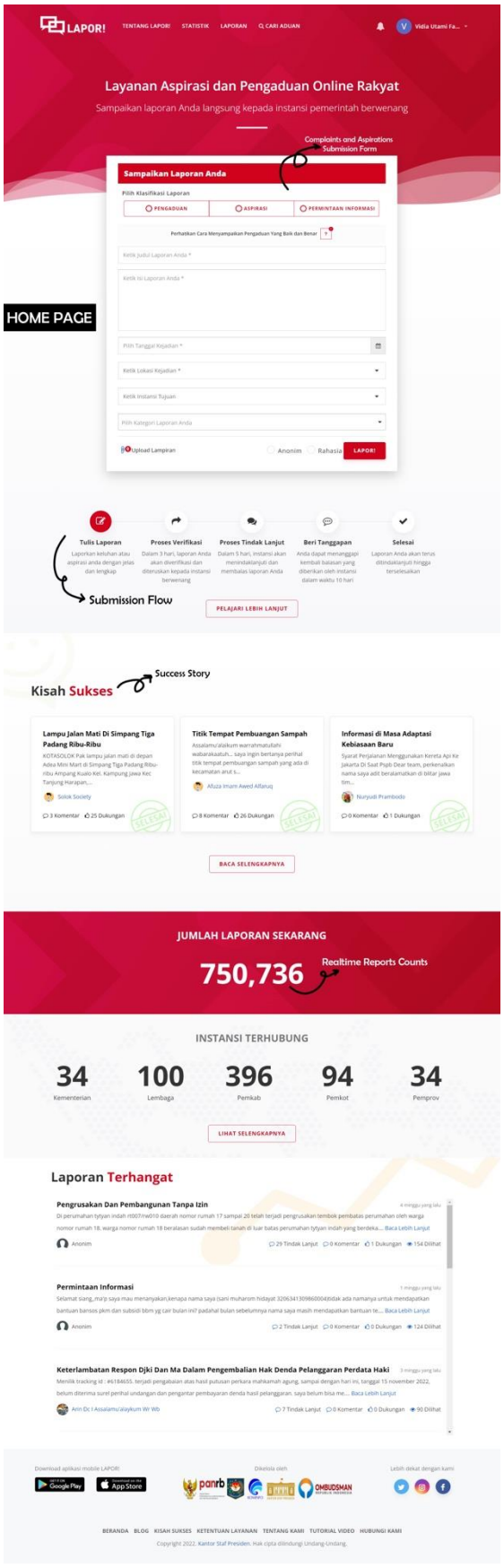
complaints and aspirations related to intolerance, threat and environmental damage using this application. Hence, those problems will be conveyed to the right institution so it can be solved.

WSIS Action Lines: GOV

SDGs: SDG10, SDG11, SDG16

Stakeholder Type: Government

Country, Region: Indonesia, Asia and Pacific



National window of smart government services

The national window of smart government services is launched by Information Technology Organization of Iran (ITO) with the aim of providing integrated electronic government services to all citizens (G2C services) on the platform of the national information network. This system act as an SSO system; Therefore, its most important advantage and added value for citizens is to receive governmental services in an "integrated", "quick" and "easy" way. The most outstanding feature of this system is to verify the identity of people by using global standard mechanisms. The most important features of this system are: • Facilitate of receiving governmental services and increasing the speed of access to services by citizens. • Providing integrated electronic governmental services on the secure platform of the National Information Network. (NIN) • The possibility of entering the system in two ways, receiving a one-time password (OTP) or scanning a QR Code using the Mobile Government application. • The possibility of receiving all governmental services in a single system directly (entering via SSO to other governmental systems).• Authentication of users in a safe and reliable way using global standard mechanisms • Fast access to the user's selected and frequently used services in this portal, while complying with the upstream laws and regulations in the field of information technology, while maintaining the confidentiality and privacy of users, all smart governmental services are provided to citizens with three levels of authentication, including "Inquiry of identity items", "Photo matching authentication" and "Digital signature".

Website: https://my.gov.ir

Replicable Description: Firstly the project covers the most important organizations and governmental bodies and then it replicate to the others.

Sustainable Description: Since this project saves the time and cost and provides accountability, it is internally sustainable.

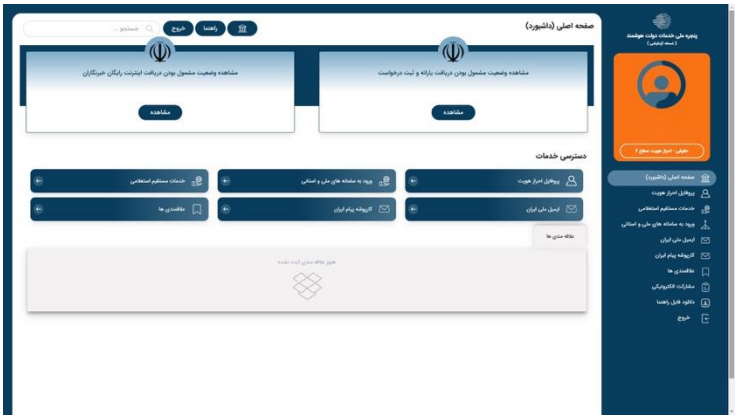
WSIS Values Promotion: Providing e-services to all inhabitant of the country and deploying ICTs use in their life is one of the main goals of WSIS. This national project provides similar opportunities to the entire of the country and reduce digital divides. Through this project all the governmental instructions will be integrated, and the information is shared between them ranging from government agencies to public institutions. The project also improves the accountability of the government as service provider to the people of the country.

WSIS Action Lines: GOV

SDGs: SDG9, SDG10, SDG11

Stakeholder Type: Government

Country, Region: Iran (Islamic Republic of), Asia and Pacific



Electronic criminal case

In the Republic of Kazakhstan special attention is paid to the introduction of digitalization in the activities of law enforcement agencies. In 2017 the project “Electronic criminal case” was launched on the basis of the information system “Unified register of pre-trial investigations”. The project covers all stages of the criminal process in electronic format: registration, accounting, investigation, referral of criminal cases to the court, sentencing. The availability of criminal materials online completely eliminates the interaction between the participants of the criminal process, which reduces the risks of falsification and loss of criminal cases.This project has great social importance, because it ensures the transparency of the criminal process, guarantees the completeness and reliability of the materials of the criminal case and the maximum protection of the rights of citizens in the criminal process, which in the future will serve to increase citizens’ confidence in the government.

Website: https://public.pravstat.kz/

Target Beneficiary Groups: YOUTH, OLDP, WOMN, DISB, UNEMP, POOR, REFG, RURL

Replicable Description: The ECC is available for all participants of the criminal case.

Sustainable Description: The project is universal, multifunctional and can be improved according to new technologies.

WSIS Values Promotion: The WSIS competition gives an opportunity to present our project for the whole world and winning is acknowledged as the highest achievement in our country.

WSIS Action Lines: 5, GOV

SDGs: SDG3, SDG7, SDG9, SDG10, SDG11, SDG16, SDG17

Stakeholder Type: Government

Country, Region: Kazakhstan, Asia and Pacific



National Security Enhancement through the Post - Foreigners Presence & Services Application

Lebanon counts 4 Million Lebanese and over 2 Million foreigners and refugees. The General Directorate of General Security (GDGS) that is in charge of foreign presence census in the country, which is particularly important given the regional turmoil, partnered with LibanPost to better serve foreigners through its national network of postal offices with extended opening hours, and through its variety of other touch points, as well as its large distribution force. The "Foreigners' Presence & Services Application", that was developed in-house for the GDGS, allows for the renewal of the foreigners' residency permits, other formalities' completion, and for the establishment of an accurate database. This computer-guided retail application was complemented with a state of the art distribution module encompassing GPS coordinates on handhelds. A completely linked monitoring system was put in place for tracking undesirable events. Quality assurance reports were generated with push notifications to highlight any deviation from agreed upon SLAs. In 2018, handhelds were further updated to capture fingerprints using the latest bio-metrics technology, a reliable and accurate identity verification method. LibanPost positioned itself as the intermediary counter between citizens and public entities, hence contributing to better serve citizens, contain corruption and reform administration through business process re-engineering.

Website: https://www.libanpost.com/english/annual-residence-permit

Target Beneficiary Groups: MIGR, REFG

Replicable Description: This type of project has been replicated with other ministries in Lebanon. LibanPost now offers over 70 types of formalities on behalf of public entities.

Sustainable Description: When LibanPost partners with a public entity, it accompanies its changes. The residency permit application was upgraded by LibanPost to align with the ministry's new requirements for international compliance. The Project has been ongoing since year 2000, albeit with a short interruption during the upgrade phase.

WSIS Values Promotion: By serving Lebanese citizens, foreigners and refugees alike, LibanPost demonstrated once more through its "Foreigners' Presence and Services" project, its commitment to service equality, to solidarity and tolerance, while preserving people's dignity. The staff was trained on the importance of human rights and personal privacy.

WSIS Action Lines: GOV

SDGs: SDG16

Stakeholder Type: Private Sector

Country, Region: Lebanon, Asia and Pacific



MyDOFGiS (MALAYSIAN DOF GEOSPATIAL INTEGRATED SYSTEM)

The DOF and MYSA has taken the initiative to develop the GIS Web-based system using remote sensing and GIS. The development began in 2018. The system has been developed in-house using internal expertise, facilities, and existing ICT infrastructure. Therefore, its development does not imply additional costs to the government. It has contributed to the development of skills and expertise of the agency's internal workforce. The specific goal of the project is to meet Biosecurity requirements to export ornamental fish abroad including to the European Union (EU) and other countries. The idea behind this system arose from the initiative taken in completing the CAR audit DG (SANTE)/ 2015-7562 on 09th March-17th March 2015 on Malaysia to assess animal health control in aquaculture farms by simplifies and strengthens the planning, management and monitoring of fisheries activities. This can contribute to improving the standard of living and socioeconomics of the farming community and further drive the country's fish industry to be more viable. The system deserves to be awarded the WORLD SUMMIT ON THE INFORMATION SOCIETY PRIZES 2023 because it has successfully helped facilitate the planning, management and monitoring in Malaysia through system innovation developed in a blue ocean strategy. The system has achieved one of the objectives of the National Agro-Food Policy (DAN) 2011-2020, to increase the income of agricultural entrepreneurs. The focus on modernization of the agricultural sector translated into the National Agro-Food Policy (DAN) 2.0 and ministry programs under the Twelfth Malaysia Plan (RMK-12), can be achieved through the application of Industrial Revolution 4.0 (IR4.0), the Internet of Things (IoT) and Big Data. Focus was given to research and development (R&D) based on IR4.0 technology to increase productivity and agricultural yields, such as smart systems for unmanned machinery. Year 2022, DOF and MYSA agreed to expand to 3 mains scope including inland, coastal and marine zones.

Website: https://biodofmap.mysa.gov.my/

Replicable Description: The applied research (GIS web-based system) is replicable as the research findings by these researchers and technial fisheries officers (independent group of researchers) can copy the same process and arrive at the same results as the original study. Hence, establishing its validity. The research study is replicable (or repeatable) as the entire research process is conducted again, using the same methods but new data, and still yields the same results. This shows that the results of the original study are reliable. These geospatial web services support visualization, analysis, data access and replication. Key GIS services include Mapping, Query, Location, Network Analysis, Editing, Geoprocessing and Imaging. These services run on clusters, can access data from local caches, and can be scaled out by growing the cluster.

Sustainable Description: The applied research (GIS web-based system) project is sustainable when defects can be corrected, it is able to meet new requirements, future maintenance is made easier, and it can cope with the changing environment. The project is sustainable in the terms of where it is broadly used to indicate programs, initiatives and actions aimed at the preservation of a particular resource. However, it actually refers to four distinct areas: human, social, economic and environmental, which is also known as the four pillars of sustainability. One of the best ways to be more sustainable is to be more efficient. Web-based applications used to be very limited in functionality. However, advances in technology, security, and internet speeds have greatly increased the potential scope of GIS web-based systems.

WSIS Values Promotion: The WSIS is a two phase UN Conference that defined the issues, policies and frameworks to tackle the Information and Communication technologies to foster development. Through GIS, DOF can show many different kinds of data on one map, such as

streets, buildings, and vegetation. This enables people to more easily see, analyze, and understand patterns and relationships. Networks are chaotic and constantly changing. People and organizations plug in and out as they see value. By developing GIS web-based system, we can begin the work of building community. For example, Programs for community health must include community evaluation through data gathering. Public health experts are ignorant, underprepared, and may create health initiatives that are possibly useless and irrelevant without conducting a proper assessment of a community's needs and assets. Various tools are used to gather community data, from ethnographic observations to key informant interviews and surveys. John Snow used maps to identify the origin of the London cholera outbreak more than a century ago. Snow produced outbreak maps using the information he had about the community's residents' health, linking it to their locations on a map to eventually identify the epidemic's origin. GIS are used to highlight community assets and depict spatial is a tool that can collect, organize, retrieve, analyze, and display data in relation to place. McLafferty and Grady investigated the geographic distribution of free urban community clinics that provide services for women's health and GIS showed significant disparities in racial/ethnic groups' access to healthcare. Community clinics redistributed their resources to reach a larger portion of the local population after the information was spread. This project promote of WSIS values in the community by bringing value to others in the community development network, especially the fisheries industry stakeholders, farmers, breeders and fishermen in Malaysia.

WSIS Action Lines: 1, 3, 4, 5, GOV, LEA, EMP, ENV, SCI

SDGs: SDG1, SDG2, SDG6, SDG8, SDG12, SDG14, SDG15, SDG16

Stakeholder Type: Government

Country, Region: Malaysia, Asia and Pacific

Tribunal for Consumer Claims Malaysia

The objectives of the TCCM is to provide an alternative forum to civil courts for consumers to claim redress in respect of any goods and services purchased in a convenience, fast manner and at a minimal cost; to hear and determine claims in an independent and just manner; and to develop the law on consumer protection. The Tribunal has jurisdiction to hear claim for redress for the purchase of goods or services permitted under the jurisdiction of the Tribunal as provided under Act 599; a claim where the total amount does not exceed RM50,000.00; and a claim which accrues within three years of the claim. For the period from 2016 to February 2022, TCCM has successfully handled a total of 30643 consumer claim filings involving a claim value of RM 169,640,893.95 and the value of awards in the form of money obtained by consumers is as much as RM43,440,606.04 as well as other awards that are not in the form of money. A total of 27860 (90.9%) of the 30643 cases filed have been successfully resolved by the TCCM for the period 2016 to February 2022Before the establishment of TCCM, all disputes between consumers and traders, suppliers or manufacturers of goods or service providers had to be brought to civil court which involved complicated, high cost and time-consuming procedures. But, with TCCM, users can obtain justice through an efficient system without having to be physically present. In line with TCCM's objective to facilitate users to make compensation claims easily and quickly.

Website: https://ttpm.kpdnhep.gov.my

Replicable Description: TCCM is replicable to claim project such as tribunal for home buyer claims because they are using similar business process flow.

Sustainable Description: This project is sustainable because it can provides an alternative channel other than the civil court for consumers to claim compensation regarding the purchase of goods or services supplied from traders or service providers in an easy, cheap and fast way.

WSIS Values Promotion: TCCM serves to hear and adjudicate consumer claims made under the act and subject to the provisions of the consumer protection act 1999 (act 599), independently, fairly, easy, cheap and fast way.

WSIS Action Lines: 1, GOV

SDGs: SDG16

Stakeholder Type: Government

Country, Region: Malaysia, Asia and Pacific



Tax Stamp

The digital tax stamp on Excise products is a monitoring program, which is implemented by the Tax Authority. It is imposed on the manufacturers of excise products and parties involved in order to promote compliance with international standards in the import and trade of these goods in the Sultanate of Oman. The Digital tax stamp Certify™ system allows to put customized digital stamps on certain products to monitor and track their movement from factory to consumers. These stamps help to enforce the regulations which aim to avoid the illicit trade in excise goods. In addition, the digital tax stamp scheme asks manufacturers to place certain seals with a high degree of safety on all goods; so after enforcing this, the scheme will not allow the import of any excise goods to the Sultanate of Oman that do not carry effective tax stamps. What is the purpose of applying the digital tax stamp scheme in sultanate of Oman? The tax stamps which is applied on the targeted excise goods aims to limit the circulation of counterfeit and adulterated goods in local market as well as to limit the operations of smuggling excise goods and resulting tax evasion.

Website: https://dts.taxoman.gov.om/om/index.jsp?timeout=true

WSIS Values Promotion: The system of tax stamps applied to targeted excise goods aims to reduce. Trading counterfeit and adulterated goods in the local market in addition to reducing operations. Smuggling of excise goods and the consequent cases of tax evasion.

WSIS Action Lines: GOV

SDGs: SDG10, SDG11

Stakeholder Type: Government

Country, Region: Oman, Asia and Pacific

Qatar e-Government Portal - Hukoomi

Qatar e-Government Portal - Hukoomi is the official government portal of the State of Qatar. Its main role is to make government information and services more efficient and effective to be accessible to all citizens, residents, visitors, and businesses. It also aims at raising awareness on the public programs, events, news, and government initiatives. Hukoomi has undergone several developments, and the latest one is the launch of Hukoomi NextGen in 2021 that ensures a more personalized experience to its users.

Website: https://hukoomi.gov.qa/

Target Beneficiary Groups: YOUTH, OLDP, WOMN, INDG, DISB, UNEMP, POOR, MIGR, REFG, RURL

Sustainable Description: A lot of information and services can be accessed and completed online without the need to print anything, which reduces the amount of carbon footprint.

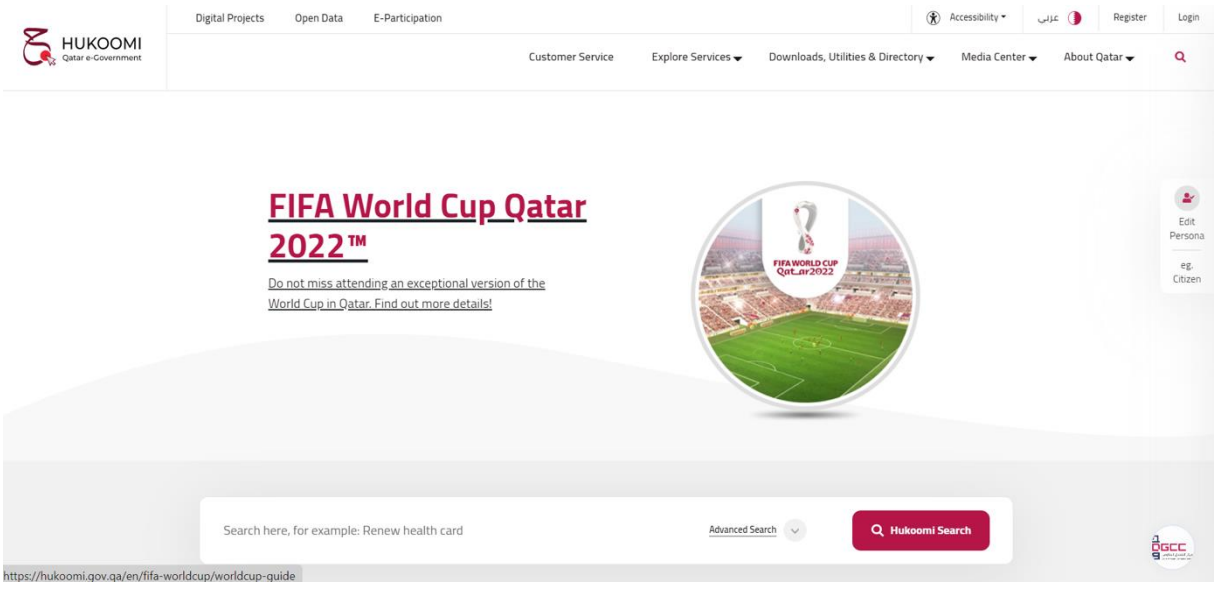
WSIS Values Promotion: Hukoomi promotes the WSIS values through shared responsibility; on part of the government and semi government entities, they cooperate with Hukoomi to ensure all information and services are available in one single hub, and on part of individuals, their suggestions and feedback are always taken into consideration and their e-participation is highly valued. Equality is another important value so that all types of audience can benefit from the Portal, including persons with disabilities and the elderly.

WSIS Action Lines: 1, 3, 6, GOV, 8

SDGs: SDG3, SDG4, SDG5, SDG9, SDG13, SDG17

Stakeholder Type: Government

Country, Region: Qatar, Asia and Pacific



Virtual Court

The Virtual Court is a structure that digitally implements the procedures for enforcement, without human intervention and under the supervision of the judicial department, to fulfil the review of all applications before the automatic referral. Virtual Court was conceived to address the needs of Saudi citizens, allowing them to have better and more time-effective interactions with the government. Previously, it was necessary to attend to and hand in requests manually, taking several visits to courts and public agencies, sometimes up to seven visits, regardless of how crowded it was inside or outside the court, which resulted in enormous waiting times. The citizen also had to make payments in check or cash, manually or through the court cash box. These procedures were inefficient, burdensome, and time-consuming for all the parties involved. Virtual Court uses artificial intelligence to request data, verify information, determine spatial jurisdiction, take legal decisions, and make automatic transfers of money to the beneficiaries. Virtual Court has already processed around 1.5 million decisions without requiring any visit to the courts, reducing the time to complete a process by nearly 65%, court visits by 90% and decreasing paper and ink usage, CO2 emissions and traffic in the surroundings of the courts.

Website: https://www.moj.gov.sa/ar/Ministry/Pages/VirtualCourtForEnforcement.aspx

Target Beneficiary Groups: OLDP, WOMN, INDG, DISB, RURL

Replicable Description: The Virtual Court is an initiative that uses multiple third parties to obtain and validate individual and company-level information, as mentioned above in the Partnerships section, and is an initiative that looks to automate processes and integrate with external parties to provide a zero human resource process. This model, which relies on integration and collaboration between agencies, can be replicated by other government sectors, including in Saudi Arabia, to reach faster and more agile processes. In what concerns replicability by the judicial sectors of other countries, the concept is replicable, but adjustments would always have to be made depending on the specificities of the legal and regulatory frameworks of each country, for example in what concerns the share of data between agencies.

Sustainable Description: The Virtual Court is a sustainable project and is also a project that is contributing to environmental sustainability. Virtual Court is getting full support from high-level management, which guarantees commitment to the project and continuous enhancement and updates of the project in accordance with the legal legislation. The project is also part of the Kingdom Vision 2030, which guarantees financial support and sustainability for the foreseeable future. By providing virtual digital court services, this project is also contributing to environmental sustainability. The aim is that all the required processes use online services, and internally the processes are fully automated, substantially reducing the use of paper. Virtual Court is contributing to reducing traffic, CO2 emissions and overcrowding of the court buildings, by reducing the number of visits to the courts by more than 90%. It also contributes to reducing paper, printing, and usage. As each request uses an average of 20 sheets of paper, Virtual Court allows saving around 200 thousand sheets of paper per month.

WSIS Values Promotion: Virtual Court promotes and contributes to achieving multiple WSIS values. It is also aligned with the action line of the role of governments and all stakeholders in the promotion of ICTs for development. By automating the claim life cycle, the Virtual Court enhances cooperation among stakeholders, through mainstreaming ICTs, multi-stakeholder partnerships, national e-strategies, and public-private partnerships. Also, it provides an easy communication channel for beneficiaries to apply and follow the whole claim cycle through the internet using any device that has a web browser. An API infrastructure to connect government institutions and service providers with the Ministry of

Justice to achieve beneficiaries' justice was built for this project, which relates to the access to information and knowledge action line. Additionally, to enhance access to information and knowledge, the Ministry of Justice is providing access to information about the laws and legal processes for the public, in addition to giving the public access to all claims. VC is also building confidence and security in the use of ICTs. Accessing and applying a claim uses multiple authentication levels. By integration with "Absher" (a platform which allows citizens and residents of Saudi Arabia to use a variety of governmental e-services), the user must be authorized to access the governmental services, in addition to validating all claim parties and the relation between them systematically. Additionally, all internal users use the system based on their roles and permissions. VC is also aligned with enabling environment as explained in the answer to the previous field. Finally, it relates to ICT applications that benefit all aspects of life, having a relevant role in the digital transformation of the Kingdom of Saudi Arabia, and having a disaster recovery plan. It helps and enhances the following-up and monitoring of the Ministry of Justice key performance and other indicators, helping in the internal evaluation, follow-up and definition of goals.

WSIS Action Lines: 1, 2, 3, 4, 5, 6, GOV, BUS, 10

SDGs: SDG3, SDG5, SDG9, SDG11, SDG16

Stakeholder Type: Government

Country, Region: Saudi Arabia, Asia and Pacific



KING FAISAL UNIVERITY SMART APP

The KFU App developed as a resourceful tool that incorporates modern technologies to support local and foreign students and learners while taking into account the safety and security of using a visual identity of the users. The main goals of the app are to provide equal access to and opportunities in a cutting-edge educational and interactive information environment for students and those involved in the teaching and learning process from all over the world, wherever and whenever they need it. The app makes it possible to concentrate on each student's performance in a way that helps him develop his abilities and skills in order to create an engaging and interactive experience with him. As a result, the Sustainable Development Goals of the UN and KSA will be accomplished.

Website: https://www.kfu.edu.sa/en/Deans/it/Pages/App_guide.aspx

Target Beneficiary Groups: YOUTH, INDG, RURL

Replicable Description: The combination of modern education along with a range of mobile applications can produce impressive results for the average person, especially those living in remote locations. KFU App introduces modern technologies into the process of teaching and learning and obtaining sources of knowledge and digital services, to transform it into a lively and interactive experience between the student and the university that allows focusing on the performance of each student in a way that helps work towards developing his abilities and skills, as the educational process will also depend on supporting tablets, computers, and electronic boards for the current teaching system in a more effective manner in the future. The app features, processes, and strategies will definitely be repeatable and expandable.

Sustainable Description: The KFU App will continue to exist and expand. The education industry is working to improve its skills as new technologies become available. The high cost of establishment is offset by significant future savings, improved educational process performance, and continued competition because those who do not advance pass away. Schools, colleges, and universities have created numerous educational apps as a result. In the twenty-first century, mobile apps have become commonplace. The landscape of education will be significantly altered by new technologies and digitization strategies. Furthermore, the widespread accessibility of the Internet has ushered in a new era of digitization for all business sectors. It is now possible to access the same information because the Internet is readily available, accessible, and available in both the most developed and the most remote regions of the world. The development of digitization has had a significant impact on education in recent decades. The creation of educational applications inspired learners of all ages to find out more information on any subject.

WSIS Values Promotion: KFU is motivated to address issues with sustainability and security in e learning in order to support the UN's Sustainable Development Goals. Thanks to the suggestions made by the KFU-app teams, we can accomplish some of the SDGs. How did the KFU App accomplish SDGs (4, 5, 8, 10, 12, &17)? We have a great deal of confidence in the institution's flexibility and qualified staff to handle upcoming changes and developments, enabling us to adjust our plans as necessary. What benefits does King Faisal University's application offer in relation to the objectives and plans of the UN Information Society? Goal 4: High-quality education. Many more children and adults should have the technical and vocational skills required for employment, respectable jobs, and entrepreneurship by 2030. Goal 5: gender parity. Empower women by utilizing enabling technology, particularly information and communication technology. Goal 8: Decent work and economic growth through the training program Create and implement policies by 2030 to advance sustainable tourism, which benefits local economies and advertises their products and culture. Goal 9: industry, innovation and infrastructure By, among other things, ensuring an enabling policy

environment for industrial diversification and the addition of value to commodities, you can support domestic technological advancement, research, and innovation in developing countries. Goal 10: Reducing inequalities To ensure equal opportunity and reduce outcome inequalities, it is important to promote appropriate laws, policies, and procedures in this area and to abolish discriminatory ones. Goal 12: sustainable production and consumption Ensure that everyone has access to pertinent information about environmentally friendly living and sustainable development by the year 2030. Goal 17: Companies for Goals Technology: Encourage mutually agreeable conditions for access to these fields of study and knowledge exchange.

WSIS Action Lines: 1, 2, 3, 4, 5, GOV, LEA, 9, 11

SDGs: SDG4, SDG5, SDG8, SDG10, SDG12, SDG17

Stakeholder Type: Government

Country, Region: Saudi Arabia, Asia and Pacific



The electronic management of correspondence system (in French Gestion Electronique des Correspondances)

As part of its national strategic plan Digital Tunisia, Tunisia developed an electronic management of correspondence system (GEC ELISSA) to dematerialize all inter and intra-departmental exchanges. The GEC ELISSA system facilitates automation and easy management of administrative correspondences, tracks all the incoming and outgoing administrative correspondence and makes them available to all recipient according to their roles and access. GEC ELISSA helps Tunisian administrations save time and effort spent on managing numerous correspondence from multiple parties, while enhancing their quality of service and improving overall productivity. Main benefits of GEC ELISSA include: - Ensuring accurate, fast and trustworthy communication between entities. - Enhancing employee performance and reducing time spent on preparing, processing and responding to correspondences.- Reducing costs of storage and efficiently managing correspondences. GEC ELISSA is accessible through a National Integrated Network of Administration (Réseau National Intégré des Administrations, RNIA, a secured private network. GEC ELISSA is deployed across 24 ministries, the parliament and the presidency of the republic.

Website: https://mtctd.elissagov.tn

Target Beneficiary Groups: YOUTH, OLDP, WOMN

Replicable Description: The ELISSA project was initially deployed by the Ministry of Communication Technologies, then extended to 6 ministries as a pilot project, and finally deployed by 24 ministries, the parliament, and the presidency of the republic. The Elissa project is projected to be deployed, by the end 2021, in all Tunisian administrations (regional administrations, and municipalities.

Sustainable Description: The GEC Elissa project has enabled the digitization of the administration and the transition towards e-administration. Indeed, with the GEC ELISSA better results on investment can be achieved: - the dematerialization of correspondences, - the optimization of content production, - the automation of documents processing, and - the reduction of paper usage. An impact study was conducted by the ministry to assess the sustainability of the GEC project. Accordingly, the annual number of paper-based correspondences is estimated at 25 million over 10 years, this results into about 35.200 tonnes of carbon emissions. The use of digital correspondences, enabled by GEC ELISSA system, will ensure the reduction of more than 99% in emissions and ensure a fast ROI of about 8 Million TND per year. The study results confirm that the project is economically viable and environmentally resilient.

WSIS Values Promotion: GEC ELISSA is a flagship project that aims to ensure accurate, fast and trustworthy communication between Tunisian administrations and to enhance employee performance and reduce time spent on preparing, processing and responding to correspondences. GEC ELISSA can provide employees with a web interfaces for monitoring the status of their requests. With these results, we can set up an e-government that makes life easier for enterprises as well as citizens.

WSIS Action Lines: GOV

SDGs: SDG9, SDG11

Stakeholder Type: Government

Country, Region: Tunisia, Africa



MOHAP E-Services Integration Project

Based on the UAE's vision 2021 aimed to make UAE one of the most innovative countries in the world, as innovation is the foundation of life-quality and development, this comes in line with the National Agenda and the National Innovation Strategy, which focused on the health sector's vital role that will lead the innovation process in the future. In line with the UAE wise leadership's faith that innovation is the capital of the future. UAE's vision 2021 emphasizes this approach in various fields and sectors, where the innovations, research, science and technology are the cornerstones of a competitive, high-productivity economy. In this context, MOHAP is committed to instilling the principles and concepts of innovation practices in accordance with the best international standards at all strategic, organizational and operational levels, to achieve the real and qualitative advancement of services provided to all segments of society. In order to fulfil this, MOHAP is keen to develop a comprehensive and integrated system of innovation management and lay the foundations of the innovation engines such as the innovation strategy, governance, innovation makers and activation of the innovation through partnerships and establishment of a regulatory environment that supports the consolidation of innovation practices and measuring impact, development and continuous enhancement to ensure qualitative upgrading and sustainable improvement. One of the centralized integrated systems that developed is Birth and Death System which is One Stop Shop automated solution for data analysis that help putting health strategies and national KPIs. the system has three main services: New Birth Notifications -New Death Notifications- Still Birth Notifications. Another system is integrated for newborn e-services is: Mabrouk Ma Yak: an integrated eService for newborn Emiratis. Under this eService, a newborn Emirati can get many services as below(extended) * The project was implemented on three main phases (extended)

Website: https://ebirthdeath.mohap.gov.ae/BirthDeathCertifications/Account/Login?

Target Beneficiary Groups: WOMN, INDG, DISB, UNEMP

Replicable Description: The project can be replicated based on the service applicability.

Sustainable Description: MOHAP monitors the service continuously, the architecture is robust, scalable, secured and highly available. With the increase in services forecast, the project has assessed to achieve the SDGs goals, that aims mainly to achieve the sustainable in the products and environments. Environmental Impact - Reduced consumption of fuel / Diesel - Limiting waste management - Reducing paper based / preserved trees and environment - Reduced air pollution - Limiting Carbon Foot Print Aware Community - More aware and technology exposed community - Improved service presented to the community - Improved staff and applicants experience - Reduced stress levels - Improved quality of services

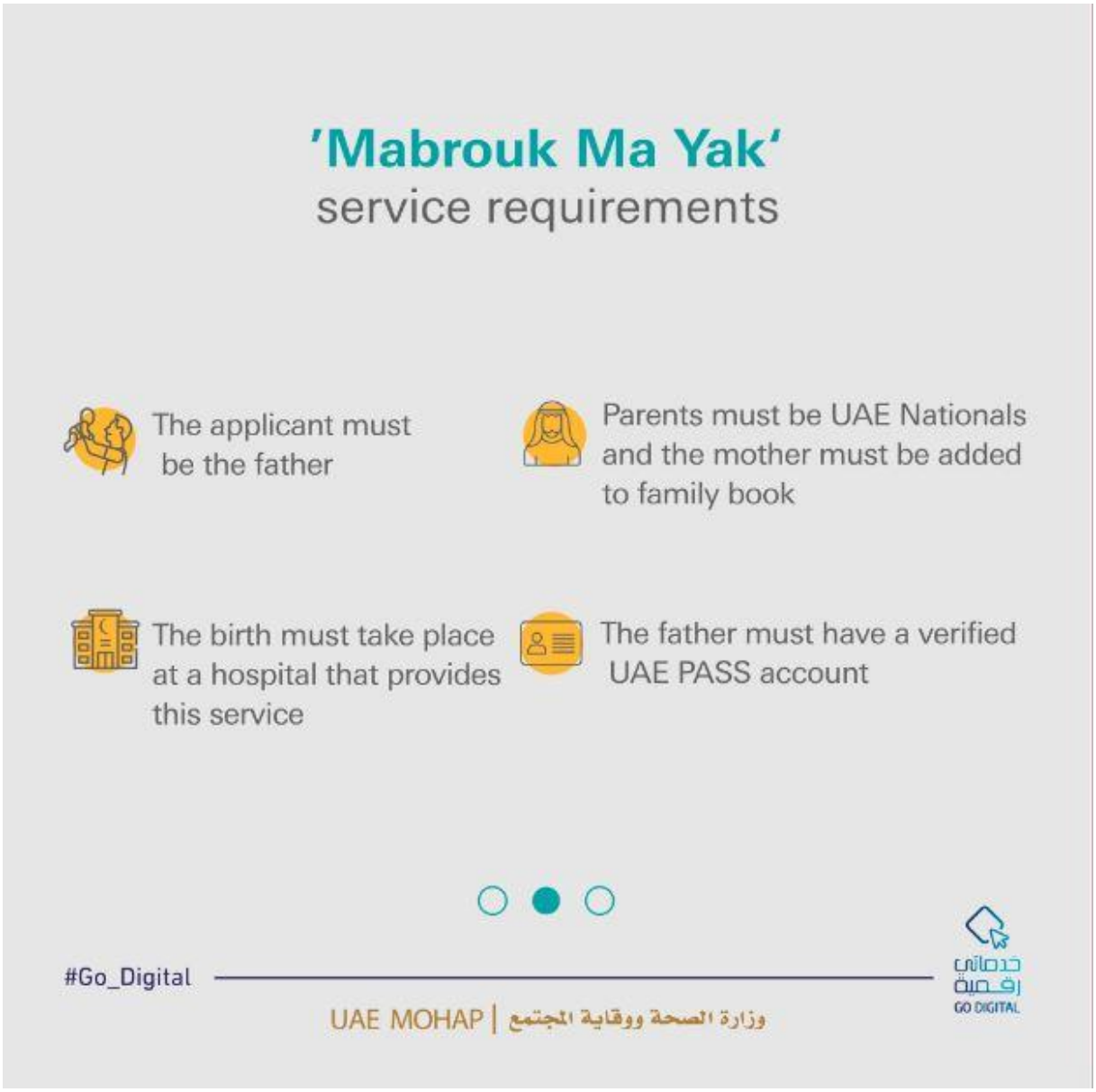
WSIS Values Promotion: ** With the Integration technologies and Government backbone of network, policies and process helped MOHAP to connect with the other authorities and private sectors that provides seamless services to UAE population that foster UAE development. ** Delivery of new services to the community: By saving staff's time and maintaining balanced staff time distribution, new services are being developed and provided to the community. ** Overall satisfaction with the automated services is perceived excellent ** Credibility is improved by data cleansing with lot of mapping. Also, the overall process is improved ** Improved People's Satisfaction Aware Community - More aware and technology exposed community - Improved service presented to the community - Improved staff and applicants experience.

WSIS Action Lines: 1, 5, 6, GOV

SDGs: SDG3, SDG5, SDG11, SDG17

Stakeholder Type: Government

Country, Region: United Arab Emirates, Asia and Pacific



Bin Wariqa

Bin Wariqa service is a digital community service that aims at saving lives. The service ensures emergency medical cases at hospitals are assisted as fast as possible by enabling the necessary doctor to reach the hospital faster using their own vehicles, with the aid of a smart app. The smart app allows doctors to communicate their locations instantly to traffic digital monitoring rooms, which automatically provides the fastest route to the hospital avoiding traffic and giving them exceptions such as using dedicated emergency road lanes and – if necessary – safely going over the speed limit. Bin Wariqa is named after the first Emirati doctor who was offering alterative medicines to communities. The idea of the project was initiated by the community, designed with the participation of relevant stakeholders, and implemented through a partnership between the Ministry of Interior and medical entities in the UAE. Since its inception in 2020, Bin Wariqa service was used by more than 300 doctors in various hospitals nationwide, attending to more than 500 critical and emergency cases. Bin Wariqa provides a success story with proven impact, particularly on social inclusion by offering medical emergency cases with fast assistance regardless of race, religion or gender.

Website: http://moi.gov.ae/

Target Beneficiary Groups: YOUTH, OLDP, WOMN, INDG, DISB, UNEMP, POOR, MIGR, REFG, RURL

Replicable Description: The Ministry of Interior was is keen to transfer knowledge and the desired goal of the service and its importance in raising the efficiency of joint government services, as meetings were held periodically, and the challenges were limited by measuring doctors' satisfaction with the service, taking into account the proposals of the coordinators from the medical authorities to develop the electronic system and work on its application, and work on development continuous service. In addition to working on introducing the service to the delegations, exchanging experiences, and transferring the experience between the local & international authorities by reviewing it in local exhibitions and conferences.

Sustainable Description: The Ministry is working on continuous development and achieving sustainability through the Bin Wariqa service project in ensuring the continuity and technical improvement of the service. In addition to the continuity of the process of training doctors The scope of service can be expanded and more specializations can be added to doctors There is also a work team to follow up and continuity of service operationally. Which is based on continuously monitoring the technical and operational challenges and obstacles and improving the service in addition to studying and identifying the continuous future requirements and variables, not to mention the speed of decision-making according to the optimal use of large and open data extracted from applications of electronic and smart systems.

WSIS Values Promotion: Bin Wariqa service adopts (WSIS) values, most notably: • Justice: responding to emergency cases and facilitating doctors' access to patients in critical cases, regardless of the patient's nationality, gender, race, or religion. • Solidarity: Bin Wariqa service has achieved the solidarity of all members of society and the concerned authorities in order to facilitate doctors' access to critical cases. • Joint responsibility: The joint responsibility in the Ben Wariqa service was achieved through the cooperation of the authorities responsible for health facilities (hospitals) with the Ministry of Interior in creating and developing the service.

WSIS Action Lines: GOV

SDGs: SDG9, SDG16, SDG17

Stakeholder Type: Government

Country, Region: United Arab Emirates, Asia and Pacific



Total Experience Program

As the official Digital entity of the government of Ajman- The Department of Digital Ajman leads the vision of Digital Transformation for 18 Local Government entities.DDA was focusing on building the needed digital infrastructure to enable service digitization along with all local government entities. Although we have reached 98% digitalization, the impact on society and customer happiness was not what we aimed for.It was obvious we could not meet this challenge by focusing on customer experience alone. Our team thought about exploring a broader view of government services, including the customer, service provider, and service delivery partners. To address this, we developed the Total Experience (TX) program, which offered a good model. Digital Ajman launched the Total Experience Program with the aim of making a leap in the efficiency of government services and raising their level to comply with international standards. As part of this program, A comprehensive set of tools are used to evaluate the maturity of government services, such as; UI Audit, Customer Perception Survey using AI, Service Walkthrough Audit, Customer Journey Map and even more tools. As a result, we made existing services better, faster, and more efficient for everyone involved in those services, from employees to service providers and ending with customers. A first-of-its-kind 360 approach.

Website: https://www.ajman.ae/

Target Beneficiary Groups: OLDP, INDG, DISB

Replicable Description: Through the TX program, organizations can evaluate the quality of their services and enhance customer satisfaction throughout all channels of service delivery, regardless of industry or division. The 360 methodology is put in place to improve any service or product, by including all stakeholders involved in the process. Thus, the program applies to any government entity or private firm that provides services to its clients.

Sustainable Description: This program is ever-evolving. It continues to grow as the environment around us grows. The TX program does not stop after evaluating and improving service; it ensures that the modules put in place are easily adaptable to future changes based on new needs, changes, emerging technologies, and even platforms.

WSIS Values Promotion: The study of a particular service takes samples from everyone, regardless of their age, gender, religious background, or ethnicity. This ensures equality and tolerance for all, and it guarantees that the services are suitable for everyone. The TX program also studies and evaluates how services are provided across different service channels. For example, if the service is available in multiple languages, or if the service provides aid for those with visual or hearing impairments. Through the TX program, services will be made more efficient by reducing the number of steps required to complete a given service, as well as the number of paper documents required. Less paper used means more trees for our beloved earth.

WSIS Action Lines: GOV

SDGs: SDG9

Stakeholder Type: Government

Country, Region: United Arab Emirates, Asia and Pacific

برنامج التجربة الشاملة
Total Experience Program

HEALTH AND NUTRITION TO ELDERS BY USING ICT

The project consists of : Conducting geriatric nutrition programs which involves elder's groups of 60 years of age and above they are provided with nutrition education to overcome non-communicable diseases ,establishing vegetable garden to elders in order to have access to free vegetables and providing basic IT skills to elders. The project benefits older people through giving them IT basic skills and nutrition knowledge, Giving them free acccess to vegetables . The project needs ICT experts who will provide basic digital skills to older in the rural areas.

Website: https://www.linkedin.com/company/omukahub/posts/?feedView=all

Target Beneficiary Groups: OLDP

Replicable Description: The project is replicable in Kagera region rural area, we have been able to reach more than 1500 older people in Bukoba,and farming gardens of vegetables to them and giving them nutrition knowledge.

Sustainable Description: This project is alligned with SDG goal 3.

WSIS Values Promotion: The project benefits older people through giving them IT basic skills and nutrition knowledge, Giving them free access to vegetables . The project supports and promotes age friendly environment through establishing gardens of vegetables, Combating ageism by giving nutrition knowledge.

WSIS Action Lines: GOV

SDGs: SDG3

Stakeholder Type: Civil Society

Country, Region: United Republic of Tanzania, Africa



WSIS Action Line C7: ICT Applications: e-business

AlTajir

Al Tajir app is the first comprehensive mobile application in the region that offers eServices for business owners in the Kingdom of Bahrain. The app provides users with a range of eServices and transactions through a unified digital platform, including making payments, enquiring about application statuses, informational and search functions. The app also uniquely offers the option to purchase government services such as Commercial Registration (CR) renewals, work permits, and others bills, through a single transaction.

Website:
https://apps.bahrain.bh/CMSWebApplication/action/ShowAppDetailsAction?selectedAppID=341&appLanguage=en

Replicable Description: similar bundled services could be provided to business owners in other countries

Sustainable Description: To ensure sustainability of the project, the government had set several procedures , including the monitoring of the performance and KPI on a regular basis at high level of the government, the development and continuous enhancement of the live services based on the principles of the project (transparency, quality, fast delivery of service, once only data policy, Public Private Partnership) ensuring continuous communication with stakeholders to get feedback on the services.

WSIS Values Promotion: Al Tajir app promotes equality in providing services, transparency between government and business owners and respect for nature by providing online services directy to the business owner to proceed with their regular transactions for several government entities online without the need to visit each entity or the need to print the transaction documents.

WSIS Action Lines: BUS

SDGs: SDG8, SDG9

Stakeholder Type: Government

Country, Region: Bahrain, Asia and Pacific



ONLINE BUSINESS REGISTRY SYSTEM FOR BELIZE

The Government of Belize through the Financial Services Commission set out to modernize and transform business registration in Belize by reforming business registration and adapting technology to deliver digital registry services to the public and digitize internal registry operations. This vision was achieved on November 28, 2022 when the Online Business Registry System was launched by the Belize Companies and Corporate Affairs Registry. This system is revolutionary for Belize as it will ease doing business in Belize, boost economic growth, bring people and organizations closer and make Belize an attractive and competitive jurisdiction to start a business. A world class, web-based Unified Registry Platform (URP) was essential to improve the ease of doing business in Belize. registration of your business entity, access to your business entity profile and history, reminders on annual filing to ensure your business status remains as Active and in Good Standing, verifiable E- certificates of registration or incorporation, name reservation and E-filing. The outcomes of a modern registry system elevates ease of doing business environment. This may serve for increasing the number of registered businesses in Belize and as a result, increase tax revenues, encourage foreign investment, and elevate the quality of public services.

Website: https://www.bccar.bz

Target Beneficiary Groups: YOUTH, OLDP, WOMN, INDG, DISB, UNEMP, POOR, MIGR, REFG, RURL

Replicable Description: Built on an internationally proven platform for building advanced Registry solutions, the E- e-registry system has been implemented in 33 developing and developed countries, the new registry system being implemented in Belize could be easily replicated in other jurisdictions. More so, implementing the solution on a regional basis would benefit the Caribbean countries and others as a whole by creating unified standards, supporting the fight against shadow economies, improving the business environment, and creating more job opportunities.

Sustainable Description: The use of a modular state-of-the-art platform supported by strong partners ensures that the Online Business Registry System is a long-term local and regional solution aimed at achieving sustainable results in support of ongoing innovation, economic development, transparency, and citizen's well-being. The use of an online platform will also reduce the environmental impact by reducing the use for printed documents and decreasing the need to travel to and from physical registration offices.

WSIS Values Promotion: This project promotes WSIS values in several ways as it harnesses the potential of ICT to promote SDGs. Harmoniously with Sustainable Development Goals 9 (Industry, Innovation and Infrastructure), 16 (Peace, Justice and Strong Institutions) and 17 (Partnerships For The Goals), implementing the Online Business Registry System in Belize will accelerate the development of national e-government initiatives and services, at all levels, adapted to the needs of citizens and business, to achieve a more efficient allocation of public resources. Moreover, the project will support international cooperation initiatives in the field of e-government, to enhance transparency, accountability and efficiency at all levels of government.

WSIS Action Lines: 1, 2, 3, 4, 5, 6, GOV, BUS, LEA, EMP, ENV

SDGs: SDG9, SDG16, SDG17

Stakeholder Type: Government

Country, Region: Belize, Latin America and the Caribbean

eKadaiBrunei.bn

eKadaiBrunei.Bn is a directory website that connects the general public and businesses to local eCommerce Platform, eCommerce Vendors, logistic and delivery services. The website serves as a business matching platform between local businesses in adopting eCommerce activities by the Micro, Small and Medium enterprise (MSMEs) especially home base businesses. At the moment there are 14 eCommerce Platforms, 6 eCommerce Vendors and 18 logistic and delivery services registered to the platform since the date of initiation, 1 April 2020. eKadaiBrunei.bn enables MSMEs to select the any available local eCommerce platforms to sell their products or services in accordance to their preference. In relation to the COVID-19 Situation, the website provides awareness to enables general public for online purchasing of their daily need items such as food, groceries, clothings, home items and many more without any social interaction. This is to provide the general public to experience the ease of eCommerce tractions in daily activities especially to those individuals who are in the quarantine period. Meanwhile for businesses, the website provides an alternative solution for businesses to gain more customer and sell their products via online.

Website: http://www.ekadaibrunei.bn

Target Beneficiary Groups: YOUTH, OLDP, WOMN, INDG, RURL

Replicable Description: The project is replicable. The concept of the project is to provide a directory list of local eCommerce platforms providers, logistic and delivery services. The objective of the project is to encourage the general public to conduct contactless transaction which is via online transactions and to move towards to cashless society. Also, to provide alternative solutions for businesses to conduct their businesses especially during this COVID-19 pandemic situation where some local businesses are forced to be close.

Sustainable Description: We hope to brand eKadaibrunei.Bn website to become a one stop portal for public to look for available online businesses by adding more selections of eCommerce vendors in eKadaiBrunei ranging from food providers, household necessities, car parts, health supplements and many more.

WSIS Values Promotion: By connecting the general public and businesses to local eCommerce Platform, eCommerce Vendors, logistic and delivery services, this project promotes WSIS values such as C3. Access to information and knowledge; C6. Enabling environment; and C7. ICT applications: benefits in all aspects of life — E-business.

WSIS Action Lines: 3, 6, BUS

SDGs: SDG8

Stakeholder Type: Government

Country, Region: Brunei Darussalam, Asia and Pacific



Development and Application of a Blockchain-based Distributed Digital Asset System

Based on the technical and ecological advantages of China Mobile's blockchain application services, the project focuses on providing secure and stable underlying chain facilities, superior performance on-chain services, and functional solutions. By carrying out blockchain-based distributed digital asset services, on the one hand, it makes full use of the attribute of non-tamperability of information on the blockchain, so that each user's private information and network assets are guaranteed with security; on the other hand, the mutual integration of digital assets and other businesses can bring new product forms and business perceptions to users. The project will play an important role in scenarios such as storage proof of user information, dissemination of cultural artworks, and secure sharing of information.

Website: https://ddc.bsnbase.com/

Target Beneficiary Groups: YOUTH, OLDP, WOMN, INDG, DISB, UNEMP, POOR, MIGR, REFG, RURL

Replicable Description: For different customer needs and business areas, the distributed digital asset function module can provide a customized system with flexible customization, security and trustworthiness, collaborative supervision, cost reduction and efficiency enhancement, and provide customers with full process tracking services and perfect system operation and maintenance services. 1. For customers who have the ability to develop distributed digital asset functions independently and only need the underlying blockchain services, we can provide the support of the underlying blockchain environment, and customers can develop, and use distributed digital asset-related smart contracts in the blockchain environment. 2. For corporate or individual users with only business needs, we provide a distributed digital asset platform that can support tenant-based entry, where users can conduct relevant business without the need for construction and operation and maintenance. 3. For business parties with system platform construction needs, we can customize and develop the whole set of distributed digital asset system and platform for customers, and customers can carry out the operation of the platform independently. Therefore, the project is oriented to more types of users and has a variety of business interfacing methods, with good replicability.

Sustainable Description: The market scale of blockchain-based distributed digital asset technology has expanded rapidly in the past two years, and a relatively mature business model has been explored mainly in the field of cultural and creative industries. At the same time, the distributed digital assets also have development prospects in terms of information security and protection of users' rights and interests, so the sustainability of the project is high. 1. Distributed digital assets are a new form of output for enterprise owned IP and equity services, which can further explore new value of digital assets and promote value transformation. 2.Distributed digital assets are a trendy new play in the market today that can empower the way brands market themselves and increase their value. 3. Distributed digital assets create a new consumption model that translates online revenue, drives offline consumption and enhances market efficiency. 4. The distributed digital asset trading with real name authentication and natural community marketing attributes can attract traffic to the brand's private domain and help long-term operation. 5. Distributed digital assets are the circulating elements of the future metaverse, and early intervention can accumulate a user base for the metaverse market.

WSIS Values Promotion: Relying on the technical and ecological advantages of blockchain application services, distributed digital asset technologies and products focus on providing on-chain services with superior performance and functional solutions, aiming to help users

complete the transformation and upgrade in the field of digital assets and provide infrastructure guarantees for long-term operation, security and stability. Assisting in the construction of digital business in several fields: 1. Copyright Protection Distributed digital assets are based on the technical ability of blockchain, and they have the uniqueness and immutability of information on the blockchain, while their characteristics of being held and transferred by the users on the blockchain determine their inherent existence of the property of copyright. 2. Electronic license Distributed digital asset technology is based on the underlying blockchain engine, which can complete its binding with relevant information by executing relevant contracts, and at the same time can transfer distributed digital assets and additional information between accounts. By combining with electronic license, it can effectively fit the business of license signing and granting. 3. Brand marketing Distributed digital assets, as a new type of capability based on blockchain, is a new way of information perception for the user side. While it can effectively improve the attractiveness of users, it can also better promote the promotion of business by combining with related business.

WSIS Action Lines: BUS

SDGs: SDG1

Stakeholder Type: Private Sector

Country, Region: China, Asia and Pacific



Material Supermarket Revitalization Solution for Enterprises and Institutions

In this project, adopting the advanced information technology and carrying out material supermarket management mode could effectively solve a series of problems of inefficient use of materials , such as excessive sluggish inventory, insufficient internal activation leading to lower profit margins, long processing flow, etc. Then reinvigorating the stock, cut down the cost and improve efficiency through the implementation of this project, China Mobile Procurement Sharing Center has achieved the following good results: (1) If the idle inventory is not applicable for more than six months, it will be classified as supermarket materials and can be shared across regions, cities, departments and projects. Through this mechanism, the amount of materials aged over 6 months decreased from 1.1 billion yuan to 910 million yuan in 2021, a relative decrease of 190 million yuan. (2) A material asset supermarket information sharing platform was established to collect and display the idle material assets of the whole network on the platform, reducing the communication workload between provincial companies. The overall inventory management and control is realized. The provincial company can query the warehousing and delivery of materials of each unit in real time, reasonably formulate the purchase plan, and reasonably allocate resources. Ensure that the inventory resources of each unit can flow across organizations, projects and attributes to form economies of scale. (3) In 2021, China Mobile's sluggish inventory turnover revenue will reach 1.118 billion yuan, fully contributing to the enterprise value. Revitalize the idle assets in the enterprise, carry out internal turnover without external procurement, reduce the company's capital occupation, and improve the capital turnover rate. (4) With the improvement of activation efficiency, the material inventory time has been shortened by nearly 40 days, greatly reducing the storage cost and security risk of material storage.

Website: http://www.10086.cn

Target Beneficiary Groups: UNEMP, POOR, REFG, RURL

Replicable Description: To build a material supermarket, the operation process is simple and the degree of standardization is high. It can be copied by other companies to jointly improve the use efficiency of idle materials and realize the value maintenance and appreciation of the assets of enterprises and institutions. Take China Mobile's "Material Supermarket" revitalization solution project as an example. 1. Building ideas of material supermarket. For the idle inventory, a material information sharing business platform is established. When the inventory is idle for 3 months, the materials will automatically enter the municipal material supermarket, and all departments and projects in the city can apply for use according to the needs, thus realizing the cross department and cross project utilization of materials. If it is still idle for 3 months after entering the municipal supermarket platform, it will enter the provincial material supermarket, and other municipal companies can also apply for use if required. If it is still idle six months after entering the provincial supermarket, it will enter the national level for allocation. The information of the idle material supermarket is open to all staff, and all project personnel can apply for collection. The whole process of material query, application approval, distribution tracking, etc. supports PC and mobile terminal operations. 2. Realize the function of "material supermarket" 1) Sharing information flow Idle information sharing process: for inventory materials, analyze the inventory data on a monthly basis, organize relevant departments to review and promote them to municipal/provincial material supermarkets for sharing; For the returned assets, after the technical identification is available and the ownership unit has made clear that there is no plan for the use of the old, the relevant departments shall be organized to review and directly enter the asset supermarket for sharing.

Sustainable Description: The sustainability of project is based on the following aspects: (1)100 billion level assets were idle and wasted, and the production value occupied by enterprises showed a growth momentum. As the world's largest infrastructure country, due to factors such as non-standard infrastructure equipment, a large number of equipment are difficult to be recycled. It is estimated that hundreds of billions of yuan worth of assets are wasted every year. Industry insiders and experts suggest that this "sleeping wealth" needs to be "awakened". The number of idle materials within the enterprise is gradually increasing, which leads to a large number of overstock of materials in stock and makes it difficult to optimize the enterprise inventory management. In addition, due to the existence of isolated data islands, information cannot be shared in real time, and individual departments are still purchasing in large quantities, resulting in a large waste of resources and increased costs. The assets purchased by the enterprise are idle in the construction site or warehouse, occupying a large amount of funds of the enterprise! The turnover of idle assets between projects is not timely, resulting in huge losses. (2) Green and low-carbon development gains more attention The state issued the requirements of "green and low-carbon circular development", through the construction of "material supermarket" to activate idle materials, realize the effective utilization of resources, the green transformation of the supply chain, and the green development of enterprises, and contribute to promoting the construction of a resource conserving and green environment-friendly society. All enterprises call for exploring the use of the Internet model, accelerating the construction of a shared service platform for recycling infrastructure equipment, improving the recycling rate of equipment, and promoting the cost reduction, efficiency increase, transformation and upgrading of China's infrastructure industry. To strengthen its recycling management.

WSIS Values Promotion: The World Summit on the Information Society (WSIS) provides attendees with a platform of best practices of information exchange and knowledge innovation and demonstration. At the same time, it also examines the development status of the evolving information technology and knowledge society, identifies new trends in information technology and fosters new partnerships. The WSIS is a platform created by multiple interested parties worldwide to promote the implementation of WSIS Action Lines and the sustainable development of the global information society. Strengthening the reuse of idle materials will create a good production environment for full utilization of resources and sustainable development.

WSIS Action Lines: BUS

SDGs: SDG12

Stakeholder Type: International Organization

Country, Region: China, Asia and Pacific



Delivereo

Delivereo, is a mobile application developed under the concept of a collaborative economy, which allows users to access a messaging service, home delivery, and intelligent shopping service. With this application you can make express deliveries of Documents, Packages, Flowers, etc. and also allows users to buy and order online anything online such as food, medicine, Home Purchases and much more. Users can buy and send everything they want. There is a wide variety of available brands and this service allows the user to access the services quickly, easily and from the comfort of their home and optimizing their time.

Website: https://www.delivereo.com/

WSIS Values Promotion: Use of technology for mailing

WSIS Action Lines: BUS, EMP

SDGs: SDG11

Stakeholder Type: Private Sector

Country, Region: Ecuador, Latin America and the Caribbean



Digital Solution for Micro, Small, and Medium Enterprises (MSMEs) Project

In Ghana, SMEs contribution to employment and poverty reduction cannot be underestimated. With over 70% of Ghanaian businesses categorized as MSMEs and contributing about 70% and 80% to the Gross Domestic Product (GDP) and Employment respectively, one cannot downplay their significance to the economy. Despite these significant strides made by the sector to national development, most SMEs as revealed empirically by experts, have still failed to reach their full potentials and reach a larger audience for a myriad of reasons. Key amongst them includes their inability to integrate ICT in their operations. Based on this, the Ghana Investment Fund for Electronic Communications (GIFEC) and the National Board for Small Scale Industries (NBSSI) jointly signed a Memorandum of Understanding to commission a study into ICT Utilization among Micro, Small and Medium Enterprises (MSMEs) in Ghana. Broadly, the study sought to find out the Use of ICT by MSMEs in Ghana. In doing so, the study focused on the following specific objectives: i. Examine the extent of ICT use by MSMEsii. Identify the ICT needs of specific categories of MSMEs iii. Identify the barriers and challenges to ICT use by MSMEs The findings from this Survey informed the introduction of the Digital Solution for MSMEs Project with special focus in the rural communities of Ghana. The specific objectives of the project are to ; i. Increase use of digital solutions in recording keeping and accounting by MSMEsii. Adopt the usage of epayment platforms for business transactionsiii. Train and equip MSMEs in digital skills to enhance business operations. Iv. Training in the use of digital solutions and e-commerce applications for marketing and salesResultsi. 400 MSMEs have been supported with SMART phones and laptops to enhance business operationii. 400 MSMEs Owners trained and equipped with digital skills to enhance their business operationiii. 400 MSMEs have their records digitized and utilizing epayment platforms.

Website: http://www.gifec.gov.gh

Target Beneficiary Groups: WOMN, POOR, RURL

Replicable Description: This project can be replicated in other parts of the world. MSMEs play dominance in almost every country. Their contribution to the growth of every economy cannot be overemphasized. The integration of ICT have largely focused on large firms and business in the urban communities, leaving a chunk MSMEs particularity in marginalized rural communities utilizing the manual way of conducting business. Countries therefore should focus on providing and improving connectivity in rural communities to pave way for rural business to thrive and improve their performance digitally.

Sustainable Description: This project is Sustainable. The Ministry of Communications and GIFEC in partnership with Telecom Operators and Huawei is rolling out an ambitious rural Telephony Project to provide data and voice connectivity to two thousand and sixteen (2,106) rural telephony sites strategically located in un-served and under-served communities in Ghana. These sites will provide connectivity to over 300, 000 communities and provide opportunity for over three million people to connect with relatives and friends and improve business operation in marginalized communities. This will help promote growth and socio-economic development.

WSIS Values Promotion: This project brings to the fore the important contribution of the use of ICTs among MSMEs as espoused in the GENEVA Plan Action. This has become phenomenal, recognizing the dominance of MSMEs and their contributing role in the local and national economy. The use of digital resources, use of digital payment platforms and the acquisition of digital skills training among marginalized groups especially in the remote and

neglected rural communities will help bring about the transformation, promote digitization and participate in the digital economy.

WSIS Action Lines: 4, 6, BUS

SDGs: SDG1, SDG2, SDG3, SDG4, SDG5, SDG6, SDG8, SDG9, SDG10, SDG11, SDG14

Stakeholder Type: Government

Country, Region: Ghana, Africa



BAKTIDesa.id

Digitalization is at the forefront of the Indonesian government's priority, with context further given towards economic recovery as well as digital transformation. Due the Covid-19 Pandemic, in 2020 the Indonesian government is promoting massive digitization in various aspects of life. Within this instance, BAKTI KOMINFO provides a significant window towards the population within disadvantaged regions. That's being said, BAKTI KOMINFO has sought to empower and support economic growth by elevating small-medium enterprises through the utilization of piloting project of MSME's Digital Training in 4 Districts, training on digital marketing for MSMEs in Super Priority Destinations and disadvantaged regions. This has also led BAKTI KOMINFO to create websites to develop online stores of MSME's, access to capital, empowering local facilitators to assist MSMEs in their district, digital transformation for MSMEs and BUMDES as well as the development of customer-centric digital training. The program engendered impact to approximately 5400 MSMEs.

Website: http://baktidesa.id/

Target Beneficiary Groups: UNEMP, POOR, RURL

Replicable Description: Based on data from the Ministry of Cooperatives and Small and Medium Enterprises in March 2021, the number of MSMEs in Indonesia reached 64.2 million with a contribution to Gross Domestic Product of 61.07 percent or Rp. 8,573.89 trillion. However, of that number, only around 3.79 million or about 8% have used online platforms to market their products. The government and other private institutions have also carried out many MSME digitization projects. However, one unique feature of the MSME and BUMDES Empowerment project carried out by BAKTI, is that it specializes in 3T area (remote, underdeveloped, outermost). There is a high potential for replication of this empowerment projects. Thus, BAKTI put the empowering BUMDES and SMEs as a prioritize project in its work plan until 2025. In doing this program, BAKTI has laid the groundwork for replicability by building a seamless transformation of digitalization that centers around three phases which encompasses business and product development, the strengthening value chains, logistics, integration with digital payment systems as well as the onboarding to national e-commerce platforms.

Sustainable Description: The MSMEs and BUMDES empowering projects that have been implemented by BAKTI for the past year through a series of networking opportunities with BAKTI KOMINFO's connected programs which are certainly expected to be sustainable, given the many benefits that can be obtained by the participants so far. The MSMEs and BUMDES in remote area are potential to be scaling up from Micro to Small and Medium level. From the existing projects, BAKTI already has participant database. The next action is to monitor the progress of each MSMEs and BUMDES that already gain knowledge through the training and mentoring, as well as facilitated with online store. Furthermore, BAKTI can help to expand the MSMEs and BUMDES market to be global by identifying the export commodity from rural areas, especially those in BAKTI service area. Several private entities in Indonesia that has capabilities in promoting MSMEs in global market are willing to collaborate with BAKTI. In the next five years hopefully, there are several BAKTI fostered MSMEs ready to go international.

WSIS Values Promotion: BAKTI KOMINFO's program in the enabling of digitalizing businesses can be related to SDG 8 which promote the sustained, inclusive, and economic growth with full and productive employment that promotes decent work. This is in cohesion to the digitalization of businesses that allows the advancement of opportunities that can provide small businesses a way to enter new markets. BAKTI KOMINFO in this instance is supporting development-oriented policies that seek to support productive activities, descent

work and the support that formalizes small and medium enterprises into the economic nexus of Indonesia’s captive market as well as greater access to financial services. This in turn also supports SDG 9 which seeks to build resilient infrastructure, promote inclusive and sustainable industrialization and foster innovation. This increases the access of small-scale industrial and other enterprises - in particular developing countries like Indonesia - to financial services. This pushes resiliency for small enterprises by going through innovation with digitalization.

WSIS Action Lines: 1, 3, 4, 5, 6, BUS

SDGs: SDG1, SDG4, SDG8, SDG9

Stakeholder Type: Government

Country, Region: Indonesia, Asia and Pacific



BookFusion

BookFusion is a global ebook platform that gives publishers and authors direct control of their rights and digital content, while enhancing the reader's experience through interactive and responsive features and socially engaging tools. Now it's easier than ever to discover new books and like-minded readers. BookFusion lets you read, share, organize, bookmark and sync all your books. Publishers and authors can enhance their ebooks by adding engaging interactive features, such as animations, read-along audio, pop up pictures and information, embedded videos, multiple choice questions and answers, open ended questions, and more.

Website: https://www.bookfusion.com/business

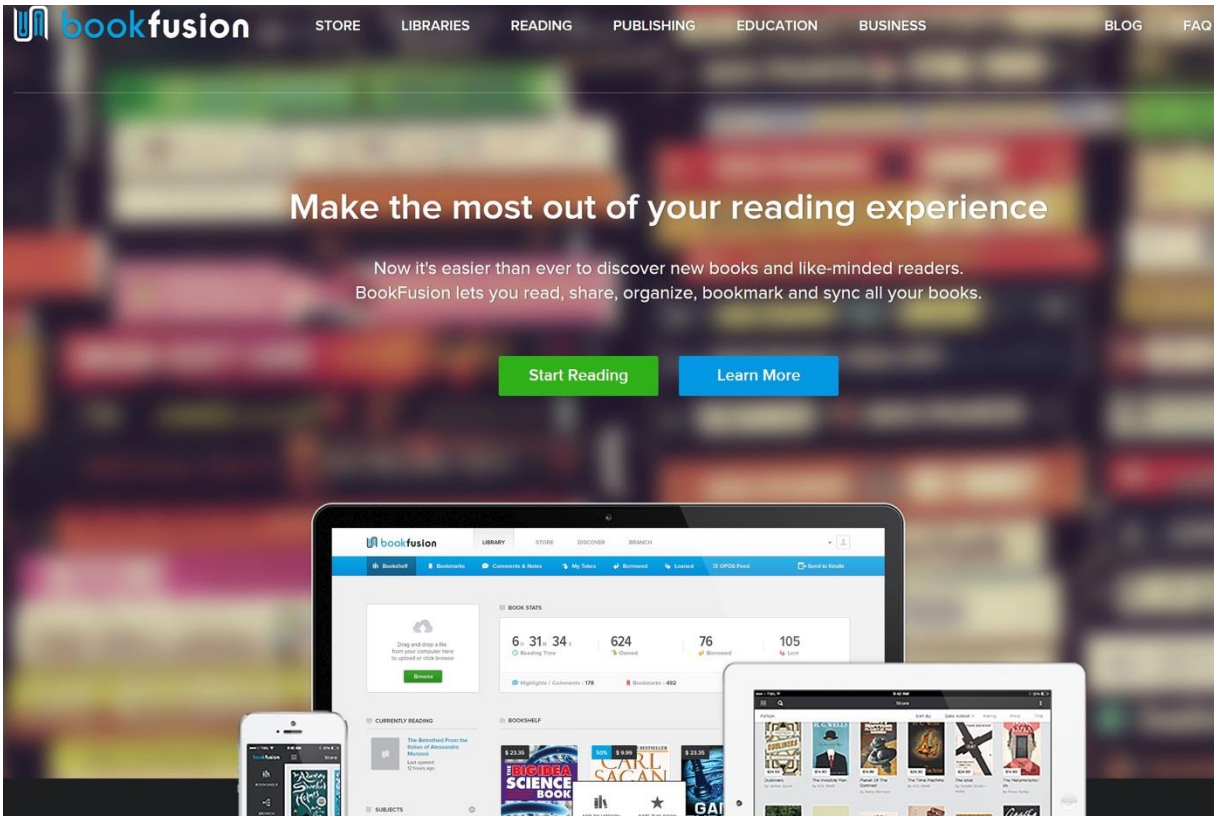
WSIS Values Promotion: Access to knowledge

WSIS Action Lines: 3, BUS

SDGs: SDG4

Stakeholder Type: Private Sector

Country, Region: Jamaica, Latin America and the Caribbean



DINARAK Mobile Money Female Agent Network

Dinarak is a Mobile Payment Services Provider in Jordan, fully licensed by the Central Bank of Jordan and connected to the national switch for mobile payments ('JoMoPay'). The company's mobile payment services are tailored primarily to benefit the financially excluded, under-banked and unbanked population with a focus on low-income Jordanians, women, youth, SMEs, refugees and host communities: Dinarak's payment platform allows customers to set-up e-Wallet accounts on their mobile phones and deposit cash at local agents to create e-Money balances. Users can then send and receive money, make deposits and withdrawals, and pay for bills, goods and services with complete locational freedom, using Dinarak's Mobile Payments App. Dinarak customers may obtain an optional Dinarak prepaid card that they can use to make online payments and purchases (e-commerce), make purchases at point of sales and withdraw cash from ATMs in Jordan and globally.

Website: http://www.dinarak.com

Target Beneficiary Groups: WOMN, POOR, REFG

Replicable Description: We have noticed that many Financial Service Providers and development agencies in Jordan are adapting the same approach of building female agents network. We are at Dinarak currently planning a new scale-up partnership with AWEF to expand our agent network further and develop female-specific products and features into our applications.

Sustainable Description: The company's mobile payment services are tailored primarily to benefit the financially excluded, under-banked and unbanked population with a focus on low income Jordanians, women, youth, SMEs, refugees and host communities: Dinarak's payment platform allows customers to set-up e-Wallet accounts on their mobile phones and deposit cash at local agents to create e-Money balances.

WSIS Values Promotion: • E-business • E-commerce • Disadvantaged and vulnerable groups

WSIS Action Lines: BUS, 8

SDGs: SDG1, SDG5, SDG16

Stakeholder Type: Private Sector

Country, Region: Jordan, Asia and Pacific

دينـــارك
DINARAK

Twiga Foods

Twiga builds fair and reliable markets for agricultural producers and retailers through transparency, efficiency and technology. Twiga Foods Ltd is a business-to-business marketplace platform that sources produce directly from farmers and delivers it to urban retailers at below market prices. We source quality produce from Kenyan farmers, and deliver to vendors in urban areas. Since 2014, Twiga has been bridging gaps in food and market security through an organised platform for an efficient, fair, transparent and formal marketplace. Today, we source quality produce from thousands of farmers, providing them with a ready guaranteed market, and deliver from our pack houses to thousands of vendors, at prices fair to everyone.

Website: https://twiga.ke/

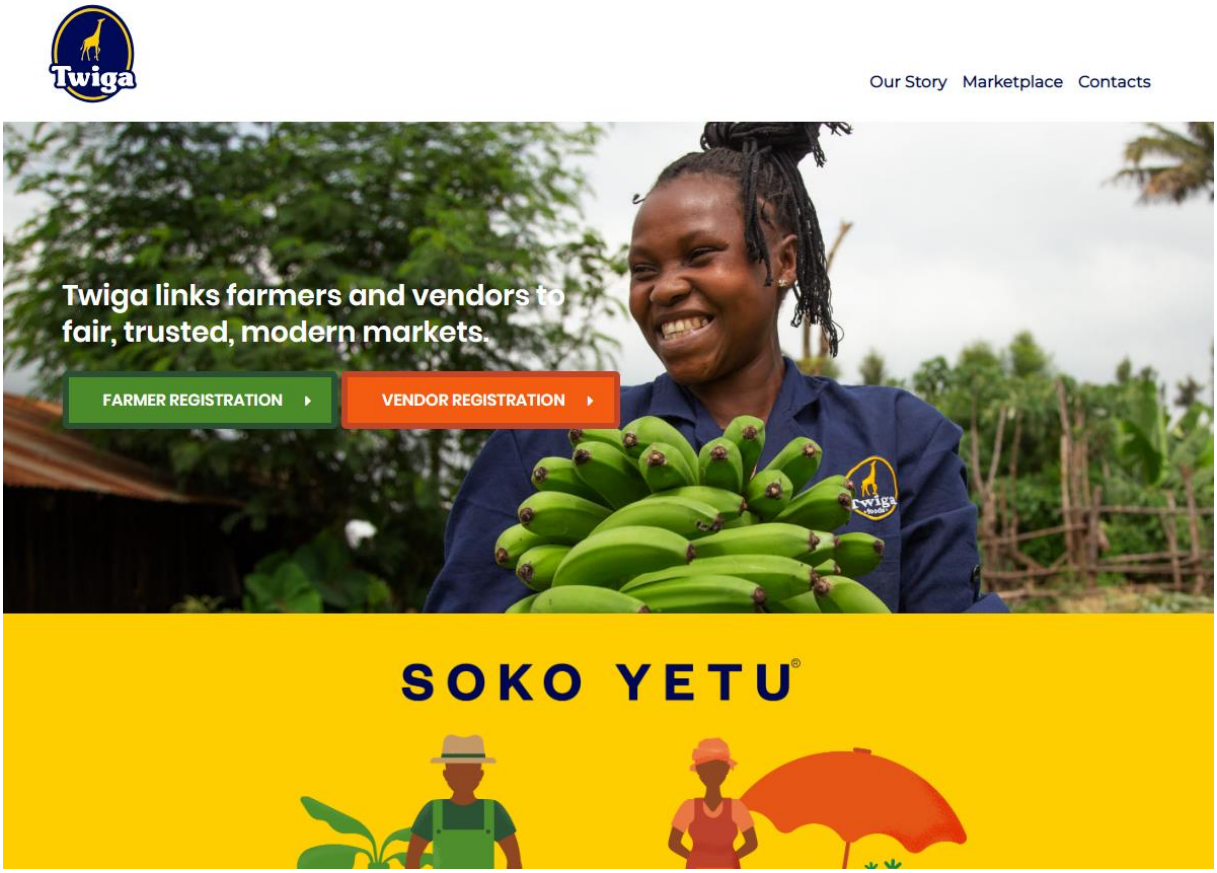
WSIS Values Promotion: It uses ICTs in order to bridge the gaps in food and market security

WSIS Action Lines: 6, BUS, ENV

SDGs: SDG2, SDG8, SDG10

Stakeholder Type: Civil Society

Country, Region: Kenya, Africa



Simplified import customs declarations for any natural person who receives postal or courier shipments from a non-EU country

Simplified import customs declarations for postal items has been introduced for clearance of low-value postal items from countries outside the EU: the client can complete customs formalities when it is convenient and without a service fee. Thanks to this solution, there is no need for clients to authorize postal or express service providers to perform customs clearance on their behalf. Filling in the form requires only the data available about the shipment. Additionally, for the client's convenience, a tax calculator for postal items is developed with which you can determine – before making a purchase in the online store – if the simplified declaration can be used and what the tax might be. Additional information: https://www.vid.gov.lv/en/customs-clearance-and-receipt-consignments

Website: https://eds.vid.gov.lv/login/;https://itvs.vid.gov.lv/#postTaxCalculate:lang:en

Target Beneficiary Groups:

Replicable Description: The project can be implemented by any country by adapting it to national legislation.

Sustainable Description: The new system creates long-lasting products that can be easily adapted to change, thus using resources efficiently. The systems are popular, easy to use on mobile devices, and environmentally friendly (paperless environment).

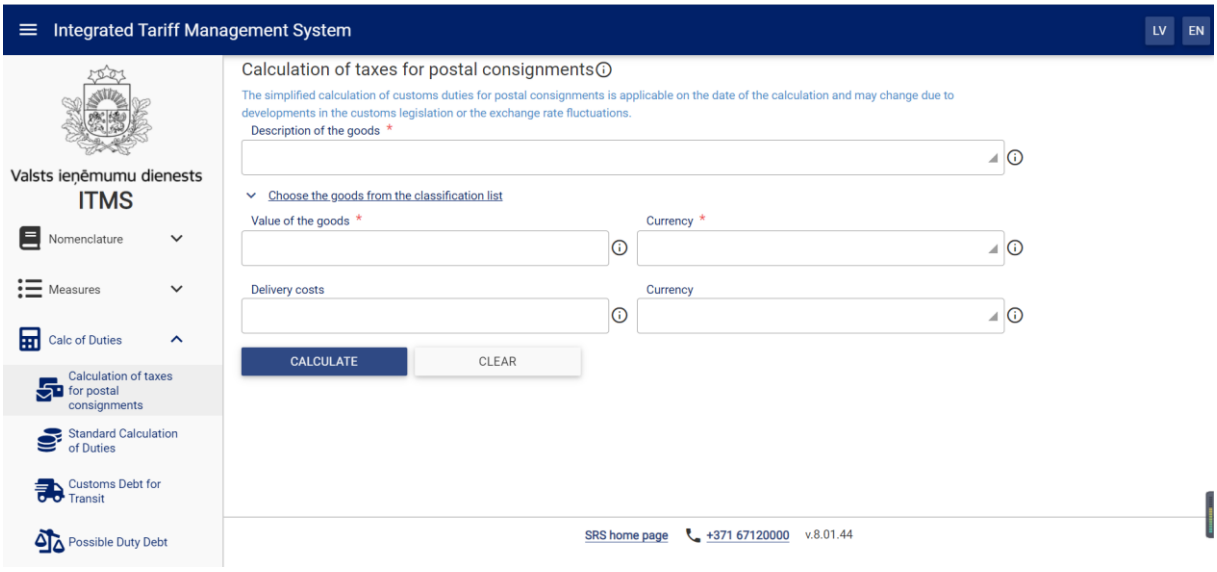
WSIS Values Promotion: The project is aimed at the digitalisation and accessibility of state services by simplifying declaration of postal items for natural persons. It provides benefits to individuals regardless of their age and prior knowledge about customs formalities and adheres to WCAG standards. The systems are convenient and simple and allow customs' clients to save time and money.

WSIS Action Lines: 3, GOV, BUS

SDGs: SDG9, SDG10, SDG11, SDG12

Stakeholder Type: Government

Country, Region: Latvia, Eastern Europe



Zima

Today more than 3Billion people still do not have internet access. On the other hand, there are 4 Billion Internet users worldwide. A third of them is served by small Internet Service Providers (ISPs). There are 5 million small ISPs globally, especially in rural areas. Zima is a Software as a service platform that enables small ISPs to manage their bandwidth, user subscriptions, and billing without the need for hardware. As a result, using Zima saves each ISP between $3000 and $15000 in upfront costs and hundreds of dollars in monthly recurring costs related to hardware maintenance, electricity fees and IT support. We currently have clients in 13 countries from Europe, North America, Middle East, Africa, and South Asia.

Website: https://zima.cloud

Target Beneficiary Groups: RURL

Replicable Description: Anywhere in the world Zima can be used. It saves the ISPs thousands of dollars in upfront costs and lowers the barrier to entry to empower them to serve their communities with internet connection.

Sustainable Description: It is sustainable, because it has a subscription model. It is enough to cover our expenses and to keep improving the project through R&D and development.

WSIS Values Promotion: Being chosen by WSIS as an impact project, we highlight the project and its contribution to WSIS values on our community forum visited by hundreds of ISPs for now (hopefully thousands soon). Also on our social media channels, and possibly a badge on our website. Also we can promote this in our local community through a workshop organized by our Internet Society - Lebanon Chapter

WSIS Action Lines: 3, BUS

SDGs: SDG4, SDG9, SDG10

Stakeholder Type: Private Sector

Country, Region: Lebanon, Asia and Pacific



E-Commerce Platform

The resounding success of e-Marketplaces such as alibaba and eNAM in China and India respectively connecting small and medium enterprises as well as individuals to the Global Marketplaces had provided the impetus for FAMA to revitalize its aspiration in providing Malaysian agricultural producers and Entrepreneurs with an online training platform as a means for them to directly reach out to buyers and resellers and reducing the need for the middlemen as typified by the existing market system. The said platform called Agrobazaar Online. The objective of this platform is to provide new and sustainable markets for agro-produce through the creation of an online community for an improved quality of life for the agro community and society at large. As for now, Agrobazaar Online has trained 8718 new entrepreneurs with around Malaysia Ringgit RM 10 million in sales with a good impact:i. Improvement in quality of life. ii. Catalyse the online community building iii. Better customer engagementtherefore, Agrobazaar Online definitely will be a great training platform for all entrepreneurs.

Website: https://www.agrobazaar.com.my

Target Beneficiary Groups: YOUTH, OLDP, WOMN, RURL

Replicable Description: Replicability in a sense of: i. Following the concept of our platform (e-marketing agricultural products). ii. Training in digital marketing. iii. Could be done or replicated by our neighbouring countries such as Singapore, Brunei, Thailand and Indonesia due to similarity in cultures, lifestyles and commodity produces.

Sustainable Description: Agrobazaar Online will sustain itself in the market due to it offers an active and Collaborative Virtual Community Model that offers the following advantages and benefits: i. Use of multi-functionality online and offline platforms to optimize the agro-community's potential for profit generation; ii. Expand business networking and markets at the local, regional and global levels by leveraging the online community; iii. Potential to transform and create a new breed of entrepreneurs; iv. Explore the synergy between offline and online business opportunities; v. Ease of access to up-to-date industry statistics and trends; and vi. As well as a viable business model as follows; training, support services, e-marketplace, community building, online and offline value chain.

WSIS Values Promotion: i. Economic equity: Opportunity for agro producers/suppliers to maximize their income by shortening the other unnecessary channels of distribution. ii. Transparency: Disclosure of the source of supply, product origin, product quality and price that allows for comparison shopping. iii. Low budget: Agrobazaar Online as a training platform being accountable and responsible for every Malaysia Ringgit spent by ensuring tangible and positive results.

WSIS Action Lines: BUS

SDGs: SDG1

Stakeholder Type: Government

Country, Region: Malaysia, Asia and Pacific



Data Integration with governmental organizations and business alliances

Public Authority for Social Insurance (PASI) aimed to provide digitalized services to its clients. Reaching such a goal emphasized PASI to enlarge it is data and not depend only on the data they own, nor, duplicate the effort of collecting the data held by other organizations. The issue of missing data integration resulted in a service that cannot be completed except after documents are added in each transaction and all these papers are requested repeatedly, which delays the process of completing a transaction involves human effort, additional resources, and maintenance costs. Therefore, PASI finds implementing Data Integration with governmental organizations and business alliances a must. The project focuses on (1) gaining access to the complex type of data that involves record linkage, which refers to the joining or merging of data based on common data fields. (2) Providing other organizations and business alliances with access to information owned by (PASI) which plays a vital role in enhancing their services, ensuring data correctness, and reducing cases of fraud. PASI was able to integrate with 24 organizations. Converted over 90% of its services to be automated due to data availability. And a 360 view of clients' data collected from different sources (organizations).

Website: https://www.pasi.gov.om/?lang=en

Replicable Description: All sectors

WSIS Values Promotion: 1.International and regional cooperation 2.Access to information and knowledge

WSIS Action Lines: GOV, BUS

SDGs: SDG16

Stakeholder Type: Government

Country, Region: Oman, Asia and Pacific



Industrial Portal Services

A smart interface designed to support investors in the industrial sector. The Industrial Services Platform allows completing all transactions pertaining to an industrial project in its various stages, as per the following: Establishment stage: This stage includes requests related to the initial approval (issuing, renewing, or writing off the initial approval). Construction stage: It includes licensing requests (issuing, renewing, or writing off), to establish an industrial project. Operation stage: This stage includes requests for an industrial operating license (registration certificate), in addition to completing a number of other transactions such issuing, renewing, or writing off, increasing production capacity, modifying production data, requesting changing the location of the industrial project, and requesting approval to shut down the industrial project. The Platform also allows submitting requests for incentives and exemptions, namely requesting a customs exemption for an industrial facility, and requesting power supply at favourable prices.

Website: https://industrialportal.moci.gov.qa

Target Beneficiary Groups: YOUTH, WOMN, UNEMP, POOR

Sustainable Description: Eliminate paperwork Facilitating procedures and making them electronically without resorting to traditional manual methods attracting new investors Facilitating foreign transactions Speed in completing investor requests Developing performance indicators for industrial development.

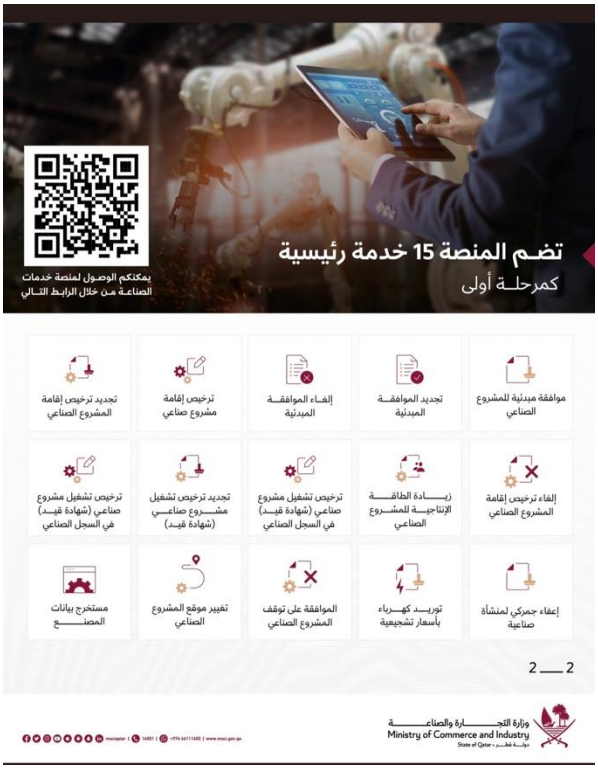
WSIS Values Promotion: website - social media

WSIS Action Lines: GOV, BUS

SDGs: SDG9

Stakeholder Type: Government

Country, Region: Qatar, Asia and Pacific



SAKANI

Sakani is a housing program created in 2018 with the aim of improving Saudi families' access to housing. Sakani helps families to own their first home by providing financing services and multiple package options with a wide range of services related to infrastructure, parking, gardens, schools, markets, and others. The main objectives of the Sakani platform and mobile app are to enhance the user experience in getting instant housing services, tracking orders online and enabling users to have different options in what concerns financial support, location and design. Sakani also has a critical role in providing opportunities and services to families in more vulnerable situations by integrating with social organizations that can validate the users' data. Sakani has been benefiting from partnerships with different organizations and stakeholders to speed up the approval of housing requests, and it has already served 1.4 million Saudi families since the launch of the program until the end of 2022, including 150 thousand families in 2022. Among those, 60 thousand housing units were for families in more vulnerable economic situations through partnerships with the non-profit sector, 155 thousand housing units were provided through partnerships with the private sector, and 665 were for families with subsidized mortgages.

Website: https://sakani.sa/

Target Beneficiary Groups: YOUTH, OLDP, WOMN, INDG, DISB, UNEMP, POOR, MIGR, RURL

Replicable Description: Sakani as a platform can be replicated in other countries in some features, such as housing requests and services and financial services and package options. However, based on regulations and housing services in other countries, it may need some customization in integration, user journey and partnerships. The solution was built in-house in the Ministry of Municipal, Rural Affairs and Housing in partnership with the National Housing Company. It has some copyright restrictions in terms of source code and needs agreements and potential adaptations if it is to be replicated in other countries. However, it is possible for any other country to build a similar solution to achieve similar objectives.

Sustainable Description: Sakani is a sustainable project, and no major future threats to the project's sustainability are expected. The project's sustainability is based on the fact that the project is built in-house with owned source code in partnership with the National Housing Company, owned by the Ministry of Municipal, Rural Affairs and Housing. Therefore, it is not dependent on external support. Sakani also benefits from a wide variety and quality of human resources with a well-defined structure and a clear division of responsibilities. It includes product managers, project managers, business analysts, developers, designers, quality testers, and security, operations, and support teams. The project is also gradually being open-sourced, with some features uploaded to the governmental platform for open-source.

WSIS Values Promotion: Sakani is aligned with the WSIS C7 E-Business Action line. It promotes e-business and partnerships with the private sector and enables economic growth and substantial employment opportunities in housing projects, fostering inclusive and sustainable economic growth, with more equal opportunities for all. Also, Sakani housing services support building new homes with resilient infrastructure, promote inclusive and sustainable industrialization, and foster innovation by applying new housing solutions like readymade houses, reducing building time and costs for all citizens. This promotes equal opportunities and financial freedom for people in more vulnerable situations, due to the partnerships with the non-profit sector. Its modern housing project contributes to making cities and human settlements more inclusive, safe, resilient and sustainable. It provides a new style of housing by providing all services within housing areas like gardens, parks, schools,

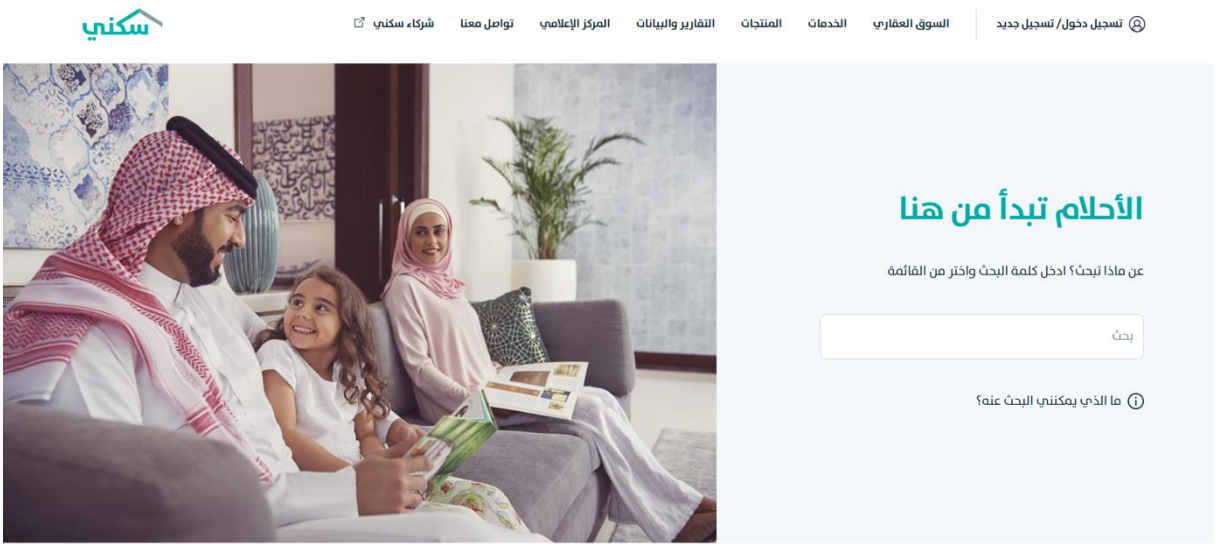
smart homes and more. Lastly, Sakani fosters the creativity of digital services which can tighten the collaboration between the public and private sectors.

WSIS Action Lines: BUS

SDGs: SDG8, SDG9, SDG11

Stakeholder Type: Government

Country, Region: Saudi Arabia, Asia and Pacific



Digitalize Vendor Bank Account Verification Process using Artificial Intelligence to Detect Suspicious Activities

Digitalize Vendor Bank Account Verification Process using Artificial Intelligence to Detect Suspicious Activities. The purpose of the project is to enhance and strengthen the security of vendors' bank accounts management process, we will develop an engine that tracks and monitors changes to bank accounts details using artificial intelligence. The engine will help to detect suspicions activities and prevent fraudulent incidents. The engine will analyze different events and trigger a workflow for reviewing suspicious changes or payments including but not limited to the below: • Using OCR to match the entered IBAN in the system against the attached documents • Check if the bank account was changed recently and a payment is following this change • Check if the bank account was changed more than once in a short timeframe • Check if the vendor has multiple related bank accounts and the new bank account differs in multiple ways e.g. all bank accounts are in the US while the new one is in Asia • Check if the main contact of the vendor was changed and the bank account changed in the same short period • Check if the account is sanctioned or vendor considered in a country with high risk • Check if the beneficiary IBAN information is different from the registered bank account

Website: https://www.aramco.com/

Target Beneficiary Groups: YOUTH, OLDP, WOMN

Replicable Description: The engine can be implemented in other corporates utilizing software solutions to detect suspicious activities related to vendor bank account management.

Sustainable Description: The solution provides a foundation to develop additional future scenarios, rules and plugins for proactively alerting about suspicious activities related to bank account management.

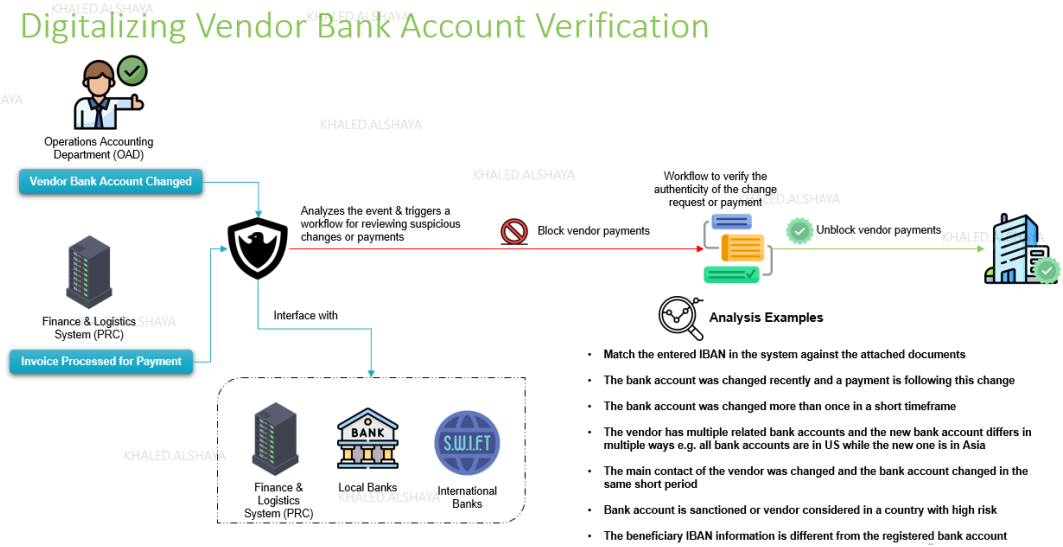
WSIS Values Promotion: The solution strengthens the security of maintaining banking details and prevents fraudulent activities.

WSIS Action Lines: BUS

SDGs: SDG9

Stakeholder Type: Private Sector

Country, Region: Saudi Arabia, Asia and Pacific



TradeTrust - A Trust Network for Trading Partners

TradeTrust, is a framework that comprises globally accepted standards to enable trusted interoperability of electronic trade documents across parties (business and government alike), and is offered open-source (free) as a public good to any and all parties. TradeTrust aims to provide a comprehensive digital solution to deal with the two key types of documents in international trade; (a) Verifiable Documents (e.g. Certificate of Origin); and (b) Transferable Documents (e.g. title documents such as Bill of Lading) providing a means to verify the (1) Authenticity; (2) Source; and (3) Legally Valid Performance Obligation Transfer. Today, most shipping and the financial process which supports shipping - Trade Finance - is still paper based. A single shipment involves; (i) many parties across different sectors; (ii) many exchanges of information; (iii) many siloed systems; (iv) at varying levels of digital maturity. This is inefficient and outdated. Physical trade document processing and administration is estimated to make-up 20 percent of the total cost of shipping. Goods can arrive at their destination while the paper documents are still making their way through the supply chain, leading to delays in cargo delivery. Observed benefits from the trials include instant authentication and provenance (cutting processing time from days to hours and lowered shipping costs for MSMEs) of documents, reducing risk of fraud (improving financing options for businesses) as well as opening up business opportunities (through inter-operability of platforms). These benefits will in turn create a ripple effect of positive change that reverberates across the entire supply chain ecosystem. Due to the open-source nature of the framework, enterprising individuals and businesses have utilised the source code to explore more use cases beyond international trade such as the creating of Digital Art pieces and a NFT market.

Website: https://www.tradetrust.io/

Target Beneficiary Groups: POOR, RURL

Replicable Description: TradeTrust is an open-source project and the source code is freely available on GitHub for all parties to implement. Extensive documentation is provided to guide parties through implementation. Singapore welcomes Governments and Businesses around the world to implement the TradeTrust framework.

Sustainable Description: TradeTrust is an initiative designed to promote paperless trade and hence reducing the carbon footprint cause by paper documents used in cross-border trade. TradeTrust can also be applied to the use case of Carbon Credits.

WSIS Values Promotion: At its core, TradeTrust uses ICT to digitalise a sector, in this case International Trade, which is historically resistant to change, and opens up possibilities for true interoperability, end-to-end. Firstly, it helps build a resilient infrastructure, one that is not dependent on single or big ecosystem players, but rather an entire network that can freely trade with one another. Next, it promotes inclusiveness and sustainable industrialisation, through its open-source nature allowing any and all users the opportunity to view the source code freely and apply them accordingly. The eventual implementation is within the digital realm, allowing for scalability to grow its use case and network of partners as well as championing the paperless initiative. Lastly, it fosters innovation through its framework nature, deliberately not affixing itself to a particular sector but rather lending itself to easy implementation across a multitude of sectors through its use of a MLETR, promoting legal harmonisation across jurisdictions as well as globally accepted international Standards.

WSIS Action Lines: 1, BUS, 11

SDGs: SDG8, SDG9, SDG10, SDG12, SDG17

Stakeholder Type: Government

Country, Region: Singapore, Asia and Pacific



Life is Simple with Digital Technologies

Türk Telekom makes information technologies available for everyone for sustainable economic growth and social development in every corner of Turkey. The focus motivation is to provide inclusive, equal and safe access and use of ICTs for all. "Life is Simple with Digital Technologies," being carried out in cooperation with the Union of Chambers and Commodity Exchanges of Turkey (TOBB), United Nations Development Program (UNDP), and Habitat Association, Türk Telekom aims to enhance women's participation in life to strengthen women's place in society by developing their digital competencies. Within the project's scope, 10,000 women will have received digital literacy and digital marketing training by the end of the project, additionally 500 women of those who has attended the training will have participated to design-oriented thinking workshops, and 20 of them will receive one-to-one mentoring support and finally 10 of those who had been offered mentoring will receive grant. . The digital literacy curriculum includes the transformation of information technologies, e-government and e-health services, online banking, cyber security… The digital marketing training content includes marketing, digital marketing, patent, trademark registration, e-commerce legislation, professional account opening and management in social media, mobile photography, promotion of digital marketplaces, and internet advertising.

Website: http://www.turkiyeyedeger.com.tr/dijitalde-hayat-kolay/

Target Beneficiary Groups: WOMN

Replicable Description: Türk Telekom provided digital marketing trainings to 5,000 women in the period of June 2019-June 2021, organized a Design-Oriented Thinking Workshop with 500 women selected from among them, and provided mentorship support to 100 women selected from among 500 women, with the "Life is Simpler with Internet for Women with Goal" project. Upon the successful results of the project, the new project was launched on March 8, International Women's Day, with the name of “Life is Simple with Digital Technologies” and with the aim of reaching 10,000 women. The project expands its sphere of influence by inspiring many women with the success stories it has created and continues on its way with revised trainings in line with the needs and developments of the day.

Sustainable Description: Türk Telekom offers information technologies, which are the main driving force for sustainable economic growth and social development, to use in every corner of Turkey, and considers it its corporate responsibility to contribute to the access to information of all segments who cannot participate in social life due to economic, social or physical reasons, in addition to the products and services it develops. The existence of a sustainable economy is possible with the full and equal participation of women and men in all areas of social life. In light of this information, women should effectively benefit from information and communication technologies. Their digital skills should be strengthened not to alienate them from today’s rapidly changing world. With the project not just because Turk Telekom offers digital literacy trainings for free to all around Turkey since 2013 under the changing project names and with partners and for targetted groups with different disadvantages, but also with the social impact which has been displayed have been supporting UN Development Goals of Gender Equality and Reduced Inequalities.

WSIS Values Promotion: The project aims to reach more women empowered by digital capacity building trainings to contribute to gender equity and boost sustainable economic growth. The outcomes of the project has shown that the trainings are not just to help women more engaged in economy but also increased their self-esteem and help women back to business who had been to be excluded for various reasons such as having parenting responsibilities or being unemployed. The project outcomes since women with digital

competencies have more social and economic independency promotes equality, freedom and shared responsibility of WSIS values.

WSIS Action Lines: 3, 4, BUS

SDGs: SDG4, SDG5

Stakeholder Type: Private Sector

Country, Region: Turkey, Western Europe and North America



WSIS Action Line C7. ICT Applications: e-learning

Learning programming, robotics and IOT in children and adolescents

One of the challenges of our time is to get children and adolescents to want to learn how to develop technology. Attempts to incorporate programming, robotics, and IOT, in the school curriculum, face the problem of not having enough teachers in a position to teach these topics. The ULP defined different strategies to achieve the objective: A programming learning platform that can be used from mobile phones or computers, for primary school students (block programming) and a different one for secondary school students (textual programming).The distribution of robotics kits in schools and the training of teachers to use these tools did not achieve the expected results, among other reasons due to the loss of kit components. In 2019 we created a 40m2 model. A recreation of geographical and cultural places linked to the past, present and future of the province. The model contains remotely programmable objects and sensors: trains, cars, street junctions, tractors and field instruments, archaeological ruins, airports, sports stadiums, public buildings and schools. Children, adolescents and even adults -from any place in San Luis-, obtain skills in the operation of robotic and IOT systems through the programming of the model objects, and observe the result of the coding through streaming. Connected to the programming platform and after acquiring certain skills, it is possible to experience the manipulation of the model objects, according to the levels of experience and complexity. The model is divided into zones where there are groups of objects that can be activated individually or jointly. It is a thematic trigger that allows you to develop challenges and exercises with different levels of difficulty, while promoting the training of human resources in IT. Today, more than 4,000 students perfect their programming skills, learn new technologies, interact with remotely programmable robotic objects from anywhere in the province; and develop cultural and professional links, from San Luis to the world.

Website: http://maqueta.sanluis.gov.ar/

Target Beneficiary Groups: YOUTH, OLDP, WOMN, INDG, DISB, RURL

Replicable Description: It is a replicable project anywhere where the right conditions come together. Having a solid investment in technological infrastructure and digital public policies is essential. The functionality and access to the model is determined by a history, policy and infrastructure with more than 20 years of experience. The infrastructure allows connectivity, so that everyone from anywhere in the province can access, without this the training provided will not be used. It is a concept, it is not enough just with the replica of the model itself, the conditions that allow access to it are also necessary.

Sustainable Description: This initiative arises as the result of the implementation and execution of a political project, whose objective is the social and digital inclusion of its inhabitants, through a strong investment in technology. The idea was to build a scientific project based on equity; more extensive and complex, but infinitely more rewarding. An example of this long-term policy is that in 2011 San Luis modified its Provincial Constitution to incorporate the right of citizens to digital inclusion. This premise places us in this new stage with three fundamental pillars: 1. Connectivity: As a consequence of the strong investment during these years, connectivity reaches all cities, towns and places. San Luis is in a position to carry out a new stage in connectivity because the Information Highway reaches the entire territory. Now with a plan in execution to reach all citizens with FTTH, at 1000 Mbps. 2. Devices: This stage is an integral part of a digital policy plan that developed the Wi-Fi connection and the delivery of computers and tablets. Without devices there is no possible inclusion, and this stage will be framed by the expansion in the delivery of devices. 3.

Education: The Internet in all locations in San Luis facilitates education, training and skills development, regardless of where the students are located. This stage deepens the training proposals, among many others, the model.

WSIS Values Promotion: It is possible to promote the exchange and strengthening of global knowledge in favor of development by removing the obstacles that prevent equitable access to information for economic, social, political, health, cultural, educational and scientific activities. That freedom is the way. A rich public domain is an essential factor for the growth of an Information Society, because it generates multiple benefits: an educated public, new jobs, innovation, business opportunities and the advancement of science. Access to knowledge must be considered as a transversal component of a truly inclusive Information Society. In San Luis it is a conviction to promote universal access with the same opportunities for all. Access to scientific knowledge, to the creation and dissemination of scientific and technical information, with digital inclusion for all the inhabitants of the province. Learning programming, robotics and IOT in children and adolescents through the San Luis 4.0 Programmable Model: Promotes the use of different technologies. It is a tool that facilitates access to knowledge. Increase the digital skills of users. Contribute to the Information Society. San Luis is a digital State and connectivity is free throughout its territory, with a strong investment policy in digital matters, which enables Internet penetration of more than 95%. Digitization has solid roots in an infrastructure that has 1,762 Wi-Fi antennas (wifi.sanluis.gov.ar); 99% of them connected by optical fiber to the "Information Highway" network, which has more than 5,400 kilometers of its own optical fiber. This wireless infrastructure allows 25 Mbps average connection speed in homes connected to the world's largest free public Wi-Fi network (FTTH up to 1000Mbps). This Digital Universe of San Luis was enriched by the delivery of 165,000 devices with NFC: to children, retirees, teachers, health and security personnel. We are ambitious: We work to achieve an effective democratization of knowledge.

WSIS Action Lines: 3, 4, LEA

SDGs: SDG4, SDG5, SDG8, SDG11

Stakeholder Type: Academia

Country, Region: Argentina, Latin America and the Caribbean



Data discount scheme for students

During the most difficult months of the Coronavirus pandemic, all the educational facilities were closed in Bhutan. With the closure of the schools, universities, libraries and laboratories, students and pupils were required to continue their academic sessions online. In response to this, the Ministry of Information and Communications in collaboration with Telecom Operators introduced discounted data schemes to enable all the students and pupils to access online learning. This initiative contributed to greater inclusivity, reducing poverty, as well as it increased confidence in the use of ICTs.

Website: https://www.moic.gov.bt/

Target Beneficiary Groups: YOUTH, POOR

Replicable Description: Yes, the project could be implemented also in other countries.

Sustainable Description: The project is sustainable as no additional cost is involved.

WSIS Values Promotion: The project promotes WSIS values in several ways. It contributes to the promotion of education, reduction of poverty, greater inclusivity, as well as to the safety of pupils and students during the Covid-19 pandemic, all with the help of ICTs.

WSIS Action Lines: 1, 3, 5, LEA

SDGs: SDG1, SDG3, SDG4

Stakeholder Type: Government

Country, Region: Bhutan, Asia and Pacific



Connected North

Connected North provides live, interactive virtual learning experiences and access to educational resources for students and teachers in remote communities, supporting them where they live. Through the program, Indigenous students from Kindergarten - Grade 12 are offered unique opportunities to thrive. Connected North currently serves more than 25,000 students in more than 140 schools in remote Indigenous communities. 96.5% of teachers feel that Connected North sessions help to engage their students, contributing to their attendance in class and motivation for learning.

Website: https://www.connectednorth.org

Target Beneficiary Groups: YOUTH, INDG, RURL

Replicable Description: Connected North helps educators and schools' access live, interactive learning experiences. Through the development of our program, we have built the capacity of dozens of educational institutions and individual Indigenous experts to be able to deliver virtual learning experiences. These institutions and experts now have the skills and technology capacity to deliver this type of learning to students and schools far beyond our own network of schools.

Sustainable Description: While the program began with funding from corporate partners and individual donors, after almost 10 years of program delivery, the majority of our school partners are now being funded for program delivery directly by community and government partners. When we onboard a new school, we aim to secure co-investment from the beginning of their participation to ensure shared ownership and sustainability of their participation.

WSIS Values Promotion: Connected North works towards promoting the value of equality of access to a high quality, culturally relevant learning experience. Due to the history of intergenerational trauma, lack of resources to communities, and other complex factors, 44% of Indigenous students do not complete high school, compared to 12% of non-Indigenous students in Canada. We also work to amplify the value of shared responsibility, engaging more than 30 corporate, government, and philanthropic partners who provide resources to make the program possible, and more than 300 content providers who deliver interactive digital learning.

WSIS Action Lines: 3, 4, 5, LEA, 8

SDGs: SDG4, SDG10

Stakeholder Type: Civil Society

Country, Region: Canada, Western Europe and North America



Internet + Education big data platform

The "Internet + Education" big data platform is a one-stop office-school integration platform for the Department of Education/bureau based on education informatization 2.0. Based on the dual middle and middle platforms of smart education, it integrates application and data and provides eight application services for education administrators, teachers and students, including precision teaching, education management, campus safety, teacher research and education, and education evaluation. We will address problems such as uneven education development, data silos, and difficulties in pooling high-quality resources, and help upgrade the model of education service supply and education governance.

Website: http://www.chinatelecom.com.cn/

Target Beneficiary Groups: YOUTH

Replicable Description: The construction of this project meets the overall requirements of the current national and regional education informatization to promote the balanced development of education, improve the quality of education and teaching, strengthen the prevention and control of education safety, promote the construction of education informatization, and solve the problems of education informatization in weak schools, teaching points and village small schools in rural and remote mountainous areas. It is of positive significance to improve the educational management service level of Haba River and the campus security prevention and control ability. In the fields of information construction, electronic education and teaching, education management and management, the domestic technology conditions have been very mature at present. The operation and management experience mode of the education industry information project can be used for reference and replicable, and the technology and management are completely feasible. The design is generally comprehensive.

Sustainable Description: During the implementation of the project plan, we will constantly promote and train schools, teachers and students in all regions to use our platform to create high-quality and distinctive teaching courseware, teaching content and teaching courses. These resources can be shared with teachers and students who need them without space limitation through our platform. In this way, teachers and students in remote and poor areas can share high-quality education resources, narrow the gap between regions, urban and rural areas, and between schools, improve the quality of education, and promote education equity. 1) Platform: We build platforms for schools, districts, counties, cities and provinces to provide education services for millions of teachers and students. At the same time, we hold various activities and incentive models to encourage teachers and students to use the platform. In the process of use, high-quality resources are deposited into the platform resources and shared with users in need, so as to keep the system active and realize the co-construction and sharing of high-quality resources on the platform. Ensure the benign operation of the platform. 2) financial: The state and the government support education 3) organization: The country has pointed out the need to build an Internet + big data education platform 4) Other types of sustainable development NGOs and projects come in all shapes and sizes. Thus, in addition to platform, funding and organizational sustainability, there are many other areas where NGOs can achieve sustainability. For some types of NGOs, this also includes: Business sustainability: The project will generate financial revenue or profit and continue to rely on labor income to provide services. Environmental sustainability: Projects use resources in such a way that needed resources never disappear.

WSIS Values Promotion: Internet + Education includes digital libraries, data centers, digital learning tools, etc. Communication technologies can promote education popularization, realize education equity, provide quality learning and teaching environment, improve

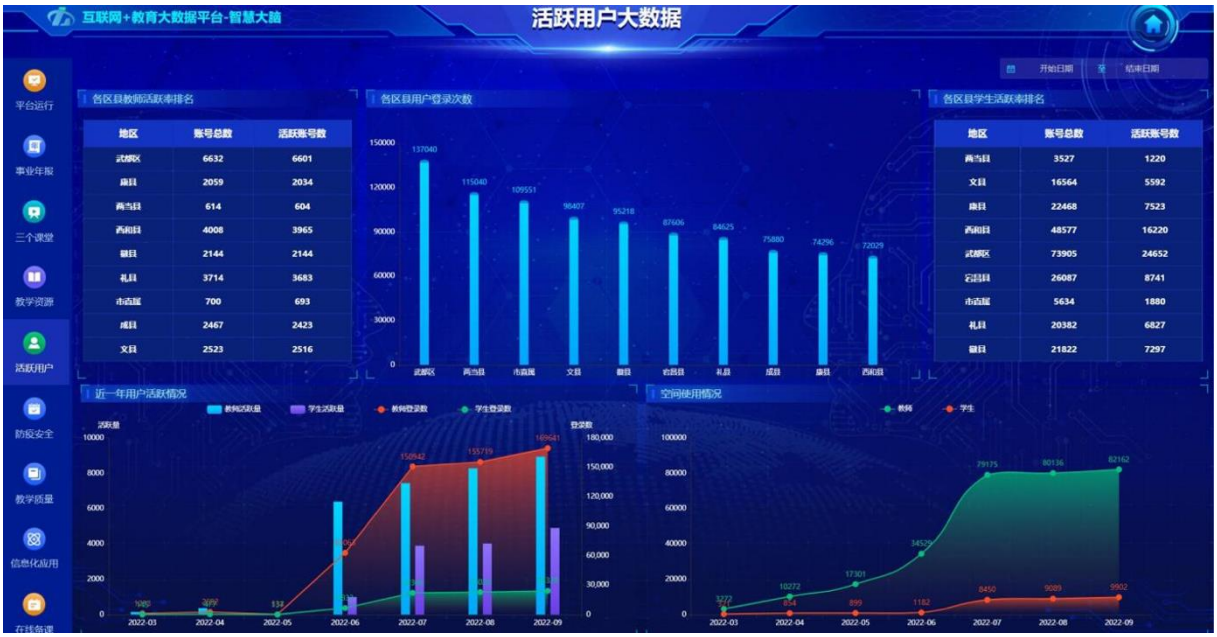
professional standards, improve lifelong learning conditions, and tap the potential of people without formal education through educational communication and teacher training. Informationization helps to achieve universal education worldwide.

WSIS Action Lines: LEA

SDGs: SDG4

Stakeholder Type: Private Sector

Country, Region: China, Asia and Pacific



Digital Cloud Campus Platform

A unified, open and efficient digital campus cloud platform is built for primary and secondary school principals, teachers and parents. It provides campus security for schools, management services for principals, teaching tools for teachers, and home-school co-parenting for parents. Through the digital campus integrated solution, we will explore new models of network management, education and teaching, promote the deep integration of information technology and education and teaching practice, expand the coverage of high-quality education resources, improve education equity and teaching quality, and promote the sustainable development of campus informatization. At present, it has served 38,000 primary and secondary schools and 4.8 million students nationwide.

Website: https://zhxy.ctxy.cn

Target Beneficiary Groups: YOUTH

Replicable Description: The unified entrance is realized based on web and mobile terminal to lower the user access threshold. Schools and education authorities in various regions can copy, promote and use, and all kinds of resources deposited through the platform can quickly call each other in different regions. In order to ensure the reproducibility of the platform, the management functions are constantly innovated and improved, and the teaching resources are continuously deposited and shared. To comprehensively improve the school information management level and teaching level. Through the digital cloud campus platform, resources can be continuously updated and shared through the digital cloud campus platform, school management can learn from each other and use Through the digital cloud campus platform, data can be realized across the region of the call Through the digital cloud campus platform, all resources and tools can be translated into different languages and spread globally

Sustainable Description: The sustainable development of the digital cloud campus platform is, on the one hand, the platform can continue to access and support all aspects of information application of the school through the unified entrance intensification; on the other hand, the data value generated by the school management and teaching can be continuously mined through the capacity of the data center, so as to continuously sublimate the data value. The continuous innovation and development of the platform make customers rely on the platform. To achieve sustainable development: 1) The continuous updating of data structure in line with the education industry is the basis for sustainable development 2) The continuous filling of data center and the continuous embodiment of data value are the guarantee of sustainable development 3)Unified and intensive user access is the driving force for sustainable development

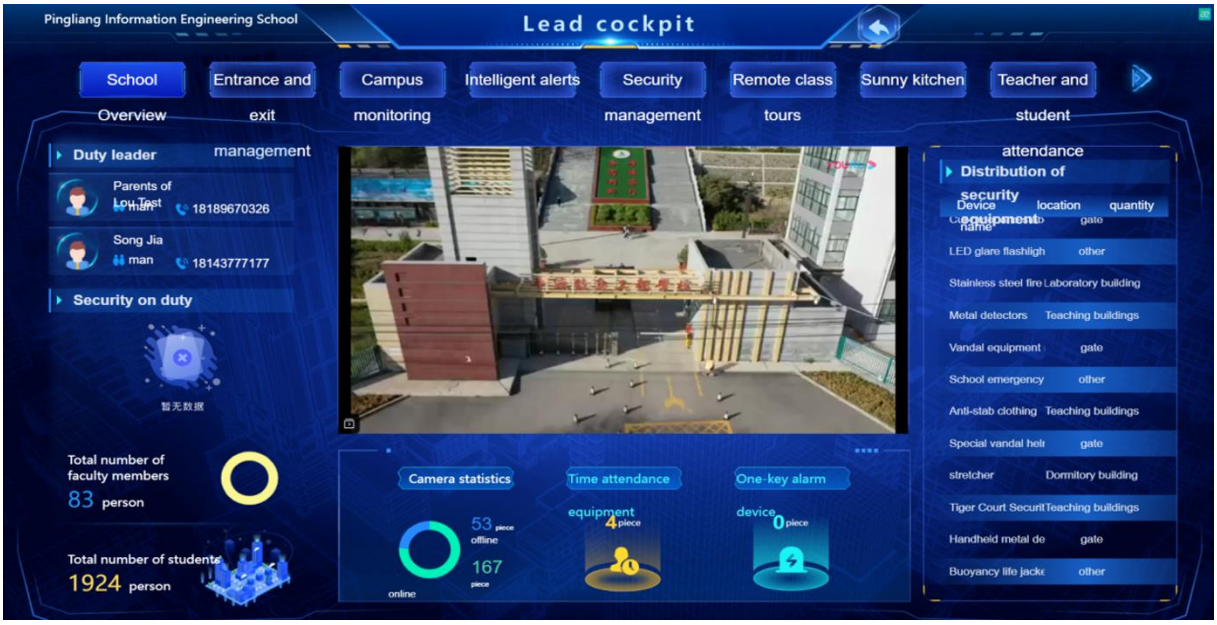
WSIS Values Promotion: Education is essential for individual development, economic growth and social cohesion. This is also a work that plays a decisive role in fighting poverty and maintaining sustainable development. The digital cloud campus aims to provide convenience for school management, guarantee for teaching services, and provide tools for home-school communication. It adheres to the principle of "education plan, teacher-centered" to provide educational services for teachers. Under the premise of mature education information hardware and network environment, it can further promote the survival of the fittest campus information application, aggregation of application entrance, improve work efficiency. Under the comprehensive solutions of education management, campus safety, precision teaching application, epidemic prevention and control, we will provide more high-quality, efficient, stable and low-cost information construction means for schools. At the same time, unified and sustainable project upgrading operation and maintenance can ensure that campus informatization is always synchronized with the development of national education informatization, and promote the sustainable development of smart campus.

WSIS Action Lines: LEA

SDGs: SDG4

Stakeholder Type: Private Sector

Country, Region: China, Asia and Pacific



Computing Network Convergence Enables the Construction of High Quality Remote Video Education System in Underdeveloped Areas

Based on China Mobile 's powerful network resources and abundant computing resources, the project supported the construction of remote video education system. The project provides an integrated solution of private line + edge computing + remote video application. Based on IPv6 scale deployment, the project adopted optical transmission protection mechanism, SRv6 flexible scheduling, CDN sinking and intelligent precise scheduling to provide high-quality (packet loss rate<0.01%) remote education services for underdeveloped areas, effectively solve the problem of uneven education. This project is oriented to remote education services and provides an integrated solution of computing network convergence (CNC). It belongs to the application of information and communication technology and conforms to the WSIS action policy mentioned in the Geneva Action Plan. This service has served 73000 students in 13 provinces, 367 schools, greatly improved the education level in underdeveloped areas, promoted the gradual maturity of the education industry chain and radiation industry block in remote areas, and created an application demonstration of CNC in less-developed regions. CNC is a new generation of information technology, Operators should make full use of the new generation of information technology on the basis of the basic network to achieve sustainable development in underdeveloped areas. This project creates an integrated solution for remote education through converged networks and computing. The CNC has no barriers to other technical fields and applications as a underlying technical foundation, and can be used as a basic capability to empower more fields, such as media, healthcare, industry, etc.

Website: https://www.10086.cn/

Target Beneficiary Groups: YOUTH, POOR

Replicable Description: In the world, the problem of educational imbalance has always been a difficult problem. It is proved to be a feasible solution to solve the problem of education imbalance through IT technology and network technology. With the economic downturn and the long-term continuation of the COVID-19 pandemic, the digital gap between underdeveloped areas and developed areas in some developing countries is widening, leading to the growing imbalance of educational resources. This project makes full use of the network technology advantages of telecom operators to improve the network stability through high-quality CDN distribution, promotion of IPv6 deployment, and high reliable dedicated line quality assurance. At the same time, it innovates and develops a real-time education classroom synchronous interactive video communication system according to the characteristics of unbalanced education to provide an integrated, digital and standardized solution for the education industry. China Mobile is also deeply communicating and cooperating with telecom operators in other international regions to explore the promotion of the project in other underdeveloped regions, so as to provide support for the development of local education. China Mobile has made full use of its advanced network technology advantages and better IT development capabilities to effectively integrate internal resources and form a benchmark solution. The project is highly standardized and highly reproducible, and is also being promoted in smart medicine, media video and other fields.

Sustainable Description: The construction of the education system in underdeveloped areas is a long-term and continuous process, which has become an important carrier of social care and livelihood security. Based on the implementation of this project, end-to-end high-quality distance education services have been provided for underdeveloped areas, and the live teaching and educational interaction between high-quality schools and schools in remote areas have been realized, effectively alleviating the imbalance in education, In the future, the achievements of the project will continue to enable the education services in underdeveloped areas, and can be extended to countries and even more regions around the world. Along with

the development of media technology, new media technologies such as holography, VR, AR can provide an immersive teaching experience for the classroom, and more abundant teaching models can further improve the education level in underdeveloped areas. As a hot topic in the ICT field, computing network integration is an inevitable trend of industry development. It can provide the above business scenarios with low latency, large bandwidth, and highly reliable underlying resource base, and effectively ensure the effective development and large-scale implementation of more new forms of distance education scenarios.

WSIS Values Promotion: It is one of the goals of the United Nations for sustainable development to provide inclusive and equitable quality education and enable all people to enjoy lifelong learning opportunities. Education is the driving force of social development, but limited by geography and other constraints, the educational resources in underdeveloped areas are backward. In this project, China Mobile adopts an integrated information communication solution integrating computing and networking to overcome the problems of low real-time and poor interactivity of distance education caused by long communication lines, easy interruption, small bandwidth, and unstable signals, and break the barrier of unbalanced education resources, so that underdeveloped regions can also enjoy high-quality school education resources and improve the local education level, In line with the WSIS action policy mentioned in the Geneva Action Plan. The project has broad application prospects. Driven by this project, China Mobile is communicating on how to carry out e-health, industry and agriculture, so as to enable underdeveloped regions to obtain information and use information and communication technology, and thereby improve the local medical, industry and agriculture level, which is also in line with the programmatic goal of C7 in WSIS action plan, that is, the application of information and communication technology will benefit all aspects of life. In addition, China Mobile is also conducting in-depth exchanges and cooperation with international peers to provide strong support for the sustainable development of education, medical care, production and other industries in underdeveloped regions through exploratory promotion of the project.

WSIS Action Lines: 4, LEA

SDGs: SDG4

Stakeholder Type: Private Sector

Country, Region: China, Asia and Pacific



African Digital Schools Initiative

GESCI COVID-19 Response: https://gesci.org/news-room/news/single/news/detail/News/gescis-covid19-response/Global e- Schools and Communities (GESCI) is primarily responding to the COVID crisis in education through:¬Launching a Students' Resources for online learning platform: https://bit.ly/2Lf1uEN¬Teacher Professional Development (Coding webinars: https://bit.ly/3cyIT2c¬Engaging teachers through the Community of Practice: https://bit.ly/3dyvojh¬The e-Readiness Framework and Costing of ICT Integration Model

Website: https://oer-studentresources.gesci.org/

Replicable Description: Yes. Currently, the project is being implemented in Côte d'Ivoire, Kenya and Tanzania. The project, with all its platforms, frameworks and support, is easily contextualised for any country to implement successfully. An independent mid-term review of ADSI is available at www.gesci.org.

Sustainable Description: Yes. Mindful that countries need to adopt policy which ensures that ICT technologies are accessible and affordable for all citizens and that ICTs are fully able to support national development policies to promote growth and reduce poverty, the ADSI model provides a systematic approach to the development and absorption of ICT as a tool for sustainable educational development. Working directly with ministries of education and local education authorities, long term sustainability is being fostered by: • Involving key partners in design, planning and implementation of project processes and activities to promote and ensure institutional ownership of project activities as well as build capacity • Focusing on institutionalization of project activities and processes and strengthen capacity at all national, district/zonal and school level and address institutional capacity needs to ensure long-term impact and sufficient follow-through capacity within key institutions • Building the capacities of schools to attain and retain Digital School status which, as an ongoing ICT improvement initiative the Digital School • Regularly reviewing implementation and where possible exercising flexibility by adjusting/responding to project challenges and barriers. ADSI obtains regular feedback from key stakeholders about progress and strategies • Providing ongoing project evaluation to provide feedback on performance and promote course correction and sustainability • Recruiting and engaging School Officials and National Expert Champions who receive training in ADSI and assist in facilitating ADSI expected changes and outcomes. • Developing community support and ownership for the project in the school communities.

WSIS Values Promotion: The role of governments and all stakeholders in the promotion of ICTs for development, ICT applications: benefits in all aspects of life — E-learning

WSIS Action Lines: 1, LEA

SDGs: SDG4, SDG5

Stakeholder Type: International Organization

Country, Region: Kenya, Africa

National E-Learning Platform for Health

The Oman Medical Specialty Board (OMSB) is committed to ensure the growth of human resources for health by leading the advancement of medical professions to ensure excellence in healthcare. The OMSB is focused on training the physicians (medical residents and fellows) on the best and advanced technologies to prepare them in improving the healthcare and patient satisfaction. One of the Human Resource Development tools applied in our organization is Tebyan, the National E-learning Platform for Health, which was one of the strategic projects that was launched three years back.

Website: https://e-learning.omsb.gov.om/

Sustainable Description: The mission of the Oman Medical Specialty Board is to maintain and improve the quality of medical care throughout the Sultanate of Oman. This can be achieved by developing and maintaining postgraduate medical specialty education and setting the professional and educational standards for the training and certification of medical and health professionals. OMSB will strive to educate the next generation of leaders in medicine and lead with compassion, creativity, flexibility and steadfastness to meet the challenges of the new century and to fulfill our destiny of service and quality. Therefore, the OMSB has been adopting different advanced technologies to serve the beneficiaries beside the e-learning platform like: - 3D printing machine to produce educational materials like bones and soft tissue. - Immersive room to imitate the real situations like hospital and other scenes. - 3D virtual simulator to simulate eye surgeries, arthroscope and laparoscopy. - High Fidelity Mannequins used to train student in rescuing patients. - Virtual simulation workshops.

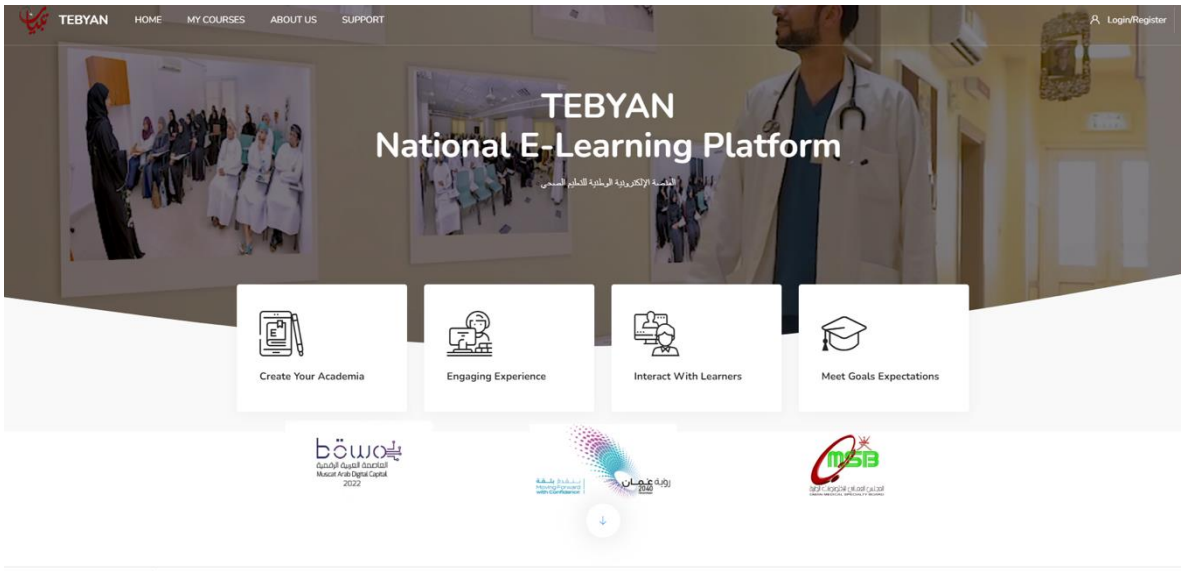
WSIS Values Promotion: OMSB vision is to achieve excellence in postgraduate medical education, training, assessment and accreditation throughout the Sultanate of Oman. This will improve the knowledge, skills, and experience of the medical and health care professionals. Through this, the OMSB has a vision to improve the health and health care of patients and the Omani community to achieve or exceed international standards and expectations.

WSIS Action Lines: 3, GOV, LEA, HEA

SDGs: SDG3, SDG4

Stakeholder Type: Government

Country, Region: Oman, Asia and Pacific



#keepCTRL – youth safe online!

One of UKE (Office of Electronic Communications) priorities is educating young users on responsible use of online services and preventing dangerous situations. The main objective of UKE's educational activities is improving the digital competences. As we are deeply concerned about youth, we conducted a series of Children's Day webinars in 2022, addressed to students of 6-8 grades of primary schools (12-15 years), which covered issues related to hate acts and hate speech, sexting, fake news, disinformation and phishing. The webinars were a response to the changes observed in cyberspace: the systematic increase in the number of users of services and, at the same time, the growing number of threats such as phishing, hate acts, misinformation, or sexting. The webinars were designed to emphasize the importance of protecting one's privacy, the use of complex passwords to ensure account protection and being careful about data and life sharing on social networks. We urged young people to check privacy policies on social media accounts, manage privacy settings and, not enter sensitive data online, but also to refrain from sharing everything and to think about the sense of reporting online their all life. We strongly warned against sexting and sextortion, i.e., sending one's intimate photos, videos, and content, which are becoming increasingly popular among teenagers. Webinars were very successful, they gathered in total 14 302 participants. The initiative has been promoted by the Regional Educational Offices in Poland.

Website: https://cik.uke.gov.pl/en

Target Beneficiary Groups: YOUTH

Replicable Description: The project of open webinars for youth will become a permanent part of the educational campaigns undertaken by UKE (Office of Electronic Communications). The first edition, due to the subject, was aimed at students of older elementary school grades, i.e. 6-8 grades (12-15 years old). The starting point for the organization of online classes was the opportunity to talk about topics that are young people's concerns but are difficult to conduct in a school setting. Problems accompanying online activities are known to every Internet user and UKE's answer is based on the strong need of educating kids from an early age about the safe use of the internet. Our goal is to raise awareness and remove barriers to the use of technology. In previous years, we have conducted many activities related to Internet safety, so we are aware of the needs and respond in the form of periodic webinars on this topic. The assumptions and availability of online workshops are also promoted directly by UKE educators, who give lectures and presentations on the advantages of e-services and user protection at major events in Poland. The aforementioned lectures are also broadcast online and available for viewing at any time.

Sustainable Description: Educational activities available online make it possible to reach a much larger audience than traditional stationary workshops conducted in school facilities. The ability to connect with students in a virtual formula is an additional advantage that shows the opportunities that the use of e-services opens up to everyone, regardless of age or gender. In addition, the conducted meetings help users with low digital competence to find their way in the new realities of today's world, as well as to recognize the pattern of online scams such as phishing or fake news, to know how to react to incidents online and to protect themselves from various attacks. This is an undoubted advantage and enhances the quality of education through the use of interactive elements and promoting the use of digital assets in acquiring and developing future competencies.

WSIS Values Promotion: The activities undertaken as part of the conducted webinars help to develop the digital competencies of the society. This makes sustainable development goals, such as less inequality or good quality education, possible to achieve using ICT technologies

(by gaining access to e-services at the same level regardless of existing digital competencies, age, predispositions or special needs).

WSIS Action Lines: 3, 4, 5, LEA

SDGs: SDG4, SDG8, SDG10, SDG12, SDG16

Stakeholder Type: Government

Country, Region: Poland, Eastern Europe



Hologram Technology Adoption in KFU Educational Environment

King Faisal University (KFU) has implemented a project called (Holotech) that reflects innovative and ambitious trends in education and integrate this project in its complete ecosystem for education, which will target all teaching and learning activities and community services of KFU, which will be delivered allover KSA and GCC countries. King Faisal University provides beneficiaries (faculty members - students - local community) with hologram imaging services. These technological services, which keep pace with the latest technological developments in virtual reality, reflect the university's keenness to achieve the objectives of the Kingdom's Vision 2030 in education, which aims at creating an educational environment that stimulates creativity. Hologram technology is one of the emerging and modern technologies offered by the university through its educational services system, which is enriched with technologies that promote creativity and innovation. Hologram technology is used to display the interactive educational content and elements of the educational process, simulating reality through advanced broadcast studios and halls equipped to receive hologram imaging and a specialized team in the university that serves the beneficiaries and develops the content and elements of the Hologram imaging. Hologram technology achieves interactive learning and training, which is an applied and proactive approach to facilitate the learning process improves the participation of learners and trainees positively, increases their motivation towards learning and training, and increases the learning and training impact. Using holograms in education indicates the digital transformation adoption in the educational and training process. It is also an indicator of the integration of technology in the educational and vocational training process, which enhances the efficiency of spending and rationalizes the costs of attracting and benefiting from experts and specialists.

Website: https://holotech.kfu.edu.sa

Target Beneficiary Groups: YOUTH, DISB

Replicable Description: KFU has taken the lead in implementing hologram technology in the educational field in the Arab region including Gulf area, and the Middle East, KFU has gained great experience in the process of implementation, preparation, and management of the hologram project. KFU welcomes the transfer of this expertise to other universities and institutions that wish to adopt or establish similar projects. KFU is responding to inquires related to requests of knowledge transfer of this project. KFU is facilitating and arranging field visits for the interested parties, this includes a realistic demonstration of hologram technology, and the ways of transferring expertise. • Visits made in this regard by: Al-Bilad Bank, Saudi Aramco, etc. H.E. Minister of Education inaugurated Holotech project during his visit to KFU, He commended the project and recommended its application in other universities, especially in practical colleges and colleges of medicine and science. KFU develops a professional and practical experience in hologram technologies. Experts in the implementation and innovational techniques in broadcasting and holographic objects creation. Hence, KFU welcomes any call for transfer and dissemination of knowledge in this regard to other institutions and community organizations. KFU uses Hologram technology for teaching and training from figures in the fields from inside and outside Kingdome of Saudi Arabia, through agreements with the world-class Universities for teaching and training exchange. Holotech services provide facilitation of cooperation from experts and specialists in the different fields of education and training locally and internationally through this technology. It provides a virtual hologram presence for experts and specialists and provides the full interactive educational and training process with all its activities without the need for a regular physical presence at the university.

Sustainable Description: KFU experiences the use of hologram in covering the gap in practical and field learning activities leading to interactive and quality e-learning delivery

while COVID-19 pandemic. The institutional sustainability component is relied upon in management of the holographic project (holotech), where Deanship of E-Learning and Distance Education within KFU which is responsible for managing and operating this project, it receives KFU high management support as a strategic project in KFU, which could be concluded in financial support, providing technical and maintenance requirements, hiring specialized resources with high skills and capabilities, and established and operation project for sustaining and maintaining this technology within KFU wide, where introductory workshops for the deanships, faculties and departments of the university, and local community is being hold periodically, this includes introducing hologram technology and the necessity of using it in the educational and training process inside and outside the university. KFU obtained accreditation certificates for ISO in business continuity, and Information Security. It has achieved an external audit rate of 88.99% for the application of basic cybersecurity controls in order to protect the technical environment of the project. Moreover, it has applied risk management methodology in digital transformation projects, digital services and cybersecurity projects and adopted a governance framework and digital transformation processes and applying Enterprise Architecture standards and frameworks based on Digital Government Authority (DGA) criteria and controls. Recently it has established the permanent committee for digital transformation at the university, including roles, responsibilities, indicators of performance measurement and decision-making, change management procedures, and project management methodologies and institutional structure.

WSIS Values Promotion: At KFU, we believe that community engagement is a key role of the university. One of the services that we provide to the community is education in all its shapes and forms. KFU invested in using technology to deliver high quality education. E-learning and distance education infrastructure in KFU prompted sustainability through delivering KFU educational services all over KSA areas including rural areas. We exploit our highly qualified human resources and ITC infrastructure to teach and train people who could not attend the university through regular mode in all different disciplines. The aspiration of quality education in all academic programs at KFU is clarified in their mission and goals. Some key features of KFU academic programs that demonstrate the quality of education are: Providing students with professional, employability, and personal knowledge and competence for effective contribution to the local community. The “futuristic education” mission component of KFU has framed teaching future-ready skills that employers want and need. Learning and teaching methodologies that are research driven and have significant practical community and service-learning integration. Methodologies are fostered such as the PBL and service learning of the medical programs, the cooperative training of the computer science, business, science, agriculture and education programs and the use of full digital technologies in delivery approaches across programs. Providing faculty with trainings relevant to teaching and seminars to broaden their content expertise relevant to teaching. Connecting with focus industries to expand educational access and opportunities. All academic programs have collaborations with industry sectors which provide avenue for transformation of learning in classroom to learning in workplace. Seeking local and international accreditation for comparability and reputation.

WSIS Action Lines: 3, 4, LEA, SCI

SDGs: SDG4, SDG9

Stakeholder Type: Academia

Country, Region: Saudi Arabia, Asia and Pacific



Innovative E-Learning Platform

The project aims to prepare an innovative e-learning model to achieve national and regional leadership in knowledge dissemination, research excellence, sustainable community partnership, and work to develop a better future by preparing and qualifying community members for the labor market and developing community leaders and capabilities, by harnessing technology to create an integrated and accessible e-learning platform With a central database that provides the necessary tools to manage the educational course in an integrated manner electronically for the beneficiary, built with the latest technologies in line with best practices, expandable and developable, and provides a unified user experience to help reduce movement between systems and increase the efficiency of the platform as a whole. The platform also supports artificial intelligence techniques in studying and identifying needs. training, providing appropriate educational courses, following up the progress of the training process, giving indications of the current situation and recommending future needs based on real-time performance indicators and data analysis.

Website: https://uoh.edu.sa/en/slides

Target Beneficiary Groups: YOUTH, WOMN, UNEMP

Replicable Description: The IELP uses international standards in quality and software development to provide seamless integration between all education tools on the platform through which productivity can be increased and operational costs reduced with the possibility of developing the efficiency and capabilities of the platform with minimal effort and cost. The platform was designed to enable beneficiaries from various segments of society to access all the contents of the platform and learn easily from one place, which is the IELP of the University of Hail. The platform also provides keeping historical data to follow up on all events on the platform, which has an effective role in analyzing this data, evaluating performance, and facilitating the decision-making process in improving the e-learning experience.

Sustainable Description: The platform provides the community with an integrated and advanced smart educational experience for beneficiaries (students, employees, unemployed) through a platform based on multiple functional units in managing educational content, managing the beneficiary's profile, managing the beneficiary's training journey and following up on his arrangement and progress in learning, evaluation, assignments, tests and issuance of certificates And adopting them, communication tools and direct interaction with beneficiaries to receive suggestions, ideas and complaints and follow them up, attracting resources and employment. In this way, the platform achieves integration between business, technology, applications, data, and mutual interaction between the parties to the platform.

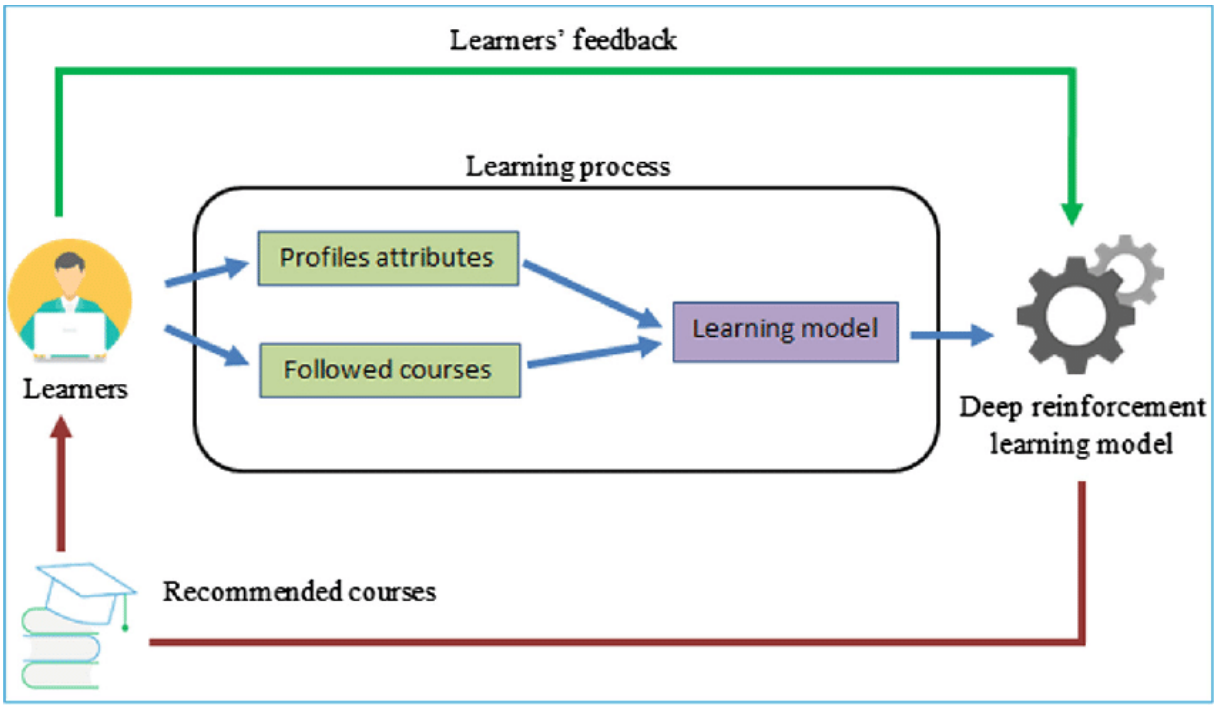
WSIS Values Promotion: The Innovative E-Learning Platform (IELP) enables the unification of various educational applications in a unified platform with architecture and technical standards based on the latest technical trends and best practices in development and benefiting from artificial intelligence techniques in analysis. It also provides a unified experience for the beneficiary in all interfaces of the platform and the possibility of future expansion because the platform architecture supports the development of applications Functional units independently and raised on the platform to integrate with its functions with the possibility of measuring beneficiary satisfaction for the availability of the necessary functions while monitoring and analyzing performance indicators in a dynamic dashboard for decision-making and improving the performance of the platform to achieve the goal of providing education in all aspects of life. The university is working on implementing the IELP throughout the Kingdom and expanding it to include countries that need additional educational support.

WSIS Action Lines: LEA

SDGs: SDG4, SDG5, SDG8

Stakeholder Type: Government

Country, Region: Saudi Arabia, Asia and Pacific



FutureX

FutureX is an integrated lifelong learning ecosystem that brings in both providers and consumers together to meet the market demand for upskilling and reskilling in alignment with the HCDP goals. The FutureX platform boasts itself for having the world's and country's best platforms integrated into its ecosystem. It is a meta-platform, a platform of platforms. Beyond being a content aggregator, the Platform brings in key value proposition to it's stakeholders by providing financial and operational efficiency, enabling institutions to offer recognized flexible learning pathways, stackable micro-credentials, alignment to national and international competencies and occupational frameworks, comprehensive learner records, single-sign on with National SSO, integration with institutional platforms and data collection and reporting for governance. There are over 13,000 courses offered from all partners including the 1,200+ professional certificates, and 300+ specialized programs. During the pilot phase, over 6,5000 learners from 300+ entities benefited from the programs covering over 240,000 learning hours. The FutureX platform brings in financial efficiency up to 70% for the stakeholders in the Kingdom.

Website: https://futurex.nelc.gov.sa/en

Target Beneficiary Groups: YOUTH, OLDP, WOMN, INDG, DISB, UNEMP, POOR, MIGR, REFG, RURL

Replicable Description: As this project is delivered by the National eLearning Center in partnership with other government entities, including but not limited to, Ministry of Education, Ministry of Human Resources and Social Development and private sectors for Upskilling and Reskilling of the current and future workforce. This project can be replicated by other nations who are looking for upskilling and reskilling through an efficient and integrated approach.

Sustainable Description: The entire platform is built of open-source solutions. The subscription fee for the program licenses from the entities and the operational margin offered by the platform providers will make this program self-sustainable.

WSIS Values Promotion: Our stakeholders are leveraging the ICT opportunities to improve open access to information and knowledge, and capacity building for upskilling and reskilling. FutureX provides an enabling environment for the national and international platform providers and is a good example of national and international cooperations. Through integrated approach and strong data analytics, good governance is achieved based on the quality control standards established by the National eLearning Center. This has resulted in building confidence amongst our stakeholders in using ICTs for capacity building programs. Through the National Sign-Sign-On, we ensure data privacy and protection based on the stringent Cyber security laws established in the Kingdom.

WSIS Action Lines: 1, 2, 3, 4, 5, 6, LEA, 11

SDGs: SDG4

Stakeholder Type: Government

Country, Region: Saudi Arabia, Asia and Pacific

Health eLearning Platform

eLearning platform of Health Ministry of Senegal is a software for health workers. It allows them to learn new protocols and new health practices. It is used to plan, implement and evaluate a specific learning process. It is a web platform that facilitates access to learning content. And in the context of improving the performance of human resources, continuing training is important to have competent health workers whose knowledge is continually upgraded. Usually, health workers followed program's trainings out of their districts. This situation creates a problem of availability of health services. To train health professionals efficiently and effectively, it is therefore necessary to diversify the training support. The health Ministry introduce this platform to allow health workers to access on training content online. This platform allows them to learn from everywhere dans every time. Health workers need to have Internet and parameters to access to courses content. Presently, we have many contents in different domains: maternal and child health, emergency management, malaria, diabetes ...

Website: http://www.formation.sante.gouv.sn

Target Beneficiary Groups: OLDP, INDG, DISB, POOR, RURL

Replicable Description: software used is open source.

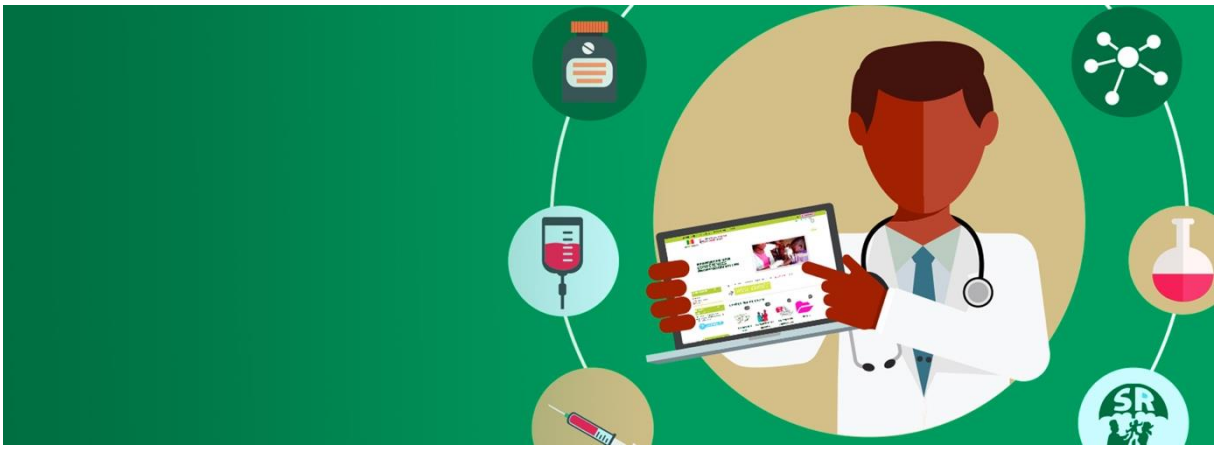
WSIS Values Promotion: Strengthen the performance of health workers.

WSIS Action Lines: 3, 4, LEA

SDGs: SDG3, SDG4, SDG10

Stakeholder Type: Government

Country, Region: Senegal, Africa



WomEng

WomEng is an authentic values-driven organisation for women in engineering by predominantly women engineers who have developed programme to address the issues facing women in the engineering sector from school level all the way through to industry. Being a dynamic organisation, WomEng has been able to meet the changing demands and needs of the global engineering industry. WomEng has been able to deliver cost effective, impactful programming and has a successful track record spanning over 12 years in developing programme that work. It is a financially transparent organisation, with a strong board of directors. WomEng's unique model ensures lasting impact created by passionate and committed people.

Website: http://www.womeng.org

Target Beneficiary Groups: YOUTH, WOMN

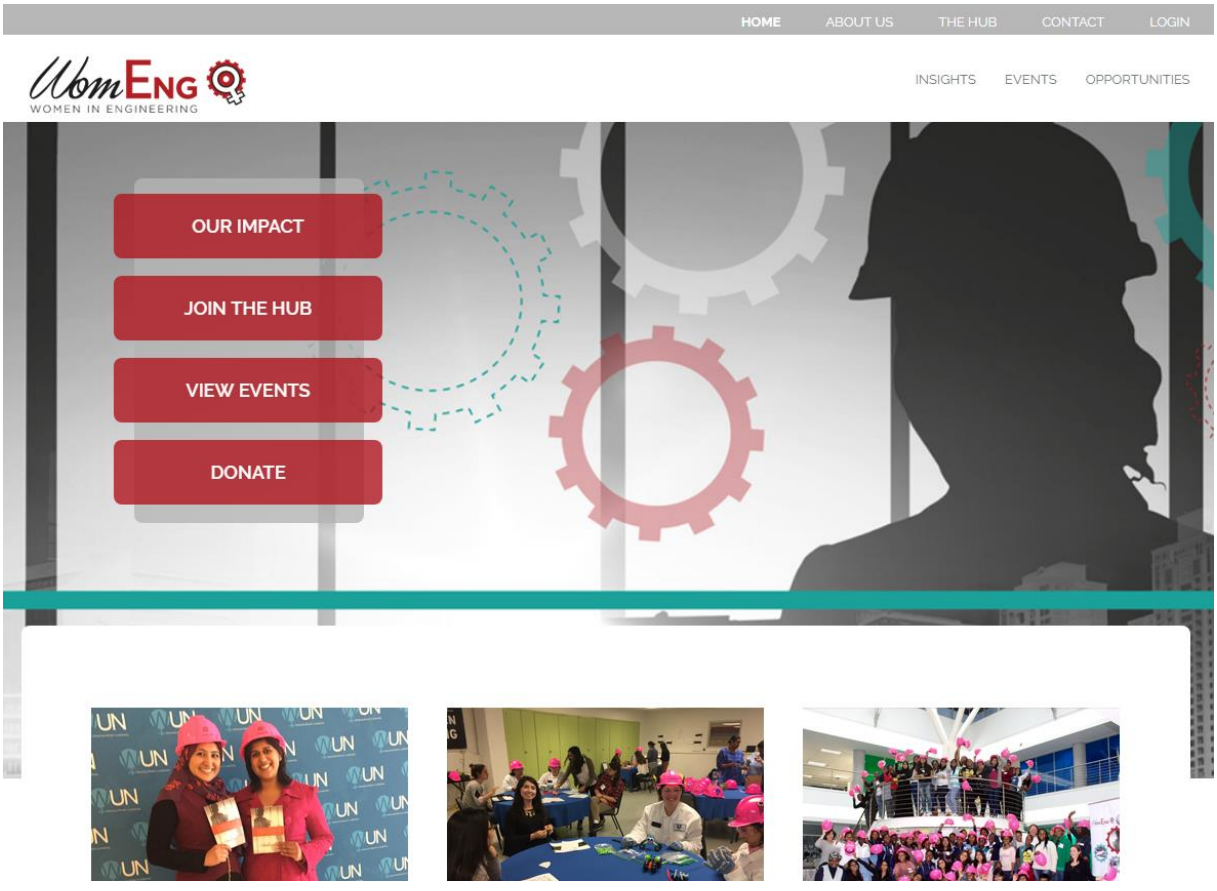
WSIS Values Promotion: Our mission is to develop a more gender diverse engineering workforce.

WSIS Action Lines: 3, 4, LEA

SDGs: SDG4, SDG5, SDG16

Stakeholder Type: Civil Society

Country, Region: South Africa, Africa



Digital Learning Campuses

Good Work Foundation (GWF) – a South African not-for-profit - is addressing a need to improve access to education, personal development and the global stage in rural Africa, with a view to maximize reach from independently managed hubs of digital education. The organization has been developing a model of locally managed Digital Learning Campuses (or "hubs") that improve an individual's ability to operate the 21st Century "languages of access" – digital, English and self-creativity. The aim of each Digital Learning Campus is to: (1) Create an access "bridge" between school and work, preparing rural adults for life in a global, connected world; (2) Become a hub of digital learning for public-sector elementary schools that can outsource their digital learning to the center (The Open Learning Academy); and (3) Reduce the "digital divide", providing rural people with the opportunity to actively participate in today's online economy.

Website: http://www.goodworkfoundation.org

Target Beneficiary Groups: YOUTH, RURL

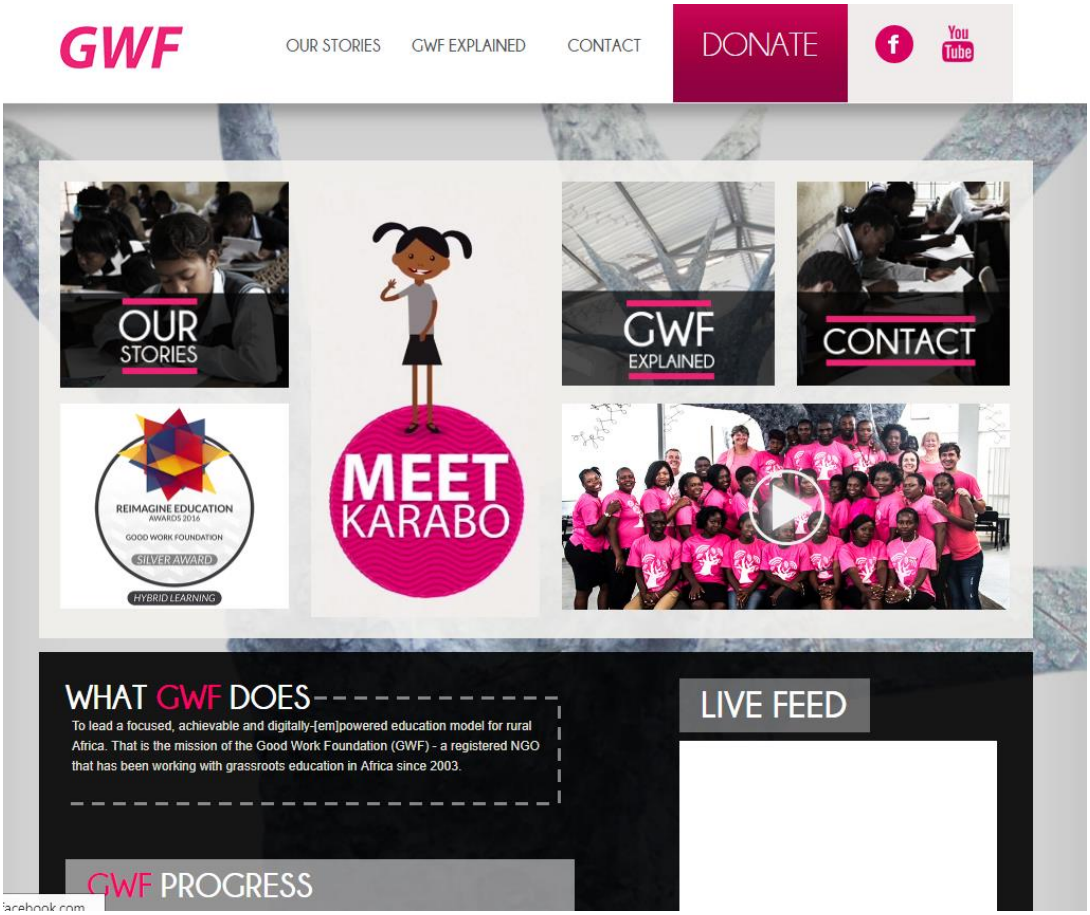
WSIS Values Promotion: The organization has been developing a model of locally managed Digital Learning Campuses (or "hubs") that improve an individual's ability to operate the 21st Century "languages of access" – digital, English and self-creativity.

WSIS Action Lines: 4, LEA

SDGs: SDG1, SDG4

Stakeholder Type: Civil Society

Country, Region: South Africa, Africa



Empowering girls in Sri Lanka through Connect to Learn

Connected to learn computer literacy certification program for teenage girls & young adult females. The Connect to Learn initiative is a testament to our contribution towards enriching the livelihood of the farming communities through power of ICT. We have always maintained a vision to uplift the living standards of rural communities and to enrich their livelihoods, and this initiative gives us the opportunity to do just that. Bringing technology to the service of education is a common goal to Ericsson and the Connect to Learn Sri Lanka partners – Mobitel and Open University of Sri Lanka, and the role each one plays in the project is important to its success. Ericsson is set to provide the ICT equipment required to implement the project, in addition to project management, systems integration and remote support capabilities. Mobitel, in its endeavour to develop the Knowledge Society in Sri Lanka, is providing the mobile connectivity required to facilitate the 'Connect To Learn' initiative keeping in line with the GSMA Connected Women program.

Website: http://mobitel.lk/press-releases/empowering-girls-sri-lanka-through-connect-learn-ericsson-partners-mobitel-and-open

Target Beneficiary Groups: YOUTH, WOMN, RURL

Replicable Description: Connected to learn computer literacy certification program for teenage girls & young adult females which commenced as a phase wise project which is first trialed in two areas and subsequently deployed in other areas with proper monitoring. User interfaces were developed for user registration, monitoring and reports keeping the project replication and scale in mind. Due to the proper implementation of the project from the start made the system to be replicated to a new community/user group very easy and manageable. The project is currently replicated more than four times in different communities within the country. As next phase we are launching the fifth connect to learn center before end of this year in northern province, Sri Lanka.

WSIS Values Promotion: By providing learning facilities and content focusing on Information and Communication Technology (ICT) training for teenage girls with the aim of equipping them with knowledge and skills in these areas.

WSIS Action Lines: 3, 4, LEA

SDGs: SDG4, SDG5, SDG9

Stakeholder Type: Private Sector

Country, Region: Sri Lanka, Asia and Pacific



Waste to Code (Bu Atıklar Kod Yazıyor)

As technology evolves faster than ever, the devices we use are rapidly becoming obsolete, and e-waste is becoming an increasingly visible aspect of the waste problem of our planet. When disposed of conventionally, these wastes aggravate the negative effects of the climate crisis due to emission of greenhouse gases and threaten human health. At Vodafone Turkey, eliminating generation of e-waste and adopting circular economy models that focus on efficiency is a material issue for us. Therefore, in May 2019 we launched our Waste to Code project, which we aim to convert e-waste to added value, thus creating a social and environmental impact. We collect electronic waste that our employees and the employees of our business partners, and customers bring from their houses and ensure that these wastes are recycled by the licensed recycling company Akademi Çevre. We have recycled more than 16 tons of e-waste to date in the project, where we collect a wide range of e-waste from small household appliances to IT equipment, in cooperation with our 52 business partners who support the project. With the economic income generated by recycling, we are establishing coding classes in schools. We have established 8 coding classes in primary and secondary schools, in the provinces of Mardin, Samsun, Adana, Gaziantep, Bingöl, Çanakkale, Uşak, and Bursa, where we reached more than 8 thousand children. In the upcoming months, we hope to expand our project with the help of more business partners and increase the number of classes we offer by recycling more e-waste.

Website: https://www.vodafone.com.tr/bu-atiklar-kod-yaziyor

Target Beneficiary Groups: YOUTH

Replicable Description: Waste to Code project can be replicated by other companies or institutions in Turkey. A licensed company can collect and recycle e-waste. The recycled e-waste will generate an economic value and this economic value can be used for creating social value. Institutions and companies can invest the money generated from recycling e-waste to various social projects. Our project has been an example for other companies in Turkey. Also, the project can be replicated by other countries.

Sustainable Description: Although e-wastes account for only 1% of the world's waste, e-wastes cause 70% of the hazardous material pollution in the soil. As Vodafone Turkey, we believe that we are responsible for the environment, and we are working to minimize our environmental impact. In this direction, with our Waste to Code project we aim to encourage the recycling of e-waste and raise awareness about sustainability. Through recycling e-wastes we bring precious metals such as gold, silver, platinum, palladium as well as metal, glass, and plastic into the circular economy as secondary raw material. Recycling e-wastes enable us to reduce generation of new materials and aim to keep resources in use for as long as possible.

WSIS Values Promotion: Project promotes WSIS values by carefully recycling discarded hardware and components used in ICTS with the help of licensed company Akademi Çevre. Also, supports WSIS values through creating an environment where students can advance their digital capabilities and be part of the information society. With the assistance of qualified trainers, students are building their ICT literacy skills in the coding classes. Indeed, the economic value generated from recycled e-wastes enables us to facilitate accessibility of ICTs for disadvantaged groups. We provide free-of-charge access to computers and coding trainings for students around Turkey with our 8 coding classes.



WSIS Action Lines: 3, 4, ENV

SDGs: SDG4, SDG10, SDG12, SDG13, SDG17

Stakeholder Type: Private Sector

Country, Region: Turkey, Western Europe and North America

BIPES (Individualized Personnel Training System)

In the trainings to be organized for the personnel of the Ministry of Justice, at the planning stage; it is a system that allows necessity analysis, standardization of the curriculum, determination of the qualifications of the persons who will participate in the training, during the implementation phase, execution of the procedural correspondence processes required for the realization of the training program, and the cooperation of all institutions involved in the training program. Thanks to BIPES, it has become possible to standardize the training so that a personnel should receive training depending on his job description, to make individual applications possible for the training subjects that are in the training plan or outside of this plan based on the individual needs of the personnel, and possible for institution managers to apply for development of the training subjects that are required. It has been prevented that personnel retakes a training they have received, that personnel is mistakenly enrolled in two different training programs at the same time, and by controlling the dormitory and classroom capacity of the training centers during the training planning phase ensures that the program is not compromised.

Website: https://wsisbigm.my.canva.site/bipes

Replicable Description: It is applicable in all institutions that organize pre-vocational and in-service training.

Sustainable Description: Due to the fact that the data entry process takes place on a collaborative basis, labor is saved. It enables the efficient use of resources as it allows the personnel who meet the criteria to participate in the training.

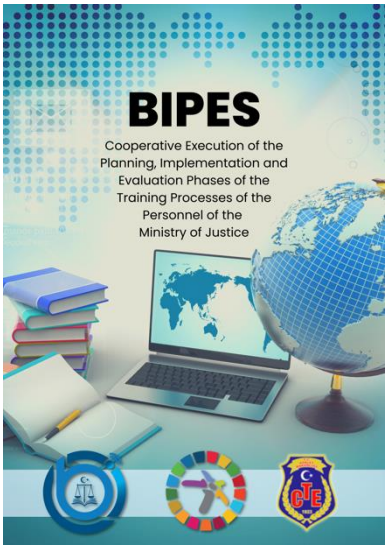
WSIS Values Promotion: The BIPES project, developed by our team of qualified and talented ICT professionals and experts in cooperation with the partner organization, provides the information and documents required by the user from the beginning to the end of related business processes through the use of information and communication technologies within the scope of the action line Information and communication infrastructure. In this way, by performing correct data entry, training opportunities can be offered to the personnel in need when they need it. Within the scope of the action line access to information and science, the educational objectives needed in the curriculum development process in trainings, standardization of the educational objectives and the education curriculum, and facilitating the access of lecturers to information. Within the scope of the action line enabling environment, determining the previous education of the people who will be included in the training program, selection of personnel suitable for the training program, the issues of preventing accidental re-training of personnel to the same training and it helps to create a transparent, democratic and egalitarian education environment.

WSIS Action Lines: 1, 2, 3, 6, GOV, LEA

SDGs: SDG4, SDG16

Stakeholder Type: Government

Country, Region: Turkey,
Western Europe and North America



Collaborative, Data-driven User Engagement and Adoption through Transformative Learning

The world around is changing, and as technology accelerates our shift into a more connected world, it is important to bridge the gap between today and tomorrow. With our clinicians constantly on the front lines caring for our patients, this connection can at times go distant. Transforming the way, we communicate and engage our clinicians is vital for our mutual success. Understanding that effective learning in the healthcare industry is a continuous, collaborative, dynamic, and complex process, it was also vital to create unique pathways to help our clinicians learn and grow.

Website: https://www.ehs.gov.ae/

Target Beneficiary Groups: INDG, DISB

Replicable Description: This project can be replicated in any setting with similar infrastructure.

Sustainable Description: To make this project sustainable, we have EHS leadership support. Additionally, we conduct continuous measurements of our performance to ensure its sustainability.

WSIS Values Promotion: This program aims to improve EHR adoption. It has a tangible impact on client operations, ultimately improving the patient experience by developing distance learning, training and other forms of education and training as part of capacity-building programs. -This project designs programs to train users to develop self-learning and self-development capacities. The adoption program was designed to identify the usability trends of the Wareed system. This helps ensure that all key features of Wareed are being utilized and benefit our end users and patients. the data collected in the program helps us understand where improvement can be made in system adoption.

WSIS Action Lines: 1, 3, 5, GOV, LEA, 8

SDGs: SDG1, SDG3, SDG7

Stakeholder Type: Government

Country, Region: United Arab Emirates, Asia and Pacific



One Million Uzbek Coders

The One Million Uzbek Programmers project was launched in November 2019 jointly with the United Arab Emirates in order to involve the youth of Uzbekistan in the field of information technology. Our project provides the necessary knowledge to start your journey in the IT world. We teach in four areas: Data Analytics, Android Development, Full Stack Development and Front End Development. After completing the course, a graduate of our project can apply for a Nanodegree grant, where he will study in depth in the above areas. Training takes place online, in the form of video lessons and practical exercises after them. The course is designed for 3 months and is suitable even for people with different types of disabilities. At the moment, the number of registrants is more than 2 million, and the number of graduates is more than 1 million people. Our project is not going to stop there, we develop and improve ourselves every year, and our ultimate goal is to interest as many of the population of Uzbekistan as possible in the field of ICT. But the real achievements of the project can be considered that we help many people to become full-fledged specialists in this field without higher education or if you have a disability.

Website: https://uzbekcoders.uz/

Target Beneficiary Groups: YOUTH, DISB

Replicable Description: In addition to Uzbekistan, this project has also been launched in Jordan and the United Arab Emirates. Everything takes place in cooperation with the Udacity platform. You just need to translate the courses into your language and create a registration platform. Thus, our project can be launched in any country in the world, where we can help people get acquainted with the field of ICT.

Sustainable Description: Due to the fact that it is an educational platform, it is easily extensible, it is also updated in accordance with the trends of the programming world and any defects that are encountered are quickly corrected.

WSIS Values Promotion: We provide equality in receiving free online education, regardless of age, population and education that you have. Creation of opportunities for mastering new professions regardless of gender, for the possibility of joining the IT community. OMUC graduates can get a decent job in the market both in Uzbekistan and abroad.

WSIS Action Lines: LEA

SDGs: SDG4, SDG5, SDG8

Stakeholder Type: Government

Country, Region: Uzbekistan, Asia and Pacific



WSIS Action Line C7. ICT Applications: e-health

COVID-19 Telehealth Center

COVID-19 Telehealth Center is a crucial initiative undertaken through signing an MoU among Directorate General of Health Services (DGHS), Health Services Division (HSD),Ministry of Health and Family Welfare (MoHFW) and a2i, ICT Division during the COVID-19 outbreak all over Bangladesh in 2020. Its service was targeted towards COVID-19 positive patients, Suspected COVID-19 positive patients, and patients with post COVID & post vaccine complications. Medical Assessment, Medical Follow-up, Information Service and emergency coordination services (emergency ambulance, hospitalization, food and medicine buying support, cremation support etc.) were provided from the center. Being a densely populated country, Bangladesh was under high risk of community transmission of the virus. So, the main objective of this initiative was to ensure that patients can receive required health services from their homes maintaining social distance. And no one is left behind or deprived of their basic health rights. Till 30 November 2021, 7,04,890 patients have received 15,61,068 Telehealth services from this Telehealth Center. This Telehealth Center has reduced the scope of community transmission of the disease, provided service to root level and remote areas, reduced burden on hospitals, provided right health information on right time and helped in reducing death rate by advising patients to get hospitalized when symptoms deteriorated. The operation of the center has ended from a2i, ICT Division's end on 31st December 2021 and its continuing under Shastho Batayan (16263) of DGHS with extended capacity. A detailed report was handed over to MoHFW from ICT Division based on its operation from a2i end (Attachment provided).

Website: https://corona.gov.bd

Target Beneficiary Groups: YOUTH, OLDP, WOMN, INDG, DISB, UNEMP, POOR, MIGR, REFG, RURL

Replicable Description: Patients received telehealth services from the telehealth center over the phone. In this case, services are accessible simply with 2G/3G network connectivity and at least a low featured smartphone or button phone is enough. Around 5.11 billion (Finances Online, 2019, https://financesonline.com/number-of-smartphone-users-worldwide/) of the world population and around 181.43 Million (AMTOB, 2022, https://www.amtob.org.bd/home/industrystatics) people in Bangladesh use mobile phones. So, The concept of this telehealth center can be easily replicated to other Govt. and private telehealth service providing entities for covering the last mile and it can also be replicated in other countries specially during pandemics.

Sustainable Description: The project was funded by DGHS. After COVID-19's outbreak was under control, the center was handed over to DGHS for operating as a project under their telehealth initiative "Shastho Batayan (16263)". Thus the project's sustainability is getting maintained.

WSIS Values Promotion: WSIS strives for affordable health care, equality, leaving no one behind, recruitment, decent work for all and using ICT for improving health care, health information systems. COVID-19 Telehealth Center provided services to any citizen in need regardless of their identity, ethnicity, demography, social status and economic status. The service was free of cost. The center also created scope of employment for doctors and HIOs (most were fresh graduates). On the other hand, optimum use of ICT was ensured through CRM, Data Center, MIS integration etc. Every call was recorded, every patient's history was stored. Thus the project is promoting WSIS values to the community.

WSIS Action Lines: HEA

SDGs: SDG3, SDG8

Stakeholder Type: Government

Country, Region: Bangladesh, Asia and Pacific



Strengthening Women's Ability for Productive New Opportunities

Strengthening Women's Ability for Productive New Opportunities (SWAPNO) is a gender based social security project targeting ultra-poor rural women who are widowed, divorced, abandoned, or left with a disabled husband. The project aims to uplift these women out of extreme poverty through productive and sustainable livelihoods. Under the auspices of National Social Security Strategy (NSSS) of Bangladesh government, SWAPNO is implemented jointly by Local Government Division and UNDP since 2015. SWAPNO's intervention follows a 'state of the art' graduation model that encompasses livelihood promotion, financial inclusion, social protection, and social empowerment. The women are employed for a specific tenure under public works. Simultaneously, training is provided to improve self-confidence, leadership, financial literacy, basic numeracy, savings, and spending. This process is followed by livelihood training based on their interests and local market opportunities to begin micro-enterprises or find formal employment. After completing their employment tenure, they can access funds to invest in their enterprises. Swapno'S Public Asset Maintenance Programme Has Successfully Maintained 14,000+ Critical Public Assets Which Have Benefitted The Local Communities Of 223 Unions Of 5 Districts. Swapno'S Group Savings Mechanism Rosca Has Facilitated Beneficiaries Form 600+ Roscas Through Which They Have Generated Around Usd 1.8 Million. Wapno Has Provided Life Skills Training To 12000+ Ultra-Poor Rural Women To Enhance Their Confidence, Courage, And Communication Skills. Swapno'S 'Future Employability' Notion Has Facilitated 12,000+ Beneficiaries To Become Skilled In Both Formal And Informal Livelihood Opportunities.

Website: http://swapno-bd.org/

Replicable Description: SWAPNO follows a "Graduation model" which emphasizes on future employability by promoting diversified livelihood options. The graduation approach is a combination of programming interventions including asset transfers, consumption support, savings, enterprise training, hands-on coaching and mentoring and in some cases, health, and social integration support to ultra-poor households. SWAPNO achieves efficiency through three channels: (i) directly supporting livelihoods of participating households – a push out of poverty; (ii) facilitating marginalized women to get access to public services – a pull out of poverty; and (iii) creating pro-poor public goods (assets) that benefit the larger community and contribute to inclusive economic growth. This yields multiple benefits that improve investment efficiency. By linking financial inclusion, human capital development, gender equity, and other comprehensive elements, SWAPNO's integrated developmental model strengthens economic and social impacts and generates sustainable and deepening impacts. Considering the effectiveness of the programme, it should be implemented in other remote areas of Bangladesh so that people can come out of extreme poverty. SWAPNO model can also be replicated in urban areas of the poverty-stricken districts.

WSIS Values Promotion: ICT plays a significant role into the SWAPNO project. Firstly, we provide basic mobile phones to our all beneficiaries so that they can receive their wages through digital financial service (ePayment). They don't need to worry about collect their money anymore. It is safer option than receiving cash as in rural areas carrying money is riskful. It also saves their travel time, distance as well as reduce transportation cost. Thus, enabling mobile financial services to the rural level beneficiaries is a massive role in ICT service. and this is the one of the beauty of SWAPNO project. As we have provide mobile phones to our beneficiaries, we have also provided SIM cards. Therefore, they didn't need to buy any other sim and we can send informative SMS through bulk masking SMS service. In this case, to share any common message or awareness message we focus with this system. Specailly during pandemic in COVID 19 we utilized this system a lo. Another thing is Digital Qurbani haat. We developed a database of cattle and goats of our beneficiaries, and advertised

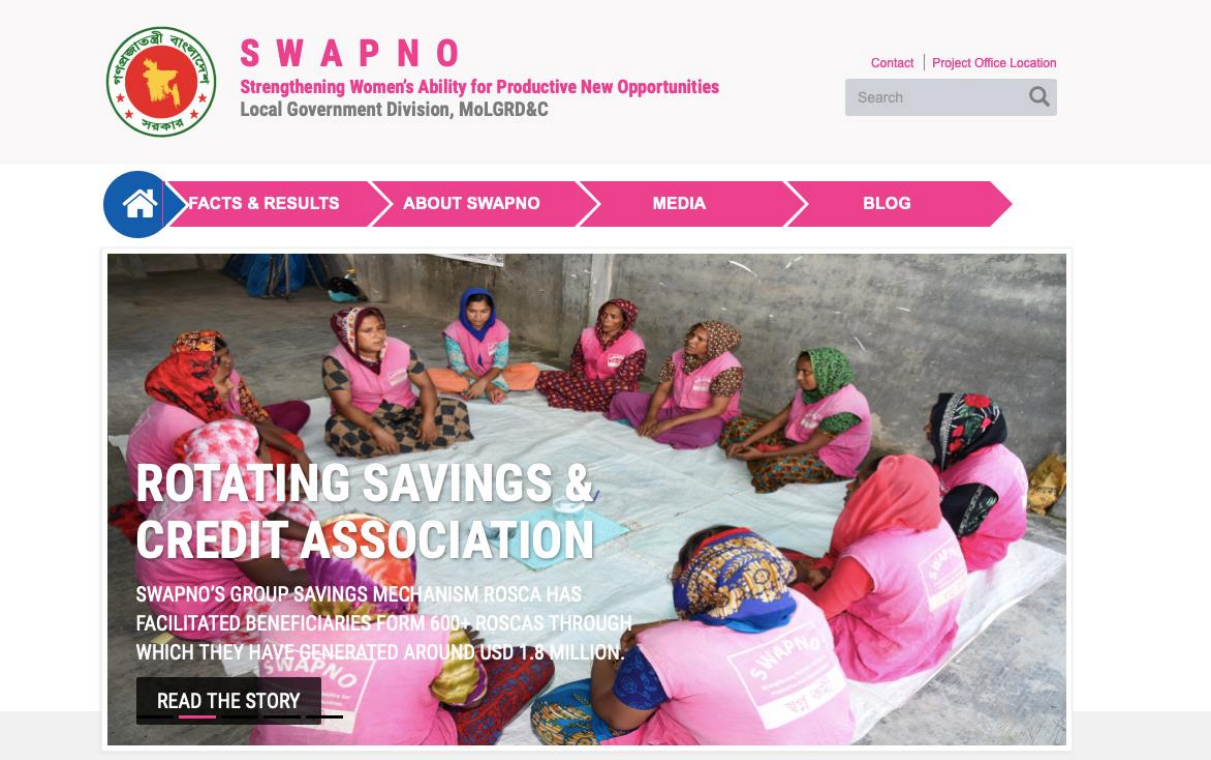
them online through an eCommerce platform. Many cow & goats are sold in the last Qurbani Eid through online.

WSIS Action Lines: 3, 4, 5, HEA, EMP, 9, 10

SDGs: SDG1, SDG2, SDG3, SDG5, SDG8, SDG10, SDG13, SDG17

Stakeholder Type: International Organization

Country, Region: Bangladesh, Asia and Pacific



5G Intelligent Medical Innovation Service Mode, Promoting Medical Equity and Social Welfare

Telemedicine is a effective solution to improve the accessibility of healthcare, and the latest development in a set of ICT technologies, including 5G and AI. etc, improve the performance and using experience of telemedicine. China Mobile cooperates with medical experts and industries in device and IT application, make a broad spectrum of best practices (relating to more than 30 innovative applications) in the areas of remote diagnosis & surgery, smart hospital and mobile healthcare .etc By doing that, China Mobile expand the boundary of telemedicine, making vital medical services more accessible to population in remote and isolated regions, as such help to promote the equity of social welfare. Essential innovations include:·5G Remote Diagnosis & Surgery·5G Smart Hospital·5G Mobile Healthcare in the future, China Mobile will further its innovative practice in telemedicine, in order to support the establishment of more accessible e-health infrastructure, and contribute to higher social & humanity sustainability.

Website: https://zhengqi.10086.cn/headerlink/ict

Target Beneficiary Groups: YOUTH, OLDP, WOMN, INDG, DISB, UNEMP, POOR, MIGR, REFG, RURL

Replicable Description: China Mobile gives full play to its advantages in communication technology and information technology. Based on the OneHealth platform, it has built more than 50 solutions covering 5G smart hospitals, 5G telemedicine, 5G emergency rescue system and other fields, serving more than 6000 medical institutions in 31 provinces, carrying out more than 50000 remote consultations, and more than 15000 remote image diagnosis businesses, accelerating the digital development of the industry, and promoting the balance of medical services. In 5G telemedicine, it has successively created the world's first 5G remote human surgery, and cooperated with Peking Union Medical College Hospital to create a number of 5G medical industry firsts, such as 5G fundus laser treatment, and achieved normalized application; The national telemedicine collaboration platform jointly built with China Japan hospitals has served more than 6000 hospitals, providing dozens of telemedicine services such as remote consultation and remote imaging. In the area of 5G smart hospital, we will continuously support leading hospitals, such as the First Hospital of Hebei Medical University, the First Affiliated Hospital of Zhengzhou University, and the Second Hospital of West China, to build innovative applications. The applications may relate to patient care, outbound services and management, and may include smart guidance, VR visits, and property management, improve patient experience and hospital management efficiency, and support the development of a three in one smart hospital. Actively promote the construction of cloud hospitals, cloud women and children, create 51 applications such as image cloud and disaster recovery cloud, and provide one-stop cloud services for 1500 institutions.

Sustainable Description: China Mobile has built a product system and capability covering smart hospitals, telemedicine, smart public health and other fields, which has been effectively verified in the COVID-19. 5G smart medicine has played a significant role in establishing business collaboration, reducing infection risk, and improving service intelligence and efficiency, and has been highly recognized by the frontline of epidemic prevention. At the same time, it has vigorously promoted the normalization of 5G remote consultation, remote teaching, medical robots and other applications, deepened the integration of communication and medical applications, further improved the response ability to public emergencies, emergency treatment ability, and combined epidemic prevention, which will continue to play an important role in the integration of medicine and prevention.

WSIS Values Promotion: 5G smart medicine comprehensively supports the construction of medical informatization, protects the health of the whole people, and helps build a better and healthy life for the whole society. Emergency call of high-quality medical resources to achieve multi-party business collaboration. 5G supports 4K high-definition video transmission and lossless and uncompressed transmission of radiology images and pathological slice images. 5G features low latency and high reliability, and is effectively used in remote control business scenarios such as remote ultrasound, remote surgery, and remote ward rounds. The superior doctor can realize "face-to-face" consultation and end-to-end guidance without leaving home. Effectively establish a rapid and efficient business collaboration system for first-line treatment, and timely obtain guidance from remote experts; Promote the intellectualization of medical care and medical service, and protect the life safety of medical staff. Medical robots, 5G video surveillance, VR visitation, etc. help medical staff complete ward rounds, temperature measurement and other work, effectively reducing front-line work intensity and infection risk; Help to improve the intelligence and accuracy of diagnosis and treatment. The 5G massive connection is featured, which can realize the connection and management of massive medical equipment inside and outside the hospital, realize the real-time transmission of physical sign data, alarm and early warning, and comprehensively improve the rescue ability. We will comprehensively improve screening capabilities and weave a dense epidemic prevention network. 5G mobile medicine can achieve low-cost and rapid coverage. 5G nucleic acid screening vehicles, mobile CT vehicles, vaccine inoculation vehicles, etc. can effectively achieve medical emergency screening, resource allocation and other issues during the epidemic.

WSIS Action Lines: HEA

SDGs: SDG3

Stakeholder Type: Government

Country, Region: China, Asia and Pacific



The open APP platform-Ecosystem centric to Older Adults to promote Healthy Longevity

Current healthcare systems, and most eHealth solutions, are not adapted for senior care, as they are mainly sickcare oriented. The senior population with comorbidities is growing at an unprecedented speed, intensifying the global shortage of healthcare professionals.After 12 years R&D in 3 continents, HiNounou CREATED AN AI PLATFORM ECOSYSTEM THAT IS ENTIRELY SENIOR PATIENT-CENTRIC. Within this ecosystem, each of the partners bring their own value proposition to seniors and their families. In order to reverse the unsustainable rise of health costs for seniors, our health platform strategy is to prioritize prevention over disease management. Disruption resides in combining both a platform Ecosystem AND a digital twin of the seniors facilitating a transformation of the care experience based on the 4P principles, namely, to make care more Predictive, Preventive, Personalized, Participative. It allows preventive healthcare for everyone, everywhere, ensuring that they receive the right care at the right time. Our innovation simplifies the eldercare experience across the full patient journey. OUR MOBILE APP ENABLES ICT ACCESSIBILITY, INTEROPERABILITY AND AFFORDABILITY. We have launched our solution to 12 countries in 4 continents within 2 years until we had to slow down because of Covid. We helped +20 000 seniors live longer, healthier and happier at their home and brought peace of mind to their children who lived far away from them. Our innovative SaaS "pay per use" business model allow us to enforce our ESG social healthcare impact and improve health and well-being (SDG3), as well as reducing healthcare inequalities in LMICs (SDG10).

Website: https://www.hinounou.com/

Target Beneficiary Groups: OLDP

Replicable Description: Our digital twin is easily replicated for a LOW-COST ACQUISITION TO INCREASE AFFORDABILITY AND ACCESSIBILITY to qualitative e-health checkups without leaving anyone behind. The key success factor is to turn our revenue model into a micro payment "pay per use" monthly subscription model. Seniors who have lost their human dignity due to poverty do not have to be hurt twice by the lack of accessibility to best AI services. Our dream is to reduce health inequalities in Africa, where 25% of the world population has access to only 3% of medical healthcare professionals. We plan to lease, with micro payment, our AI wellness kit with an Android 4G tablet and portable solar panel to a group of women only. Each of them will have to sell a monthly health checkup for 2USD per person to at least 10 patients daily. Out of their revenue, they will keep 1USD for themselves and pay back their loan of 1USD to HiNounou. Within 10 days, not only will their individual loan be paid back but also the entire group's and they will earn monthly revenue of 300USD each. These women will both empower healthy aging in their entire community and earn their own salaries.

Sustainable Description:

WSIS Values Promotion: HiNounou ingrates the FULL POTENTIAL OF ICT HARDWARE AND SOFTWARE IN A SINGLE OFFERING towards senior patients, Healthcare professional and business partners in our ecosytem. Our home wellness kit offers multiple connected medical devices (IoTM), linked to our APP for seniors. These collect 5 DIMENSIONS OF DATA (genomic, metabolic, mental, behavioural and living-environment data) to digitalize the patient data into a PATIENT DIGITAL TWIN. But collecting data is not enough. Our AI ALGORITHMS analyze for the main chronic-disease risks (diabetes, hypertension, and cardiovascular issues). Finally, with patient consent, the digital twin profile is shared to his caregivers before it is too late. TO PROMOTE DIGITAL INCLUSION,

accessibility, and appropriation we use 2D animation combined with a VIRTUAL AUDIO GUIDE IN 5 LANGUAGES that guides seniors step-by-step to easily use our APP with all connected medical devices. Our language engine has been designed to use any kind of local language in the world. Besides, since 80% of seniors have visual impairments, we have added a “SPEECH TO TEXT” DICTAPHONE to dictate their mental and physical wellbeing reports into text. A semantic AI search engine with ontology and machine learning will then be able to assess risk factors for epidemiological study and clinical research.

WSIS Action Lines: 1, 2, 3, 4, 5, 6, GOV, BUS, LEA, HEA, EMP, ENV, AGR, SCI, 8, 9, 10, 11

SDGs: SDG3, SDG10

Stakeholder Type: Private Sector

Country, Region: China, Asia and Pacific



The VALLI Gerontechnology Centre

The VALLI Gerontechnology Centre is an Activity of the non-governmental organization The Union for Senior Services, VALLI. VALLI is founded in 1953. The organization has approximately 70 member associations around Finland, which serve about 20 000 older people with 2000 professionals. The VALLI Gerontechnology Centre produces information about the experiences, needs and motivation of older people in relation to technology and digitalization. It assembles and distributes information. Center acts as a nationwide independent expert and participates in the preparation of decision-making.By bringing out the voice, experience and motivation The VALLI Gerontechnology Centre is highlighting the diversity of older people. By daily basis, The Centre is constant and direct contact with the elderly. The Center brings together the elderly, IT developers and service providers. The elderly themselves are the best expert for development.

Website: https://www.valli.fi/tyomuotomme/ikateknologiakeskus/

Target Beneficiary Groups: OLDP

Replicable Description: The consept of The VALLI Gerontechnology Centre is replicable to other countries. The concept is based on the idea of an nationwide, non-profit and nonaligned Centre, uniting elderly themselves, organizations giving digital support to the elderly, IT developers and policymakers.

Sustainable Description: Yes this project is aligned with SDG goals 3,4,8,10,11 and 16.

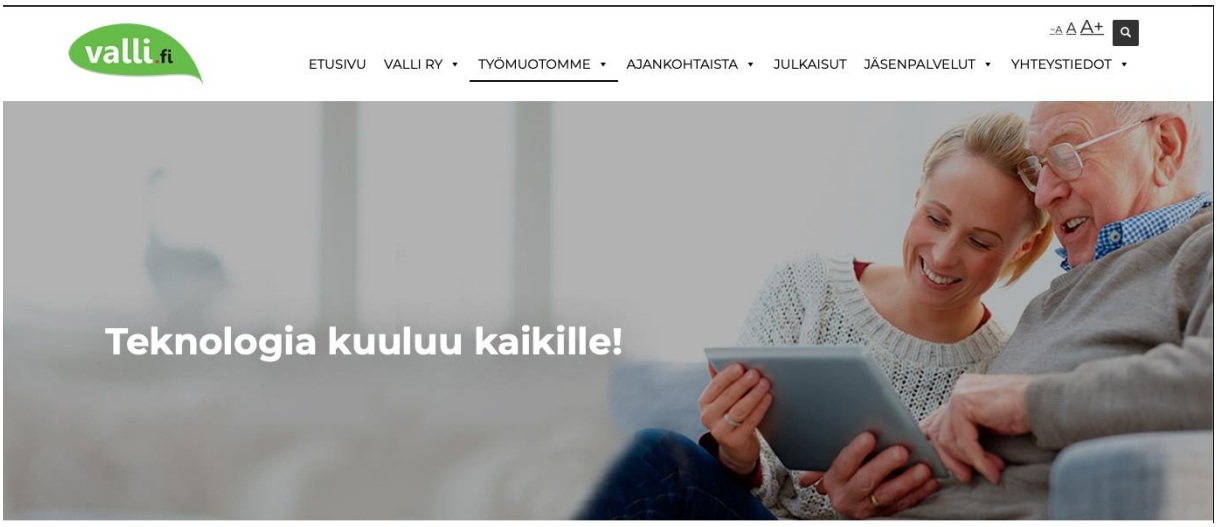
WSIS Values Promotion: As the ICT plays more and more important role in the society, elderly are in danger to isolate from the society. There are a critical need for elderly´s g digital inclusiveness. The VALLI Gerontechnology Centre is responding to this need.

WSIS Action Lines: 1, 2, 3, 5, 6, GOV, LEA, HEA, ENV, 8, 9, 10, 11

SDGs: SDG3, SDG4, SDG8, SDG10, SDG11, SDG16

Stakeholder Type: Civil Society

Country, Region: Finland, Western Europe and North America



FACIL'iti

According to the WHO one fourth of the world population faces difficulties to access the web due to age, disease or disability. At FACIL'iti we have developped a user-experience personalization tool that adapts the way a website will appear on the screen depending on the user's condition. Without touching the code of the original website the user is able to select among various adaptations available how he wants a website displayed to answer his needs: with bigger fonts if he has low vision, larger click zones if he has Parkinson's disease, darker backgrounds if he has a cataract trouble, adapted contrasts in case of AMD, etc... hundreds of adaptations are available. It is not necessary to create an account to use our solution, no data is tracked which is reassuring for the user. FACIL'iti is free for the end user, the website owner pays a subscription fee to offer our service to his users. More than one million people have already regained autonomy thanks to FACIL'iti.

Website: https://www.facil-iti.com/

Target Beneficiary Groups: OLDP

Replicable Description: FACIL'iti has already been replicated in several countries. The first one was Japan due to the societal issue of the ageing population, many administrations use our services there to offer online access to the elderly. We are also present in the US, Switzerland and other European countries. Our project can be replicated either through joint ventures as we did in Japan or through franchising. Our solution has proven to be as effective in any language or types of writing (alphabets, ideograms..) so it can be replicated anywhere.

Sustainable Description: This project is aligned with SDG goal 10.

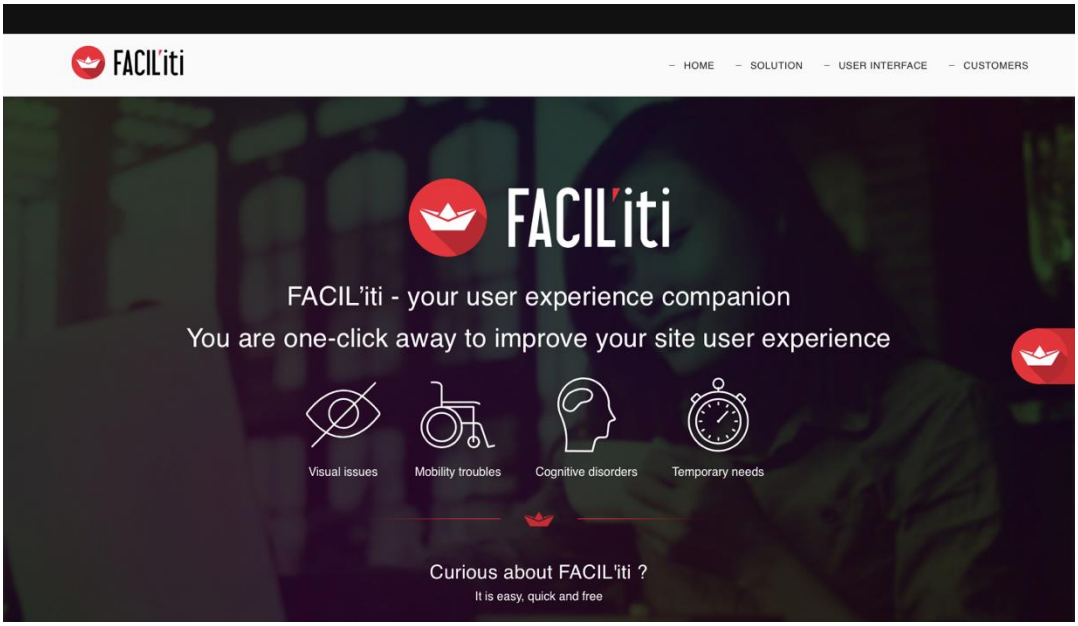
WSIS Values Promotion: Our tool is a saas solution, so it is by essence ICT centered. The autonomy of ageing people is at the core of our project. All the adaptations we provide have been co created with associations and users to answer the real needs of real people. We are currently developing new adaptations to answer the troubles linked to cognitive decline.

WSIS Action Lines: 3, GOV, BUS, LEA, HEA, EMP, 10

SDGs: SDG10

Stakeholder Type: Private Sector

Country, Region: France, Western Europe and North America



BAKTI One Heart (SEHATI)

With maternal mortality rates set at 177 for every 100,000 births and infant mortality rates at 25 for every 1,000 live births, Indonesia has brought forward significant efforts to reduce such rate. To support this, BAKTI KOMINFO has developed an ecosystem towards the health sector comprising of the establishment of an online medical record system, training for medical professionals as well as the utilization of TeleCTG (pregnancy remote consultation) in disadvantaged areas across Indonesia. Since 2019, BAKTI KOMINFO has conducted pilot programs in 5 regencies surrounding East Nusa Tenggara, East Flores, Riau, West Sumatera and Bengkulu in ensuring the health ecosystem's success through capacity building as well as the provision and facilitation of technology and internet access. In total, 350 medical professionals received training and in 2020 regencies within East Nusa Tenggara, Riau and East Flores received training for the utilization of TeleCTG in health community centers among disadvantaged areas as well as the use of online medical system amounting to 36 community health centers, 2 regional hospitals and 217 midwives. BAKTI has also coordinated with regional governments and relevant health commission, believing that the success of this project must be conducted through multilateral efforts.

Website: https://baktikominfo.id/

Target Beneficiary Groups: WOMN, INDG, UNEMP, POOR, RURL

Replicable Description: BAKTI KOMINFO understands that the revolution of healthcare in embracing the digital age must be met with a playbook that can be incorporated by other regional governments. Thus, program implementation can be broken down to the utilization of synergy with the health commission of regional governments who will share data of midwives in health community centers where they will thus be given training on the usage of TeleCTG as well as the utilization of online medical records. This in turn, develops a Standard Operation Procedure to ensure that the program can consistently be replicated. One case study that can be drawn from the success of the initiative and its replicability is how regional governments are using the technology that have been introduced by BAKTI KOMINFO and integrated into their existing public health systems. As an example, the Regency of Manggarai saw the benefits found in the initiative and integrated the utilization of TeleCTG in their respective application.

Sustainable Description: The first step towards the program's sustainability lies in the creation of the chain of coordination in regard to optimizing the digitalization of the health ecosystem. This becomes a blueprint that carries value for other regional governments everywhere to follow. In addition, the creation of a Standard Operational Procedure (SOP) becomes a way in which the program can continue to maintain quality and standardization. The establishment of online medical records as well as training to medical professionals bode well to the sustainability of the program because it creates a long-term process where data can be updated and added easily as opposed to previous practices which rely on manual efforts. Finally, the advantages of digitalizing health in the form of TeleCTG and online health records is that the utilization of software can be reproduced and distributed through public private partnership that can empower communities to receive the tool. With the utilization of online medical health records as well as TeleCTG, the organization of data streamed can help Indonesia as well as other countries to understand the pain points found in locations to for the long term well-being of mother and child. BAKTI KOMINFO's training, development and dispersion of online medical records and TeleCTG within its geographical areas sees that such technology should be used every three months to mobilize the tools used because it can thus identify pregnancy conditions between 28 weeks (third trimester) and above. Under the aegis of health community centers, the TeleCTG technology is made with a portable and efficient design that allows mobility for midwives. Sustainability within the utilization of the data can

also be conducted since the tool is also compatible to a dashboard for the health commissions at regional governments. Finally, data driven policy can be leveraged since there are tools and information that can assist in the identification of potential pregnancy risks where regional governments could thus take action.

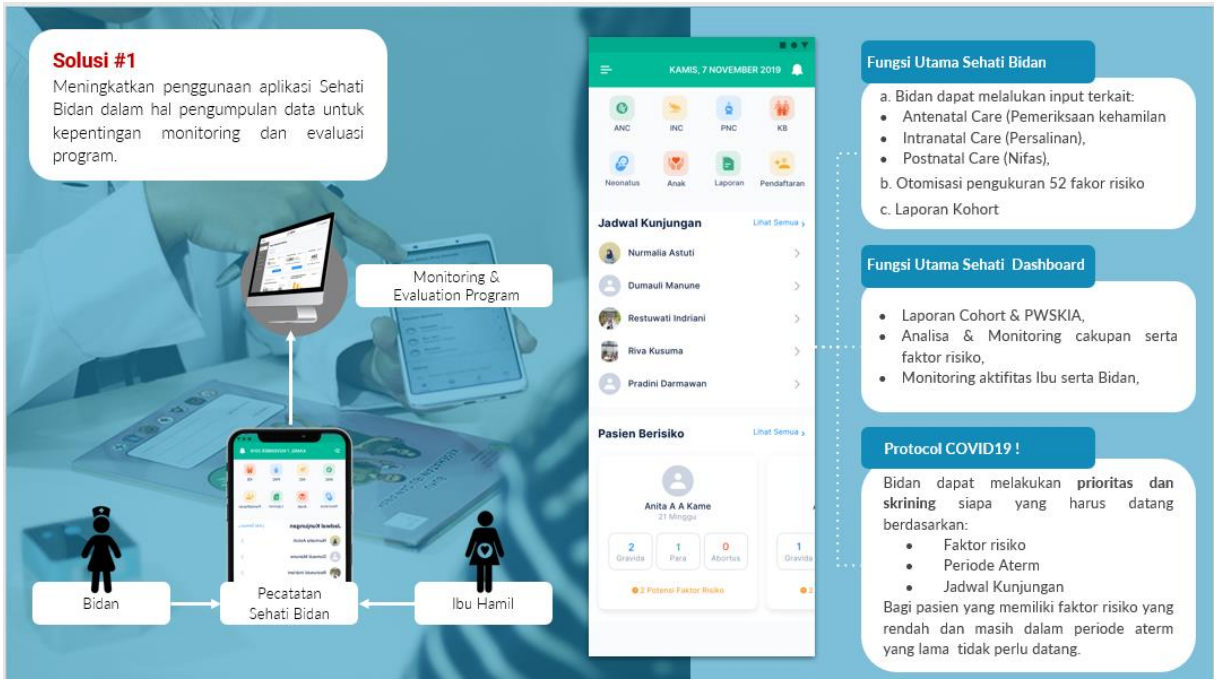
WSIS Values Promotion: This program has a strong proximity towards Action Line 7 where it coincides with the understanding that ICT applications benefits all aspects of life in the arena of e-health. This is due to the fact that the program follows through the utilization of digitalization in the lanes of teleCTG as well as health records which can holistically be applied to medical professionals, midwives, regional governments, as well as the general population who can enjoy the organization of data combined with the mitigating aspects found in the usage of teleCTG. In terms achieving the SDG Goal 3 and Goal 10, the most crucial component of this program would make it congruent to goal three which surrounds the area of good health and well-being. This program would thus support the United Nations' effort to sure up a health population - strengthened especially in disadvantaged regions. In addition, the utilization of TeleCTG would help push progress further for the United Nations in the area of reproductive health, maternal health as well as child health. Finally, understanding that a lack of data proves to be a hinderance to understanding the true impact of COVID-19 as well public health systems, the usage of online medical records will seek to consolidate efforts, especially in rural and remote areas where access to healthcare is limited and thus exacerbating socio-economic inequalities between urban and rural communities.

WSIS Action Lines: 1, 3, 4, 5, 6, HEA

SDGs: SDG3, SDG10

Stakeholder Type: Government

Country, Region: Indonesia, Asia and Pacific



Memory TV

MemoApp project was launched in 2018 following the need to remotely support our elderly father suffering from dementia. The project expanded and our Smart Memory TV's are currently successfully installed in homes and leading institutions in Israel. MemoApp is a Smart Memory TV presents personalized reminders, activities, health & wellness content, family video communication, general and personal information, custom music-movies-family photo's, for brain stimulation and sensory experience all tailored on a personal screen for each individual challenges and behavioral characteristics. It is fully automated for the patient, works 24/7, no operation needed. The personal screen is large, adjusted to experience comfortably the content presented in full accessibility. MemoApp became a method of treatment. Content is controlled by a caregiver, who remotely writes & edits daily personal information to be displayed including daily activities, guests visiting, reminders of important health issues (doctors, treatments, medicines, hygiene), nutrition. Information is displayed in a conspicuous manner, helping the patient to lead an independent and active lifestyle. It improves quality of life in natural home environment, empowers Care Delivery, prevention of accidents at home, re-hospitalizations and deterioration and helping family members to be in touch with their loved ones with resulting peace of mind. It Succeeds in "extracting life" from a person who is in cognitive decline. contributes to "active ageing" and "independent functioning" contributes to strengthens the patient sense of self-confidence, assists in dispelling feelings of loneliness and reduces feelings of stress and anxiety which are a virtue of longevity.

Website: https://www.memoapp.co.il

Target Beneficiary Groups: OLDP

Replicable Description: Project methodology is based on the ability to replicate the project for each individual as a basis on which the necessary adjustments are made personally, each according to personal needs, stages of the disease, and personal experience that drives him. We have created an infrastructure where both individuals and large organizations can operate on the replicate project independently. The system can be adapted to serve diverse populations, the project lives and breathes the wisdom of the crowd whose conclusions we replicate and make accessible to all users, it supports all languages, multi devices and complex expressions of the disease such as Alzheimer's, Parkinson's, Huntington etc. Today the project is replicated to dozens of private users and private organizations dealing with dementia, and can easily continue to expand and serve more. One of our leading project is Beit-Hashemesh retirement home, where the residents maintain a full daily routine with Memoapp. Independently having a video call with their family, with the children, and grandchildren who are sometimes with limited ability to come to visit physically. Tenants get an empowering experience throughout the day with the help of music, movies, customized content, and an accessible daily routine.

WSIS Values Promotion: We provide a unique Assistive Technology (AT) based on Information and communication. The caregiver is providing it daily to his/her loved one to make their lives easier. Our technology is based on a big 32inch Smart TV and a net camera that supports the demented person to complete their daily tasks, maintain their independence, help manage risks at home and reduce stress for carers. The experience for the patient is outstanding comparing to any other small device like smartphone or even a tablet. We went down to the smallest details, in our experience even the metallic sound of the smartphone can be disturbing for a demented person. We have seen that the communication experience and the information that passes through the screen and the sound that emanates from it in the video call, video or song is much more familiar and pleasing to the ear. Our Technological devices and unique treatment method based on filling in the missing part of the memory by

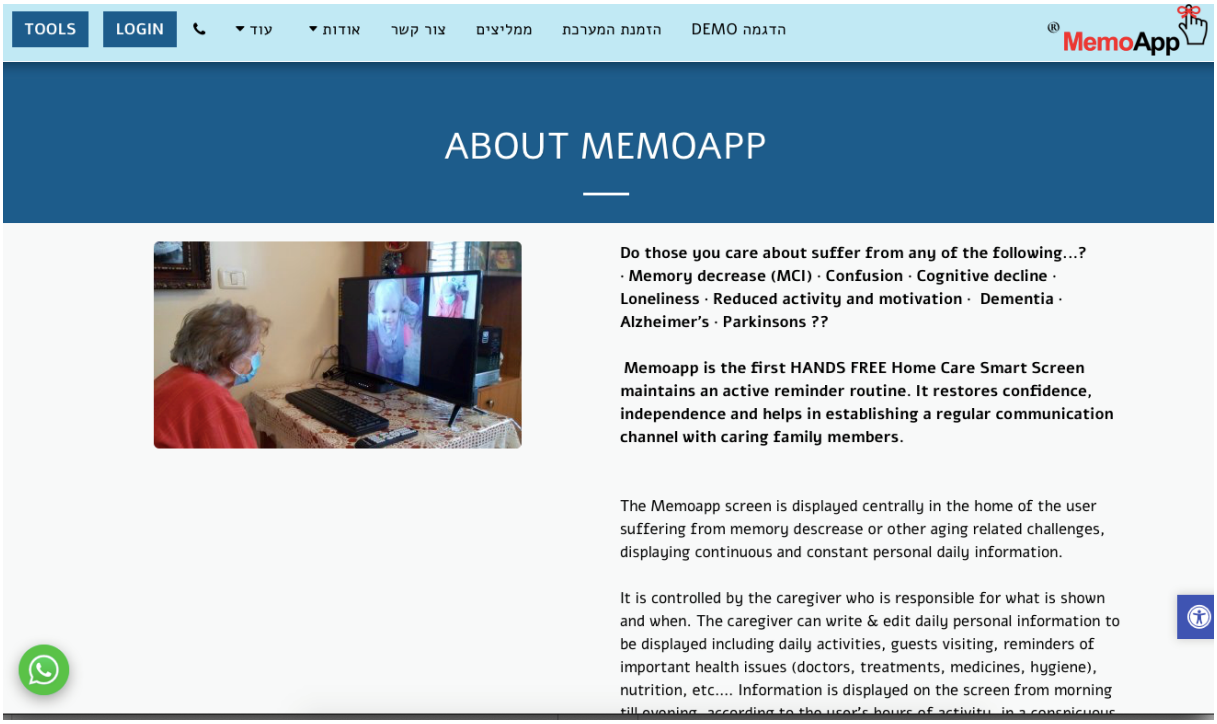
transmitting on-line information and ongoing communication with the demented person remotely.

WSIS Action Lines: 2, HEA

SDGs: SDG3

Stakeholder Type: Civil Society

Country, Region: Israel, Western Europe and North America



Health Information Exchange

Malaysian Health Information Exchange (HIE) is a sustainable ecosystem that enables healthcare providers and individuals to digitally access and share essential health information. HIE is a tool to deliver continuous and seamless healthcare services to individuals across all healthcare facilities and locations. The ecosystem significantly improves communication between healthcare facilities to provide patient-centric services. Patients are empowered through access to accurate health information for better health management and decision-making. As an analytical tool, HIE translates passive clinical data into actionable strategies impacting the country's healthcare planning, funding and delivery. Beyond health outcomes, HIE drives interoperability in the country's digital health ecosystem by adopting international standards and global benchmarks. The inception of HIE is crafted in line with the UN SDG of Good Health and Well-Being. Since December 2021, HIE has been acknowledged as a trailblazer for its capability for quick digitalisation of healthcare records at facilities with minimal ICT devices and connectivity in rural districts of Negeri Sembilan state. HIE is fast moving into its second track for seamless coordination of patient referrals and interfacility radiology and pathology services.

Website: http://www.hie.moh.gov.my

Replicable Description: Yes, HIE as an ecosystem allows vertical and horizontal participations, be it healthcare facilities, clinical systems and users. At present, although the project is focused on one state but has accepted sharing of records from systems across the country. Once the platform is ready and fully utilised by state of Negeri Sembilan, it can be replicated for the whole nation.

Sustainable Description: Sustainability is a key consideration in the inception of HIE. As technology advances and more healthcare and management systems are available in the healthcare industry, HIE focuses on essential interoperability requirements. Thereby, it encourages diversity of applications and technologies. Another advantage of HIE is that it is easily scalable, more services can be added on when the industry is ready instead of an upfront development and investment. Establishment of Electronic Medical Record Office (EMRO) may help to oversee namely: version control of the application design and architectures; competency building of Subject Matter Experts (SMEs) and workforce; strategic investment from sponsors; benchmark reference to global standards etc. Freedom, equality, solidarity, tolerance, shared responsibility and respect for nature with inputs from all parties involved is the key principles to remain sustainable.

WSIS Values Promotion: HIE promotes digital literacy for all stakeholders - healthcare decision maker, practitioners, patients, families and communities. By enabling analytics, it allows decisions makers to use data for better policy formation and strategic planning. It opens the opportunities for more research to be conducted across the spectrum. More importantly it turns passive data into actions that will benefit the people. Similarly, healthcare providers are given the opportunities to have timely access to information they need to make better decisions for patient care. Information that only improve the quality of care but in the long run improve patient wellness advocacy. For Malaysia, the most valuable impact is for the patients and their families who have been waiting for a long time to have access to their health records. Via the RekodSaya Portal, patients and their legal guardians are able to benefit from the information shared by their healthcare providers. As such, this project promotes WSIS values in the community such as C7. ICT applications: benefits in all aspects of life - E-government and C7. ICT applications: benefits in all aspects of life - E-health.

WSIS Action Lines: HEA

SDGs: SDG3

Stakeholder Type: Government

Country, Region: Malaysia, Asia and Pacific



National Occupational Accident & Disease Statistics

National Occupational Accident and Disease Statistics contain information on occupational injury rates detailing the type of accidents and injuries, causes of injury, industries, and states on an annual basis. These statistics are based on occupational injury data provided by the Department of Occupational Safety & Health (DOSH) and Social Security Organisation (SOCSO), Ministry of Human Resources. Statistics on occupational injuries are crucial to assess how safe and secure the workplaces and working environments are, particularly on workers' exposure to risks at work, and reveal which groups of workers are the most vulnerable. These statistics help policymakers in concentrating their efforts so that measures taken are as impactful as possible, for instance, by designing specific safety campaigns or more effectively targeted inspection visits. Furthermore, the statistics are helpful to identify new hazards and emerging risks. The information may be used for estimating the consequences of occupational injuries which in turn can raise awareness of the importance of occupational safety and health. This is in accordance with the 2030 Agenda for Sustainable Development, Target 8.8 on protecting labour rights and promote safe and secure working environments for workers. This indicator framework includes an indicator of the fatal and non-fatal occupational injury rates.

Website: https://www.ilmia.gov.my/index.php/en/bda-noa

Target Beneficiary Groups: YOUTH, OLDP, WOMN, DISB, UNEMP, MIGR

Sustainable Description: The information through this project is monitored on an annual basis following the 2030 Agenda for Sustainable Development for Target 8.8 on protecting labour rights and promote safe and secure working environments for workers. Furthermore, the policymakers may use this information for the initiatives/ strategies related to human capital in the country.

WSIS Values Promotion: This project is beneficial to the community as it provides an overview of information for the safety of the working environment. In addition, the information may be useful for the community to understand the importance of how safe and secure the workplace and working environments are. Besides, the statistics are also important in determining how well workers are protected from risks and hazards at work.

WSIS Action Lines: HEA

SDGs: SDG8

Stakeholder Type: Government

Country, Region: Malaysia, Asia and Pacific



Harm Reduction Unit(HRU) National Database of Substance Misuse Patients

Objectives the National Database of patients for the Harm Reduction Unit (HRU) of the Ministry of Health and Wellness is an online Central Repository of all patients under substance misuse (drug) treatment at the HRU and is operational since July 2022. This system comes as part of the government's directions to develop public services and achieve a smart government in line with the goals of the Mauritius Vision 2030 that calls for an intelligent and smart Mauritius and the Digital Mauritius 2030 Strategic Plan that lays emphasis on the formulation for an innovative, effective and sustainable Public Sector. Results achieved the System is hosted centrally at the Government Data Center and is accessed by Doctors, Nurses, Pharmacists from island wide sites namely the 13 HRU sites, hospital pharmacies via a single network, the GINS* connectivity. Through this consolidated database the one patient one record concept has been achieved. The new system enhances access to live up to date patients medical and clinical information. *GINS (Government Intranet Network System) - infrastructure through which public institutions communicate the HRU System connects to the Central Population Database (CPD) of the Mauritius Civil Status Division through the Info Highway*. This connection provides for the following: • During patient registration, the patient National ID Number is validated against the CPD and demographic data of the patient is retrieved from the CPD and pushed to the HRU system. • Deactivation of patients who pass away *Info Highway – Platform for sharing of data amongst Government Agencies Impact generated • A single integrated live source of information and a focal point of reference for the HRU that contributes to improving clinical outcomes. • High quality data for guiding resource planning, allocation, monitoring and evaluation. • Enhancing competency levels of health care staff at all levels and across the organization towards ICT to deliver better healthcare

Website: https://hru.govmu.org/

Replicable Description: • The system is Web-enabled and hosted centrally at the Government Data Centre. • Access to the system can be opened for other departments offering similar treatment programmes to Substance Misuse Patients E.g. Mauritius Prisons Services (MPS) provides Methadone Substitution to Prisoners with (opioid) drug addiction MPS access to the system is currently in progress with the assistance of the Central Information Systems Division (CISD), Central Informatics Bureau (CIB) of the Ministry of Information Technology, Communication and Innovation and the HRU team. • The system will be deployed in forthcoming new HRU Centres that are intended to further decentralise the services for Substance Misuse.

Sustainable Description: The system has been designed, developed and implemented at no cost by an inhouse team -the Application Development Unit (ADU) the of the Central Information Systems Division (CISD) and the Central Informatics Bureau (CIB) of the Ministry of Information Technology, Communication and Innovation in collaboration with the HRU team of Doctors, Pharmacists and Nurses. The ADU has identified dedicated contact persons to provide technical support to users of the system. Moreover, CISD staff posted at Hospitals level also provide support to HRU system users. All modifications, enhancements, trainings, System Administration tasks (e.g. creation of new users, backup of data, etc), deployments to new sites are taken in charge by the in-house team at no cost. Steering Committee a Steering Committee at the level of the MoHW oversees the implementation and usage of the System.

WSIS Values Promotion: 1) The role of governments and all stakeholders in the promotion of ICTs for development. The development, implementation and support of the Electronic System is result of the partnership of several stakeholders namely: • Ministry of Health and

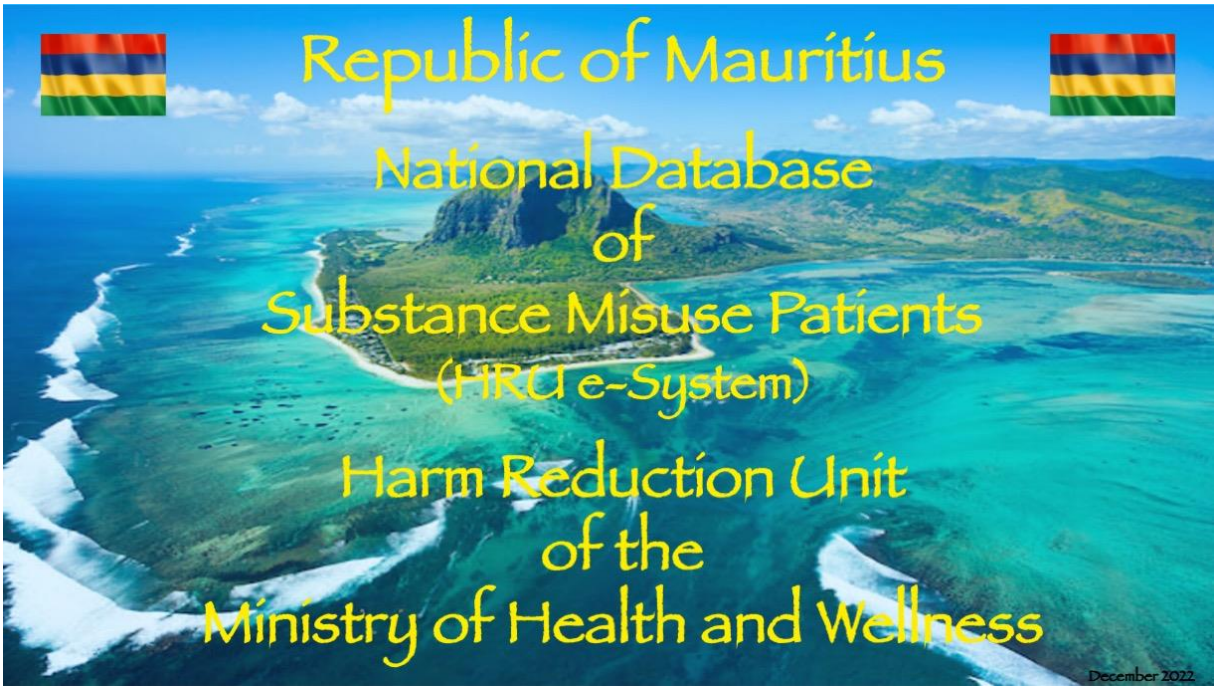
Wellness (MoHW) - Main Sponsor for the project, namely: - Harm Reduction Unit (HRU), - Pharmacy Section of the MoHW • Ministry of Information Technology, Communication and Innovation (MITCI) - Project Management, Technical Assistance through the: - Central Informatics Bureau (CIB) - Central Information Systems Division (CISD) – Application Development Unit (ADU) - Government Online Centre (GOC) 2) Information and communication infrastructure: an essential foundation for an inclusive information society The GOC, GINS, InfoHighway used for implementing and deploying the HRU system are amongst the enabling Information and communication infrastructure put in place by the MITCI for e-powering people, businesses and the public sector. 3) Access to information and knowledge: The National Database of Patients under Substance Misuse Treatment has implemented the One person, One record concept and provides high-quality data, to support monitoring, evaluation and evidence-based decision-making

WSIS Action Lines: 1, 2, 3, GOV, HEA

SDGs: SDG3, SDG11, SDG16

Stakeholder Type: Government

Country, Region: Mauritius, Africa



Bone Health New Zealand

Wrongly dismissed as a condition of "frail old women", osteoporosis had a branding problem – getting in the way of saving lives, since numerous interventions can be made with public education. By creating a consumer-facing brand – Bone Health New Zealand – and an integrated launch campaign, ONZ took a bold step away from old myths and negative connotations and drive a step-change in New Zealanders bone health through awareness that leads to proactive behavioural change and action. There have been three phases to the campaign so far:(1) Initial launch In tandem with the rebrand, we licensed 'Know Your BonesTM' (KYB) for use in NZ – a free online consumer-friendly fracture risk assessment web tool based on the Garvan risk calculator. ONZ developed a digital campaign, aiming to drive 3000 completions of KYB through engaging, curiosity-piquing creative concepts. Two weeks post-launch KYB had achieved 500 completions, but with the country then thrown into lockdown (and bone fragility far down the list of national health concerns), ONZ paused the campaign. (2) TVCPost-lockdown, in June 2020, ONZ applied for a media grant. Instead of the 15" community radio campaign initially on offer, ONZ were granted a national two-week television commercial flight supported by digital billboards in NZ's largest city. 5000 KYB assessments were completed, well above ONZs initial target. (3) Clinical standard and KPIThe KYB tool is now embedded in the clinical standards for NZ Fracture Liaison Service as well as a cascade screening KPI in the new National Registry.

Website: https://www.bones.org.nz/

Target Beneficiary Groups: OLDP

Replicable Description: ONZ have developed a strategy that has been intentionally designed to be readily exportable to other countries. The use of transferable messaging and mediums enables the campaign to be packaged and delivered by other national osteoporosis societies to engage people of all ages but in particular those aged 50+. ONZ is open to entering into agreements with sister organisation in other countries to share our experience and intellectual property, provide mentorship and support to enable delivery of similar Bone Health public awareness strategies for the populations that they serve. Our platform will drive a step change in bone health through awareness that leads to proactive behavioural change and action. It is encouraging to see that our sister societies in other countries have embraced the 'healthy bones' positioning of Bone Health NZ for communications with members of the public - Australia rebranded as Healthy Bones Australia, Feb 2021. A demonstration of the move away from the negative connotations associated with 'osteoporosis' and dismissal of the myth that osteoporosis is purely a condition of very frail old ladies, rather that there should be a life course approach.

WSIS Values Promotion: Critical to the success of our campaign, ICTs have played a key part in both campaign delivery and free access to our offering. In our initial digital media campaign, ICTs were involved in: • Intercepting our audience via digital platforms. • Directing interested individuals to our web platform. • Driving engagement with the Know Your BonesTM web tool. • Compiling personalised reports for easy sharing with GPs. In our television commercial flight and supporting digital billboards, ICTs were involved in: • Calls to visit our web platform. • Driving engagement with the Know Your BonesTM web. • Compiling personalised reports for easy sharing with GPs. Finally, the ICT-powered Know Your BonesTM web tool is now embedded in clinical standards for New Zealand's Fracture Liaison Service, as well as featuring in our new National Registry as a key performance indicator for cascade screening. KYB and the campaign speaks to the Integrated Care theme best: • "Numerous physiological changes occur with increasing age, and for older people the risks of experiencing declines in physical and mental capacities increase. • These declines often progress and manifest themselves as visual impairment, hearing loss, cognitive decline,

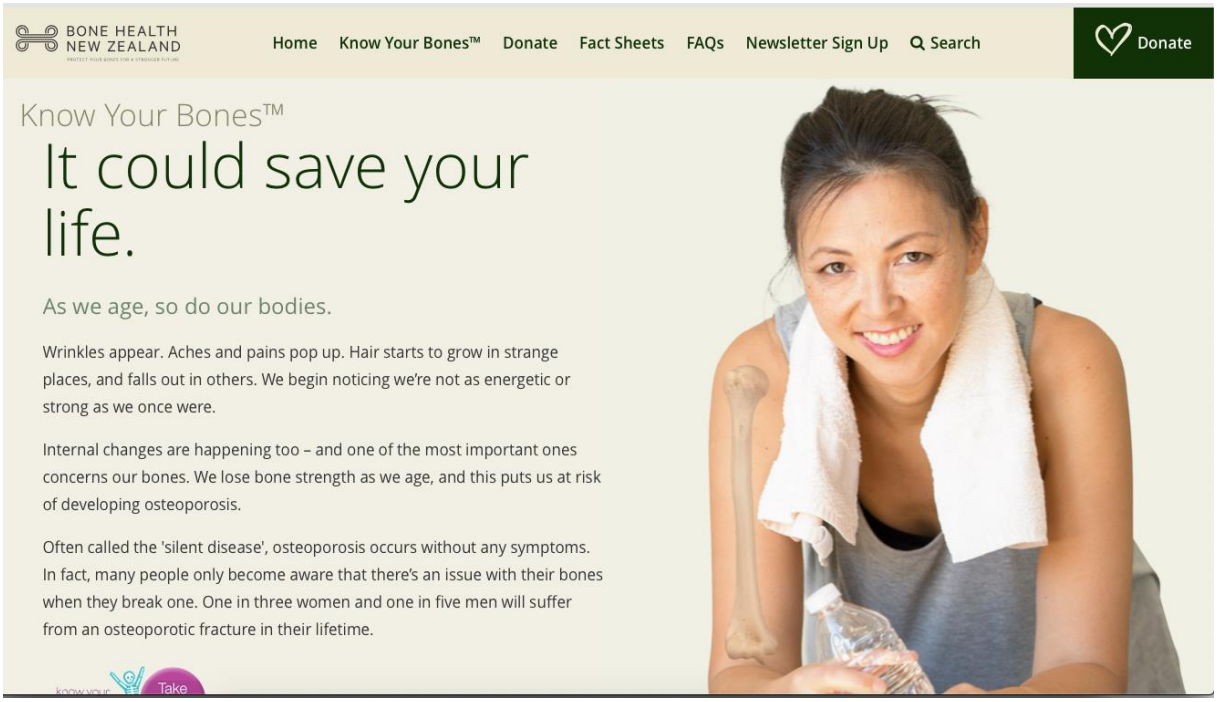
malnutrition, mobility loss, depressive symptoms, urinary incontinence and falls. • Integrated care for older people (ICOPE) reflects a continuum of care that will help to reorient health and social services towards a more person-centred and coordinated model of care." KYB is inherently person-centred, enabling older people (and people of all ages) to be proactive in understanding their bone health and so maintain mobility and avoid falls in older life. Included in the Bone Health Campaign is the promotion and provision of evidence based easily understood information on bone health to engage and empower older people.

WSIS Action Lines: 2, HEA

SDGs: SDG3

Stakeholder Type: Civil Society

Country, Region: New Zealand, Western Europe and North America



Mawidy platform

Mawidy is one-stop-shop healthcare platform that provides all essential healthcare services by leveraging cutting-edge technologies and artificial intelligence. The main objective of the platform is to help the community overcome challenges which delay timely and appropriate care outcome such as Geographical barriers as well as achieving an integrated health strategy; thus leading to a vibrant and healthy society. Mawidy has succeeded in attracting more than 1500 healthcare providers to join the app and provide more than 25000 virtual clinics to 35000 patients. The platform serves all individuals, citizens and residents in the Kingdom, including their children, the elderly, or people with special needs with both Language in Arabic and English. And people with special needs in Arabic, English and sign language.

Website: https://mawidy.com/

Target Beneficiary Groups: YOUTH, WOMN, DISB, POOR, RURL

Sustainable Description: As we believe in the importance of public health we have helped maintain health in a sustainable manner such as: - Established a charitable initiative called (Sanad Initiative) to provide free medical consultation services for the beneficiaries of the initiative. - Implementation of community organizations and services and active participation in charitable and voluntary events - Spreading knowledge through social media about public health and how to maintain it.

WSIS Values Promotion: With the increase in the population and the increase in the percentage of the elderly, the need for excellent health services increases. And the development of the health sector will form an important part of the general objectives of the Kingdom's Vision 2030. No country, whatever it is, can seek progress and prosperity without taking into account the provision of distinguished health care to its citizens. Therefore, health and medical projects in all their forms will witness great development and demand in the Saudi market.

WSIS Action Lines: HEA

SDGs: SDG3

Stakeholder Type: Private Sector

Country, Region: Saudi Arabia, Asia and Pacific

All Health in Sehhaty

In 2019, the Ministry of Health (MOH) developed the Sehhaty Platform under the slogan “All Health in Sehhaty”. It is an enterprise population health platform for all citizens, residents, and visitors in Saudi Arabia. The objectives of Sehhaty can be summarized in the following points. Ensure healthy lives and promote well-being for all at all ages. Provide a unified quick access to essential healthcare services and information. Apply a new model of care related to disease prevention. Improve the quality of health services and focus upon the satisfaction of beneficiaries by following the best evidence-based international standards. By developing the Sehhaty, MOH achieves the following results. First, provide access to all health services at one unified platform by collaborating with all entities in the health sector. Second, promote healthy lifestyle and awareness by providing multiple services such as: Steps service which allows the users to set their target steps goal and register on walking campaigns. Know Your Number service which allows the users to monitor their essential vital indicators and view awareness messages guiding each reading. Educational Content service which views authorized and classified educational contents. Third, support women and children's health by developing “Hayat” service which aim to improve women's health before, during, and after pregnancy to reduce the maternal mortality and preventable deaths of newborns. Fourth, support general health by providing immediate consultation service which allows the individuals to obtain an immediate (remote) consultation through doctors accredited by the MOH. In addition, Sehhaty provides search for a drug service which enables the users to search for drugs, check out their availability in nearby pharmacies. Furthermore, Sehhaty supports Team Based Care (TBC) feature with the concept of having care teams at primary health care centers and each team is responsible for a defined number of patients to allow for proactive healthcare service.

Website: https://www.moh.gov.sa/en/eServices/Sehhaty/Pages/default.aspx

Target Beneficiary Groups: YOUTH, OLDP, WOMN, UNEMP, POOR, MIGR, REFG, RURL

Replicable Description: The Sehhaty project has been proven to work successfully on one community which is Saudi Arabia. It has geographical coverage for 13 regions throughout Saudi Arabia and provides more than 26 electronic services. Furthermore, it has been integrated with 9 entities. That means it can often be exported to other communities while there are, of course, vast differences between communities. Thus, other countries can replicate the concept with the availability of the proper technological infrastructure and collaboration efforts with the respective stakeholders.

Sustainable Description: Sehhaty is a sustainable platform by applying the following rules. First, assessing users’ needs through a monthly committee meeting to govern the changes. Second, paying attention to users’ feedback by participating on the Digital Experience Maturity Index for Government developed by Digital Government Authority (DGA) to measure the beneficiary satisfaction, user experience, and handling complaints. Sehhaty obtained 83.80% and achieved fourth place among twelve platforms. Furthermore, Sehhaty has cooperated with “Tafaul” Platform which responsible for paying attention to users’ voice by observing their opinions to improve their digital experiences. Thus, a general consultation has been published to know the most important service to be available in the Sehhaty. The views of the public have been taken into account during the decision-making processes regarding the directions of development of services in the Sehhaty. Third, updating and releasing versions frequently to enhance the users’ experience and release a new version with new features. Fourth, becoming a unified platform. MOH and DGA signed an agreement to integrate the platforms of the health sector and adopt the "Sehhaty" platform as an enterprise platform for individual. Fifth, providing application and services description. A clear

description has been added to the app page on app stores, and a description has been added to demonstrate what's new for each installed version. On MOH portal, a web page has been created for each main Sehhaty service to view the service description, steps, frequently asked questions, service level agreement (SLA), and more. Also, a weekly post is posted in Sehhaty Twitter account to view the most frequent users' questions and the correct answers. Sixth, focusing on scalability by launching the new service to selected audiences as pilot launching instead of Big Bang launching to measure the real service usage and force on improving the service before launching it to the entire audience.

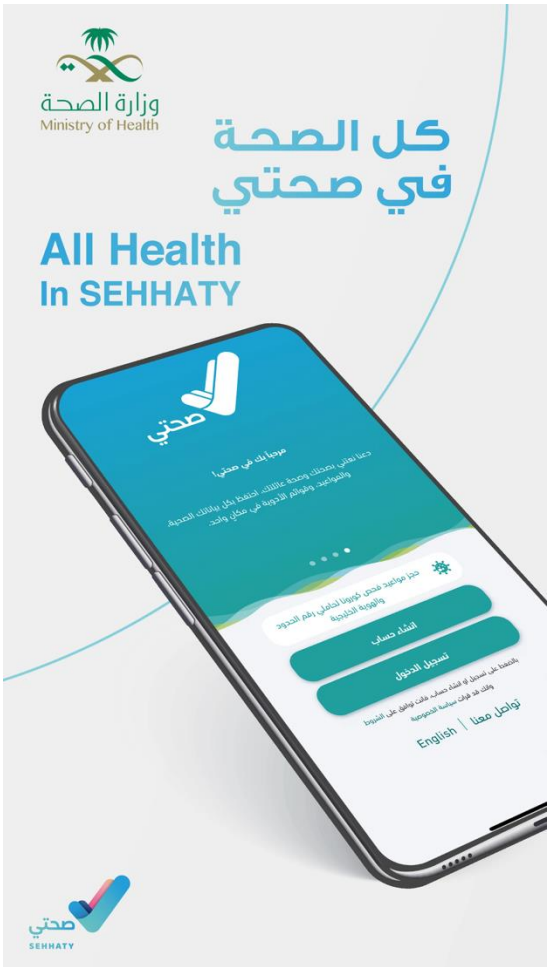
WSIS Values Promotion: This project reflects the following WSIS values: - Equality by providing e-services for all individuals. - Availability by making sure that the services are available 24/7. - Security and confidentiality by supporting the security of accessing medical records through Nafath pass, linking the right patient with the right medical record, and providing the patient with full right to check his medical records. - Green Environment by supporting the paperless concept and providing the patient with the required electronic documents like sick leave. - Privacy policy by presenting the privacy policy agreement to the users during the registration process to obtain their agreement. Furthermore, a delete account feature has been developed to allow the user to delete his/her account.

WSIS Action Lines: 1, 3, HEA

SDGs: SDG3

Stakeholder Type: Government

Country, Region: Saudi Arabia, Asia and Pacific



Seha Virtual Hospital and Innovation Enablement Centre

A world-leading example in introducing and promoting a virtual digital healthcare model. Providing virtual healthcare through innovating and applying modern technologies, contributing to the transfer of information, and promoting experience; To achieve development and sustainability in the healthcare sector. valuing: care, Diversity, Sustainability, Excellence, innovation, and Cooperation. serving 5 main pathways: Acute/critical care virtual consultation, Virtual Specialized Clinics, Multidisciplinary Virtual Committees, Virtual Medical Support Services, and home care services. SVH main objectives include Easy access to specialized medical care in a timely manner despite the geographical distance, bridging the gap in specialized healthcare providers and making the most of it on a larger scale, Improve the health services efficiency provided (through the provision of support and assistance), Enhance experience and knowledge transfer, Disseminate Clinical Excellence, and Innovation in the health sector. SVH has achieved +72,037 number of beneficiaries, 15 main specialties offered, 34 subspeciality offered and +480,000 annual bed capacity. Our services has successfully stand out with 2,190 remote critical care consultation, 33 minutes The average time to give a blood thinner to a stroke patient from admission to the emergency room, 700 virtual Cardiology consultations, 29.115 remote radiology reports, 13 remote cardiac surgery, 4:39hrs average hourly time for writing a radiology report, 427 tele-acquisition and 1,805 number of segment assigned for remote pathology.

Website: https://www.moh.gov.sa/Ministry/Projects/Pages/Seha-Virtual-Hospital.aspx

Target Beneficiary Groups: YOUTH, OLDP, WOMN, INDG, DISB, UNEMP, POOR, MIGR, REFG, RURL

Replicable Description: It aims to highlight examples of sustainable ICT applications and use cases that communities anywhere in the world can replicate.

Sustainable Description: Achieving the hospital's financial sustainability by diversifying sources of funding in line with the national transformation and involving all relevant sectors.

WSIS Values Promotion: It aims to highlight examples of sustainable ICT applications and use cases that communities anywhere in the world can replicate.

WSIS Action Lines: 1, 3, HEA

SDGs: SDG3, SDG9, SDG12

Stakeholder Type: Government

Country, Region: Saudi Arabia, Asia and Pacific

MOHAP Smart Application

The Ministry of Health aims to provide services in a simple and accurate method to benefit the audience through the latest technology. Its basic mission is represented in providing simplified information which benefits the health field through the modern machines such as smart phone.The MOHAP mobile application is part of the smart government initiative, which provide an outstanding access to e-services, follow up application status and reduce the customer inconvenience which may be caused by physical visits to service centers. Moreover, the app facilitates towards reduction of paper usage. The application also serves as an educational source by providing valuable information on a variety of health topics thus raising health awareness. MOHAP continually seeks to serve its customers at their own convenience through various digital services. The features of MOHAP mobile application: • Availability and ease of access to the Ministry's services • The simplicity of the application and the improvement of the customer journey • Integrating the entire ministry's applications into one smart application • Easy login to the application using UAE Pass or Register as new user. • Support is available in the application in an easy way, so the user can ask for a help via chatbot AI tool, send an email or call the customer service center. • Many electronic services are available on the application which enable user to carry out transactions with the ministry in quick and easy way • Medical Guidance to health facilities (hospitals, clinics, pharmacies, doctors) and details of access them is available on the application. • Modern means of communication with Ministry via mobile, e-mail, and social media to submit suggestions or complaints • The application is available on both Google play and Apple Store • The application has been rated with high rate in both google and Apple stores.

Website: https://play.google.com/store/apps/details?id=com.gov.uae.mohap&hl=en&gl=US

Target Beneficiary Groups: YOUTH, OLDP, WOMN, UNEMP, POOR

Replicable Description: All public and private sectors that present online health services to customers can all replicate this application. MOHAP App follows the international standards for support customers and make interactions between the customer and the sector more intelligent. However this application needs only to download it from the stores. This application can be replicated across any public/private /mobile centre, for any solution.

Sustainable Description: MOHAP Application project, a set of integrated API's and services with health information system which connected all MOHAP facilities (17 hospitals , and 78 clinics) as this model of full integration had been developed and formed effectively, which can quickly reflect the medical history and all service provider documentation directly on application as the patient have full access 24/7 on medical record and history, and have the right to share with physicians, with this workflow, the reduce of printing the paper / medical reports, medical summery, medication and prescription and much more.

WSIS Values Promotion: MOHAP App gives access to e-services, follow up application status and reduce the customer inconvenience which may be caused by physical visits to service centres. Moreover, the app facilitates towards reduction of paper usage. The application also serves as an educational source by providing valuable information on a variety of health topics thus raising health awareness. The application is both available in English and Arabic and enable end-users and customers to access MOHAPs social media and other service channels such as live Chatbot. MOHAP continually seeks to serve its customers at their own convenience through various digital service channels. Today, it is impossible to imagine the development of modern organisations without information technology. Information and communication technologies have a significant impact on many areas of life. i.e. the economy, the social sphere, the public sector, and, of course, customer service, and information and knowledge become the main value in the modern world. We consider the

implementation of online services in the field of digital technologies, introducing the young generation to the development and meaningful use of ICT, training in the necessary digital skills and thereby forming full-fledged members of the modern information society, focused on continuous development and activities in the interests of all mankind to be the main goals of our activity. This is consistent with one of the main goals of the WSIS and Action line C3 – Access to information and knowledge, as well as the goals of sustainable development. Our own deep conviction is that human capital is one of the most important components of the information society. Therefore, we are developing a modern feature, which is based on the use of ICT and helps to increase customer experience in this area. The application can be customized due to favourites user interfaces, which leads to easy access to data and information.

WSIS Action Lines: 1, 6, HEA

SDGs: SDG3, SDG5, SDG11, SDG12, SDG16, SDG17

Stakeholder Type: Government

Country, Region: United Arab Emirates, Asia and Pacific



EHS WEBSITE

EHS Website is the main digital channel for all the information and services provided by EHS. It includes announcements, healthcare facilities details (Locations, contact number, services…etc), open data, services directory, and many more. It allows the customer to explore and apply for the different services and submit his feedback. It's in alignment with the TDRA guidelines and PMO quality guidelines and it competes internationally for excellence. We integrate with Google Maps and google search engine and the first Healthcare facility in the region to have services listed as products to the customers and users.

Website: https://www.ehs.gov.ae/

Target Beneficiary Groups: YOUTH, OLDP, WOMN, INDG, DISB, UNEMP, POOR, MIGR, RURL

Replicable Description: The website is built to be an eHealth product, which can be replicated and used for any new portals or sub portals.

Sustainable Description: one of our values is "People First". We design and build our websites and eHealth services by listening to the voice of people, and have regular sessions and meetings (UX Lab) to ensure we adjust the website to be their best experience. We also aim to provide sufficient information that will indirectly reduce the need of physical commute to obtain any service or information.

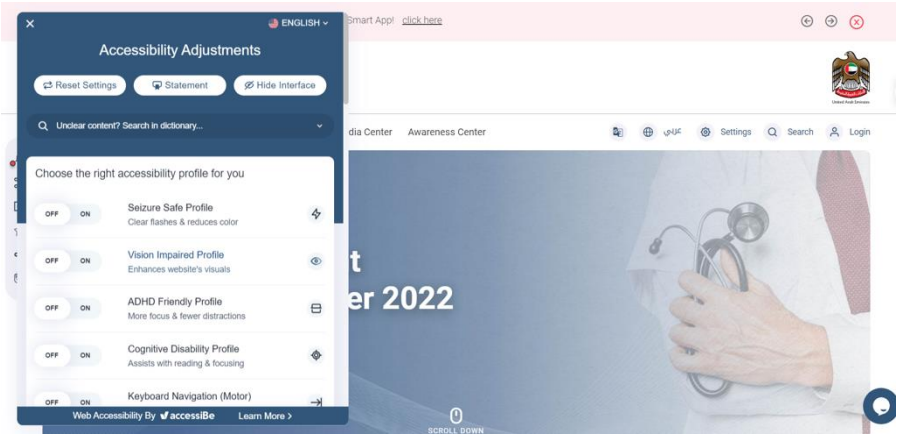
WSIS Values Promotion: It supports equality for all community sectors young and old, people of determination through enabling them by providing cutting edge features and tools to access information. For example: Text to sign language translation, text to speech, AI for different disability profiles (AccessBi System).The website have a section for open data which promotes transparency where the community can search for different types of datasets that can assist them in proper decision making .Moreover ,EHS entire Services catalogue available for public where they can view service details/submit any request like book appointment, medical fitness related services . The website promotes community reach by enabling the people to have direct conversation with EHS employees by utilizing live chat features.

WSIS Action Lines: HEA

SDGs: SDG3, SDG5, SDG10

Stakeholder Type: Government

Country, Region: United Arab Emirates, Asia and Pacific



ReadClear - Making Reading Real

More than 24 million stroke survivors in the world and more than 4 million people living with vision-led dementia will experience reading impairment for the rest of their lives. I am a clinical neuropsychologist and did not have any assistive technology to prescribe to the patients with this problem that I see in my clinic, because there was none. So my patients and I decided to work together to create a solution. We co-produced ReadClear, which is a research-based, clinically proven assistive reader that can help old people with brain-related visual impairment to read again. My goal now is to start a social enterprise to create a sustainable business model for ReadClear and scale-up so we can offer it in many countries and many languages across the world. I am being supported in this mission by a UKRI Healthy Ageing Catalyst Award. I seek to partner with media companies (e.g., BBC), publishers and national organisations e.g., National libraries) and I am reaching my customers through patient organisations and old age networks. I am are looking now for investors who want to support our mission, whether financially or collaborating as partners, to help us hit our next milestone: reaching 100 organisations and patient groups internationally by the end of the year.

Website: https://www.makingreadingreal.org/en-gb

Target Beneficiary Groups: OLDP

Replicable Description: Yes, it is. Our app was devised and tested on English speaking populations from the UK. Yet, when we launched the prototype, we released it in English and Spanish. We found that the number of downloads in Spain turned up to be even higher than in the UK. Older people who lose their reading ability and want to continue reading, share many features. These features are universal across cultures (e.g. the need to remain connected to others, to learn, to share, to participate). This app was a tool initially designed for people with vision-led dementia (a type of dementia where people´s memory is preserved but they progressively lose their vision). Interestingly, we soon realised that clinicians were using it also on stroke survivors and that these patients benefited even more than the original group the app was designed for. In summary, our experience so far suggests that the project can be replicated across different populations within the same country and across different countries and languages as well.

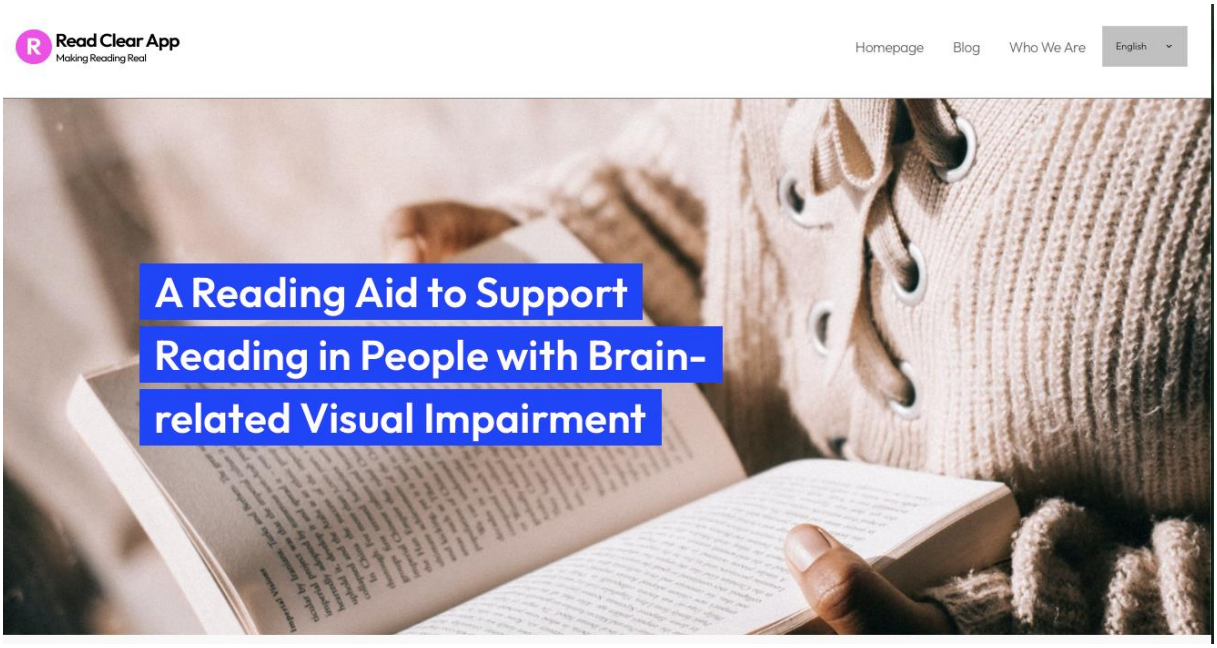
WSIS Values Promotion: My project pursues the worldwide commercialisation of the first evidence-based reading app specifically designed to support reading in older persons with brain-related visual impairment. The risk of dementia and stroke increases with age, and stroke and dementia are conditions that can produce brain-related visual loss. There are currently 24 million stroke survivors and 4 million people with vision-led dementia worldwide struggling to read because of this. Research has shown that reading deprivation leads to poorer mental health, social isolation and accelerates cognitive decline. These three outcomes often precipitate a loss of years of healthy and independent living. Therefore, the consequences of no longer being able to read constitute a matter of public health. My app has been co-produced with users and proved clinically effective in a randomised clinical trial: older people who have lost the ability to read as a result of brain-related visual impairment can read again using this app. My project is an assistive technology. It is an application with the ability to transform the perceptual characteristics of the printed text so that it can be decoded by the brain with difficulties processing visual stimuli. It is a software, so ICTs are at the core of its conception and design. The app can run on IOS and Android for phones and tablets. We have also created a browser-based version of the app for Chrome. The data I collect about my users is collected online, which represents a great advantage in terms of time and efficiency.

WSIS Action Lines: HEA

SDGs: SDG3, SDG10

Stakeholder Type: Academia

Country, Region: United Kingdom, Western Europe and North America



BrainGuide™ by UsAgainstAlzheimer's

BrainGuide is a first-of-its-kind online platform that empowers people with knowledge and resources to take action in managing their own or a loved one's brain health. UsAgainstAlzheimer's launched BrainGuide in March of 2021 to accelerate the next stage of the Alzheimer's movement. BrainGuide offers confidential memory questionnaires – taken over the phone or online in English or Spanish. After completing the questionnaire, BrainGuide provides tailored resources based on the answers provided, including tips for how to raise the topic in conversations with loved ones and a summary report that can be uploaded and immediately shared with a provider. The BrainGuide platform also includes educational content on a wide range of topics including how to maintain brain health; early signs and symptoms of Alzheimer's; screening detection and diagnosis; living with Alzheimer's disease; caregiver resources; Alzheimer's resources by locale; and brain health for all communities. The BrainGuide memory questionnaires have been adapted from the MIS/MIS-T (which is used under license from Albert Einstein College of Medicine) and the caregiver assessment is based on the AD8 (which is used under license from Washington University in Saint Louis). These assessments were adapted for use with a voice or web bot using Amazon Web Services state of the art technology. They are not intended to diagnose or make treatment recommendations. Since the launch of BrainGuide in March 2021, more than 300,000 people have visited the site, with170,000 people taking the memory questionnaire.

Website: https://mybrainguide.org/

Target Beneficiary Groups: OLDP

Replicable Description: UsAgainstAlzheimer's conducted a pilot in Atlanta that can be replicated in other cities to increase knowledge about brain health in the Black community and encourage utilization of the BrainGuide platform and resources. We worked closely with leaders in the community as well as on the ground community-based partners to carry messages into the community. Our work in Atlanta began with a Town Hall featuring Dr. David Satcher and experts from Emory University as well as leaders from several local organizations and black sororities. Following the Town Hall, which was attended by more than 500 participants, we launched a series of paid advertisements on black radio and black newspapers. We also trained several providers on BrainGuide and they continue to share BrainGuide in the community, including outreach to several churches that has resulted in increased utilization of BrainGuide. Lastly, we featured a person living with Alzheimer's and his care partner and one of our local experts on a television news program that yielded 4,000 website visits in just one day.

Sustainable Description: Yes, this project is aligned with SDG Goal 3.

WSIS Values Promotion: The BrainGuide platform runs on Amazon Web Services (AWS), using a state-of-the-art scalable cloud platform leveraging new technologies such as React.js, AWS Lex, Connect, Polly, DynamoDB and more to power the memory questionnaire capability and make it available to anyone with a telephone or internet access. It is accessible in English and Spanish. The BrainGuide questionnaire is based on the Memory Impairment Screen which is used under license by Albert Einstein College of Medicine. The caregiver questionnaire can be completed via web or voice bot as well and is based on the AD8 which is used under license by Washington University in Saint Louis. We have built an algorithm within the platform that is designed to provide tailored resources to users based on their answers to the questions. Users also have the option of entering an email address to obtain a summary of the questionnaire and link to relevant resources directly in an email. We also access our National Alzheimer's Disease Index (NADEX) which uses Medicare statistics on

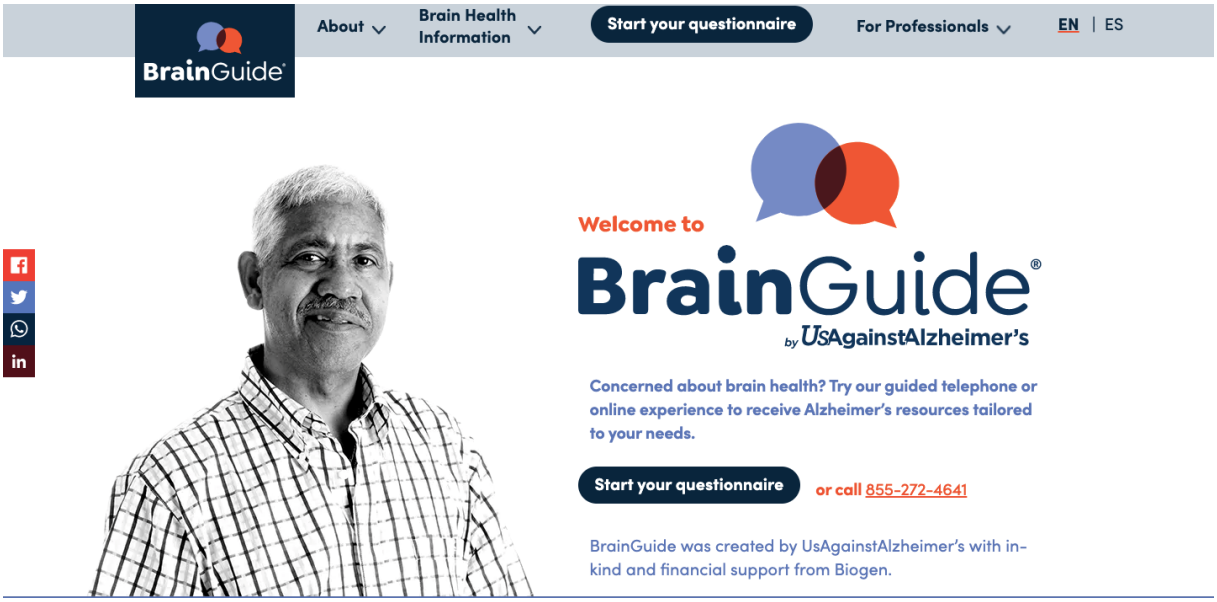
ADRD by geography and demographics to identify ADRD hotspots to determine the pilot sites for on the ground community engagement. Our first pilot city was Atlanta.

WSIS Action Lines: 3, 4, HEA, 8

SDGs: SDG3

Stakeholder Type: Civil Society

Country, Region: United States of America, Western Europe and North America



GetSetUp

GetSetUp is on a mission to help those over 55 learn new skills, connect with others and unlock new life experiences. Our virtual social learning platform helps over 4.6 million older adults in 160 countries stay mentally and physically fit, creates economic opportunities through jobs and reskilling, and provides a community where people find meaning and purpose by sharing their knowledge and passions and forming new connections. I'm in charge of our international growth markets and the first hub I started was in India. Globally we are facing a caregiving crisis. There will not be enough caregivers for all the people who are aging around the globe. While elders were cared for formerly by family, now in India, like many parts of the world, family is moving farther away. Senior care homes and caregivers are expensive for many people and many more people are staying healthier and living longer so they prefer to age in place.

Website: https://www.getsetup.io

Target Beneficiary Groups: OLDP

Replicable Description: GetSetUp is easily scalable, replicable, and applicable to a variety of audiences to meet the needs of partners' older adult populations. We work with governments on local county levels or on state level partnerships with states like New York. We also work with multiple diversely sized health plans through our partnership with Tivity Health. GetSetUp and its partners work together to build customized classes that support each community's needs. Furthermore, health classes that assist with long-term health management and outpatient care can be hosted by partners so that classes are truly customized to their population. Currently, over 4,500 senior-focused classes are available in our catalog. Live classes with Guides, who are experts in their field, drive discussions and Learners attending can contribute their insights and truly grow and develop to feel more empowered and healthier as they age. We have already proven scalability by expanding to multiple countries around the globe with hubs in the US, Australia, and India. We have team members in many more countries than that and Guides from around the world who are over 50. All our Guides are trained and teach classes on our site to support 24/7 programming across diverse time zones.

Sustainable Description:

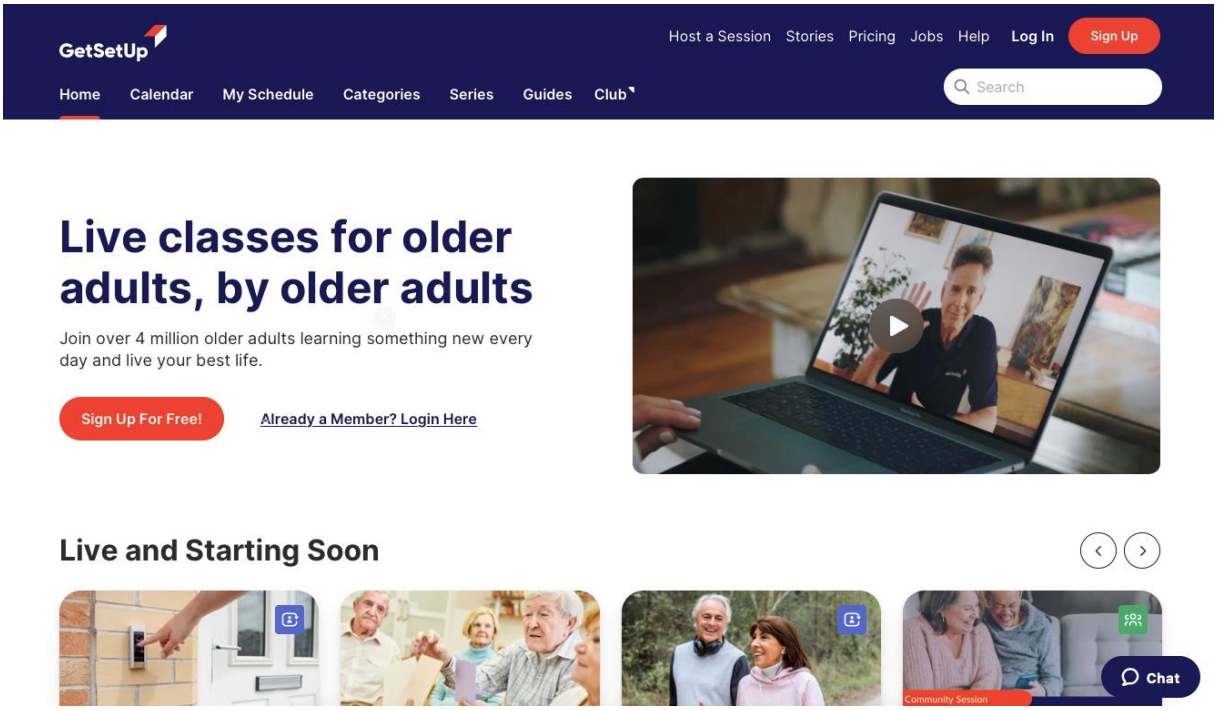
WSIS Values Promotion: GetSetUp helps to bridge the digital divide with a customized video platform designed to meet the needs of older adults. We remove all barriers to join since participants do not need to download or learn Zoom to participate, all they need to do is - click a button in their browser. By helping to mitigate the initial barriers to technology like downloading software and utilizing Zoom, GetSetUp makes classes more accessible to older adults. The customized digital video platform allows for more safety and protection with multi-authentication systems for signing up that prevents scammers and bots from joining the site. Plus, the GetSetUp team can ban users abusing the platform to assure Learners's safety. By reducing the friction points for older adults to learn technology GetSetUp is helping to assure effective communication of new technologies to older adults. Plus, its engineering team constantly relies on learnings from user cases, user feedback, and research to adopt the product and platform to assure the most effective communication with Learners over 50. Our technology both informs and communicates the latest in digital advances, as well as other healthy aging insights, that assures that older adults in our community feel relevant and up-to-date.

WSIS Action Lines: 1, 2, 3, 5, GOV, BUS, LEA, HEA, EMP, 10

SDGs: SDG3, SDG4, SDG8, SDG10

Stakeholder Type: Private Sector

Country, Region: United States of America, Western Europe and North America



WSIS Action Line C7. ICT Applications: e-employment

FORSATY

Accessible at any time and from any location, Forsaty is an official employment website that acts as a trustworthy intermediary between job seekers and employers. The Algerian National employment agency launched it on May 2022 with the aim of supporting its business activity and online services. Forsaty helps increase efficiency and ensure transparency while reducing processing times of job applications and offers. It allows jobseekers to search for job offers available on the website, to apply to the ones that match their profiles and follow up on applications. As for the employers, Forstay allows them to process the applications, to plan interviews and to select the profiles suitable for their recruitment needs. Project Goals:- Creation of a management platform for the job application process.-Strengthening the link between job supply and demand-Assisting jobseekers to find the right job offers for their profiles-Support employers in their recruitment campaigns to find the profiles they are looking for.-Management of flows and minimization of physical interactions through online applications, interviews planning, candidates' selection, reach people in remote areas.

Website: https://wassitonline.anem.dz/

Target Beneficiary Groups: YOUTH, WOMN, UNEMP, RURL

Replicable Description: On the national level, and despite the existence of competitors who are active in the same business field, the application is unique in the trust aspect it ensures between job seekers and employers. However, any company wishing to excel in the field of recruitment can adapt the process followed or parts of it since the separation of the modules gives it a great capacity for scalability and improvement.

Sustainable Description: The project is sustainable due to low cost of changes on business layer: - Thanks to the separation of services, maintenance is low costly - The peak of technology used in development helps the systems to be as competitive as possible for a long period. the project targets a category that is continuously evolving and active, knowing that the percentage of young graduates in Algeria exceeds 45% of the population.

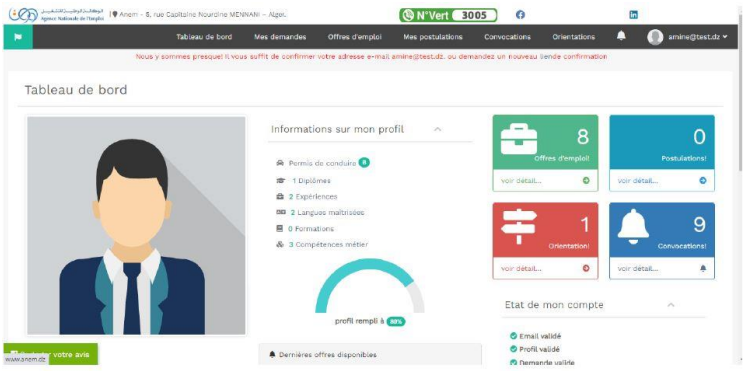
WSIS Values Promotion: The main objective of Forsaty is to disseminate in a transparent manner and make available to job seekers job offers that may be in line with their professional aspirations. The aim is to overcome the problem of unemployment and to enrich the country's economic activities, while offering fair opportunities to any autonomous person wishing to get a job and evolve in their field.

WSIS Action Lines: 1, EMP

SDGs: SDG1, SDG8, SDG16

Stakeholder Type: Government

Country, Region: Algeria, Africa



Promote Inclusion

Boosting Inclusion, is a project of the University of La Punta together with the Ministry of Social Development of the government of the province of San Luis, with the aim of increasing the conditions of inclusion in the labor market, as well as developing skills for entrepreneurship and startups, that the beneficiaries of the Social Inclusion Plan carry out. The Social Inclusion Plan is an instrument of the government of San Luis that makes it possible to fight against poverty and favor social inclusion, based on transforming the causes that generate exclusion and attending to the most needy groups. For this reason, it contemplates innumerable actions aimed at valuing people's work capacity, giving them the possibility of acquiring skills that facilitate their insertion in the labor market and/or developing their own enterprises. The pedagogical paths were developed based on the educational, social, cultural, geographical, and gender conditions, because they are considered determinants at the time of assimilation and constructive apprehension of knowledge. On the basis of a free, high-speed internet infrastructure available to all citizens; e-learning was defined and developed considering its usability and accessibility from any smart device, which facilitates the user's fluidity and therefore their learning. Boosting inclusion, managed to get 6,521 people to access this online training, transforming them into a more competitive human capital for the labor market. It is also noteworthy that 85% of the certifications were obtained by women, thus contributing to reducing the digital gap.

Website: https://impulsarinclusion.ulp.edu.ar/

Target Beneficiary Groups: YOUTH, WOMN, DISB, UNEMP, POOR, RURL

Replicable Description: The ability to repeat this experience is perfectly feasible. However, certain conditions are essential to obtain positive results that allow eradicating, transforming and/or mitigating variables that promote social exclusion. In the first place, the design of the pedagogical paths must have the user as the starting point. Contemplating subjectivities that make up the social, educational, cultural and gender constitution ensures a framework so that they can take real advantage of the professional training offered. Secondly, it is essential for the State that will execute the experience, to facilitate access to devices, and design interfaces, as in this case, that allow the inclusiveness and friendliness of any smart device (mobile first design). Lastly, and as important as all of the above, free access to high-speed internet must be guaranteed.

Sustainable Description: Quality education represents the foundation of the sustainable development of a community, both in its economic, social and environmental dimensions. This proposal for inclusion through education offers a fundamental tool that enables individual development as a determining factor for the reduction of poverty and inequalities. In this way, current needs are satisfied, and the capacities of future generations are enhanced through sustainable development.

WSIS Values Promotion: This policy is a tool designed to improve the quality of life of the humblest citizens through training. It is aimed especially to those who live in remote, rural and urban, marginalized areas. It allows them to access information and use the educational opportunities offered by the Universidad of La Punta as a tool to support their efforts to overcome homelessness. There is a pre-existing basic foundation, essential to aspire to an inclusive Information Society: free connectivity and quality internet offered by the provincial government. The creation of capacities that allow the necessary skills and knowledge to understand and integrate the Information Society and the knowledge economy, were the backbone for the design of the pedagogical paths. In order to "maintain, promote and guarantee their digital inclusion", through Law No. I-0716-2010, the government of San Luis offered the "propitious environment" so that free access to the internet is a consecrated right

for all the inhabitants of the provincial territory. San Luis has built a digital infrastructure that guarantees free access to high-quality Internet for all citizens. With the aim of improving the quality of service, a new plan is being implemented that contemplates access through FTTH technology (Fiber to the Home) at a speed of 1000 Mbps for different sectors of society: homes, businesses, companies and neighborhoods. /condos. The University of La Punta works tenaciously in the construction of an information society, integrated, equitable and with the best tools available for each inhabitant of San Luis.

WSIS Action Lines: LEA, EMP

SDGs: SDG1, SDG4, SDG5, SDG8, SDG10

Stakeholder Type: Academia

Country, Region: Argentina, Latin America and the Caribbean



Labor and employment subsystem

"Labor and Employment" subsystem (EMAS) - is an electronic platform that creates the basis for the regulation of employers and employees, unemployed and jobseekers on a single electronic platform in the processes of regulating labor relations and providing employment, organizing proseces with human resources and ensuring transparency in this field. EMAS ensures the sighing of electronic labor contracts between employees and employers, the creation of a digital personnel accounting system, implementing of international standards in the organization and protection of labor, certification of harmful workplaces of employers, calculation and payment of salary. It includes the country's employment platform, the country's employment map and the country's register of employed persons. The management of the vacancy bank, the preparation of individual employment programs, the processes of providing employment - the organization of active employment events, the organization of professional training and professional orientation events are the main functional directions of the subsystem. At the same time, it regulates the electronic activities of the Employment Agency with employers, employer associations, legal entities engaged in employment mediation activities, trade unions, and implements the dynamics and management of activities by forming a register of subjects operating in this field.

Website: https://emas.sosial.gov.az/

Target Beneficiary Groups: YOUTH, OLDP, WOMN, DISB, UNEMP, POOR, MIGR

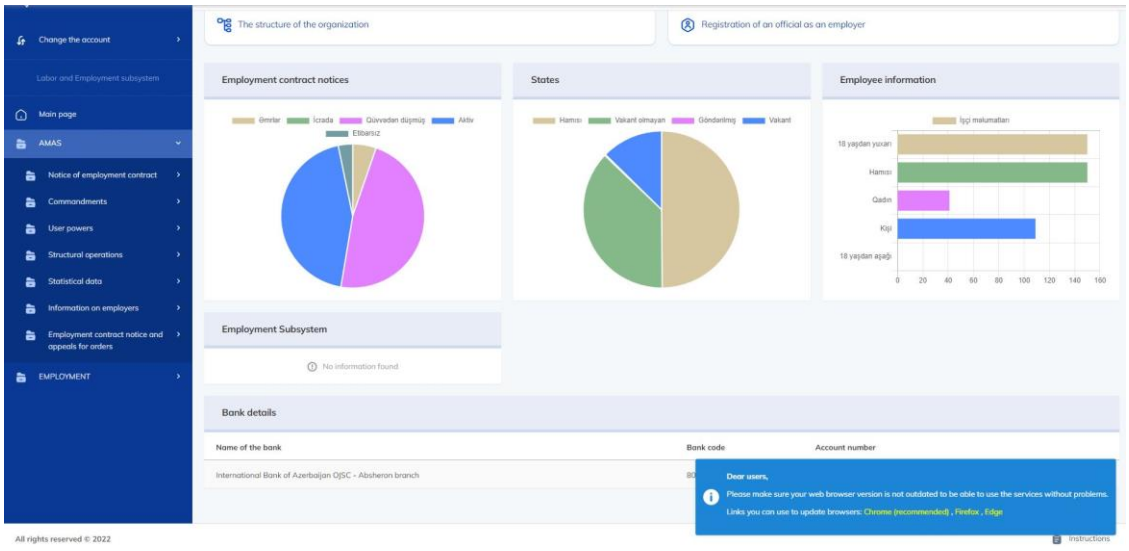
WSIS Values Promotion: MLSPP have an important role and responsibility in the development of the Information Communication Technologies in side of social services. Building a people-centred Information systems is a joint effort which requires cooperation and partnership among all stakeholders. The usage and deployment of ICTs create benefits in all aspects of our daily life. EMAS potentially important in government operations and services, employment, job creation and other agreed development goals. Application is user-friendly, accessible to all, affordable, adapted to local needs and cultures, and support sustainable development.

WSIS Action Lines: EMP

SDGs: SDG8

Stakeholder Type: Government

Country, Region: Azerbaijan, Eastern Europe



National Intelligence for Skills, Education, Employment and Entrepreneurship

Objective: Skills gap in youth and labor force is one of the most staggering problems around the world. Headed towards digitization, digital platform to catalyze the chemistry between demand and supply side of skills ecosystem is crucial. Bangladesh is facing some stumbling blocks on its way to becoming a developed country by 2041 due to immense supply and demand gap in skills, education, employment, and entrepreneurship. Specific objectives: To support data driven decision-making and policy formulation, To support matchmaking among Youth, Skills Providers, Industries, to create as a one-stop job solution for youth & facilitate Career Counselling and Guidance, to forecast future occupations & track employment records, to create central database of youth. NISE is aimed to perform as the one-stop solution platform for youths, policy-makers, industries and skills service providers. Result: It has transformed to Digital Data Hub to empower government to take data-driven decisions for planning and policy formulation. It has been successful in bridging gap between supply and demand. Several Ministries and Departments are mentoring and monitoring their skills development initiatives through NISE. It has now 628,402 Registered Youths (2,19,432 Women) and 385 Skills Service Providers. Till date, 17,280 Officers have been sensitized, 251,360 Skilled Youth and 201,038 Job Opportunities have been created through NISE. During COVID-19 lockdown, NISE hosted 14000 digital content to ensure uninterrupted skills development. It has been declared as global best practice by UNDP Chief Digital Office (CDO). NISE has been replicated in Somalia by MOCT supported by UNDP Somalia and CDO and is now being scaled up in Jordan by the MODEE supported by UNDP Jordan and UNDP Crisis Bureau. Impact: Raised awareness in relevant Government Ministries & Departments, Sensitized and capacity developed of relevant counterpart (ministry, UNDP, Organizations) in other interested countries

Website: https://nise.gov.bd/

Target Beneficiary Groups: YOUTH, UNEMP, RURL

Replicable Description: NISE has been replicated in Somalia by Ministry of Posts, Telecommunications and Technology supported by UNDP Somalia and CDO and is now being scaled up in Jordan by the Ministry of Digital Economy and Entrepreneurship supported by UNDP Jordan and UNDP Crisis Bureau.

Sustainable Description: The technical and the project team worked collaboratively for developing the platform, and NISE has engaged the Cabinet Division, arranged data mapping workshops, analysed the existing data, developed common frameworks for the supply side and a separate common framework for demand side, onboarding the govt. and private organizations one by one and providing ToT. NISE has been successful in bridging the gap between supply and demand. NISE plays a vital role in creating the skills, employment and entrepreneurship ecosystem in Bangladesh; the cabinet division of the Government of Bangladesh uses NISE as a monitoring, nurturing, and decision-making platform. There are 23 Ministries and 32 departments of the Bangladesh Government that are directly working with these domains and under these 23 ministries, there are 26000+ SSPs (Skill service provider) who are bound to take orders and give reports in every certain period through NISE. It spreads its wings to other private stakeholders such as industry associations, employers, and skills service providers to achieve its goal. Moreover, it spreads its name as a central connecting hub for connecting public-private relations among government and private skills development. Furthermore, it has already begun to integrate all the ad hoc skills development systems for data-driven policy making and demand-driven skill HR creation. Through this feature, all the skills and job portals will come under the same roof and the seekers (job and skills) will get all the information and services in one single platform.

WSIS Values Promotion: The common desire and commitment reflected in the WSIS Declaration of principles are to build a people-centered, inclusive, and development-oriented Information Society, where everyone can create, access, utilize and share information and knowledge, enabling individuals, communities, and people to achieve their full potential in promoting their sustainable development and refining their quality of life, premised on the purposes and principles of the Charter of the United Nations and respecting fully and upholding the Universal Declaration of Human Rights. Youth can voice their opinions or directly connect with government officials, employees, and other stakeholders to provide their day-to-day life skills development challenges and receive feedback from respective stakeholders. Rather than that the project has also focused on different things. This is an inclusive platform with a critical role in information and knowledge production, education, and skills, and supports the establishment of partnerships, cooperation and networking between other institutions like Bangladesh Industrial and Technical Assistance Center, the Department of Social Services, etc. So, the initiative is aligned with C3. Access to information and Knowledge, C5. Building confidence and security in the use of ICTs, C7. ICT Applications: e-government and C7. ICT Applications: e-employment.

WSIS Action Lines: 3, 5, GOV, EMP

SDGs: SDG4, SDG8

Stakeholder Type: Government

Country, Region: Bangladesh, Asia and Pacific



Connect an Employee Initiative

Connect an employee is an initiative developed by BOCRA to encourage Government, Parastatals and Private sector to connect their employees to residential broadband internet. This includes employers paying for monthly residential internet of their employees as an incentive/ benefit that will allow them to work from home. This initiative was developed in 2014 with minimum set internet speed for residential connectivity at 2mbps. However, in 2020 the speeds were revised considering changes in market trends with demand for more data hungry applications as well as to carter for working from homes. The newly revised speed is minimum of 10mbps which will allows for virtual meetings, continuous use of multiple applications and devices connected to the internet whilst giving the user best reception.

Website: https://www.bocra.org.bw/

Target Beneficiary Groups:

Replicable Description: This initiative is replicable. When it started in 2014, it was mainly focused on Government Ministries and Parastatals to connect their employees to broadband internet. By 2018 a total of 1276 employees was connected by the institutions mentioned above. As time goes on, in 2020 the initiative was extended to the private sector to connect their employees to residential broadband service. The initiative was welcomed by the private sector and expectations are that many employees will be connected to broadband internet when BOCRA undertake a survey to gauge level of connected employees to residential internet in 2021. Other countries can copy this model and mandate employers to connect their employees to residential broadband internet as this is a benefit to both parties. Also, this ensures that all people are digitally included regardless of place of stay.

Sustainable Description: As more people are connected to the internet, this will drive down the price and cost of internet prices through economies of scale. In addition, when employers connect their employees they get volume discounts from the service providers hence the service gets cheaper and its easily affordable to them. Also in Botswana the government has allocated funding for rollout of fiber for national backbone and last mile connection to selected parts of the country mainly in cities and towns. This has assisted in driving internet prices significantly considering that infrastructure makes bulk of total cost hence this government intervention helped in reducing costs of internet connection and making it affordable to most institutions. Institutions have also seen that virtual training, workshops and meetings makes it cheaper for companies and save a lot from money that could have been used for venue, catering and transport.

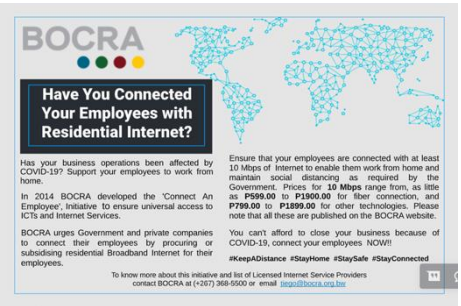
WSIS Values Promotion: This initiative promotes employment creation for workers that work at service providers and also additional staff that can be engaged by different employers on short term basis as e- workers. There will also be an increase in e- employers that will allow people to work from everywhere and contribute positively to the economy. This also creates opportunity to raise productivity and improvement in business processes. People will be connected without excluding others as expectations are that family members that include students can also benefit from the initiative through a connected employee of an organisation. This will generally improve productivity of the country and make work easy.

WSIS Action Lines: 1, 2, 4, GOV, BUS, EMP

SDGs: SDG8, SDG9, SDG17

Stakeholder Type: Government

Country, Region: Botswana, Africa



Cabo Verde Digital

Cabo Verde Digital is an arm of Cape Verde's Ministry of Digital Economy.As a digital entrepreneurship capacity-building program we focus on tech skills, entrepreneurial spirit, think critically and creatively. We are committed to empowering our youths to become the best version of themselves with the tools they need to create an impact in their communities and in the world. We connect learners to our network and a supportive community. We rely on the knowledge economy and tech innovation due to our lack of natural resources and aim to support Africa's growing tech scene and beyond with this mindset. Cabo Verde Digital began in 2019 with extensive public sector support and engagement with our robust partner ecosystem. We have impacted thousands of youths since our inception. One of our programs, Kode Verde, enables young changemakers without tech skills to learn full-stack development and other emerging technologies. This has taught us the transformative power of empowering youth via technology. We also have a three-month pre-incubation program that focuses on startup creation providing financial support and mentoring.

Website: http://digital.cv/

Target Beneficiary Groups: YOUTH, WOMN, DISB, UNEMP, POOR

Replicable Description: Any SIDS that aims to foster digital development can follow the same strategy.

Sustainable Description: As a small island state with minimal natural resources, our power lies in advancing our knowledge economy. We have an incredible opportunity and joint responsibility to democratize access to the knowledge economy, and Cabo Verde Digital's vision is to make this vision reality.

WSIS Values Promotion: Everything we do here at Cabo Verde Digital is focused on creating an impact on people's life. We offer a variety of tools that our youth can use to positively impact our society, through innovation and technology. We offer direct access to an extensive list of mentors (world-class professionals and Cape-verdean diaspora), available and ready to help our youth to grow. We maintain a rich partner ecosystem, both, at the national and international levels, including the Unicorn Factory, a state-funded startup initiative in Portugal focused on tech entrepreneurship and startup acceleration. We also bring our Portugal National Innovation Agency collaboration which fosters real-time connections between R&D/academia and business. Lastly, we bring our Skills Hustle relationship via its CEO, Dr. Melissa Sassi, who has significant experience with EQUALS and ITU. She has spoken at many IGFs, and her doctoral thesis focused on the digital inclusion of underserved communities and its tie to solving the SDGs

WSIS Action Lines: 1, 2, 3, 4, 6, GOV, EMP, 11

SDGs: SDG4, SDG8, SDG9

Stakeholder Type: Government

Country, Region: Cape Verde (Republic of), Africa



ZINAKE

Zinake is a cloud based platform that conveniently connects temporary workers to job opportunities in their locality at the click of a button. Zinake is a community innovation that ensures that users (individuals or organizations) are guaranteed of quality service from temporary workers without having to undergo the complex, tedious, expensive and time-wasting recruitment and verification process. When a user needs services of temporary worker, he/she creates a request on the Zinake platform. The workers who have enlisted to provide that service are notified of the available job opportunity. Interested workers respond to the request by bidding. The user then checks the bids submitted and selects the winner. The winning worker is then notified to go and work. Upon completion, money is transferred from the Employer's wallet to the worker's wallet. The users then rate/review each other after every transaction. Zinake through collaboration with strategic partners carries out thorough background checks and competence verification of all signed up workers. The workers are insured against accidents and professional indemnity. Zinake was founded with the vision of reducing poverty, idleness and unemployment among the youth in Kenya. After years working with thousands of casual laborers, it became apparent that convenient access to other key stakeholders was key. Through customer discovery interviews and feedback, it became apparent that there was need for convenient access to reliable and competent temporary workers across different sectors in Kenya. Hence Zinake was founded so that employers do not have to undergo the complex, tedious, expensive and time consuming recruitment and verification process.

Website: https://www.zinake.com

Target Beneficiary Groups: UNEMP

Replicable Description: There are competitors doing similar ideas like lynk, techpool, etc. but none is at scale.

Sustainable Description: We started Zinake as a manual process. The into a technology platform was informed by the need to reach more users and make the process efficient. The innovation is designed to allow for continuous improvement. The platform was designed based on the market needs and is user friendly. It allows for even the users who do not have smart phones to receive notification by short code and or their friends' phones. Zinake overcomes distance and time in helping users find competent skilled workers. This is turning the expensive and cumbersome recruitment process into a high-tech platform designed to provide job opportunities more people using a smaller footprint. Zinake is making communities vibrant and re-imagining daily interaction between people, structures and technologies. Zinake has the Copyright to this innovation. Informed by previous experiences and the COVID 19 pandemic, Zinake has developed additional functionalities that allow its users to: 1. Access advance payment 2. Report, monitor and or respond to incidents like crime, accidents, fire, sickness and other emergencies. 3. Organize, attend and manage public events (weddings, funerals, concerts, rallies, parties, games, etc).

WSIS Values Promotion: The project supports sustainable economic growth and does this through its online platform where the temporary workers sign up to find jobs. It upholds the use of ICT applications in e-employment.

WSIS Action Lines: 2, EMP

SDGs: SDG1, SDG8

Stakeholder Type: Private Sector

Country, Region: Kenya, Africa

Malaysia Labour Market Interactive Data

Celebrating data sharing and open data initiatives, Malaysia Labour Market Interactive Data (MyLMID) provides a quick view of Malaysia's labour market situation based on the selected labour market statistics dimensions in one single portal. The portal contains ten key labour market dimensions: Labour Supply, Labour Demand, Labour Productivity, Labour Cost, Employment in the Informal Sector, Graduate Statistics, Loss of Employment, Annual Economic Statistics, District Statistics and Comparisons by Country. These statistics are presented in interactive data visualisation using current emerging technologies. MyLMID aspires to ensure easy and faster Labour Market data access. In other words, it provides an advantage to users in obtaining labour market information according to the desired dimensions. Users can also download data freely in a machine-readable format. Apart from survey data published by DOSM, MyLMID also covers administrative data from selected agencies. In addition to offering access to labour market information, MyLMID also gives users access to publications, research papers by the Malaysian Bureau of Labour Statistics (MBLS) and guidelines. Therefore, it is hoped that MyLMID will benefit all users in exploring the source of labour market statistics, thus contributing towards the sustainability of the national labour market.

Website: https://mbls.dosm.gov.my/mylmid/index.html

Target Beneficiary Groups: UNEMP

Replicable Description: The tools and technology used to disseminate and present the data and statistics in an interactive ways.

Sustainable Description: This project provides a quick view of Malaysia's labour market situation based on the selected labour market statistics dimensions in one single portal but at the same time leveraging the existing emerging technology in DOSM such as infrastructure, tools and software license. The statistics used in this project published annually, quarterly and monthly.

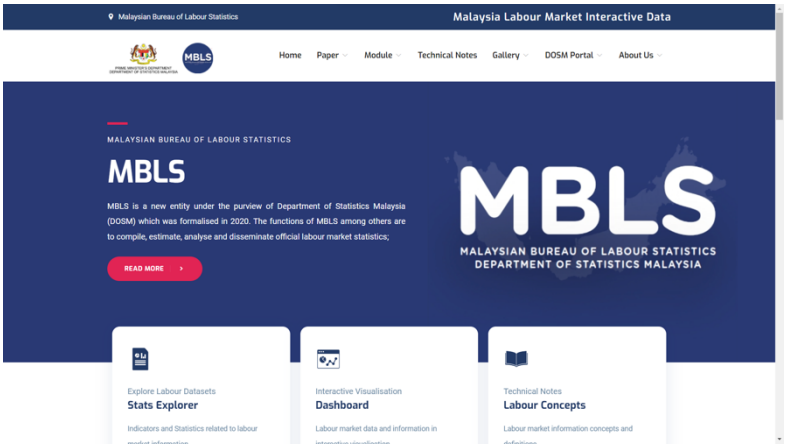
WSIS Values Promotion: This project promote of WSIS in the community through the integration of many tools such as Tableau, Power Bi, Google Drive, database and simple programming in one single portal that can be seen in the portal to disseminate and present the statistics of labour in Malaysia also sharing the technology and tools that can be used.

WSIS Action Lines: EMP

SDGs: SDG9

Stakeholder Type: Government

Country, Region: Malaysia, Asia and Pacific



Employment Security Scheme

The Employment Security System is a national project that provides social protection for those whose services are terminated from work for reasons beyond their control through a social insurance system. This scheme came out from Oman 2040 vision which focus on the social welfare and improving national social protection systems. Thus to be in the ranks of developed countries in terms of social protection. The Employment Security Scheme project is the first project in the country in terms of idea, application, and coverage of this segment of society. All work sectors within the country (civil, military, self-employed and the private sector) participate in supporting this system. Modern technology was used in implementing the project and converting all operations to be electronic, starting from registration in the system and ending with receiving the benefit. An electronic window for the safety system was created on the authority's website, allowing the beneficiary to register in the system and view reports, statistics and other services.

Website: https://e-pasi.pasi.gov.om/pasi_cap/f?p=309:1:13028168861333::NO:::

Target Beneficiary Groups: UNEMP

Replicable Description: It can be used in any other countries that has social security for the unemployed.

Sustainable Description: All relevant entities participate in an integrated manner to enhance the success and sustainability of the scheme. The system is financed in accordance with the Royal Decree by deducting 1% of the subscription wage of all employees per month and 1% by the employers on a monthly basis, as well as 5% of the fee for each license to recruit non-Omani manpower for commercial use or renewal of these licenses. Besides, the contributions are invested by PASI in order to assure its adequacy and sustainability.

WSIS Values Promotion: The project aim to support the terminated employees financially for 6 months and is developed in an E-program for fast payment. Therefore, preventing poverity and guaranty a decent life.

WSIS Action Lines: GOV, EMP

SDGs: SDG1

Stakeholder Type: Government

Country, Region: Oman, Asia and Pacific

أمان

نظام الأمان الوظيفي

Profilum

Profilum is a private company from Moscow (Russia) that provides innovative tools for assessment and development of human capital with the focus on skills for the digital economy. Profilum provides individual recommendations for teenagers, as well as complex support for education institutions and local authorities to build a comprehensive system for support of personal education and career development. The product is used by more than 3,400 Russian schools. Profilum helped authorities of 19 Russian regions build successful systems for professional development of young people in the region. Profilum digital platform analyzes the labor market and the education market (on the basis of special methods and big data), and the personality of the individual (on the basis of interactive psychometric tests). Then, it "paints a map" of the local youth's talents and interests, compares the youth's talents and predispositions to specific professions with what the region's educational system and labor market have to offer, and shows the risks for some professions to become unclaimed in the nearest future. This analysis contributes to the decision-making process aimed at bringing the local education system in accordance with future specialists' aspirations and local labor market specifics. Moreover, Profilum provides tailored career literacy courses adapted to the region's tasks and other tools for personnel potential management. Profilum helped more than 700,000 teenagers see new opportunities and choose suitable professions, and their parents to support them along this journey. This process combines online and offline tools and practices, such as individual and group tutor sessions, meetings with experts from various industries. The company's IT platform provides individual recommendations on specific industries and professions based on one's interests, passions, skills and values.

Website: https://profilum.ru

Target Beneficiary Groups: YOUTH

Replicable Description: Innovative tools developed by Profilum can be applied both on local and national level, by various kind of organizations and users. These tools have a great potential for replicability as they are adaptive, intuitive, and can be used by anyone interested in further education and career improvement.

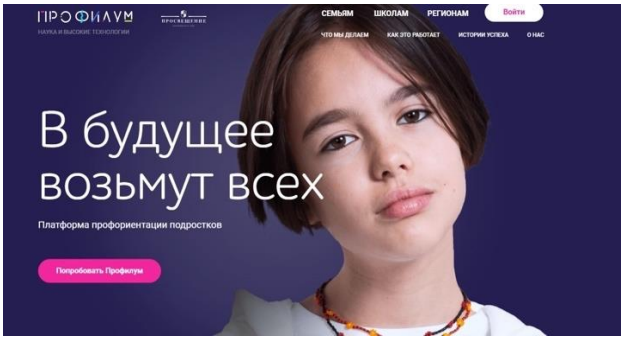
WSIS Values Promotion: Products and services provided by Profilum are based on two types of resources: ICT (the digital platform) and human expertise (of mentors and experts that guide users). Their end goal is to contribute to the process of lifelong learning – and, by that, to better quality of life and access to education and better career options for all groups of people (including women and people with special needs). While no society can be truly sustainable without proper education system and tools to bridge education and career, Profilum sees its social mission as a facilitator in this process, that helps all the parties to it – teenagers, their parents, teachers and principals, and local authorities. To emphasize, Profilum provides its tools and services to all-Russian projects aimed at helping people acquire skills for work in the digital economy, which directly correlates with WSIS values.

WSIS Action Lines: 3, EMP

SDGs: SDG4, SDG8

Stakeholder Type: Private Sector

Country, Region: Russian Federation, Eastern Europe



Part-Time Employment Solution for Persons-with-Disability

Introduced a new employment solution for Persons-with-Disabilities (PwDs) in Saudi Aramco company. Previously, employment was based on full-time employment for all types of employees. The new solution provides additional recruitment opportunities for Persons-with-Disabilities by enabling them to work remotely with a reduced work schedule. The Persons-with-Disabilities employment package is aligned with the Labor Law regulations and requirements. This initiative provides an inclusive way of working for Persons-with-Disabilities and increase diversity in the Saudi Aramco workplace.

Website: https://www.aramco.com/

Target Beneficiary Groups: DISB, UNEMP

Replicable Description: For other organizations within Saudi Arabia and abroad.

WSIS Values Promotion: Saudi Aramco is committed to promote non-discriminative recruitment opportunities for all candidates. This solution provides an inclusive way of working for people with disabilities and will increase diversity in the Saudi Aramco workplace.

WSIS Action Lines: EMP

SDGs: SDG10

Stakeholder Type: Government

Country, Region: Saudi Arabia, Asia and Pacific



Future Work

HRSD set a plan to utilize all the capabilities of the community by defining new types of jobs, considering the fact that jobs have been found in the last 7 decades are changing now. The main characteristics of the new jobs should be resilient to human needs and utilize unused capabilities of society like handicapped and women. The first type is: “Dynamic work” (https://mrn.sa) simplify the contracting between workers and worker-owners, where the worker can work on flexible hours, and worker-owners pays only for the actual working hours. With “Dynamic work”, the economy can utilize the skilled workers who have special conditions (e.g. handicapped). The second type: “Freelance” (https://freelance.sa) provides an official license to the workers to work on special skilled jobs depending on the workers’ free scheduled time, one of the targets is to increase the workers’ income (as a second job). The Third type: “Telework program” (https://teleworks.sa/en/) allows the worker-owners to build remote teams, control and evaluate the team performance without the need of being co-located. All the above platforms have been incorporated into single point of access as central future work platform https://futurework.com.sa/ , the purpose of Future Work to unleash potential and to energize the gig economy to free the unlimited potential of Saudi Arabia citizens. Build the future of work with us! Each portal is complementary to other portals. The positive impacts of portals are many. First, achieve the United Nations Sustainable Development Goals (“No poverty”, “Decent work and economic growth”, etc.). Second, produce more job opportunities. Third, utilize the unused skills and capabilities of the society in developing the country. Fourth, being ready for pandemics like the Coronavirus pandemic.

Website: https://futurework.com.sa/

Target Beneficiary Groups: YOUTH, OLDP, WOMN, INDG, DISB, UNEMP, POOR, RURL

Replicable Description: The future-work services are promising, and the initial outputs clearly shows the success of the services. The future-work services can be replicate fully (i.e. the three types of future-work) or partially (i.e. the one/two types of future-work) to other regional and international countries, which have similar characteristics of the Saudi society. The future-work service providing three sets of services that fully depend the on the Saudi labor market needs and the ability of the Saudi society.

Sustainable Description: The Future-Work program is self-funded; the services are free for employees/workers. The companies subscribed in Dynamic work and teleworks services are paying fees subscription plus the regular fees of the HRSD, which both considered the main source for funding the Dynamic work, and teleworks. For the freelance, the fund is provided as a loan (without interest) from the Social Development Bank to the freelancer.

WSIS Values Promotion: At Future Work we aim to realize a thriving economy based on innovative solutions that meets the ambitions and expectations of the youth. This will be achieved through a free labor market filled with creativity and measures to every change in the global and international labor markets. Here we create a hand to the traditional labor market.

WSIS Action Lines: 1, 2, 4, 5, 6, GOV, BUS, EMP, ENV

SDGs: SDG5, SDG8, SDG9, SDG10, SDG11, SDG12, SDG16, SDG17

Stakeholder Type: Government

Country, Region: Saudi Arabia, Asia and Pacific



منصة مساند

Musaned platform is one of the initiatives of the Ministry of Human Resources and Social Development, a comprehensive electronic platform to experience the recruitment of domestic workers in an integrated manner, aiming to facilitate procedures for the recruitment of domestic workers and increase the level of preservation rights of all parties by informing employers and domestic workers of their rights and duties. Musaned platform focus on the following: •unified recruitment journey we simplified the recruitment journey in a few steps, summarized from choosing the profession and nationality to their arrival • farmers, hunters, and shepherds visas issuance a service that allows owners of the following activities: farmers, fishermen, shepherds, beekeepers and stables to issue visas to recruit workers from the available professions. • disability visas enabling people with disabilities, registered in the social welfare system to request a visa for registered domestic workers. • online complaints system because your opinion matters you can submit complaints electronically, without the need to visit the ministry's branches or any of the communication channels. • maarofa service recruiting a certain domestic worker from philippines, sri lanka or kenya selected by the employer with a lower recruitment cost. • alternative (replacement) visas issue an alternative (replacement) visa without governmental fees if the worker has a final exit from the kingdom within 90 days from their arrival date in the kingdom. • domestic service transfer automating, monitoring, and improving the transfer of domestic labor services through innovative digital applications and e-services

Website: https://musaned.com.sa

Target Beneficiary Groups: YOUTH, OLDP, WOMN, INDG, DISB, UNEMP, POOR, MIGR, REFG, RURL

Replicable Description: Mussaned one of Labor Programs that focus on Domestic labors and improve their work and living condition, The Mussaned Program can be replicable on GCC countries and Arab countries as its simplified recruiting domestic labors and controls the recruiting and employment.

Sustainable Description: Musaned is a program initiated by HRSD with cooperation with the private sector to improve the domestic labor sector services, under contract frame PPP (Public Private Partnership). Where a private company develop the Musaned platform, and utilizes the provided services fees for continuous improvement of the Musaned platform, and produce new services, with mutual benefits for all parties HRSD, Musaned platform customers, and the private sector company.

WSIS Values Promotion: Musaned is targeting automating all domestic labor services. Allowing more establishments including small and medium enterprises to enter the labor market and provide more jobs. Increasing the fairness of the relationship between employees and employers. Attracting domestic labor to join the Saudi domestic labor market. Leading economic growth by implementing international standards for the domestic labor sector, also empowers and unified recruitment journey by simplifying the recruitment journey in a few steps, summarized from choosing the profession and nationality till their arrival. Also looking for enhancing the contractual relationships between domestic labor and employer through online services which will control and enhance the journey of recruiting.

WSIS Action Lines: 1, 3, 5, 6, GOV, BUS, EMP, ENV, 8, 10, 11

SDGs: SDG2, SDG4, SDG6, SDG7, SDG8, SDG9, SDG12, SDG13, SDG16

Stakeholder Type: Government

Country, Region: Saudi Arabia, Asia and Pacific



Teacher Evaluation

Teachers' performance evaluation aims to develop the teacher's professional performance, according to scientific standards that achieve objectivity and quality in teaching practices, in order to improve learning outcomes and develop all aspects of the educational process. By applying procedures and integrating with systems that collect all data about the teacher and his performance during the school year. This process ensures that the teacher obtains a fair evaluation according to a number of determinants and criteria.

Website: https://tev.moe.gov.sa

Target Beneficiary Groups: RURL

WSIS Values Promotion: Ensuring equality among teachers as the assessment is based on a set of inputs from a number of digital systems automatically, in addition to not using paper in this process.

WSIS Action Lines: EMP

SDGs: SDG4

Stakeholder Type: Government

Country, Region: Saudi Arabia, Asia and Pacific



Evolve Program

Zain continues to champion causes that empower our youth, as part of our corporate sustainability strategy to empower young Saudi women and men and build the information and communications technology sector with national capabilities. We launched the Evolve program in 2022 to empower 100 fresh graduates and provide them with workplace training and skill development opportunities as part of a 6-to-12-month program. Phase 1 of the program has been completed and we are working on phase 2 targeting 200 graduates.

Website: https://sa.zain.com/en/careers/evolve-program

Target Beneficiary Groups: YOUTH

Sustainable Description: This program is part of many programs and initiatives orchestrated by our HR Division to recruit, train, and empower young local talent of both genders and set them up for success in the ICT sector so that they can face the challenges of tomorrow. The Evolve Program has already proven to be popular and is already in its second phase. We will continue to develop the program with our existing partner Huawei in order to ensure that the skills remain relevant and effective.

WSIS Values Promotion: Zain continues to strengthen the capabilities and prospects for youth in order to empower them and set them up for success in an ever-changing world. We continue to address the gender divide in the ICT sectors and ensure that women are not only treated fairly but have all that they need to thrive and lead.

WSIS Action Lines: EMP

SDGs: SDG4, SDG5, SDG8, SDG10

Stakeholder Type: Private Sector

Country, Region: Saudi Arabia, Asia and Pacific



Doroob Program - National e-Training Platform

Doroob is a national training platform that seeks to employ the latest technologies to provide a unique and free of charge journey to beneficiaries, from training and qualification to employment. Doorob offers a diverse and integrated catalogue of training through a flexible and user-friendly digital interface that enables the user to be trained in fields and disciplines that address the needs of the Saudi labor market. Considering the background of the beneficiary, the platform provides the trainees with many job opportunities by concluding agreements with many a variety of third parties in the public and private sectors. The platform is aligned with the Kingdom's Vision 2030 and has as its main objectives to improve the matching between employers and employees, to enable sustainable employment in the private sector for the citizens that are most vulnerable to unemployment and to support the development of the human capital in Saudi Arabia in line with the government strategic objectives and the needs of the labour market. Doroob's content is based and continuously updated on surveys and analytical studies of the labour market, which influence the course areas, providers, and delivery methods. More than 2 million citizens already benefited from the more than 300 training courses and 60 training tracks on the platform, which has unequivocally benefited beneficiaries' job-seeking, job opportunities and job stability.

Website: https://doroob.sa/ar/

Target Beneficiary Groups: YOUTH, WOMN, UNEMP, POOR

Replicable Description: The very basic concept of Doroob is replicable and can be found in several other platforms. For example, in Saudi Arabia the platforms RAWAQ, TAMKEEN and EDRAK have similar concepts. RAWAQ is a platform that provides beneficiaries with free academic courses in Arabic in various fields and disciplines. TAMKEEN is a platform that allows beneficiaries to register for administrative, educational and design courses. EDRAK is a platform that builds practical skills by enrolling in advanced training programs and gaining certificates that help citizens to enter the labour market and develop their careers. However, the Doroob platform distinguishes and goes further than these other platforms in several ways. First, it is tailored and updated through the continuous study of the Saudi labour market. Second, it is a platform available to all Saudis all the time and without time or space restrictions. The beneficiary can access the platform 24 hours a day, anywhere. Third, there are no costs for the beneficiaries. Fourth, it provides modern electronic training content that is compatible with the needs of the labour market in partnership with many entities, which participate in several roles, including providing practical material and developing electronic training content ready for publication on the platform, as well as providing interactive sessions and reviewing the current scientific content. Fourth, it includes a wider range of features, including interactive sessions, support for Emiratisation, qualitative content in partnership with international platforms (e.g., LinkedIn Learning, Udacity), the possibility of enterprises to train their employees without financial costs, and training content specific for people with disabilities. The program is also being redesigned to offer customized training and open-access training. In sum, although the basic idea of Doroob can be replicable and found in other platforms, the platform as a whole is an advanced and more complex product, whose replicability in other contexts.

Sustainable Description: The sustainability of the project comes is based on the platform's keenness to establish partnerships with various government and private sector actors to provide the necessary studies to develop its products and to contract with local content makers to develop training courses, whether at the level of individuals, institutions, and companies. Most of the program's operations are carried out within the fund and the program's budget is supported by the National Fund. The program will also be redesigned to build strategic partnerships with e-service providers locally and globally to provide competitive prices to

program beneficiaries. The program fully supports Saudi individuals who are job seekers and private sector employees. In the redesign, it will have the possibility to change support rates according to individuals and their cases. It is also possible to support those who do not meet the conditions for financial support, by allowing them to obtain training at a preferential discounted price paid by the individual or facility to the training service provider. The support provided to the "Doroob" platform by the Human Resources Fund "HADAF", being a non-profit project, contributes significantly to supporting digital Arabic content through the partnership agreements concluded by the platform with various companies and institutions working to develop training content as well as individuals working in this field and is also aligned with the Kingdom Vision 2030. The achievement of this goal is evidenced by the large number of training tracks provided by the platform, which amounted to 64 tracks. More than 3 million beneficiaries have so far benefited from them, who have completed nearly 40 million training courses. Through the continuous development of training programs and analysis of the market and its needs for qualified employees in the market.

WSIS Values Promotion: The WSIS process emphasizes multi-stakeholder collaboration across all regions and sectors. Amongst the main purposes of this award are to enhance the spirit of work in the development in the digital transformation of societies and to stimulate the process of exchange of information about the developed projects informationally and electronically and the exchange of best practices between all informationally successful sectors around the world and exchange benefit from their experiences. The Doroob platform is distinguished for being one of the largest platforms in the Kingdom of Saudi Arabia, in which all kinds of modern technology were used, which facilitated the acquisition of data and benefitted from it on a clear, large, and large scale. In developing and selecting training programs, the platform relied on systematic studies and an advanced database provided by the Resources Fund Humanity; it uses the latest artificial intelligence technology, analysis of enormous data sets, and decision-making support mechanisms, which analyze daily data that reach the Fund through many government partners and through the Fund's offices that cover all regions of the Kingdom. Analysing this data enabled the platform to benefit from forecasting techniques in knowing the correct market trends, identifying the most important professions that cover current needs, and providing appropriate programs. Therefore, this project promotes opportunities for citizens, particularly those with a more vulnerable situation in the labour market, by providing them with training at no cost that will help them develop their careers. This implies promoting equal opportunities through the shared responsibilities of multiple agencies and partners.

WSIS Action Lines: 1, 4, GOV, LEA, EMP, 8

SDGs: SDG1, SDG2, SDG3, SDG4, SDG5, SDG8, SDG9, SDG10, SDG11, SDG16, SDG17

Stakeholder Type: Government

Country, Region: Saudi Arabia, Asia and Pacific



دروب-إنْ

طوّر مهاراتك مع برنامجنا التدريبي الجديد

PROJET GENRE ET TIC

This government project is unique in Senegal in the sense that it aims to create female digital startups. Objectives: Strengthen the access and capacities of girls and women to ICTs; - Strengthen the presence and participation effective women in positions of responsibility in the ICT sector; - Institutionalize gender in the ICT sector Activities: - training in gender, digital technology, leadership, entrepreneurship, - Competition for innovative digital projects, - Advocacy for women's access to decision-making positions - Communication.

Website: http://www.numerique.gouv.sn/cabinet-du-ministere/cellule-genre

Target Beneficiary Groups: YOUTH, WOMN

Replicable Description: The Ministry in charge of women of Senegal organized the innovation fair during the celebration of Women's Day in 2019. - The main actors of this innovation fair are the female startups created at the end of the organized competitions by the project. - The innovation fair was opened by the President of the Republic who subsequently asked the DER / FJ to finance all its startups and to support women's associations in digital technology. - Canadian cooperation was also inspired by this program and organized in collaboration with the project the contest for women and geomatics in Senegal. - The UNDP also launched a contest to support the empowerment of women through digital technology by reproducing the model of the female contest initiated by the project.

WSIS Values Promotion: Promote just, peaceful and inclusive societies, ensure inclusive and equitable quality education and promote lifelong learning opportunities for all

WSIS Action Lines: 1, 3, LEA, EMP

SDGs: SDG4, SDG16

Stakeholder Type: Government

Country, Region: Senegal, Africa



Supporting Sri Lanka Technology Startups during COVID-19

ICTA estimates a thriving startup ecosystem will result in a minimum of USD 1 billion of foreign exchange revenue by 2025 brought in by exports, investments, and startup exits. All possible measures taken to save these startups now will determine our socioeconomic development in the next 5 years. There were many synergies between tech startups and tech freelancers but lacked a common platform. With that, the StartupSL initiative was born with the objective of gathering technology startups and freelancers to www.startups.lk platform enabling representation of their unique offerings.

Website: http://www.startupsl.lk

Target Beneficiary Groups: YOUTH, WOMN, UNEMP, RURL

Replicable Description: This is an initiative which is imperative for the future of the country. Developing the website with required functionalities for onboarding is stage 1 but the most essential is the roadmap of the platform and what it promises for its beneficiaries. This is unique for each ecosystem.

Sustainable Description: StartupSL was an initiative by the then Ministry of Digital Infrastructure & Information Technology and is currently being operated under the Digital Infrastructure and Information Technology Division, Ministry of Defence, Sri Lanka together with ICTA and the volunteers of the startup community. Even with the political changes, the Ministry continues its support, while ICTA has ensured the management of the platform while coordinating with a number of volunteers.

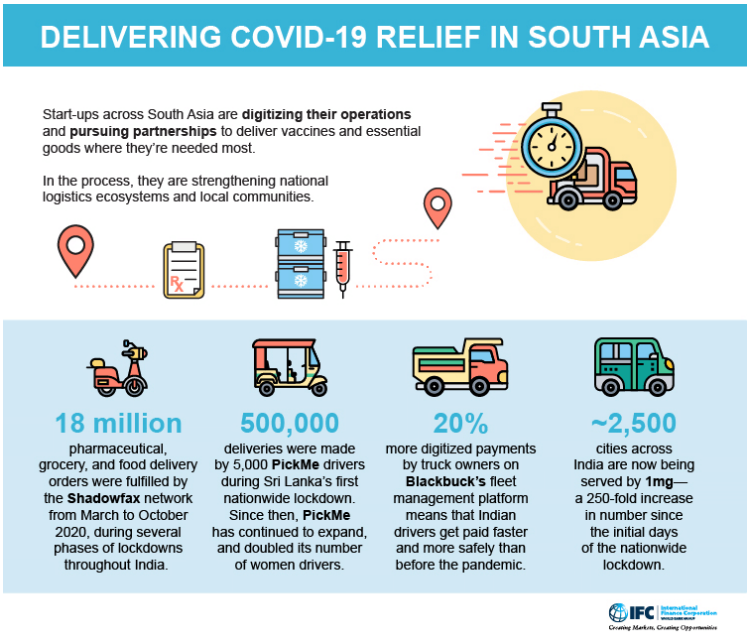
WSIS Values Promotion: The usage and deployment of ICTs should seek to create benefits in all aspects of our daily life. ICT applications are potentially important in government operations and services, health care and health information, education and training, employment, job creation, business, and to promote the eradication of poverty and other agreed development goals.

WSIS Action Lines: BUS, EMP

SDGs: SDG8, SDG10

Stakeholder Type: Government

Country, Region: Sri Lanka, Asia and Pacific



Careers portal

Available Vacancies The Ministry of Industry and Advanced Technology is keen to attract the best qualified human resources and provide a stimulating work environment that supports innovation. It is also keen to promote gender balance by providing various job opportunities. A job portal, also known as a career portal, is a modern name for an online job board that helps applicants find jobs and aids employers in their quest to locate ideal candidates. MoIAT job portal that offer a broad range of jobs in a vast number of fields.

Website: https://careers.moiat.gov.ae/?lang=en

Target Beneficiary Groups: UNEMP

Sustainable Description: This website is sustainable because it uses small image size and caching for resources. Also, it eliminates the use of paper, and reduce the commuting needed for applicants and candidates as most of the job application process takes place online.

WSIS Values Promotion: The project target candidates from all cultures and believes, where their personal privacy of information is secured. Candidate will be chosen for their qualification and experience in the field they are applying for.

WSIS Action Lines: EMP

SDGs: SDG8

Stakeholder Type: Government

Country, Region: United Arab Emirates, Asia and Pacific

Advance IT & Entrepreneurship Training and Incubation for young women

In Tanzania, the Jovia project addresses the critical issue of the digital gender divide. Our project gives underprivileged girls and young women in Tanzania who are out of school and unemployed the opportunity to receive advanced IT and entrepreneurship training as well as the support ecosystem they need to successfully obtain formal employment, particularly in ICT-related employment, or to develop and launch IT-based (social) businesses. This project incorporates two complementary elements:1) A six-month high-quality advanced IT and entrepreneurship training program for girls and young women aged 17 to 24.2) An offline and online incubator to assist girls and young women in starting IT-based businesses. Project objectives: Our main goal is to promote women's socioeconomic empowerment in Tanzania and other Sub-Saharan African countries through tech-based entrepreneurship and participation in the formal employment sector, particularly in ICT-related jobs. I) To provide high-quality IT and entrepreneurship skills training to underprivileged young women in Tanzania, thereby increasing their employability; ii) To establish a pan-African digital incubator to provide women (social) entrepreneurs with critical resources to launch and grow their tech-based start-ups, including mentorship, access to potential partners, funders, I and capacity-building support, and access to potential customers; iii) To pilot an innovative, comprehensive women's IT training and tech entrepreneurship incubation model that can be replicated and scaled up elsewhere in Sub-Saharan Africa; Since 2019, we have established two Girls innovating spaces through which we have trained 270 girls and young women, 53 of whom have found formal employment in ICT-related fields, 30 startups have been established, and 87 have re-enrolled and are continuing their education in higher learning institutions. For instance, https://www.youtube.com/watch?v=jDZ96AqOCxM&t=41s and https://www.youtube.com/watch?v=G-DLb_EXvE4

Website: https://www.appsandgirls.com/jovia-program/

Target Beneficiary Groups: WOMN, UNEMP, POOR, REFG, RURL

Replicable Description: The Jovia project was launched in Tanzania-Dar es Salaam for girls and young women who had dropped out of school due to a variety of reasons such as pregnancy, early marriage, financial difficulties, and so on. The Jovia project was first implemented in Dar es salaam tanzania for girls and young women who had dropped out of school due to different reasons such as pregnancies, early marriages, financial issues etc. The project was later first replicated in Kajiado in Kenya among the maasai communities, Bukavu and Kivu in DRC among young women affected by Gender based violence and war victims in 2019. We have gone further to replicate the same project model in another region in Morogoro, Tanzania among pastoral and farmer communities in Mvomero. This project can be replicated in several areas of need and creates different opportunities ie business, employment opportunities and solutions to different problems in the area) for both the girls and the entire community around the girls innovation space. By establishing more girl's innovation spaces in different regions or areas of need, such as remote areas and refugee camps, and collaborating with a diverse set of stakeholders (government initiatives, NGOs, corporations, and individuals), we will help to pollinate the digital transformation and inclusion of young women across many areas and beyond. Young women and girls who are not enrolled in school can use Innovation spaces to broaden their opportunities in the Fourth Industrial Revolution. Furthermore, the project curriculum and methodology can be adopted by vocational training institutions or colleges for their enrolled young people, thereby bridging the digital divide.

Sustainable Description: The Jovia project directly targets young women and girls aged 17 to 24 from Tanzania's underprivileged communities who are out of school, unemployed, or

whose families live below the World Bank's poverty line ($1.90 per capita/per day). These women cannot afford to pay for the training and services we provide; however, in order to sustain the project, we extend the service to girls and young women from financially stable families, who are required to pay a tuition fee, thereby raising funds. We have also been working to generate robust, aggregated results over a three-year period to demonstrate the far-reaching impact and return on investment of this innovative model (including, but not limited to, I promoting women's employment in the formal (ICT-related) employment sector and ii) promoting women's tech-based entrepreneurship). The following key phases are to: I ensure the sustainability of the training programs (keeping in mind that the costs of setting up will be significantly lower because a large portion of the initial investment was in the development of the digital incubator platform). ii) Some of the program's graduates are/will be hired as trainers and administrators, making the program more manageable and beneficiary-focused. Finally, Apps and Girls is currently developing a multi-year social business model in order to generate revenue streams in the long run. As the program grows, our longer-term goal is to offer a diverse portfolio of paid services, such as loan-based financing of our training, paid "IT training and digital upskilling packages," paid professional coaching & mentorship services, offline IT & entrepreneurship training hub and online hub subscription packages, and so on.

WSIS Values Promotion: Training in advanced IT (Web and mobile application development, graphics design, photography, etc) and entrepreneurship for young women. i) By changing harmful gender stereotypes about women and girls in the ecosystem, which perpetuate discrimination and limit women and girls' opportunities to reach their full potential (Convention on the Elimination of all Forms of Discrimination Against Women or CEDAW, Article 5 on Gender Stereotypes). ii) by assisting in the abolition of educational discrimination against women and girls. This includes ensuring that they have equal access to and participation in ICT education (CEDAW, Article 10 on Education) iii) helps to overcome women's employment exclusion by providing them with the skills they need to pursue a career in the formal or IT sectors (CEDAW, Article 11 on Employment) Offline and online incubation of young female start-ups: mentorship of emerging young female entrepreneurs and startup incubation i) Helps to eliminate discrimination against women and girls in all aspects of economic and social life by ensuring that young women have equal opportunities to start their own businesses (by providing them with the necessary resources) (CEDAW, Article 13 on Economic and Social Life) ii) Offering a variety of start-up support services to women-owned and led businesses in Tanzania and Sub-Saharan Africa increases their chances of success: Women are less likely to start a business in the region, according to the GEM 2016/2017 Report. Role models; sources of inspiration The lack of female role models in the digital sector is one of the major contributors to the digital gender gap. Our project creates a cyclical process that develops role models and mentors to support and inspire more girls and young women to pursue careers in STEM fields as tech entrepreneurs, innovators, inventors, and leaders in high-level positions.

WSIS Action Lines: 4, EMP

SDGs: SDG4, SDG5

Stakeholder Type: Civil Society

Country, Region: United Republic of Tanzania, Africa

WSIS Action Line C7. ICT Applications: e-environment

Vision-based waste sorting machine

Waste separation is an important step in the recycling process to preserve the environment. The idea is to build a vision-based waste sorting machine. This machine consists of: A treadmill - a camera - a robot arm - a computer with a GPU graphics card for image processing. The waste passes on the treadmill under the camera. The camera sends the images to the computer. the latter uses Artificial Intelligence techniques to detect and recognize objects. The computer sends a signal to the robot arm with the object's coordinates (x, y). The robot arm picks up the object and places it in a container.

Website: https://github.com/glarbi/Vision-based-waste-sorting

Target Beneficiary Groups: RURL

Replicable Description: This project is replicable by the companies.

Sustainable Description: Preserve the environment.

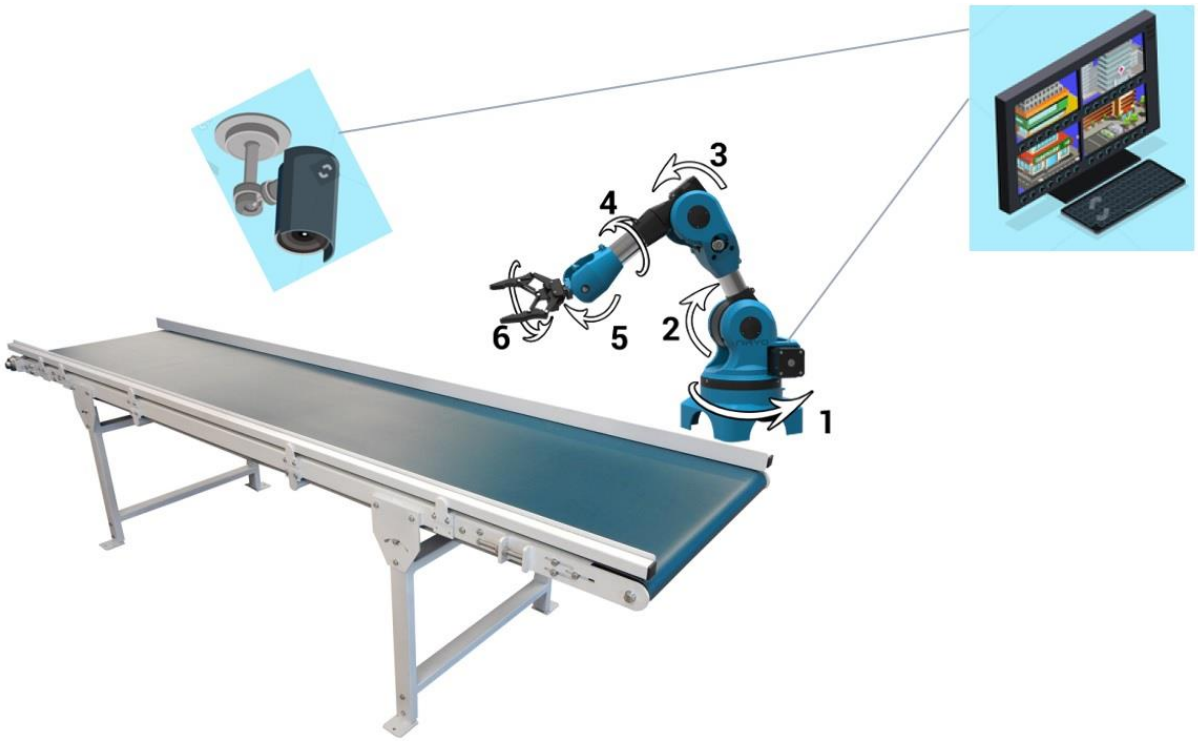
WSIS Values Promotion: Allows the use of digitization in the preservation of the environment.

WSIS Action Lines: ENV

SDGs: SDG3, SDG11, SDG13

Stakeholder Type: Academia

Country, Region: Algeria, Africa



Design of a hydraulic study bench based on a programmable automaton

The purpose of creating an automatic reverse osmosis unit is to treat water, concentrate juices and separate solutes from the solvent. This controlled system based on a programmable automaton displays the input and output variables on the supervision screen to be able to understand the operation and modify the input parameters according to user needs. Firstly, this device created at the national level makes it possible to avoid importation so it will therefore be widely available with a reasonable price, therefore we will contribute to the development of the country's economy. Second, since this system is flexible; it facilitates the tasks to the users and thus to have fast and very precise service. Finally, the drought threatened several countries including ours (Algeria). To be able to utter it we have recourse to the desalination of the water of the seas and the oceans like fundamental apparatus to satisfy the water needs.

Website:
https://drive.google.com/file/d/1dnimQ6s7Dg_JghT0TX89DcNlIIUU3Ge0/view?usp=drivesdk

Replicable Description: It is possible to maintain system parts one by one and get a new reverse osmosis unit.

Sustainable Description: the water needs either for the populations or the industries never ends therefore the demand for this device never ends.

WSIS Values Promotion: - process; based on a programmable logic controller - a continuous improvement approach: improve the system and have remote control and remote software part maintenance - security tools: - the alarm -the supervision screen.

WSIS Action Lines: 6, EMP, ENV, AGR, 11

SDGs: SDG6, SDG7, SDG13, SDG14

Stakeholder Type: Academia

Country, Region: Algeria, Africa



Système Statistique de la Pêche et de l'Aquaculture en Algérie

The overall objective of the new statistical application is to support the ministry of fishing and halieutic productions in consolidating a harmonized and efficient statistical system for fisheries and aquaculture. It will provide decision-makers with objective elements for proven and timely decision-making, guaranteeing both sustainable and responsible management of Algerian fisheries resources and improvement of the socio-economic situation of fishing communities. This tool will allow the DGPA to comply with all national and international requirements such as the FAO, the General Fisheries Commission for the Mediterranean (GFCM) and the International Commission for the Conservation of Atlantic Tunas (ICCAT) in terms of fishing and aquaculture statistics (fleet register, fishing gear and compliant species).

Website: http://sspaal.mpeche.gov.dz

Target Beneficiary Groups: YOUTH

Replicable Description: all countries that have fishing activities and relatives.

Sustainable Description: It is a system that consists of collecting data on the quantities of biological resources landed, prices and values at all fishing ports while following a scientific methodology based on sampling. This methodology ensures the reliability of the data and allows us to assess the accuracy rate of the data collected at more than 95%.

WSIS Values Promotion: The SSPAAL web computer application was developed and adapted to the Algerian context. This application is hosted in the Data Center, the official start of SSPAAL web was January 1, 2019. This application consists of two components: SSPAALweb Flot: Allows online updating of the fishing fleet register (modification of variables, insertion of new units, deletion of deregistered units, transfer of fishing units from one port to another and management of vessels operating outside their ports of registry) SSPAAL Catch/Effort: Allows the generation of sampling protocols and the entry of samples of catches and fishing effort by category of boat-gear and by fishing port.

WSIS Action Lines: 1, 3, GOV, ENV

SDGs: SDG1, SDG2, SDG3, SDG8, SDG9, SDG12, SDG14

Stakeholder Type: Government

Country, Region: Algeria, Africa



IoT Into the Wild Contest for Sustainable Planet 2022

There's a serious gap between conservation landscapes and technological applications. Up until now, open source technologists, global maker communities, and field experts (scientists, environmentalists, conservationists) have been working in silos most of the time. In consequence, the world is seriously lacking applicable, scalable, plug-and-play, and easy-to-deploy AIoT solutions that might be helpful for solving challenges in the wild. That's why, this year, Seeed Studio successfully organized a global, online, open innovation contest - "IoT Into the Wild Contest for Sustainable Planet 2022" - so as to facilitate, create, and congregate AIoT projects that can help accelerate solving the 5 pressing challenges in the world: - Challenge 1: Climate Crisis Prevention/Mitigation - Challenge 2: Wildlife/Biodiversity Conservation (Unlimited to various types of flora and fauna) - Challenge 3: Marine Conservation - Challenge 4: Open Science Tools - Challenge 5: Sustainable Agriculture as a result of this Contest, we received 122 Project Submissions, awarded 104 free hardware kits, and inspired 561 Participants from 78 Countries in 6 continents. Last but not least, 31 winners have been selected as final winners for 6 types of Awards. Since all the winners' projects are open source, they can be easily replicated and scaled up. Take a look at the overview of the winners' projects: https://www.seeedstudio.com/blog/2022/10/19/what-are-the-27-winning-projects-at-iot2wild-contest-2022/For all A-Z info about the Contest, please refer to the Contest's website, and make sure to scroll down until the end: https://www.hackster.io/contests/iotinthewildFor reference, this Contest has been avidly supported by Project 15 from Microsoft, Semtech, Helium, The Paradise Foundation, Institute for Advanced Architecture of Catalonia, Zambezi Partners, Edge Impulse, Fab City, Chaihuo x.factory, Hackster.io, HAX, Nova Labs, SOSV, and Himax.

Website: https://www.hackster.io/contests/iotinthewild

Target Beneficiary Groups: YOUTH, OLDP, WOMN, POOR, MIGR, RURL

Replicable Description: All the Contest winners' FULL project documentations (aka AIoT solution recipes) are available online for replicable purposes by others - for free: https://www.hackster.io/contests/iotinthewild

Sustainable Description: Yes, this Contest is sustainable in a way that Seeed Studio is working tirelessly with the Contest winners on scaling up some of their well-developed, most-needed, and valuable AIoT solution prototypes into industrial-grade, professional AIoT products. Moreover, Seeed Studio is organizing hands-on workshops, sponsoring IoT hardware products, and participating in various #Tech4Sustainability events as guest speakers to share the possibilities and potential of global open tech community for wildlife and environmental conservation, and disaster relief purposes. Such events include, but not limited to: 1. Gathering for Open Science Hardware 2022 (Panama): https://www.seeedstudio.com/blog/2022/11/17/gosh-2022-in-panama-seeed-organized-aiot2wild-and-custom-electronic-design-workshops-using-sensecap-k1100-kit/ 2. The Digital Naturalism Conference 2022 (Sri Lanka): https://www.seeedstudio.com/blog/2022/06/15/july-2022-seeeds-field-application-engineer-will-be-at-dinacon-3-in-sri-lanka-for-wild-hacking-for-a-holistic-iotintothewild-project-implementation%ef%bf%bc/ 3. AmazoniaHack 2022 (Brazil): https://amazoniahack.co/ 4. Bali Fab Fest 2022 (Indonesia): https://www.seeedstudio.com/blog/2022/10/28/bali-fab-fest-2022-hendra-kusumah-one-of-the-iot2wild-contest-winners-organized-hands-on-workshops-in-bali-using-sensecap-k1100-kit/

WSIS Values Promotion: All in all, the Contest has raised a lot of awareness on how AIoT and open tech innovations can be an alternative solution to accelerating the WSIS values (E-Environment, E-Science, etc.) for multi-stakeholders with real-life prototype solutions,

including the technological companies, academia, NGOs, and UN agencies. This contest was the epitome of grassroots, bottom-up innovations, #AIoT4SDGs, and low-cost, emerging tech solutions.

WSIS Action Lines: ENV, AGR, SCI

SDGs: SDG9, SDG13, SDG14, SDG15, SDG17

Stakeholder Type: Private Sector

Country, Region: China, Asia and Pacific



New passive IoT system for full life cycle management of industry assets

This project is dedicated to overcoming the communication problems of devices without battery, realize green energy-saving, low-cost, flexible deployment of IoT communication, create underlying capabilities of internet of everything with low-cost, which could help accelerate the spread of information and communication technology, and eliminate the digital divide. The project has completed the research and development of new passive IoT communication system based on networking architecture, solving the problem of traditional RFID readers cannot be continuously networked, and realizing low-cost continuous coverage. In terms of performance, the system reception sensitivity is 10dB higher than the highest level in the industry at the present stage, and the reception distance is 5 times higher; in terms of function, based on the realization of unified operation and maintenance and diversified interface library, the management platform can complete the functions of automatic tag identification, positioning, in/out management, etc., and at the same time, alarming the loss of goods, moving violation, risk reminding, and other functions are included, which can realize efficient and convenient assets life cycle management.

Website: http://cmri.chinamobile.com/

Replicable Description: For the ability to be replicated, on the one hand, this system is compatible with all RFID tags, and communication protocols and core algorithms can be compatible with different scenarios, different amounts of asset management requirements. On the other hand, the platform is developed based on "multiple interfaces + common management capabilities + standard visualization components“, which can be deployed and implemented quickly for different scenarios. Therefore, the current product development and promotion model is highly replicable.1. Low cost: New passive IoT system has the capability of networking deployment. For different scale of enterprises and various types of scenarios, the deployment cost is low. At the same time, it has functions such as automatic management, fault detection and optimization, etc., which can further reduce the management, operation and maintenance cost. 2. Plug and play: New passive IoT system has capabilities such as automatic networking, automatic access, etc. It can be used on power without any user action. So it is simple to operate and easy to use. 3. High compatibility: This system is compatible with all RFID tags, and communication protocols and core algorithms can be compatible with different scenarios, different amounts of asset management requirements. 4. High system openness: The platform is developed based on "multiple interfaces + common management capabilities + standard visualization components", which can be deployed and implemented quickly for different scenarios.

Sustainable Description: From the perspective of project planning, this project will be carried out from 2021 to 2025. Based on the technological evolution path of new passive IoT, we are conducting research and development and application promotion of new passive IoT products with networking architecture, and are conducting requirements research and technology prediction for cellular passive IoT. From the perspective of industrial cooperation, this project has formed a close cooperation relationship with more than 20 partners, and will further improve the system performance, introduce intelligent management and system docking capabilities based on the requirements of industry scenarios, create more efficient and convenient operation and maintenance management tools, and continue to promote the application of landing.

WSIS Values Promotion: With the goal of "green and low-carbon, high-efficiency, secure and reliable, agile innovation", this project actively promotes the industry to reach a consensus on the development trend of zero-power consumption, low-cost, and easy-to-deploy about digital sensing and communication technology, and creates a resilient electronic environment and communication infrastructure that can promote sustainable development and

innovation of verticals. 1. Jointly with international industry organizations, hold a series of workshops with the theme of "Industry Green Development Trends and Key Technologies" to promote industry consensus on the development trend of green and low-carbon communication capabilities. 2. Promote new passive IoT requirements and application scenarios research in standardization organizations, to accelerate the formation of a global unified standard and reduce the threshold of technology development and industrial application. 3. Establish new passive IoT joint innovation center, and promote the innovation of green and low-carbon digital information and communication technologies with more than 20 partners. 4. Establish enterprise joint laboratory to jointly research and develop new passive IoT products and promote their implementation. 5. Cooperate with vertical enterprises to promote the implementation and application of new passive IoT system, verify the application value of reducing energy consumption and improving management efficiency, and create a benchmark case.

WSIS Action Lines: 2, ENV

SDGs: SDG9

Stakeholder Type: Academia

Country, Region: China, Asia and Pacific



Digital green transformation of network infrastructure based on artificial intelligence

To construct a zero-carbon green network, China Telecom builds a unified 4G/5G base station/server room smart energy-saving system based on Artificial Intelligence (AI), big data, and energy-saving control technology. Based on big data, AI, and network technology, this project carries out technological innovations such as cross-domain massive data processing, big data/AI modelling, scenario energy-saving strategy formulation, high-reliability equipment analysis and judgment, control execution, intelligent wake-up, and intelligent evaluation. Under the premise of ensuring network quality and user perception, the project realizes efficient and safe energy-saving, visualization, and monitoring and dispatching of 4/5G base stations/server rooms across the entire network. This technology solves the pain points of traditional energy-saving solutions, such as inefficiency, high operational risk, heavy maintenance workload, limited application scale, and invisible energy saving, etc. The project has achieved remarkable results：this project has covered Millions of 4/5G base stations and thousands of server rooms in 2022. The energy-saving efficiency of 5G base station equipment reaches 16%, the overall average daily energy-saving rate of server room reaches 4~9%, and the overall energy-saving rate of the refrigeration system is more than 23%. China Telecom saves 6.5 billion kWh of electricity and reduces carbon dioxide emissions by 390,000 tons per year. In the future, China Telecom will further further improve system capabilities, expand energy-saving scenarios, enhance multi-mode energy-saving technologies to construct a new green network. Through the innovation of green network, the project actively promotes the deployment of AI energy-saving technology, establishes AI energy-saving related standard and specification system, and guides upstream equipment manufacturers to jointly develop the green ecological chain.

Website: http://www.chinatelecom.com.cn/

Target Beneficiary Groups:

Replicable Description: The following aspects can prove the replicability of the project: 1) The technical framework of the project is highly open and flexible. It does not require a specific base station or server room refrigeration system and has good compatibility with a variety of energy-saving scenarios and means, strong generalization ability. The scale of base station and server room it holds and manages is industry-leading. 2) The system provides a practical solution for the realization of green and energy-saving wireless networks and data centers. The project also extends to other network facilities such as cloud network server and in-depth cooperates with companies in neighboring countries such as operators in the Philippines. It can be seen that in the field of communications, the portability of the system is obvious. 3) China Telecom's base station/server room smart energy-saving system emphasizes smart control of hardware devices based on big data and artificial intelligence technologies to create value for enterprises and society. Its technical framework has no special requirements for the hardware equipment to be controlled. Although the system was incubated in the context of base station/server room energy-saving, its technical framework can theoretically be replicated in other areas of industry. 4) China Telecom has integrated the core requirements and technical architecture of the project into telecommunications standards and exported them to ITU and ETSI (European Telecommunications Standards Institute). At present, four projects have been recognized by experts at home and abroad and have been successfully established, which fully proves the replicability of the project and is expected to be popularized to countries all over the world in the future.

Sustainable Description: The following points reflect the sustainability of the project: 1）According to China Telecom’s “Dual Carbon” Action Plan, by the end of 2025, China Telecom will construct millions of 5G base stations and thousands of large data centers, AI

will enable 5G base stations with energy saving efficiency no less than 20%, the proportion of large and ultra-large green data centers is more than 80%, and the PUE of the newly-built data center is less than 1.3. As an essential part of China Telecom's "dual carbon" action plan, the project has already provided energy-saving analysis and intelligent control services for millions of 4/5G base stations and thousands of server rooms in over 300 cities in China, and it will cover more 4/5G base stations and server rooms by 2025. In addition, we will deepen our cooperation with overseas companies in the future to extend the project to other countries and regions. 2) In terms of economic benefits, the project can bring a significant reduction in operating costs for enterprises such as telecom operators. At present, it is mainly reflected in the saving of electricity charges. The system can be sold to other enterprises as EPC (Energy Performance Contracting) services, and operators can get a certain proportion of the saved energy costs, so as to achieve mutual benefit and win-win. In addition, China has established a national unified carbon emission trading market, which is expected to reach more than 100 billion in the future. The project is expected to help telecom operators enter the carbon trading market and create certain profits. 3) In terms of technology, big data and artificial intelligence technologies are the core of this project and have been initially applied on a large scale. In the future, this project will continue to iterate on technology, use artificial intelligence and other technologies to alleviate the contradiction between industrial development and environmental governance and achieve the goal of harmony between human development and environmental ecology.

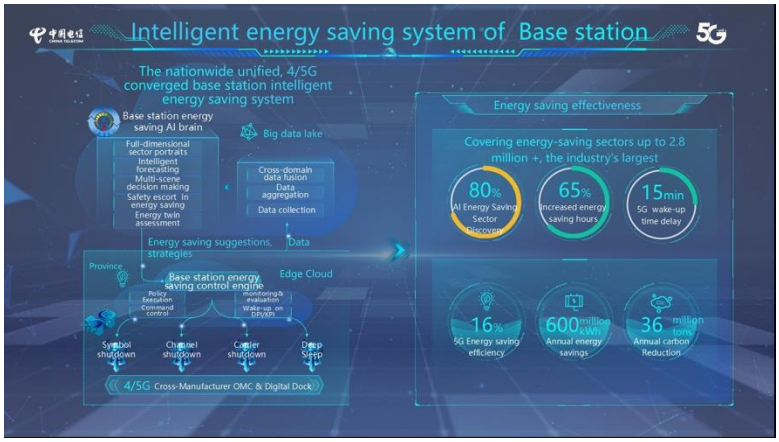
WSIS Values Promotion: Climate change and energy issues are a global challenge that crosses borders. To meet these challenges the ICT industry is responding to the Paris Agreement and taking positive action. As a practical solution, the green and low-carbon network, guided by the concept of sustainable development of ecological civilization, reduces the power and energy consumption of the network through various means such as technological innovation, institutional innovation and industrial transformation. This reduces the energy consumption of the network, and thus cutting greenhouse gas emissions, which finally leads to a win-win situation for both industrial development and environmental management. Specifically, in China, China Telecom's base station/server room smart energy-saving system has saved 650 million kWh of electricity, equivalent to a reduction of 390,000 tons of carbon dioxide emissions. Such an great contribution to environment management is in line with WSIS's Action Lines of enabling environment and the sustainable development goals.

WSIS Action Lines: 6, ENV

SDGs: SDG3, SDG7, SDG12, SDG13

Stakeholder Type: Private Sector

Country, Region: China, Asia and Pacific



5G Intelligent Energy-Saving Platform

The project aims to solve the problem of 5G high energy consumption, decrease operating costs, reduce carbon emissions, and help build a network with better energy-saving and performance, so as to achieve sustainable and high-quality development.* the relevance of the project to the respective WSIS Action LineThe project aims to solve the problem of 5G high energy consumption, so as to promote the implementation process of energy conservation and emission reduction in the communication fields. The project conforms with the WSIS Action Line - "Enabling environment". * the results achieved and impact generated. The project has been deployed and applied in more than 20 provinces in China since 2020. Until 2021, a total of 1.13 million 5G base stations have been accessed, saving 1.49 billion KWH of electricity. Equivalent to a reduction of carbon emissions of about 405,280 tons. * relevance to Sustainable Development Goals. The project achieves unified scheduling of 5G network energy-saving strategies through big data and AI technology. It is committed to reducing the energy consumption of 5G base stations, and building a green network with both energy efficiency and superior performance, which is consistent with the sustainable development goal. * ability of the model to be replicated the project introduced a flexible hierarchical architecture of micro-services, designed a unified API interface for network indicator collection and the API interface for energy-saving command execution. This project fully considered the needs of replicability and easy promotion. * sustainability of project. Energy conservation and emission reduction are the key means to cope with rising temperatures in global environmental governance. In the context, the project aims to solve the high-power consumption problem of 5G network, so as to promote the implementation process of energy conservation and emission reduction in the communication fields. Therefore, this project has good sustainability.

Website: http://cmri.chinamobile.com/

Target Beneficiary Groups: YOUTH, OLDP, WOMN, INDG, DISB, UNEMP, POOR, MIGR, REFG, RURL

Replicable Description: Based on the consideration of large-scale application and replicable promotion, this project designs a vertical hierarchical architecture of network energy-saving micro-service. The architecture consists of "collection – perception – analysis - decision - execution", which could realize flexible deployment of components with customization capabilities and meet the differentiated requirements in disparate users. This project obtains network indicators from operators through unified data acquisition API interface. Meanwhile, the project uses big data technology and artificial intelligence algorithm to mine energy-saving space and time in order to match the optimal energy-saving technology. Eventually, the project sends energy-saving strategy via the standard command execution API. This project has been applied in more than 20 provinces in China on a large scale. The IT technology adopted is universal and reproducible.

Sustainable Description: Global environmental governance is facing unprecedented difficulties. Energy conservation and emission reduction are the key means to cope with rising temperatures in global environmental governance. China has scheduled to reach the goal of peaking carbon dioxide emissions by 2030 and achieving carbon neutrality by 2060 (the two-carbon goal) in its development strategy. In the field of communication, the issue of high-power consumption of 5G network has been the focus of the industry, hence the large-scale commercial use of 5G will put pressure on environmental protection and enterprise operations. This project is committed to solving the problem of high-power consumption of 5G network, so as to build a green network with both energy efficiency and superior performance, which facilitates the large-scale commercial use of 5G network. The project team plans the phased direction and objectives. At the present stage, the project achievements

have been applied and deployed on a large scale in China Mobile's 5G construction, and great progress has been made in energy saving and cost reduction. In the future, with the continuous development and application of site-level and network-level energy saving technologies, the project will continue to update and iteration, which has good sustainability.

WSIS Values Promotion: This project commits to building 5G network with both energy efficiency and superior performance. We help operators realize energy conservation and emission reduction, thereby reducing costs. On the other hand, this project also drives the attention and implementation of the entire communication industry in energy conservation and emission reduction, which promotes the sustainable development of communication industry. It sets a digital and green benchmark for global ecological protection.

WSIS Action Lines: 6, ENV

SDGs: SDG3, SDG7, SDG8, SDG9, SDG11, SDG12, SDG13

Stakeholder Type: Academia

Country, Region: China, Asia and Pacific



Sauvegarde Environnementale et developpement durable

We have through our social networks and our digital press (AfrikScTv) carried out awareness campaigns about environmental protection and conservative programmes, created digital visuals for the population, relayed the right information. ICT Tools used: Facebook, Twitter, LinkedIn, Zoom, Team, WhatsApp, emails, our website, skype. They promote the dematerialization of our administration, reduce our carbon footprint, quickly send our messages around the world which are followed and relayed through digital platforms.

Website: https://roscidet.org/main/

Target Beneficiary Groups: YOUTH, OLDP, WOMN

Replicable Description: Yes. This project was carried out in Ivory Coast. It can be replicated everywhere in Africa and Latin America.

Sustainable Description: Yes, it's a sustainable project because it reduces the use of paper and therefore deforestation, limits non-essential travel and therefore greenhouse gas emissions, allows the use of quality human resources within the framework of partnership around the world.

WSIS Values Promotion: As we are raising awareness of environmental issues through digital platforms, we are educating more people about the importance of environmental conservation. As such, this project promotes WSIS values in the community such as: C1. The role of governments and all stakeholders in the promotion of ICTs for development; C2. Information and communication infrastructure; C5. Building confidence and security in use of ICTs; C7. ICT applications: benefits in all aspects of life — E-learning, E-environment, E-agriculture; C9. Media; C11. International and regional cooperation.

WSIS Action Lines: 1, 2, 5, HEA, ENV, AGR, 9, 11

SDGs: SDG1, SDG2, SDG3, SDG5, SDG7, SDG8, SDG9, SDG11, SDG13, SDG14, SDG15, SDG16, SDG17

Stakeholder Type: Civil Society

Country, Region: Côte d'Ivoire, Africa



Land Management Single Window

By using the Iran E-Land Portal as one of the tools of information and communication technology and based on the infrastructure and facilities of the e-government field, after the pathology of the existing processes, the architecture and software structure on the web for the precise control of sending requests from the applicants and control of sending and receiving inquiries/issuance and non-issuance of permits from the executive bodies and creating a sub-system to monitor the country's lands, which can prevent corruption in the issuance of permits and inquiries in the field of land.

Website: https://iraneland.ir/

Replicable Description: The project can be implemented in other countries.

Sustainable Description: The suitable use of the land is part of sustainably.

WSIS Values Promotion: E-environment and employing ICTs in protecting the environment is a part of WSIS action line. This project helps to protect environment through motoring the man-made change in the land within the country.

WSIS Action Lines: GOV, ENV

SDGs: SDG12, SDG13

Stakeholder Type: Government

Country, Region: Iran (Islamic Republic of), Asia and Pacific



Caribbean Climate Innovation Center

Caribbean Climate Innovation Center is an initiative supported by the World Bank Group's Climate Technology Program. It was launched in 2013 as a Consortium jointly managed by two leading scientific institutions in the Caribbean, the Scientific Research Council (SRC) based in Kingston, Jamaica and the Caribbean Industrial Research Institute (CARIRI) located in Trinidad and Tobago. CCIC is a part of infoDev's Climate Technology Program (CTP) which focus on empowering developing countries to proactively and profitably adapt, develop and deploy climate smart (clean tech) technologies and business models. This CTP is part of the broader Entrepreneurship Program for Innovation in the Caribbean (EPIC) program being funded by the Canadian International Development Agency (CIDA).

Website: http://www.caribbeancic.org/thematic-areas/

WSIS Values Promotion: E-environment and Innovation

WSIS Action Lines: 1, ENV, SCI

SDGs: SDG7, SDG9, SDG11, SDG13

Stakeholder Type: Private Sector

Country, Region: Jamaica, Latin America and the Caribbean



refillme

The eco startup company refillme produces on-tap dispensers for selling household cleaning products such as dishwashing solutions, laundry detergents, and floor cleaner. The process at refillme is simple: we refill empty bottles with household liquids to decrease the plastic waste. In 6 months, we've prevented the production of 220 plastic bottles. refillme is promoting the growth of zero-waste households, and also the growth of the circular economy in Kazakhstan. According to United Nations statistics, 40% of plastic produced is packaging, which is used just once and then discarded. This issue of single-use plastics, and also the low rate of plastic-recycling overall, is causing the vast amount of plastic in landfills to end up in the oceans. By reducing the amount of plastic waste in landfills, refillme is preventing the creation of microplastics, which are tiny particles that enter water sources and threaten the health of animals and humans. For the refillme team, our most important achievement since we began 6 months ago is that we prevented the production of 220 plastic packaging. In turn, this saved 20,900 litres of water and reduced CO2 emissions by 18 kg. All of this also led to the reduction of usage of oil, electricity and landfill space. Although 220 bottles may not seem like a lot, the ripple effects of the reduction of waste are vast. We at refillme are so excited to make and continue even greater long-lasting positive impact. The most important factor, the refillme team consists of girls who are engineering students, and also me Economics student. By doing what we like, we would like to promote this idea: no matter what gender you are you can still make the world better.

Website: https://www.instagram.com/refillme_kz/

Replicable Description: The project is replicable and is intended for a bigger scale. With correct resource allocation and employed business model we strive to replicate the project to have a wider outreach. Thus, we are attracting investments that benefit both refillme and potential partners.

Sustainable Description: We refill empty bottles with household liquids to decrease the plastic waste. In 6 months, we've prevented the production of 220 plastic bottles. refillme is promoting the growth of zero-waste households, and also the growth of the circular economy in Kazakhstan. According to United Nations statistics, 40% of plastic produced is packaging, which is used just once and then discarded. This issue of single-use plastics, and also the low rate of plastic-recycling overall, is causing the vast amount of plastic in landfills to end up in the oceans. By reducing the amount of plastic waste in landfills, refillme is preventing the creation of microplastics, which are tiny particles that enter water sources and threaten the health of animals and humans.

WSIS Values Promotion: ICTs help reach wider outreach. We actively promote refillme throughout Kazakhstan using various information and communication tools.

WSIS Action Lines: ENV

SDGs: SDG6, SDG9, SDG12, SDG14

Stakeholder Type: Private Sector

Country, Region: Kazakhstan, Asia and Pacific



ELECTRONIC CONFORMITY ASSESSMENT

Reducing the number of counterfeit products and improving the quality and safety of products and services. Electronic format for conformity assessment of products and services. Reducing the cost of conformity assessment (paper, notarial acts, logistics and forwarding of documents). Reduced waiting time for results. Exclusion of the possibility of falsification and forgery of conformity assessment documents. Exclusion of corruption factors and economic crimes. Ensuring the traceability of product turnover from the manufacturer and importer to the end consumer.

Website: https://techreg.qoldau.kz/ru/cert/info

Target Beneficiary Groups: YOUTH, OLDP, WOMN, INDG, DISB, UNEMP, POOR, MIGR, REFG, RURL

Replicable Description: This project can be implemented in any country that uses/complies with international standards for the quality and safety of products and services.

Sustainable Description: Promoting sustainable development of agriculture. Ensuring healthy lifestyles and promoting well-being for all at all ages. Ensuring the availability and sustainable use of water and sanitation for all. Promoting sustainable, inclusive and sustainable economic growth, full and productive employment and decent work for all. Building strong infrastructure, promoting inclusive and sustainable industrialization and innovation. Ensuring openness, security, resilience and sustainability of cities and towns. Ensuring sustainable consumption and production patterns.

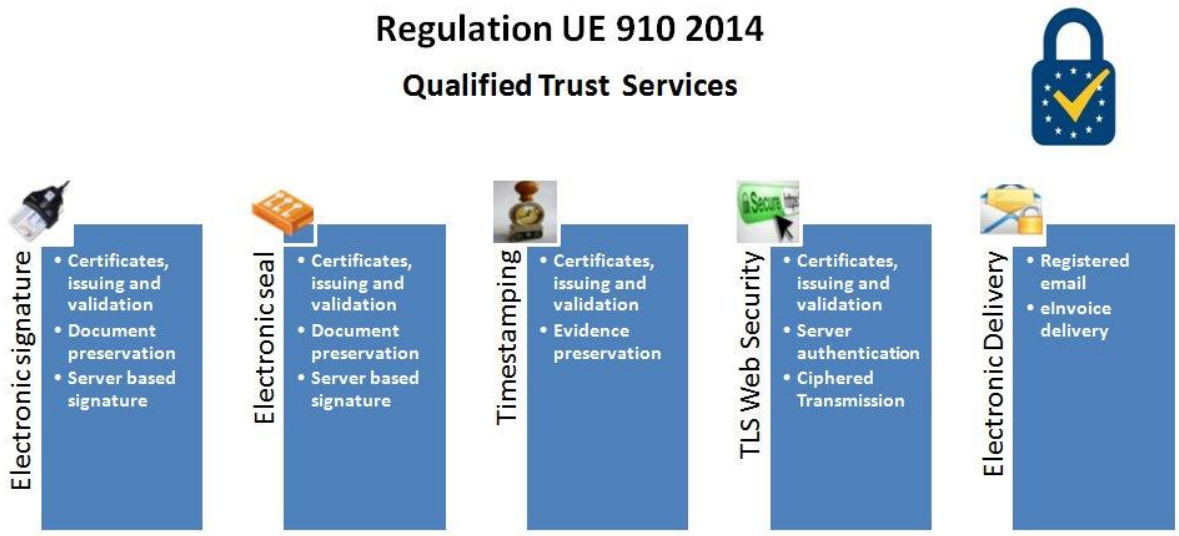
WSIS Values Promotion: The project ensures that the activities of citizens and enterprises comply with national and international quality and safety standards.

WSIS Action Lines: BUS, ENV

SDGs: SDG12

Stakeholder Type: Government

Country, Region: Kazakhstan, Asia and Pacific



Digital Approcahes to Risilience and Adaptation in Jamaica (DARAJA Project)

The proposed solution will be a new climate resilience and adaptation methodologies and technologies to improve climate risk management and COVID19 responses in Jamaica through this program. This project will directly stimulate business development in Jamaica by establishing a climate resilience data innovation incubation program for up to 10 SMEs/startups utilizing big data and artificial intelligence to access the DARAJA Information Sharing Platform. These innovators will utilize the data to develop added value products and services that help to build climate resilience. The alumni of this program will become the founding cadre of private sector actors to engage with MSJ and the public sector agencies releasing their data sets onto the DARAJA Platform.

Website: http://www.caribbeancic.org/

Target Beneficiary Groups: YOUTH, WOMN, INDG, RURL

WSIS Values Promotion: The platform will be complemented by a smartphone-based weather application for communicating information directly to individuals which will provide a tailored weather and COVID information. The alumni of this program will become the founding cadre of private sector actors to engage with MSJ and the public sector agencies releasing their data sets onto the DARAJA Platform. Their business initiatives will combine data and information from DARAJA with other relevant information to create revenue-generating products and services that improve Jamaica's overall resilience to weather and climate shocks. This will be published and licensed as open data. It will offer rapid prototyping and marketing testing guides for Jamaica start-ups/SMEs interested in creating new open data driven climate risk information products and revenue streams.

WSIS Action Lines: 1, 2, 3, ENV, 9, 11

SDGs: SDG1, SDG3, SDG9, SDG11, SDG12, SDG13, SDG17

Stakeholder Type: Government

Country, Region: Kazakhstan, Asia and Pacific



Big Data Analytics (BDA) KeTSA - Forest Fire Analysis and Forecasting in Permanent Reserved Forest in Peninsular Malaysia

Forest Fire Forecasting System in Permanent Reserves Forest (PRF) in Peninsular Malaysia using Big Data Analytics (BDA) to assist Forestry Department Peninsular Malaysia (FDPM) on analyzing and forecasting forest fire incidents that occur in PRF of Peninsular Malaysia. The system will enable FDPM to 1) forecast the areas of potential forest fires as early as seven days; 2) locate the relevant agencies to deal with forest fires close to the site of the fire incident that can be identified; 3) locate the nearest water resources; and 4) estimate the cost of the firefighting operations. The impacts of forest fire can be minimized by having an early detection system. The essence of a good early detection system is quick detection of forest fire and the response of forest fire suppression team to put out the forest fire. This system will further enhance and complement the capability of FDPM to suppress early stage of forest fire more effectively. When a forest fire prediction can be implemented, resources of the related agencies can be planned in mitigating the process of suppressing and curbing the fire from getting into an uncontrollable size. At the same time, the cost of the forest fire operation can be predicted depending on the area of the effected location. Finally, the water source can be planned for arrangements before going to a site for a forest fire operation.

Website: https://bda.ketsa.gov.my

Target Beneficiary Groups: RURL

Replicable Description: The platform of this project is based on big data analytic tools including data automation and data acquisition modules and develop mostly using Open Source technologies. Overall architecture has been automated and designed to be integration ready to ensure the replicability. The framework can be replicable at the national level in any country. It also can be extended to add on some of the machine learning and Internet of Things (IOT) devices for monitoring and surveillance the forest fire.

Sustainable Description: Continuously training to the officer-in-charged of forest fire monitoring and reporting will help them understand better on the results from the system so that they could respond quickly. Integrating new technologies like cloud technology and big data will allow organizations to gather data in the cloud, analyze it in real-time and use this information to obtain insights to improve product and service quality and efficiency. This project can be expanded to other natural disasters such as accumulation of driftwood and debris, landslides, and water surges due to heavy rain and floods. Therefore, the use of BDA system in monitoring high slope data, rainfall data distribution, forest cover that will involve various agencies in assisting FDPM to overcome the matter.

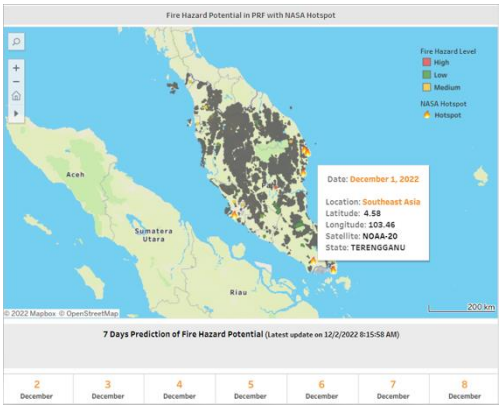
WSIS Values Promotion: Respect for nature - Weather variations such as heat waves are among the causes of forest fire incidents in Peninsular Malaysia. The phenomenon has left adverse effects on forest ecology such as habitat loss and loss of biodiversity. Early and preventive information that can be gained from this project is vital to avoid such incident.

WSIS Action Lines: ENV

SDGs: SDG3, SDG11, SDG13, SDG15

Stakeholder Type: Government

Country, Region: Malaysia, Asia and Pacific



Geospatial portal

The process of the project is collecting and linking geographical environmental data and information to a unified base and making it available through an integrated portal for the Authority’s employees and its affiliated directorates and departments in order to organize and facilitate access to information at any time and from anywhere in a manner consistent with the policy of information security in the Sultanate so that it contributes to the process of supporting decision-making for environmental projects. This portal aims to: 1. Facilitating access to environmental information. 2. Assisting the Authority's employees in collecting their environmental data in a unified database. 3. Inform the specialists of their data and the possibility of building reports and extracting maps accordingly. 4. Reducing the cost of building and purchasing an integrated system for geographic information systems in each competent directorate or department. 5. Switching from paper services. 6. Dissemination of information to the largest number of beneficiaries.

Website: https://geoweb.ea.gov.om

WSIS Values Promotion: Easy access to environmental information.

WSIS Action Lines: ENV

SDGs: SDG17

Stakeholder Type: Government

Country, Region: Oman, Asia and Pacific

Eco2AI - the tool for carbon footprint emission tracking of any python software, focusing on AI & ML models

Following the development of Green AI concept, we created an open-source software tool eco2AI to help data scientists and researchers to track energy consumption and equivalent GHG emissions of their AI & ML models in a straightforward way. In eco2AI we focus on accurate tracking of energy consumption and regional carbon footprint emissions accounting. Eco2ai can help reduce emissions from AI & ML models. Only for the first 4 months, the library was used by almost 8,000 data scientists from around the world, including the RF, UK, France, Finland, the Philippines, Indonesia and others. Eco2ai directly affects the next goals: 12. Ensure sustainability consumption and production metrics 13. Take urgent action to combat climate change and its impacts. And indirectly affects goals 9 and 17. In the paper devoted to eco2ai (https://arxiv.org/abs/2208.00406) we present examples of eco2AI usage for tracking fine-tuning of big text2image models Malevich and Kandinsky and also for optimization of GELU activation function integrated to Malevich model. eco2AI demonstrates that usage of 3-bit GELU decreased equivalent carbon footprint by about 17%. We expect that eco2AI could help the ML community to pace to Green and Sustainable AI within the presented concept of AI-based GHG sequestrating cycle.

Website: https://github.com/sb-ai-lab/Eco2AI

Replicable Description: Yes. Every person anywhere in the world can use the project with help of GitHub and PyPI

Sustainable Description: This project motivates optimized patterns of power consumption and carbon footprint of data centers promoting sustainable economy.

WSIS Values Promotion: Reduction of carbon footprints capable of slowing down Global Warming. It also encourages the research community to utilize AI more consciously.

WSIS Action Lines: ENV

SDGs: SDG9, SDG12, SDG13, SDG17

Stakeholder Type: Private Sector

Country, Region: Russian Federation, Eastern Europe



Early Warning Epidemics System

It is an electronic system that analyzes the Kingdom's map climatic, vital, and water indicators. It identifies the expected geographical locations for the spread of epidemics and disease vectors. Monitoring epidemics to investigate them and develop a disease prevention and control plan. Follow-up reports verify cases infected with the epidemic and neighboring areas provide the necessary support and limit the outbreak's spread in integration with the supportive systems. System goals:1- Early investigation of pests.2- Achieving sustainability and food security.3- Reducing the spread of epidemics and pests.4- Protecting the environment from pollution.5- Protecting and preserving water and its sources from pollution.

Website: https://ewes.naama.sa/

Target Beneficiary Groups: YOUTH, WOMN, INDG, POOR, RURL

Sustainable Description: The system covering three pillars of sustainability – economic viability, environmental protection and social equity.

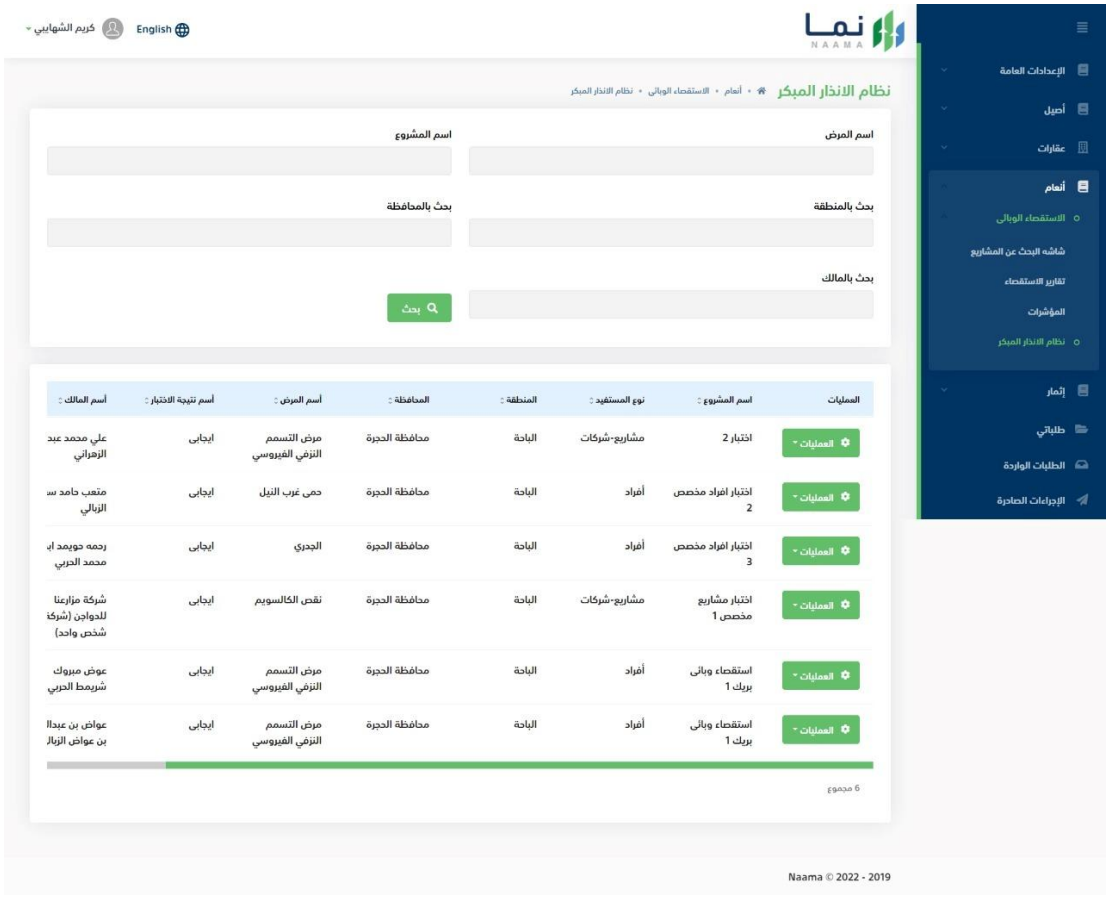
WSIS Values Promotion: - End Poverty in all its forms everywhere - Zero Hunger - Ensure healthy lives and promote well-being for all - Sustainable Cities and Communities - Responsible consumption and production - Life on Land

WSIS Action Lines: ENV

SDGs: SDG1, SDG2, SDG3, SDG8, SDG12, SDG15

Stakeholder Type: Government

Country, Region: Saudi Arabia, Asia and Pacific



Madinati - Smart Waste Management Platform

Madinati is a unified digital platform for monitoring and controlling the management of waste movement (B2B), tracking the equipment of municipality contractors and service agencies, and registering waste producers in an electronic system, with setting requirements for tracking service providers to ensure quality of service and commitment of the product and carrier through electronic contracting and automation of work procedures. Among the types of waste and their classification: household waste, demolition and construction waste, ready-mixed concrete, treated medical waste, sewage, commercial waste, hazardous medical waste, and recyclable waste. Madinati Platform helps the municipalities' entities to introduce accountabilities on the municipal waste generators in all sectors against the waste they produce. It consists of a very robust core platform, which changes dramatically the operational efficiency of the business processes and helps in building a comprehensive knowledgebase with much higher accuracy to support strategical decision making. Madinati platform project aims to Monitor, control and manage waste movement form its sources, Monitor vehicles, and equipment of the municipalities projects, and cities infrastructure projects, manage registration of waste producers in smart electronic system, Unifying the requirements of tracking service providers according to the highest technical standards. Ensure the quality of service, and compliance through electronic contract documentation, and automation work procedures in line with the objectives of the MOMRAH.

Website: https://madinati.sa/

Replicable Description: Madinati as a platform can be replicated in other countries, because waste management is a need in all countries. The solution was built in-house in the Ministry of Municipal, Rural Affairs and Housing in partnership. It has some copyright restrictions in terms of source code and needs agreements and potential adaptations if it is to be replicated in other countries. However, it is possible for any other country to build a similar solution to achieve similar objectives.

Sustainable Description: Madinati platform is a sustainable project, and no major future threats to the project's sustainability are expected. The project’s sustainability is based on the fact that the project is built in-house with owned source code. Therefore, it is not dependent on external support. Madinati also benefits from a wide variety and quality of human resources with a well-defined structure and a clear division of responsibilities. It includes product managers, project managers, business analysts, developers, designers, quality testers, and security, operations, and support teams. The project is also gradually being open-sourced, with some features uploaded to the governmental platform for open-source. Also It is a sustainable platform, since it is provided a service for a long term. In addition to the future plan to Enhancement the functionality by using the AI and Add more sub-services. Also, all system outputs are reflected on live tracking enterprise dashboard fixed on a technical control room giving an immediate, sustainable reports and statistics satisfying the requirements of decision-makers. The issued reports are for example, but not limited to: - Life report for quantities of waste produced. - Producers of waste according to its types. - Updated list of waste transporters, exact numbers of vehicles and bins. - Bins/ collection sites according to e-contracts. - The number of violations divide by geographic areas.

WSIS Values Promotion: Madinati is aligned with the WSIS C7 E-Environment Action line. It promotes e- Environment as a digital platform that mange waste utilizing modern technologies with partnership with private sector. Madinati platform system includes tracking waste from the generation points to the approved final disposal points during the waste life cycle, and includes the process of transportation and tracking of waste vehicles using tracking and monitoring devices. It also includes monitoring and tracking the vehicles of all Municipality projects operating in Jeddah in order to serve as a supportive and

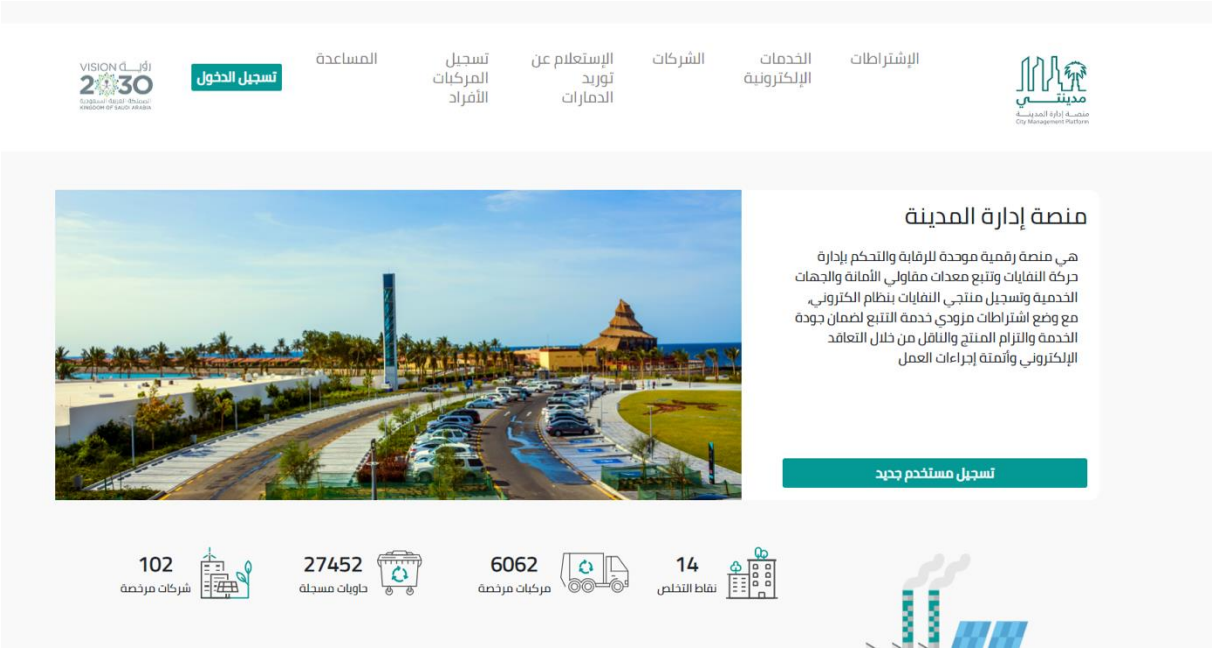
complementary tool for the Municipality’s work strategy and plans. We used the data of generation points about its area, and activity to determine the suitable size and number of trash bins after calculating the waste quantities automatically using waste generation rate then the system monitor the waste quantities reached to the landfill by the integration with the landfill's waste weighing system, and receiving the waste quantities records to ensure that all quantities of waste have reached to the proper final destination that to overcome the problem of the random disposal of waste. The above solution increased the ability of my organization for more controlling the waste movement and increasing the compliance percentage of the transporters.

WSIS Action Lines: ENV

SDGs: SDG11, SDG12

Stakeholder Type: Government

Country, Region: Saudi Arabia, Asia and Pacific



WooHoo Plus

Woohoo+ was designed to help creative people to connect their ideas to companies who want to make the difference helping the planet. You deposit your ideas in our 100% secure platform with all the rights protected. You say how much money you are requiring in order to finance your project, get the correspondent amount of tokens which will be acquired by (a) company(ies) or investor(s). WooHoo+ is a peer to peer Blockchain-powered Atomic Swap Platform for eco ideas that allow for transactions to take place in an environment that is secure and transparent without the need for a centralised authority. The application allows individuals to submit ideas that provide sustainable solutions to many of the worlds environmental problems and procure investment from companies or investors who wish to make these ideas a reality, ensuring sustainable development and fostering innovation in the green economy.

Website: https://www.woohoo.plus/

Target Beneficiary Groups: YOUTH, WOMN, POOR, RURL

Replicable Description: YES

Sustainable Description: Woohoo+ is a 100% Blockchain platform.

WSIS Values Promotion: The project fosters collaboration and participation in projects that have a specific focus on sustainability.

WSIS Action Lines: ENV

SDGs: SDG9

Stakeholder Type: Private Sector

Country, Region: South Africa, Africa

The Use of the National e-Notification System in the Judicial Procedures

The e-Notification project was started on 29.06.2015 with the aim of improving the Quality and Efficiency of the Legal and Criminal Justice System, Strengthening the Notification System, and improving electronic services in the judiciary. E-Notification is the electronic sending of official documents that need to be communicated to individuals by the authorities authorized to issue notifications. In order to make an electronic notification to the person, the person must have a KEP (Registered Electronic Mail) address suitable for notification and have notified this address to the authority that will issue the notification. An electronic notification has the same legal consequences as a physical notification. With the project, the notification process, which takes weeks in the physical environment, is completed in seconds in the electronic environment.

Website: https://wsisbigm.my.canva.site/e-notification

Replicable Description: It can be replicated by other competent notifying bodies through a joint project with the PTT (Turkish Post)

Sustainable Description: The project does not cover a specific time period. Improvements continue by mutual exchange of information with the project partner PTT (Turkish Post).

WSIS Values Promotion: The reports received regarding the users of the e-Notification service, the feedbacks made in the electronic environment, and the active usage reports are evaluated together to make the system user-friendly and to provide new and statistical information according to the demands. In addition, satisfaction and complaints can be measured by making one-to-one meetings with the help desks created, and it is possible to solve problems arising from use.

WSIS Action Lines: 2, 5, GOV, ENV

SDGs: SDG13, SDG15, SDG16

Stakeholder Type: Government

Country, Region: Turkey,
Western Europe and North America



WSIS Action Line C7. ICT Applications: e-agriculture

Webgis Solution to Provide Analytics for Precision Farming

GGPEN Mission is to Promote the peaceful use of space, as well as conduct strategic studies aimed at establishing cooperation agreements with technical and scientific institutions in the space domain, ensuring the creation of national technological and human competencies and the transfer of technology and know-how within the scope of the Angola Space Program. The project that we are applying for as institution is being coordinated by Joana, a GGPEN technician in space applications.

Website: https://www.ggpen.gov.ao/

Sustainable Description: This project aims to benefit the agricultural industry.

WSIS Values Promotion: GGPEN has acquired mastery in the area, aiming at a subsequent sharing of knowledge, as well as the provision of timely and detailed geospatial information, which will guide agricultural guidance systems (small and large owners of farms or affiliates to the public sector, such as cooperatives and unions), for better management of agricultural production, aiming at maximizing yield on a large scale.

WSIS Action Lines: AGR, SCI

SDGs: SDG12, SDG15

Stakeholder Type: Government

Country, Region: Angola, Africa

Vegetable Market Information System

The Vegetable Market Information System was developed to collect information on availability of vegetables and their demand in all Dzongkhags (primary subdivisions of Bhutan). The system was built to help the task force team under MoAF to collect the required locally produced information so that they can transport and distribute vegetables in other required dzongkhags. The information in the system is supposed to be fed in by Agriculture extension offices and private vegetable aggregators in the Dzongkhags.

Website: https://amis.gov.bt/

Target Beneficiary Groups: YOUTH, OLDP, WOMN, INDG, DISB, UNEMP, POOR, RURL

Replicable Description: The project can be implemented also in other countries.

WSIS Values Promotion: The Vegetable Market Information System will enable to small and medium businesses and farmers in Bhutan to access information on prices of agricultural products, empower them to get better prices and increase their incomes.

WSIS Action Lines: 1, 3, AGR

SDGs: SDG2, SDG8, SDG12

Stakeholder Type: Government

Country, Region: Bhutan, Asia and Pacific



Optimilk

The feeding costs share with more than 50 % in total costs of dairy production. The dairy farmers should to optimize dairy cows ration to achieve better economic production performance. It needs a very complex mathematical calculation with Simplex algorithm (Linear programming method). In other hand, there are a lot of small dairy farms in Bosnia and Herzegovina, without feeding experts. They do not have the necessary knowledge to optimize the ration of dairy cows and they need a simple and user-friendly solutions. There are a few desktop applications with module for optimization dairy cows ration in Bosnia and Herzegovina. But, they have a very wide specter of modules and they are a very complex for a wide range of small farmers. Also, the farmers have to spend a lot of money for installing some of them. OPTIMILK is web-oriented application with user-friendly interface. There is a feed database with their nutrition components and default values of them. Farmers can access to the application through their web browser, make a profile and use it. Also. they can record their ration(s), change nutrition values, share ration etc.

Website: https://optimilk.mljekarirs.com/

Target Beneficiary Groups: WOMN, INDG, UNEMP, POOR, RURL

Replicable Description: OPTIMILK is a multi-user web application developed according to the latest web standards and good practices in web development. It provides user-friendly interface and easy access to the application from different kind of internet connected devices (mobile phones, tablets, desktop computers). Several user roles are available, which allows for authorized access to appropriate features of the application. The technology stack is based on PHP programming language with CakePHP framework on backend, and HTML, CSS, and JavaScript with jQuery and Bootstrap libraries on fronted side. For solving linear programming problems, the LP Solve library is used. The application is deployed on Linux based hosting service with Apache web server any MySQL database server. There are a few desktop application with a lot of modules and very complicated interface for small farmers. Optimilk has very user-friendly interface and it is available for all kind of farmers (including small farmers). The expert team spent about eight months for creating application. It has been available fro users since November 2020.

Sustainable Description: Optimilk is unique web-oriented application for ration optimization of dairy cows in the Western Balkan Countries. It provides an easy access for all kinds of dairy farmers. It does not require farmers to know the methodology of creating ration. They just should fill a few simple values about their cows (body mass, milk yield, fat content in the milk, data about gravidity, age). In same time it is a simple and power tool for reducing feeding costs in dairy production.

WSIS Values Promotion: Category 3 – Agriculture innovations systems and sustainable farming 21. E-agriculture: Ensure the systematic dissemination of information using ICTs on agriculture, animal husbandry, fisheries, forestry and food, in order to provide ready access to comprehensive, up-to-date and detailed knowledge and information, particularly in rural areas. Public-private partnerships should seek to maximize the use of ICTs as an instrument to improve production (quantity and quality).

WSIS Action Lines: 3, AGR

SDGs: SDG2, SDG8, SDG12

Stakeholder Type: Private Sector

Country, Region: Bosnia and Herzegovina, Eastern Europe



Meteobot

Prointegra Ltd. develops Internet of Things solutions with focus to sustainable agriculture and farm management. The main products of the company are weather stations for precision farming with brand name Meteobot. Meteobot is state-of-the-art product which use a simple and cost-effective way to get meteorological data seamlessly transmitted from the fields to the smart device in users' hands. It combines data from the fields, orchards or vineyards with a reliable hardware and an intelligent software to help farmers make data-driven decisions in order to determine the best time to plant, spray, fertilize, irrigate and harvest. By the assembling of the weather stations are used only high-quality components from established suppliers of sensors. The products have proven EU origin and unique unrivalled level of value for money targeted at the needs of even the smallest farmers. The weather stations give local information about unlimited historical data, real time weather data and 10-days weather forecast via cloud server and Meteobot mobile app for Android and iOS. Meteobot app securely stores the data from all weather stations, for an unlimited period of time. Thus, there are no gaps or omissions – as compared to manual records keeping on paper. The mobile application is with intuitive user interface and provides farmers with information from their weather stations organized in graphs and tables. There are calculated such important agronomic indicators as temperature sums (growing degree days), cumulative rainfall sums since beginning of growing season or seeding, evapotranspiration, dew point, etc.

Website: https://meteobot.com/

Target Beneficiary Groups: RURL

WSIS Values Promotion: The usage and deployment of ICTs should seek to create benefits in all aspects of our daily life. ICT applications are potentially important in government operations and services, health care and health information, education and training, employment, job creation, business, agriculture, transport, protection of environment and management of natural resources, disaster prevention, and culture, and to promote eradication of poverty and other agreed development goals. ICTs should also contribute to sustainable production and consumption patterns and reduce traditional barriers, providing an opportunity for all to access local and global markets in a more equitable manner. Applications should be user-friendly, accessible to all, affordable, adapted to local needs in languages and cultures, and support sustainable development. To this effect, local authorities should play a major role in the provision of ICT services for the benefit of their populations.

WSIS Action Lines: AGR

SDGs: SDG2

Stakeholder Type: Private Sector

Country, Region: Bulgaria, Eastern Europe

Agritools Project

The Agritools project is a virtual center where people can exchange information and make contact with other ICT users working in the countryside. Agritools is the first multimedia research project that tries to explain how innovative African technologies and technology-based start-ups are revolutionizing the agri-business sector and promoting the development of rural cultural and political values. The overall objective of Agritools is to investigate the resulting impact that this digital revolution is having on the lives of local people and their relationship to land, nutrition and traditions. The secondary objectives are: - To educate, inspire and encourage youth to contribute to the growth of the primary sector through ICT innovation. - To give a voice to the local population, offering them an opportunity to share their experience and knowledge to a wide audience (local, global). - Stimulate curiosity about Africa by deconstructing stereotypes in the international media. Agritools is creating a new model for sustainable agricultural development by facilitating innovation in the agricultural sector, networking farmers using technology to change primary sector practices and telling the story of how digital innovation is transforming agriculture.

Website: http://www.agritools.org/le-projet

Target Beneficiary Groups: RURL

Replicable Description: The Agritools project is replicable in two (02) steps : a) A group of people, a planter or an organization that leads an ICT project in the primary sector (Agriculture, fishing, livestock) should write a story and send their experiences to be published in the Agritools charter and in the e-agriculture platform, with the possibility of making an innovative network and give visibility to their project. b) The next step is the creation of local centers for young people interested in the subject, who will be able to explore the sector and sensitize other young people to work in agriculture. Agritools is open to welcome people from across Africa interested in starting a local group and replicating Agritools in their country.

Sustainable Description: The Agritools project offers future generations (younger generations) a huge opportunity to create new ways of doing business, giving them the need to reclaim their land, give value to that land, and help enhance local development, where technologies and innovations are able to offer new and fun solutions as opposed to the older generation where farming was generally considered an occupation with little possibility of success.

WSIS Values Promotion: The Agritools project promotes WSIS values through e-agriculture with cell phone applications that improve agricultural services provided in rural and remote areas. Also, the Agritools project has opened several Facebook groups where organizations and young people involved in the sector can exchange information, discuss how ICTs and agriculture meet and work together to solve agricultural problems on the ground.

WSIS Action Lines: AGR, 9

SDGs: SDG1, SDG2, SDG3, SDG4, SDG5, SDG8, SDG9, SDG12, SDG13, SDG17

Stakeholder Type: Civil Society

Country, Region: Cameroon, Africa



Rural Human Settlements Governance Platform

In China, the general quality of rural living environment is not good, with problems such as uneven regional development, inadequate basic living facilities. In some areas, problems are more serious, people's health are facing threat. Rural governance is in desperate need of improvement. China Telecom creates a long-term management and control platform for rural human settlement environment governance based on hierarchical management and execution at the provincial, municipal, county, township and village levels by using and integrating advanced technologies such as "Internet of Things, cloud computing, big data, 5G, and AI" under the "12345+N" architecture. Using technology to solve the pain of rural life and significantly improve the rural living environment. Up to now, the platform has realized the functions of management and maintenance work scheduling, big data analysis for management and maintenance, intelligent supervision and evaluation, code-based mass supervision. The platform covers about 16,3000 villages and has more than 3,310,000 users. The platform provides scientific governance, intelligent monitoring and intelligent dispatching methods, which is of great significance to renovating the global rural environment, improving farmers' health awareness, changing environmental pollution as well as saving energy and reducing emissions. The scale promotion of the platform will drive the symbiosis and win-win of the industrial chain such as intelligent iot equipment, application integration and platform services, which has broad space and far-reaching value.

Website: http://www.nccxgh.com

Target Beneficiary Groups: YOUTH, OLDP, WOMN, INDG, DISB, UNEMP, POOR, MIGR, REFG, RURL

Replicable Description: "5G+ Long-term Management and maintenance Platform for Rural Human Settlement Environment Governance platform" has been employed in 109 cities and counties (with subsidiary districts) in Jiangxi Province, with a coverage rate of 96.8 percent. It covers about 16,3000 villages, and has more than 3,310,000 followers, and more than 370,000 daily active users (DAUs). The platform will consolidate basic functions to achieve large-scale promotion of standardized services. Along with the continuous evolution of technology, the platform will continue to explore the rural production and life scenes, and combine the characteristics of different regions to continuously update the platform's personalized and customized capabilities, so as to achieve promotion in the whole country and even the world.

Sustainable Description: The platform will effectively drive the development of intelligent Iot equipment, application integration, platform services and other industrial chains. With the expansion of the application scale, the cost will be significantly reduced, and rural areas will be able to easily obtain digital and modern governance capabilities at a low cost. The platform is capable of sustainable production and operation, and continuously promotes UN's sustainable development and environmental protection.

WSIS Values Promotion: Through advanced technologies such as the IoT, big data, and cloud computing, this platform provides scientific governance, intelligent monitoring and intelligent scheduling for rural modernization, which plays a crucial role in improving the overall appearance of the rural environment and farmers' health awareness. In the future, with the continuous promotion of this platform, the global rural environment will be effectively controlled, global environmental pollution as well as energy conservation and emission reduction issues will be changed. In response to the Geneva Plan of Action, which states that there is only one Earth in the universe, human beings share the same homeland, the Earth is the only homeland for the survival of mankind, and cherishing the Earth is the only option for mankind, the platform with its practical results can play an indispensable role in global

pandemic prevention and control, peak carbon dioxide emissions and carbon neutralization worldwide.

WSIS Action Lines: AGR

SDGs: SDG3, SDG6, SDG15

Stakeholder Type: Private Sector

Country, Region: China, Asia and Pacific



5G+AI Smart Rice Cultivation Project

Agricultural products are the material foundation essential for human survival and development, and concern a country's economy and people's livelihood. China feeds nearly 21 percent of the world's population while having less than 9 percent of the world's arable land and 6 percent of freshwater resources. China, as an agricultural power, has a tight supply of food due to dwindling per capita arable land. As a result, developing smart agriculture, improving food production quality, and ensuring efficient and reasonable use of arable land will be critical for China's agricultural development. This project based on 5G+MEC (Mobile Edge Computing) technology and an intelligent AI-based analysis tool, achieves real-time digital planting of rice and vegetables. The smart agriculture management platform, which incorporates data collecting, transmission, interpretation, simulation, and decision-making, is established by intelligently interpreting data, and conducting modelling and decision-making. It achieves targeted, scientific and efficient management of agricultural production, fulfils the objective of improving efficiency, high yield and high quality, provides reference and ideas for the application of 5G and AI in modern agriculture, and also promotes the development of smart agriculture. The platform can automatically store, extract and interpret the massive images, videos and other data collected by front terminals. Independently developed deep learning toolbox (DeepField) is embedded on the platform. Standardized database is connected to all models on the platform, allowing for functions like intelligent counting, crop growth diagnosis, assessment of nutritional level, intelligent identification of plant diseases and insect pests, and intelligent yield monitoring. After implementation, this project has cut operating costs, achieved targeted, scientific and efficient management of agricultural production, and improved quality and efficiency while reducing carbon emissions.

Website: http://www.sh-tramy.com/

Target Beneficiary Groups: YOUTH, OLDP, WOMN, INDG, DISB, UNEMP, POOR, MIGR, REFG, RURL

Replicable Description: Based on 5G+MEC smart agricultural system, this mature project can be directly promoted for application. Once the system is developed, it can be used infinitely. During the promotion process, the system can directly provide platform and data support services for users. In the future, it can be equipped with a corresponding number of data acquisition equipment and matching network for application based on different areas of usage. It can be repeated for simple and convenient use. At present, we have applied 5g + AI smart agriculture in many project, such as smart cabbage and smart tangerine peel planting in Guangdong, smart pig and smart sheep raising in Zhejiang, etc. The AI analysis model of this project has the replicability of a variety of crops, and can quickly adjust the analysis model suitable for crops according to the growth attributes of different crops, which can be replicated and popularized all over the world.

Sustainable Description: Take Shanghai for example, which has a population of over 24 million. The population density increases the demand for agricultural products, but agriculture only accounts for 0.39 percent of Shanghai's GDP. Agriculture workers in China are mostly over 50 years old, and have a poor level of literacy. The labor force is a major stumbling block to agriculture's future development. Solving the food problem has become an urgent task for the development of a sustainable society. The application of 5G smart agriculture reduces the input for agricultural products at the source. Targeted water and fertilizer management based on big data analysis and intelligent identification guarantees more efficient fertilizer use, increases crop quality, decreases the price of agricultural products, and maintains agricultural operations traceability for high-quality and safe agricultural products. At the same time, through the establishment of an innovative development model of "industry university research", the project provides a complete solution to the field of agricultural

production and multi planting scenarios in the field. Compared with other projects that collect crop growth data through sensing equipment, this project mainly collects and analyzes the images and videos of crop growth, and realizes analysis, research and judgment in combination with meteorological, remote sensing and other data, so as to further reduce the project cost. Through the accumulation of materials, the ability of AI image recognition will be more perfect in the continuous training process, and the operation cost will be gradually reduced in the subsequent development.

WSIS Values Promotion: The project scientifically and effectively guides crop planting through artificial intelligence analysis. Compared with the previous empirical planting method, it is conducive to improve crop quality and yield. After the construction platform of the project is applied in Qingmei rice planting base, it is expected to increase production by 5% - 20%. To achieve the goal of end hunger, achieve food security and improved nutrition and promote sustainable agriculture (Goal 2) and goal of ensure healthy lives and promote well-being for all (Goal 3). The relevant research of the world food and Agriculture Organization (FAO) shows that 75% of carbon dioxide (CO2) in traditional intensive agriculture comes from chemical fertilizer, and the application of chemical fertilizer has a great impact on agricultural carbon emission. This project through scientific guidance on the use of water and fertilizer, it is expected to save 10% - 35% water and reduce the application of nitrogen fertilizer by 10% - 30%, effectively reduce agricultural carbon emissions and promote the goal of take urgent action to combat climate change and its impacts (Goal 13). With intelligent machinery instead of labor, agricultural practitioners can remotely operate and control intelligent equipment, significantly improve labor efficiency, and realize the situation of agricultural efficiency, increasing farmers' income and rural prosperity. In addition, a number of technicians who understand both information technology and agricultural production will be trained to expand the scope of agricultural employment. All of this will achieve the goal of Promote inclusive and sustainable economic growth, employment and decent work for all (Goal 8).

WSIS Action Lines: AGR

SDGs: SDG2, SDG3, SDG8, SDG13

Stakeholder Type: Private Sector

Country, Region: China, Asia and Pacific



Agricultural and rural big data platform

China Telecom's "agricultural and rural big data platform" is committed to improving the local government's digital governance level and governance capacity in the development of agricultural and rural modernization. Relying on China Telecom's high-speed ubiquitous, green and low-carbon, safe and controllable intelligent comprehensive digital information infrastructure, the platform has completed the indicator management system The organic integration of big data public base, visual decision-making platform, thematic analysis platform and comprehensive service platform, as well as the multi span collaboration of N application scenarios involving government governance and benefiting the people, including industrial revitalization, grass-roots governance, rural harmony, rural management, land reform, property rights management, and social services, to achieve the aggregation, integration, mining and application of various information elements of agricultural and rural production, operation, management, and services in the region, It has accelerated the interconnection, sharing and opening up of various intergovernmental information systems and data resources, effectively improved the utilization efficiency of agricultural and rural government information resources, and improved the government's digital and intelligent service efficiency. At the same time, it also focuses on strengthening the construction of GIS time-space analysis matrix and comprehensive evaluation index algorithm in key areas such as farmland protection, soil survey, agricultural situation scheduling, seed industry supervision, one village and one product, rural housing reform, livestock product circulation and eliminating the risk of low-income groups returning to poverty, so as to promote the rational and efficient allocation of various resource elements in the region, and improve the government's ability to address the systematic, structural The ability to monitor and respond to persistent "three rural" issues.

Website: http://www.chinatelecom.com.cn/

Replicable Description: The platform takes MuleEsb as the core control component to realize the process scheduling and control of acquisition, verification, compression, upload and other acquisition tasks. Protocols and data format adaptation and conversion are implemented through the various kinds of protocol components provided by MuleEsb. By integrating the efficient ETL tool Kettle, parallel data collection, collection log, anomaly control, state report and other functions are realized. With the help of Mule itself as a container, run web management tools and combine webservice and other technologies to build collector management components such as spring timer, realizing collector remote management, rule synchronization, configuration management, collection catalog synchronization, collector upgrade and other functions. Overall, the platform's architecture allows for partial orchestration, ensuring its replicability.

Sustainable Description: The agricultural and rural big data platform takes Internet big data and artificial intelligence technology as the means, takes rural revitalization, precise governance, and smart services as the main line, realizes online, palm and fingertip village affairs, provides digital governance carriers for millions of grassroots workers, and provides convenient service assistants for hundreds of millions of farmers and rural tourists. The platform adheres to scientific, precise and collaborative approach, leads and practices rural digital reform, continues to consolidate the Party's ruling foundation in rural areas, strives to meet the needs of farmers for a better life, and creates the most innovative and people-oriented solution platform. In addition, through the continuous operation of the platform and the introduction of more data, more exploration and application can be carried out in people benefiting services.

WSIS Values Promotion: Focusing on the overall construction requirements of "clear base, clear situation, accurate problem, practical measures, and good effect", the project has

completed the construction of data center, visualization platform, information display platform, service platform, and indicator management system through the "1+2+N" construction plan, formed a digital rural big data information resource system that can be combed, dispatched, and easily integrated, and built a cross departmental and cross regional data resource collection and sharing work pattern, It has realized Tianjin's understanding of the demand for agricultural resources, the real-time agricultural production situation and the implementation of preferential policies. At the same time, the project vigorously promotes the integration of digital technology and agricultural industrial system, production system and business system; Give full play to the role of "Internet plus" in promoting the efficient collaboration and industrialized operation of agricultural production, processing, storage and transportation, and sales, cultivate a group of highly competitive agricultural products industrialization operators, significantly improve the supply capacity and supply efficiency, further broaden the channels for farmers' employment and income increase, so that farmers can easily enjoy various digital services.

WSIS Action Lines: AGR

SDGs: SDG2, SDG10, SDG12

Stakeholder Type: Private Sector

Country, Region: China, Asia and Pacific



Sisa monitor

It is a system of identification and monitoring of pests and diseases in the floriculture. This is an initiative developed in Ecuador, which seeks to evolve agriculture through the use of technology. Sisa Monitor is a technological and multidisciplinary undertaking that combines technology and agriculture. With more than 15 years of experience in these areas, the creators of this initiative base their work on agri-tech. The work of Sisa Monitor is to monitor pests and diseases of crops to improve productivity, save resources and time, obtain reports to meet the control requirements. One of its main objectives is to impact the agricultural world and also have a responsibility to take care of the environment for present and future generations.

Website: http://www.sisamonitor.com/

Replicable Description: Follow the same structure of the App

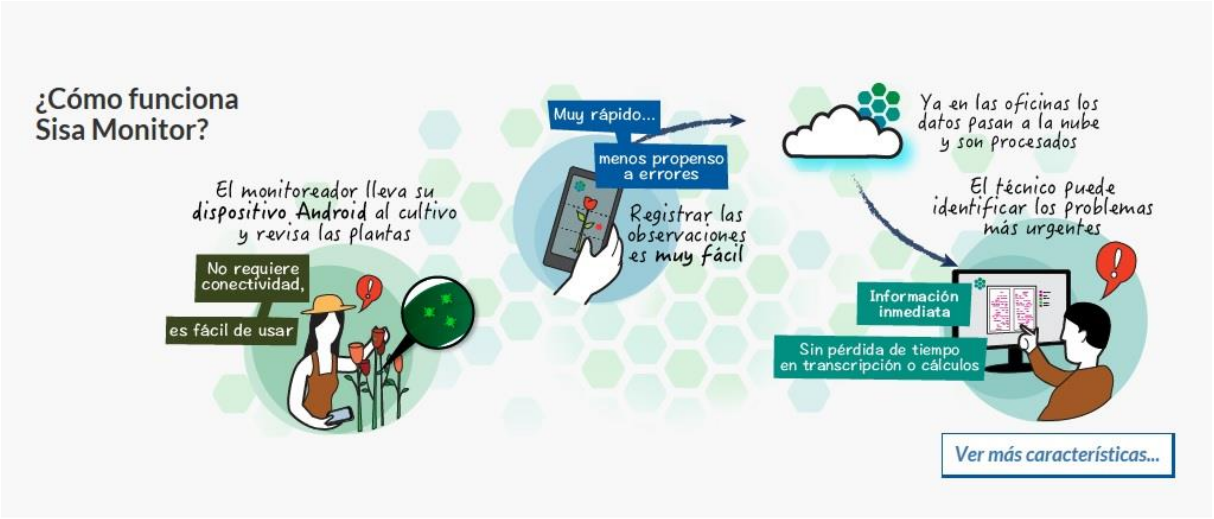
WSIS Values Promotion: The use of techonoly in order to improve agriculture

WSIS Action Lines: AGR

SDGs: SDG2, SDG13

Stakeholder Type: Civil Society

Country, Region: Ecuador, Latin America and the Caribbean





Evolucionamos la agricultura a través de la tecnología, cuidando el a
los alimentos y mejorar productividad.

Krishikatha

Mobile based advisory services “Krishikatha” is being pilot tested under the WBADMI Project to serve the 1,00,000 small & marginal farmers including tribal & women of the underdeveloped areas in West Bengal. It is an IVR based audio message service provided on agriculture, horticulture and fishery etc. by empowering the farming communities in & around the project area to improve their agricultural income. Krishikatha provides agro-climatic zone specific weekly customized voice messages to the registered farmers in Bengali/Hindi/Nepali languages. It includes IVR option (1) advisory messages for their individual questions within 48 hours (2) regular time based advisory on preferred crops, (3) listening frequently asked questions by other fellow farmers (4) listening his own all question & answer. Need based weather alert advisory, market related information are also shared with the relevant farmers. All the registered farmers can avail this free service by giving a missed call to the Krishikatha number 033-6811 6666. He/she will receive a call immediately and he/she can be benefited by using the preferred IVR option as mentioned above using any phone (android phones not necessary). A robust system is created to serve the farming community which also includes whatsApp groups (for approval, discussion, information sharing etc), google meet, necessary trainings, field demonstrations, video messages, direct calling and hand holding support etc. Farmers are encouraged to share the information with their fellow farmers & in the WUA meetings. Krishikatha is currently serving farmers of about 4000 villages. Highlights of the project include: >91 lakh advisory messages sent having 52% call pickup rate; >25000 questions asked by the farmer’s inuding >12000 unique questions. Mostly the farmers are satisfied with the Krishikatha services. Webinars of WUAs were conducted by the Project using Google meet.

Website: https://www.wbadmip.org/krishikatha

Target Beneficiary Groups: YOUTH, WOMN, POOR, RURL

Replicable Description: The project is simple and easily replicable. The project was initially started in 10 District and quickly replicated in all the districts of west Bengal. West Bengal has six agro climatic zones. The issues and challenges are different in all the zones. Since the project is tested in all type of agro zones, it can be easily replicated in other parts of the world. The project doesn’t require high grade mobile phone. Even when the literacy level is low project can be replicated. The hardware and software platform has been used are provided by the BCAS. Which has now become established. Ones the demand for such services will go up. Similar services may also become available and accordingly necessary eco system can be generated. Krishikatha project was conceived to leveraging the power of IT to reach out to more farmers of the wider geographical area. It is to advance in adapting good agricultural support services for their sustainable development. Krishikatha service proved as a free audio advisory service to the farmers in bridging the knowledge gap. It is by providing alerts, timely support/guidance, promoting low/no cost simple practices, reducing risk, reducing cost of cultivation and helping in maximizing the production & income. The project is being able to help in maintaining regular communication with the willing farmers, addressing their concerns and these satisfied farmers are sharing these information with their fallow WUA farmers, their friend/relatives etc. to join this campaign for much better results. Average 16,000 demonstrations are carried out every year by the project covering 23,000 direct farmers only. Project reach increased from 2,362 direct project villages to the total of about 4,000 villages of 22 Districts of West Bengal covering almost 1,00,000 farmers. Considering the current scenario this project may easily reach at least up to 5, 00,000 farmers in next five years’ time.

Sustainable Description: The Krishikatha Project is implemented by WBADMIP, a State Government initiative with the support of the World Bank. It is a well performing project

recognized by Department of Economic Affairs, Government of India and the World Bank. Four Water Users Association (WUAs) promoted by WBADMIP received National Water Award in last two years. The project is the only example in the country which is continued with state funds after the withdrawal of the externally aided project due to its quality delivery acknowledged by the state. Quite a few project interventions are already adopted in the state system in the recent past. Considering the success and response by the farmers in Krishikatha, it is sure that this project will be converted in the Krishikatha program within 4-5 years of the project period. With the evolving & simple technological interface using android mobiles, the project has planned lot of new innovations e.g. satellite/remote sensing based advisory with specialized Institutions like ICARDA and facilitating its adaption through quality grass root NGOs to develop simple farmer's friendly tools, their pilot testing and then replicating them with this forum. The above initiatives have motivated the project team to hold webinars of the farmers in different agro climatic zones to have a detailed understanding about the challenges faced in agriculture support services activities in these area. Under the Krishikatha initiative hardware & software platform has been created to involve farmers and to bridge their knowledge gap. System of experts works at the back end to prepare the advisories. All this has been done in project mode under the umbrella of WBADMIP. Now that the system has matured, the same may be handed over and institutionalized in the department of agriculture. This will formally became the part of the government structure which will ensure its future sustainability.

WSIS Values Promotion: The project makes use of the state-of the art, hardware & software platform to bridge the last mile connectivity. The objective is to resolve the knowledge gap amongst the farmers to help them make judicious investment and incorporate best practices. This is going to ensure sustainable agriculture horticulture and pisciculture practices. This matches with the values WSIS promotes. Krishikatha project of WBADMIP is supported by the World Bank with the objective for sustainable enhancement of the agricultural income of 2, 50,000 small & marginal farmers including women (18%) & tribal (13%) by providing them assured irrigation facilities and agriculture support services by empowering Water Users Association (WUAs) and Farmers Producer Organization (FPOs). As a strategy the Identified proven good practices after pilot testing in the project area are facilitated for wider adoption through training, exposure visits, farmers filed day on demonstration sites etc. it has its own limitation as the farmers adapting these good practices may require some guidance & handholding support while executing to address the teething problems. Initially the service was open only for the WUA members of the project area but recently it is opened to all the famers of the West Bengal state. Project also can reach to limited number of famers at a particular time period and its replication may be limited to its surrounding farmers/areas. Krishikatha project was conceived to leveraging the power of IT to reach out to more farmers of the wider geographical area to advance in adapting good agricultural support services for their sustainable development. Krishikatha service proved as a free audio advisory service to the farmers in bridging the knowledge gap by providing alerts, timely support/guidance, promoting low/no cost simple practices, reducing risk, reducing cost of cultivation and helping in maximizing the production & income.

WSIS Action Lines: 1, 3, 4, AGR

SDGs: SDG1, SDG2, SDG5

Stakeholder Type: Government

Country, Region: India, Asia and Pacific



Strengthening Capacity for Development of Access to Agriculture Information on Irrigation and Marketing Application

The benefits that farmers can receive when using MATANI.ID are:- Farmers get additional counseling through the app- Extension activities occur in real-time with extension workers and other farmers- Farmers and extension workers gain more knowledge outside of farming activities, such as online marketing and funding- Inclusive activities for farmers to report irrigation conditions directly from the site- Slowly forming a larger community of farmers with the potential for long-term collaboration (close-loop)- Agricultural applications have the potential to be developed more widely in building a digital agricultural ecosystem.

Website: https://matani.id

Target Beneficiary Groups: YOUTH, OLDP, WOMN, DISB, UNEMP, POOR, RURL

Replicable Description: In the trial, the activity reached 6 sub-districts. Continuing this project, this activity was replicated to support the sustainable use of ICT and was developed in 41 districts and in line with the 2020-2024 National Mid-Term Development Plan related to digital transformation.

Sustainable Description: Moving rural products connections from off-line to online to access profitable online markets and services and actionable online exchange of information communication and technology by farmers and rural families in other irrigation areas.

WSIS Values Promotion: Equality in actionable Information: 1. Information Exchange, 2. Product Promotion & e-commerce. 3. Financial inclusion. 4. Forum & social media interaction.

WSIS Action Lines: 1, 2, 3, 4, 5, BUS, LEA, ENV, AGR, 9

SDGs: SDG1, SDG2, SDG3, SDG4, SDG5, SDG8, SDG12

Stakeholder Type: Government

Country, Region: Indonesia, Asia and Pacific

The Dairy Union of Kazakhstan

We foster the use of a free mobile app called Collect Mobile to digitalize our suppliers of raw milk. Dairy factories in Kazakhstan buy milk from hundreds of small farms and having this digital solution saves time for supply chain management and allows dairies to provide better support to small farmers. With support from the FAO and EBRD, we developed standard reports using Power BI to analyze the data. This is helpful to improve food safety parameters and milk and plan milk procurement quantities. We believe the innovation consists in bringing the tool (Collect Mobile) from forestry to agribusiness and in trying to establish a direct dialogue with our farmers, by-passing the middlemen (milk traders). thanks to the survey, developed by the FAO experts, dairies' staff holds a direct dialogue with small farmers and this will lead to relations of trust and mutual understanding. We believe only trust and responsible behavior from both sides of the value chain can result in inclusiveness and competitiveness of the industry as a whole. Our industry association unites milk processors of Kazakhstan. Every year, Kazakhstan's dairy industry buys over 2 M tons of raw milk from farmers, 50% of them are smallholder farmers. Giving them a hand requires knowing them, understanding their performance. Collect Mobile for us is very helpful in that.

Website: https://kazsut.com/

Target Beneficiary Groups: RURL

WSIS Action Lines: 1, AGR

SDGs: SDG2, SDG9

Stakeholder Type: Civil Society

Country, Region: Kazakhstan, Asia and Pacific

МОЛОЧНЫЙ СОЮЗ
КАЗАХСТАНА

Digital AgroInsurance

Since 2020, a new insurance system in agriculture has been operating in Kazakhstan. The key changes are: 1) transition from compulsory to voluntary insurance format; 2) transition to an online insurance format; 3) subsidizing 50% of the cost of the insurance policy. The members of the Kazakhstan Agricultural Insurance Association (insurance companies, Agroinshurans LLP and Malakut insurance broker) and such international partners as Swiss Re (Switzerland), Munich Re (Germany), Hannover Re (Germany) and Wandersat (Netherlands) developed index insurance products moisture in the soil, which is determined and monitored through satellite monitoring. Thus, according to the results of 2 years, 265,000 hectares were insured in the amount of $1.3 million, of which 50% was paid by the state. These 2 years in Kazakhstan there was a severe drought and payments to farmers amounted to more than 3 million dollars.

Website: https://agro-insurance.qoldau.kz/ru/insurance-product

Target Beneficiary Groups: RURL

Replicable Description: After the positive experience of digital insurance using satellite monitoring, together with Swiss Re, it was decided to scale the project to other countries.

Sustainable Description: Kazakhstan as a lot of countries all over the world is located in the zone of risky agriculture, where 80% of the risk is drought. Also, in the conditions of global warming, this solution of insurance products is especially relevant.

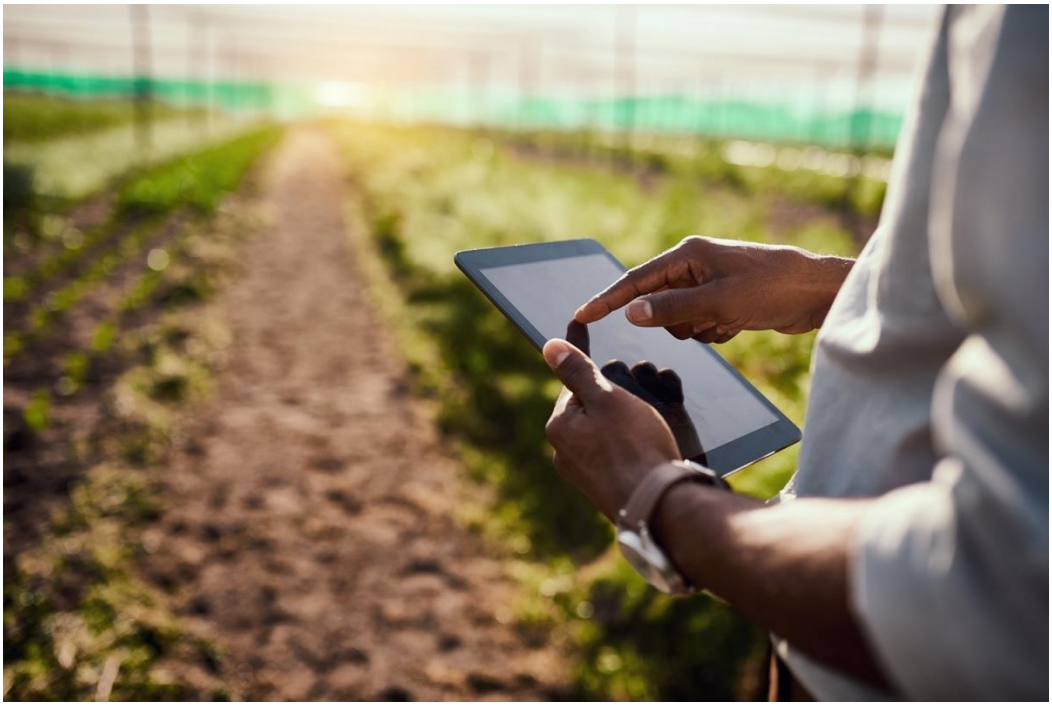
WSIS Values Promotion: This project reduces the weather risks of farmers and saves them from bankruptcy in the face of global warming.

WSIS Action Lines: 2, 6, AGR

SDGs: SDG8, SDG9, SDG13

Stakeholder Type: Private Sector

Country, Region: Kazakhstan, Asia and Pacific



Agronet

What is Agronet? It is a new and exciting innovative concept of business process automation and information sharing in dairy farming. It is a membership driven information and payments platform facilitating a network of interactions and transactions among rural small-scale dairy farmers, agro dealers and processors in the dairy value chain. AGRONET uses mobile technology to facilitate interactions between stakeholders; to provide payments, markets and information solutions in the dairy farming value chain. By so doing, Agronet ensures maximum efficiency, accountability, and transparency in Agribusiness.

Website: http://agronet.zegetech.com

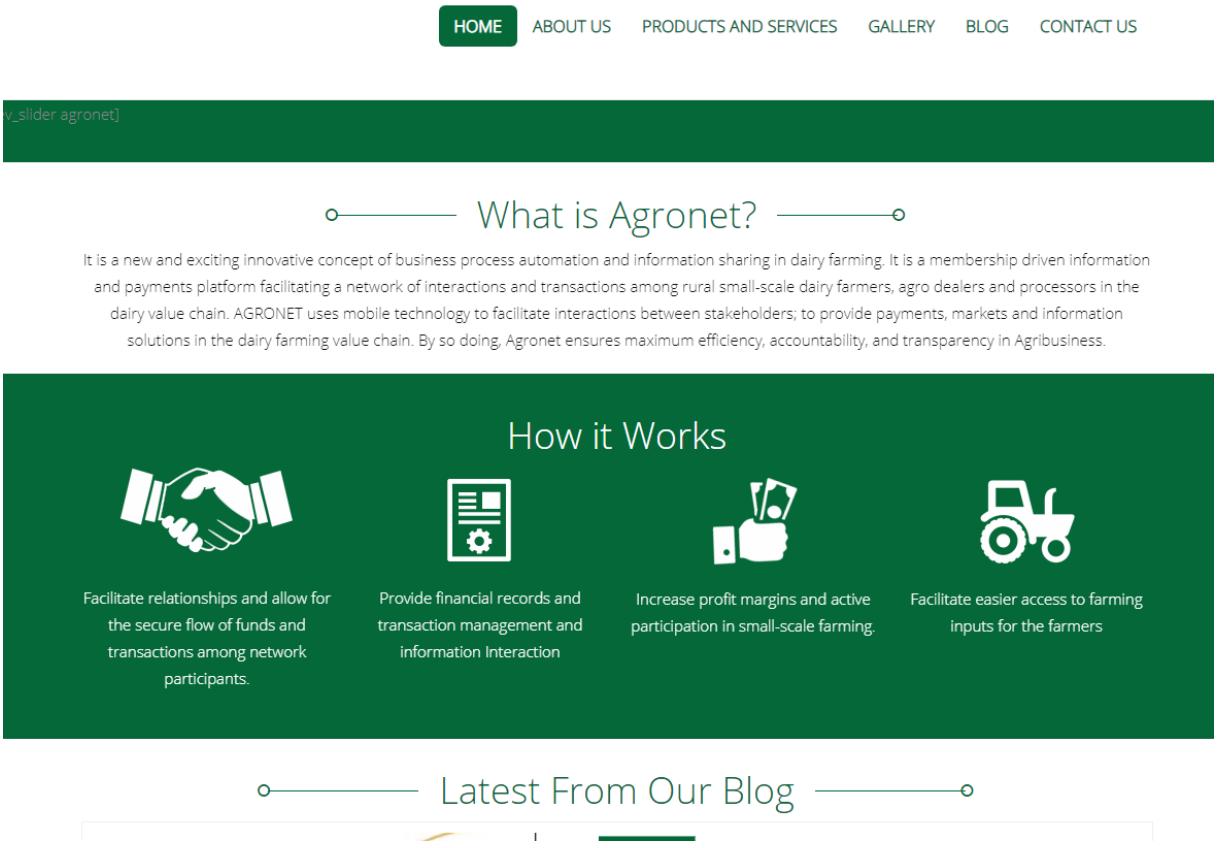
WSIS Values Promotion: It is a membership driven information and payments platform facilitating a network of interactions and transactions among rural small-scale dairy farmers, agro dealers and processors in the dairy value chain

WSIS Action Lines: BUS, AGR

SDGs: SDG2, SDG8

Stakeholder Type: Private Sector

Country, Region: Kenya, Africa



Development of an Animal Identification and Traceability System in Kyrgyz Republic

Animal Identification and Traceability System critically contributes to increased food and safety and security for The Kyrgyz Republic and income of farmers and other stakeholders through improved disease monitoring and control, reduced restrictions export of livestock products and improved animal health and productivity and pasture utilization. Furthermore, the AI&T provides a basis upon which to build future systems for improved livestock management and genetic selection. So, under project the Ministry of Agriculture and Melioration (MoA&M) of The Kyrgyz Republic, was supported to develop a national strategy and action plan for animal identification and traceability (AI&T) and to design the information technology (IT) system required and develop the necessary software for data collection, storage and exchange.

Website: http://www.fao.org/3/a-br254e.pdf

WSIS Action Lines: 1, 5, AGR

SDGs: SDG2, SDG9, SDG12

Stakeholder Type: Civil Society

Country, Region: Kyrgyzstan, Asia and Pacific



FISHERIES STATISTIC INFORMATION SYSTEM

FSIS is a data collection system currently being used for data entry at approximately 150 DOFM enumerators/ offices around the country to input about 150,000 fishermen and aquaculturist profiles, 48,000 fishing vessel profiles, and around RM13 billion a year worth of value of fish landing and aquaculture-production data. FSIS is being used concurrently with a web-based system, known as Executive Information System (EIS), which acts as a data visualization system that can create and display thousands of reports at any one time using millions of data kept in the server by FSIS since 2010. By using the Random Stratified Sampling Method as DOFM's main sampling framework to capture overall fisheries production in the country, FSIS has been programmed and scripted with nationally-approved sampling formulas or equations so that the enumerators in every state and district will only need to collect the data from only samples instead of from 150,000 of fisheries stakeholders which are the fishermen and the aquaculturist and do not need to involve in any manual calculation in the system as the calculation is being automatically done by the FSIS. As a result, DOFM managed to produce reliable fisheries data every month, in every state, every district, every species, every type of fishing gear, and so on, for the purpose of reporting and policy-making since 2010. FSIS is striving and supporting international outcomes towards a paperless working environment which is equivalent to a reduction of tax money expenditure, and minimal work but reliable data to the enumerators. From personal perspectives, FSIS together with the comprehensive random stratified sampling method can be set as examples and replicated in other developing countries to enhance national fisheries statistic activities as this method will ensure minimal expenses and work labor but the coverage will be nationwide and definitely will help the countries to plan better for sustainable fisheries in the near future.

Website: https://www.brs.dof.gov.my

Target Beneficiary Groups: RURL

Replicable Description: FSIS can be replicated in any country that in needs to enhance its national data collection and visualization ability, not only in the fisheries sector but also in any relevant sector. In DOFM case, FSIS is currently being operated by using Oracle for FSIS (Capture Fisheries), and Microsoft Visual Basic for FSIS (Aquaculture), but the decision of the system engine is up to the country to decide whichever is more convenient. But to successfully implement FSIS, the country will need to have a comprehensive listing or framework so that we can develop a sampling framework, size sample, and also design the FSIS that can fit into the country's requirements.

Sustainable Description: FSIS is being used since 2010, and every year FSIS were always updated with new features to fit the current requirement and needs. For instance, 10 years ago there was no requirement for data collection by vessel size, but now the data on vessel size is one of the top requested data by the stakeholders. It has been 12 years and FSIS is still going strong as one of the best data collection systems in the country. The data field and metadata are always improving from time to time, and more and more reports can be generated and fed to the government for more accurate policy and decision-making.

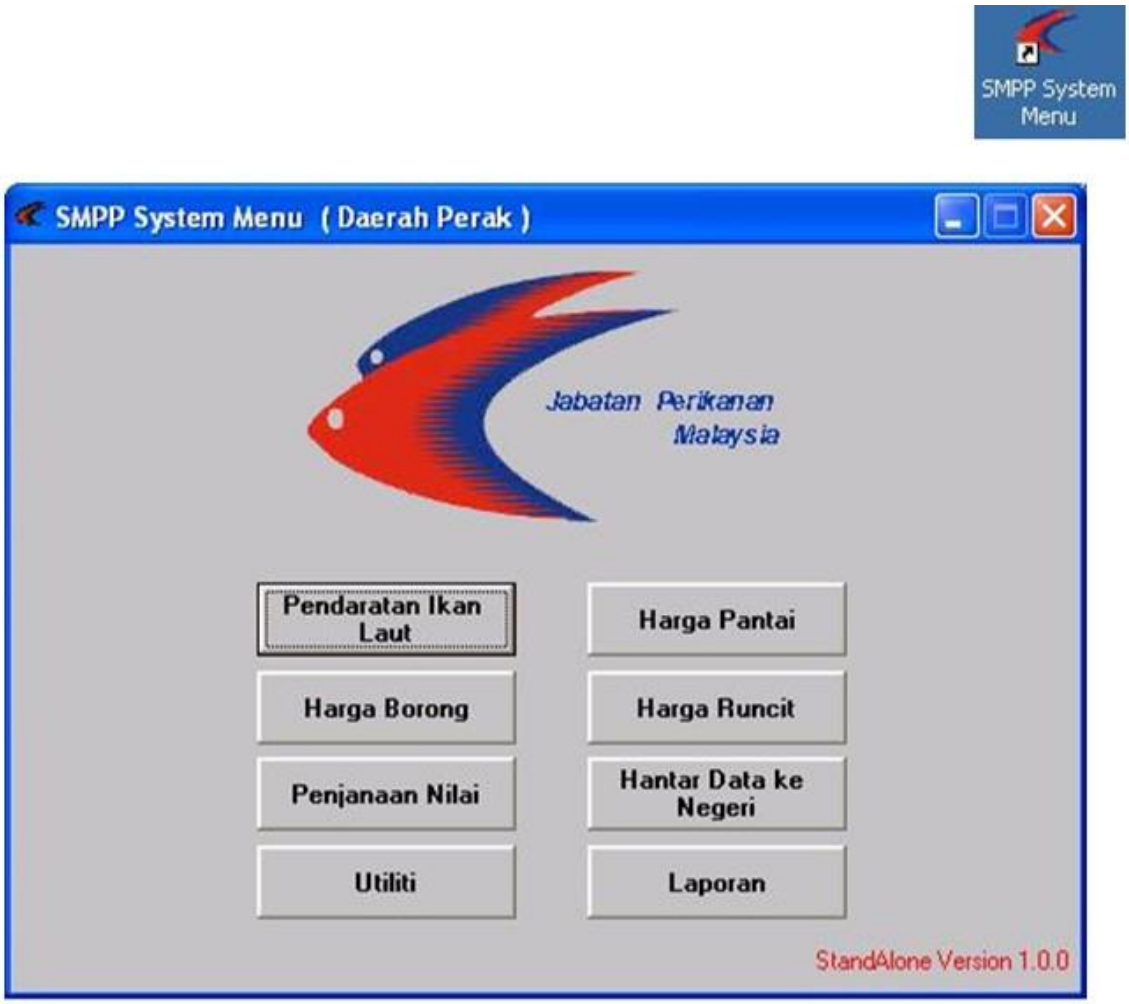
WSIS Values Promotion: FSIS promotes the utilization of ICT in DOFM as well as among the stakeholders. By slowly abandoning the traditional method of data entry and introducing the element of the internet and ICT, the data collection and reporting have drastically enhance time management and working efficiency in DOFM culture, from hours of data entry on hundreds of paper and documents to minutes of data entry and reporting in a single window on daily basis

WSIS Action Lines: 1, 3, AGR

SDGs: SDG2, SDG14

Stakeholder Type: Government

Country, Region: Malaysia, Asia and Pacific



Digital Farmer Community

The DFC solution deploys a community platform providing localized agriculture information and crop-specific advice for farmers leveraging IoT and satellite technology. The platform offers a wide array of services ranging from disease recognition & prevention to crop health analytics & monitoring. DFC will provide access to latest cutting-edge farmer management systems and digitize numerous forms and processes currently existing at the Ministry of Municipalities. DFC will greatly improve crop health and crop yield through continuous monitoring by utilizing advanced IoT devices & multispectral satellite images. DFC will act as a localized repository of knowledge and expert information on topics related to pests & diseases and agricultural best practices .

Website: https://dfc.mme.gov.qa/dfcqatar/#/login

Target Beneficiary Groups: RURL

Replicable Description: Digital Farmer Community could be replicated in any country with farms as it strengthens the community feel by offering a verified and trusted source of information and guide for technical, administrative and commercial enquiries.

Sustainable Description: Digital Farmer Community supports the country be more environmentally sustainable as it provides localized agriculture information and crop-specific advice for farmers which in return impacts the overall growth of local farms.

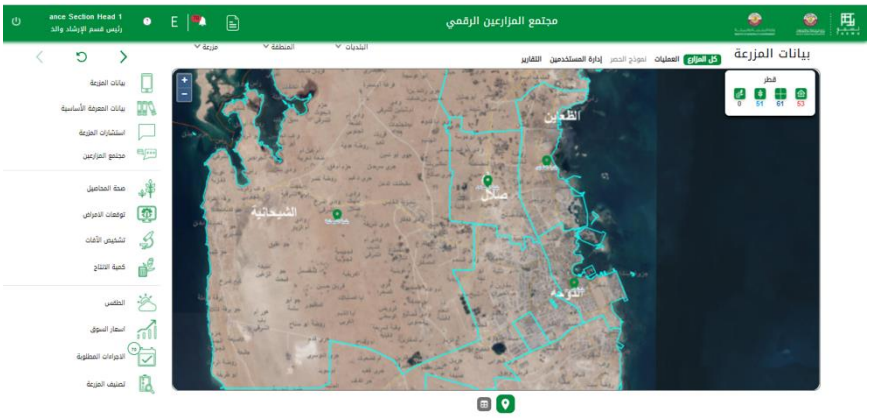
WSIS Values Promotion: The Qatari landscape and environment conditions present key challenges for the agriculture industry, making it less attractive for farmers. Moreover, farmers lack accessibility to specialized and localized knowledge in support of growing healthy crops. The Digital Farmer Community stands as a vital source of national knowledge that all farms in Qatar can access. This is made possible through the application of the Internet of Things (IoT) and satellite technology. As a result, farms can benefit from access to valuable sources of information and to a wide-range of cutting-edge technologies.

WSIS Action Lines: 1, 2, 3, 6, AGR

SDGs: SDG9, SDG11, SDG12, SDG17

Stakeholder Type: Government

Country, Region: Qatar, Asia and Pacific



Providing digital agricultural extension services

The project will contribute to business development and diversification of the financial and investment resources of the college, providing digital agricultural extension services, The project seeks to identify and provide digital extension services to the target groups to ensure the flow of information and the adoption of innovative agricultural technologies. Implementation of a survey study of the reality of digital agricultural extension services. Develop a detailed plan for the implementation of digital agricultural extension services (activating the role of the agricultural extension unit to produce digital extension services (application) for research products in the college, the work of the field day program).

Website: https://www.kfu.edu.sa/ar/pages/home.aspx

Target Beneficiary Groups: RURL

WSIS Values Promotion: The project will contribute to business development and diversification of the financial and investment resources of the college, providing digital agricultural extension services, The project seeks to identify and provide digital extension services to the target groups to ensure the flow of information and the adoption of innovative agricultural technologies. Implementation of a survey study of the reality of digital agricultural extension services. Develop a detailed plan for the implementation of digital agricultural extension services (activating the role of the agricultural extension unit to produce digital extension services (application) for research products in the college, the work of the field day program).

WSIS Action Lines: AGR

SDGs: SDG2, SDG17

Stakeholder Type: Academia

Country, Region: Saudi Arabia, Asia and Pacific



Vegetation Intelligent Analysis System

A system analyzes vegetation and determines land uses based on criteria collected from satellites using geographic information systems, remote sensing techniques, and digital analysis. The system uses these techniques to detect and analyze data digitally to monitor the change in vegetation cover in specific areas. To predict its suitability for agriculture and to give indicators that support the implementation of particular decisions and the commitment to implement the suspension of fodder cultivation.For example, the system finds suitable areas for growing Arabica coffee in the Jazan region, southwestern Saudi Arabia, using Geographic Information System (GIS) and Remote Sensing (RS) and integrates multi-criteria analysis.

Website: https://geoportal.mewa.gov.sa/Account/LoginVM?ReturnUrl=%2F

Target Beneficiary Groups: YOUTH, WOMN, INDG, POOR, RURL

Sustainable Description: The system covering three pillars of sustainability – economic viability, environmental protection and social equity.

WSIS Values Promotion: - No Poverty - Zero Hunger - Ensure healthy lives and promote well-being for all - Promote inclusive and sustainable economic growth, employment and decent work for all - Ensure sustainable consumption and production patterns - Life on Land

WSIS Action Lines: AGR

SDGs: SDG1, SDG2, SDG3, SDG8, SDG12, SDG15

Stakeholder Type: Government

Country, Region: Saudi Arabia, Asia and Pacific



Interregional Smart Agriculture Forum

Worldwide, Agriculture is always deemed as the most powerful tool to end poverty and to provide job opportunities. Many research analyses have found that over 65% of poor working adults in rural areas derive their livelihoods from agriculture, and predict that it has a big potential for enhancing economic growth. However, Agriculture is facing globally and especially in the Arab and African regions too many Constraint issues and challenges such as climate change, water crises and shortages with a heavy negative impact on food safety & security in many countries (20,7% of the Arab region population is suffering from severe food shortage) in spite of their efforts of many enablers to achieve the sustainable agricultural development. As ICT is known as a strategic tool for socio-economic development all over the world, the Arab ICT Organization has launched the ISAF initiative: "Interregional Smart agriculture Forum". ISAF is a multi-stakeholder annually event, aiming to provide a platform for an interregional dialogue about the new technology trends and Smart Agriculture. It gathers high-level personalities from the two regions with common visions to come up with orientations to design the sustainable future of the Agricultural sector within the two regions through the usage of ICT. Thus, to participate in the setting up of effective mechanisms to develop a regional agenda for Smart Agriculture. Many activities are scheduled: International exhibition and conference, B2B meetings, workshops, and awards. the first edition of ISAF was held in 2018 and was concluded by a declaration to support the adoption of Smart Agriculture in the two regions to increase productivity and achieve food security while preserving natural resources and the environment.

Website: http://www.isaf-forum.com/

Target Beneficiary Groups: YOUTH, WOMN, RURL

Replicable Description: As food security & Safety is a common and shared concern, this project/initiative is replicable everywhere and anytime. It is about developing Smart Agriculture systems by using the technology and their applications in agriculture and including them through the national/regional plans in accordance with the financial and human capabilities of every country or any interested party.

Sustainable Description: Sustainability is one of the aims and conditions of this project. It has as slogan "Towards Sustainable Interregional Agricultural Development by introducing New Technology trends". This goal of sustainability will be achieved through many actions as: - Working in collaboration with the Arab and African countries to create societies capable of using the new technological trends to achieve agricultural integration based on creativity and technological innovation and contribute to food security and economic growth. – Establishing regional and international partnerships between countries and regions producing ICT applications for agriculture, and finding mechanisms for financing smart agriculture projects and initiatives that involve small farmers and startups. – Launching innovative projects using the technology in general and the satellite technologies for precision farming. - Establishing institutional frameworks and strategies in line with technological developments to promote the use of smart agriculture as a concept to boost agriculture sustainability and development.

WSIS Values Promotion: This project is a part of the international consensus aimed at eradicating hunger (Goal 2 of the Sustainable Development Goals 2030), combating poverty (Goal 1 of the Sustainable Development Goals 2030), and preserving the environment and natural resources by coordinating efforts in using information and communication technologies in agriculture to achieve integrated and sustainable solutions for the agricultural sector. Hence, through the multiple actions launched within the scope of this project AICTO is willing to participate with all stakeholders in the two regions to create a common vision and

to strengthen their actions towards achieving the food and water safety. It is aiming to involve as much as possible of stakeholders from the two regions and to build relationships with international actors in the field. By that, AICTO is spreading WSIS values while fostering them.

WSIS Action Lines: 2, 4, 6, ENV, AGR, 11

SDGs: SDG1, SDG2, SDG8, SDG17

Stakeholder Type: International Organization

Country, Region: Tunisia, Africa



WSIS Action Line C7. ICT Applications: e-science

Health and sports screening 4.0

The purpose of the provincial health and sports screening is to obtain general health parameters, evaluate the physical condition of children in the provincial educational system, build normative tables in reference to it and carry out an early detection of sports talents. Talent detection is one of the most complex challenges in sports training theory and methodology. For this reason, this project begins with an evaluation protocol made up of scientifically validated tests. This allows obtaining relevant data for the comprehensive assessment of children, in health and sports parameters. In 2022, the 3rd edition of the health and sports screening evaluated 15,548 students, in 274 schools in 130 towns. At the national level, this represents the first post-pandemic study of the physical condition related to health, in addition to being the largest sample evaluated. The level of physical fitness is a concrete indicator of the general state of health of the inhabitants of a place. Hence, generating your own databases is essential, to manage based on scientific parameters. This project combines the political decision and the coordinated effort of different areas of the same government: ministries of Health, Education, Sports and Science and Technology. In order to facilitate access to information, a system was developed that allows uploading, managing, verifying, and consulting data and statistics of the students surveyed throughout the province, in real time. This tool is available as a mobile application and also in a computer version. The data is impacted in the student's digital medical record. The Ministry of Health monitors students with results outside normal parameters; the Department of Sports defines sports practice policies with data from each locality and the ULP High Performance Center in its different sports schools trains the talents found.

Website: http://mapadeportivo.sanluis.gov.ar/

Target Beneficiary Groups: YOUTH, WOMN, POOR, RURL

Replicable Description: Any project framed in public management must be accessible so that it can be implemented in any part of the country that requires it. In the case of health and sports evaluations as a starting point in the development process, they are essential from the training stage to the level of excellence. In this sense, the strategies as a whole, from the local to the provincial level, are planned, projected and implemented, in the design and execution of new spaces that meet the requirements established for said purpose. Applying the evaluation protocol in any part of the country and recording the data obtained is possible thanks to the developed application. With the standardization of tests at an international level, the certification of measurement tools and elements, as well as the technology used; The project can be implemented under equal conditions in any institution or related organization, willing to invest in the aforementioned.

Sustainable Description: The evaluation process uses elements that are easily accessible, and reusable in the daily task, to carry out the tests in any place and at any time of the year. In this way we ensure compliance with sustainable development standards, meeting our present needs without compromising the ability of future generations to meet their own needs. The digital data collection through mobile devices and their statistical treatment, as well as the issuance of reports, are carried out without using resources that produce waste.

WSIS Values Promotion: San Luis is a province located in the center of the Argentine Republic, it has a territory of 76,748 km2 and a population close to 535,000 inhabitants. For 20 years, it has invested in digitizing its society, providing free broadband connectivity and digital services to the entire population. The optical fiber laying exceeds 5,100 kilometers and the new backbone has a capacity of 200 Gbps, which could support 50% of the total Internet

traffic in Argentina. The goal for 2023 is to reach every home with FTTH (fiber to the home) technology. As of December 2022, there are already 29 locations with this technology, as well as commerce or professional offices in the downtown areas of the two most populous cities in San Luis. What was of great value to mitigate the effects of the pandemic on these companies or individuals. In addition, 99% of the centers and schools have optical fiber connectivity to the province's network. All of the above described, optimizes the evaluation process and data collection, also allows the reduction, even the elimination, of many obstacles related to time, distance and access to be evaluated by each child, enhancing the benefits for the entire school community of the province. In this way, those who make decisions can count on the information in real time, especially through the digital clinical history, and the San Luis portal (inhabitant portal), as well as the parents of the students. A digitally mature society can work collaboratively to improve the living conditions of children and young people. We believe that science plays a leading role in the progress of humanity, which is why we are committed to generating scientific knowledge based on the data obtained in both health and sports evaluations; with the purpose of promoting the improvement in the quality of life of those evaluated and the continuous evolution in the sports field, from an early age.

WSIS Action Lines: HEA, SCI

SDGs: SDG3, SDG5, SDG17

Stakeholder Type: Academia

Country, Region: Argentina, Latin America and the Caribbean



Customer Avatar unlock Metaverse Experience

This project has designed and prototyped a human like intelligent customer avatar based on digital twin technologies. Avatar is the most important critical super application software in Metaverse. This data driven and AI empowered human like avatar is a trusted digital twin for customer, and it will become the focal point of customer in Metaverse to ensure the total experience of all stakeholders. As the avatar has full data ownership with trusted identity from customer, it can provide comprehensive customer journey for all stakeholders to ensure a mutual benefit with satisfied total experience. At the same time, it will provide an open framework and interface with an composable software architecture, which can efficiently integrate the third-party capabilities required by customers, continuously enhance and expand the functions of digital avatars, and provide services for customers. The project provides operators with forward-looking ideas and feasible solutions for the innovative customer centric Metaverse business based on total experience. At the same time, it also provides exploration for the technical standards of the Metaverse Digital Man, and provides a reference business model for the future development of the Metaverse. Customer avatars will also bring the following advantages to the future business development of telecom: 1) Human like appearance and natural language interaction function bring convenience to the interaction between customers and enterprises; 2) Through the automatic matching of customer needs and telecom processes, Avatar can achieve the accuracy of recommendation timing and content, become a smart assistant to customers, and improve customer experience; 3) Customers participate in product innovation and design through immersive experience, improve customer loyalty and initiative, enhance customer satisfaction and stickiness to the enterprise, and bring value to the enterprise.

Website: https://myaccount.tmforum.org/networks/22-0-291/resources.html

Target Beneficiary Groups: OLDP, DISB

Replicable Description: This project adopts the universal digital twin technology to build its digital avatar application software for customers, which can be used as the interface for users to interact in the metaverse, as well as the consultant to help customers make decisions, complete the regular operations in the digital world for customers, and become a lifelong partner of customers. This project is based on the telecommunications business of communication operators. By establishing a trusted customer avatar for customers, it realizes the research and application of customer digital twin key technologies based on the comprehensive experience of telecommunications business, unlocks customers' comprehensive experience of telecommunications business in the Metaverse, provides reference for operators' business operations in the real world, and improves operators' marketing and service levels. This method can be extended to all vertical industries and human life in the world. For example, in the financial industry, customers' digital avatars can become consultant to help customer make decisions in financial management. In the retail industry, we can help businesses to make appropriate products and help customers choose the right goods through customers' preferences for goods. In the tourism industry, you can select appropriate tourism products and destinations for customers. In the manufacturing industry, data is provided for product improvement by collecting the experience of customers' digital avatars on products and allowing customers' digital avatars to participate in the product design process, etc.

Sustainable Description: Customer avatars can create consumer demand, break the time and space constraints, expand the interaction between goods and consumers, and greatly improve the added value of products and sales value. For enterprises, it helps them operate efficiently, provide high-quality services and achieve precise marketing. Through continuous improvement of customer avatars, more scenes can be excavated, such as virtual business

hall, virtual conference room, etc., customer avatars can play a role in more life scenes, ensure healthy lives and promote well-being for all.

WSIS Values Promotion: This project focuses on the telecom business of communication operators. By establishing a trusted customer avatar for customers, it realizes the research and application of customer digital twin key technologies based on the comprehensive experience of telecom business, unlocks customers' comprehensive experience of telecom business in the meta universe, provides reference for operators' business operations in the real world, and improves operators' marketing and service levels. At the same time, through the automatic matching of customer needs and telecommunications processes, we can achieve the accuracy of recommendation timing and content, become a close assistant to customers, and improve customer experience; It also brings convenience to the interaction between customers and enterprises, ensure healthy lives and promote well-being for all.

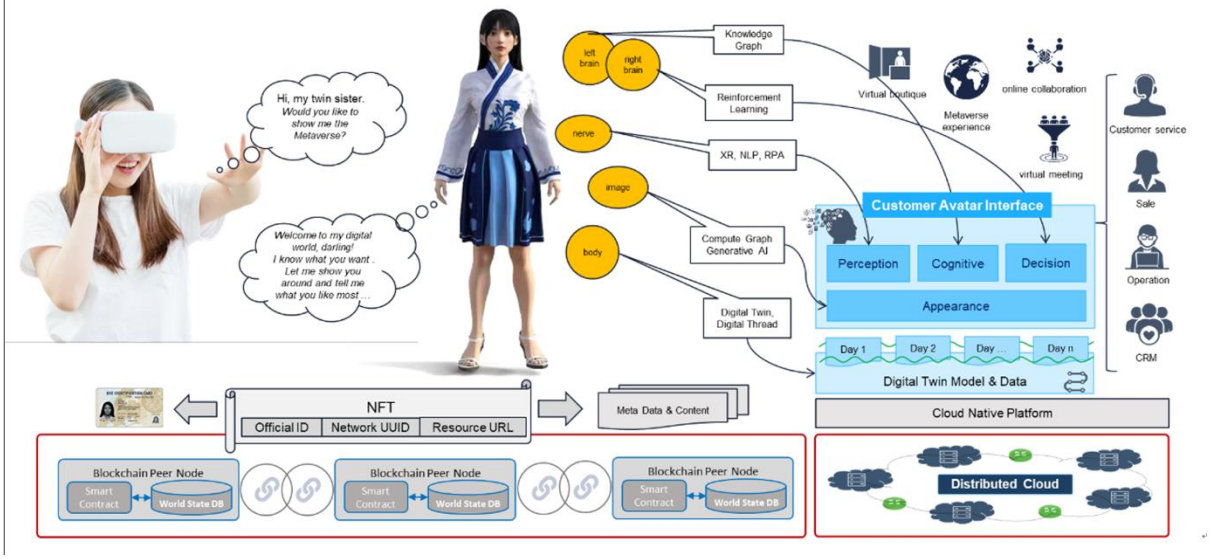
WSIS Action Lines: SCI

SDGs: SDG3, SDG4, SDG8, SDG9, SDG16, SDG17

Stakeholder Type: Private Sector

Country, Region: China, Asia and Pacific

Proposed Solution: data driven self-evolving interactive customer avatar



Computing in Memory: Brand New Computing Architecture for Serving the Future Low-carbon+Smart Society

The objective of this project is engineering application of Computing In Memory (CIM) chips in information and communication infrastructure equipment. Using its intrinsic characteristics of strong computing power and low energy consumption, a CIM chip can substantially reduce the overall operating cost and power consumption of ICT devices, accelerating the establishment of green and low carbon economics. * the relevance of the project to the respective WSIS Action Line as referenced in the Geneva Plan of Action. It is believed that CIM-based information and communication infrastructure can provide easily-accessible and affordable services and reduce social energy consumption.* the results achieved and impact generated since the implementation of project, a memristor-based CIM chip has been developed and its computing power and energy efficiency are higher than mainstream GPUs under the same manufacturing process. Moreover, technical verification of AI algorithms has been completed on this new chip. * relevance to Sustainable Development Goals benefiting from low power consumption and low cost, CIM technology is the key to finding lasting solutions to reducing carbon emission and improving the sustainable development capabilities of information and communication industry. In the long term, it can solve both economic and environmental challenges to a great extent. * ability of the model to be replicated CIM chips can essentially accelerate matrix multiplication and accumulation calculations (MAC) and we have accumulated certain experience in R&D and manufacturing of CIM chips. Therefore from the perspectives of both technical principles and practical experience, it is capable of being replicated on a large scale and easily applied in the construction of information and communication infrastructure. * sustainability of project With cooperation relationships with universities and CIM related enterprises, CIM chips can be constantly optimized and upgraded to adapt to changing market.

Website: http://cmri.chinamobile.com/

Target Beneficiary Groups: YOUTH, OLDP, WOMN, INDG, DISB, UNEMP, POOR, MIGR, REFG, RURL

Replicable Description: From the perspective of universality, CIM chips can essentially accelerate matrix multiplication and accumulation calculation (MAC). Hence theoretically it is applicable to any computing device containing MAC operations. Specifically, it is easily applied in the construction of existing information and communication infrastructure by simply replacing the original computing chips. Moreover, from the perspective of practice, we have accumulated years of experience in R&D and manufacturing of CIM chips, which support us to seek a solution for large-scale manufacturing of CIM chips in the near future. Currently, research is ongoing specifically on adaption of communication coding algorithms, integration of chip and circuit board, and development of tool chains. Once the research is accomplished, the CIM chips will be rapidly and easily applied in the construction of existing information and communication infrastructure.

Sustainable Description: First of all a solid foundation for cooperation has been established between CMCC, Tsinghua University and other CIM related enterprises. This cooperative relationship and complementary advantages support a steady sustainability in designing and development of novel CIM chip, which can further improve energy efficiency and computing performance. Meanwhile, with the expansion and enhancement of the CIM chip industrial chain, enterprises from circuit design, chip manufacturing and EDA are expected to actively participate in the continuous improvement of the project. Hence the CIM chips can be constantly optimized and upgraded to adapt to changing market, and production scale will be promoted to meet computing needs of more ICT devices. Besides, our project can be applicable to more industries which have urgent demand for computing power such as AI

computing of IoT, internet data center, etc. In summary, our project has strong ability of sustainable development.

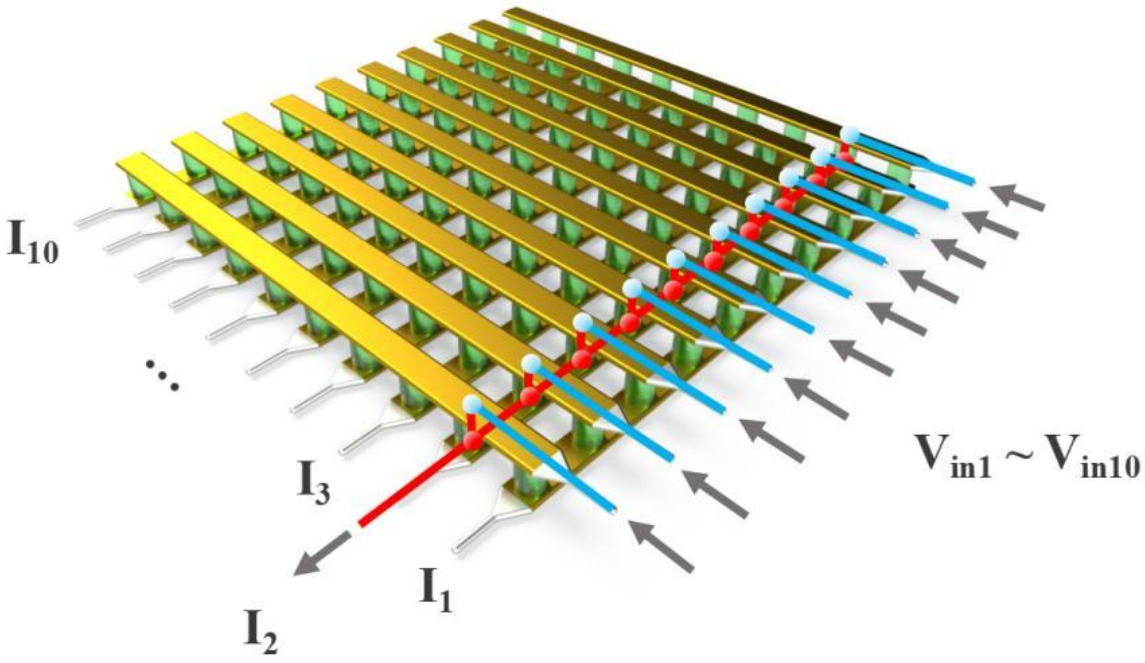
WSIS Values Promotion: First of all we focus on the connection between our project and the overall development of ICT. A novel information service system named as "connection+computing power+capability" is proposed by CMCC in 2021. The CIM chip project is regarded as a significant link and a propeller in building this system, especially in terms of computing power. Currently 5G edge cloud network is widely deployed and the edge computing power nodes have been applied in 23 provinces in China. An autonomous and controllable 5G edge computing platform has been created and call-by-need of 5G network capacity has been realized. With the intrinsic properties of high energy efficiency and computing performance of CIM chip, a large amount of power consumption used for computing can be significantly reduced in construction of 5G edge computing platform. It can be regarded as a starting point of our project. Besides, we have held many forums and summits to promote our project to different industries and discuss possibilities of cooperation. Aware of large advantages of CIM in terms of reducing energy consumption, we try our best to accelerate the integration of CIM technology into more production scenarios and promote upgrading in digital industry. We try to make more people aware of CIM technology and apply it to improve and enhance digital equipment in practical production.

WSIS Action Lines: SCI

SDGs: SDG8, SDG13

Stakeholder Type: Academia

Country, Region: China, Asia and Pacific



Autonomous networks platform based on wireless network optimization behavior learning

China Mobile practices the concept of autonomous network, and sets the overall goal of achieving L4 level of autonomous network capability by 2025.In order to give full play to the value of network optimization experts' experience, fully tap the value of network optimization information and knowledge, support the construction of autonomous network capability, and promote the sustainable development of self-intelligent capability, autonomous network platform based on wireless network optimization behavior learning is proposed. Autonomous network platform based on wireless network optimization behavior learning is committed to improving the intelligent level of network optimization. It pioneered the wireless intelligent network mode of "realizing multi scene production automation based on the whole production line, driven by the work order process, and enabling intelligent production with AI algorithm". For network quality problems, the platform can realize five functions, including "network degradation perception, network problem cause analysis, network optimization scheme decision-making, automatic implementation of network optimization scheme, and network optimization evaluation closed-loop", to continuously improve network quality. The platform carries out life-cycle management on data connection, model training, model validation, model selection and other links in the self-learning process, builds a resilient communication infrastructure, and promotes sustainable innovation. Focusing on the three-tier architecture of "whole production line, production automation, and production intelligence", the project builds an intelligent network platform, explores a rapid sharing mode of intelligent capabilities "from resources to applications, from cloud side to end side", provides a technical model and architecture, has the ability to transplant, and can be applied in other fields.

Website: http://www.10086.cn/index

Target Beneficiary Groups: YOUTH, OLDP, WOMN, INDG, DISB, UNEMP, POOR, REFG

Replicable Description: The platform applies mature artificial intelligence algorithms and API interface technology, around the three-tier architecture of "whole production line, production automation, and production intelligence", based on the whole production line, and driven by the work order process to achieve multi scenario production automation, enables production intelligence with AI algorithms, and realizes the management, visualization Controllable. Through modular design and management, visual editing and rapid combination of process, rule, capability and other modules are realized to improve the self-expansion capability of the system. Create a self-intelligent capability sharing mode of "from resources to applications, from cloud side to end side", and provide multiple solutions covering resource sharing, cloud side capability sharing, cloud side application sharing, end side capability sharing, and end side application sharing. - End side application sharing: different users use the same set of APP, share across provinces in the form of decentralized management, and meet the personalized needs of other provinces with little development investment. - Cloud side application sharing: applications are centrally deployed in the first level cloud, and the data is managed by provinces. There is no need to repeatedly deploy applications, which is convenient for unified maintenance of versions. - Capability sharing: relying on the nine day capability platform and Fujian capability open platform, let good capabilities go out and introduce.

Sustainable Description: The sustainability project is committed to building a universal intelligent network platform, integrating basic data of network optimization, and providing platform services for applications in the communication industry. With the expansion of industry application capabilities, the platform can provide integration and technical services. Using the intelligent network platform, based on wireless network data analysis on the whole

line, tool use on the whole line, and scheme selection on the whole line, we can provide a rich data base for the continuous growth of the intelligent network by means of behavior traces, data traces, active traces, passive traces and other traces. Based on expert experience, build a self-intelligence platform focusing on tracking, learning and iterative evolution, including comprehensive, accurate and standardized tracking capabilities, as well as self-learning capabilities of the optimal problem-solving path, and achieve spiral self-evolution capabilities through production collaboration. In addition, if more data is introduced, the thinking logic of all participants will be restored indiscriminately through the learning of human analysis behavior, forming a benign "variation" of the inherent expert system, so as to achieve the goal of evolution, more exploration and application can be made in smart industry, smart city and other aspects.

WSIS Values Promotion: Autonomous platform aims to better improve network quality. On this platform, through the application of artificial intelligence and machine learning algorithms, network degradation awareness, network problem cause analysis, network optimization scheme decision-making, automatic implementation of network optimization scheme, and closed-loop intelligent network lifecycle management of network optimization evaluation are realized. Therefore, we can accurately find the objects of network problems, analyze the causes of network problems, reasonably propose effective optimization measures, gradually improve the automation level of network optimization work, reduce manual repetitive work, and make important contributions to promoting the transformation of digital intelligence, achieving high-quality development, and building a network power, digital China, and a smart society.

WSIS Action Lines: 2, 3, 4, SCI

SDGs: SDG8, SDG9, SDG12

Stakeholder Type: Private Sector

Country, Region: China, Asia and Pacific



E-Surfing video network - Intelligent Video Networking（IVN）

As an infrastructure, E-Surfing video network has the characteristics of high-speed, ubiquitous, cloud computing/network integration, security and reliability, and nationwide coverage. Based on the base of video networking cloud computing/network integration, China Telecom has built a video networking intensive operation platform, breaking the island deployment mode of traditional video monitoring platforms, with massive deployment and multi-mode access; second-level service opening, accurate positioning; safe and reliable; Cloud edge collaboration and elastic expansion; One network unified management, standard operation and maintenance and other differentiated core capabilities. At present, base on the capabilities of E-Surfing video network, a set of services and applications were launched, including: standardized services such as family security, caring for the elderly and children, home care, watching the pond and guarding the land and etc for 2C/2H., standardized and customized solution services such as sanitation management and emergency for 2B/2G. The project target is to provide common intelligent video capabilities to support public services such as family security, care for the elderly and young, education and medical care, campus and site safety monitoring so that people can enjoy a safe and healthy environment, high-quality education and medical resources of which effective support for the supply of safety management, education and medical care. This project has already achieved and enabled the access, application and management of more than 30 million video resources in 31 provinces of China. The project will continue to provide capabilities for video applications in education, environmental protection, transportation, finance, construction, and other fields. It can be rapidly deployed and expanded, and can be popularized and replicated.

Website: http://www.chinatelecom.com.cn/

Target Beneficiary Groups: YOUTH, OLDP, WOMN, INDG, POOR, REFG, RURL

Replicable Description: The system follows the principle of separation of control and bearer, which forms a separate architecture of the streaming media resource layer and the management support layer, and adapts to the upgrading, smooth evolution and hierarchical networking of the system. It can be rapidly deployed and expanded to provide effective support for the supply of government for educational, health, transportation, and other resources. This project has achieved the access, application and management of more than 30 million video resources in 31 provinces of China. These applications covers 28 types of industrial application scenarios, including transportation, finance, education, construction, maritime affairs and environmental protection. This principle of separation control and bearer with the achievement of this project actual deployment on a large and complex scale, makes it a highly scalable and replicable project. Also makes it highly adaptable and modular based on te needs, resources, and objectives of the market it will be deployed, scaled or replicated. China Telecom will realize access to more than 100 million video terminals based on IVN, drive the industry to more than 100 billion yuan, and promote the improvement of digital governance capability and governance system of the whole society. At the same time, China Telecom will take the open platform and ubiquitous network as the link to build six ecosystems of platform, application, AI, cloud storage, terminal, and video convergence, and give full play to the natural endowment and advantages of China Telecom's platform, network, delivery, and security to jointly build a new ecosystem with partners at all levels.

Sustainable Description: 1. The Outline of the 14th Five-Year Plan (2021-2025) for National Economic and Social Development and Vision 2035 of the People's Republic of China put forward that we will embrace the digital era, unlock the potential of big data, build China’s strength in cyberspace, accelerate the development of a digital economy, a digital society, and a digital government, and transform the pattern of production, lifestyle, and governance models through digital transformation. 2. The new generation of information and

communication technology is promoting the society to accelerate towards the intelligent digital era. Artificial intelligence has entered the accelerated development period, and the development of the communication industry has ushered in new historical opportunities. In the process of a new round of scientific and technological revolution and industrial transformation, the driving force of industry growth will shift from basic connectivity to digital service innovation, scientific and technological innovation will become the core engine for high-quality development of enterprises, green and low-carbon development is the only way for high-quality development of enterprises. 3. Up to June 2022, the Intelligent Video Networking Infrastructure served multiple scenarios such as family, village, community and industry governance, covering more than 300000 administrative villages nationwide, providing service for more than 30 applications, connecting to more than 500 government platforms in such industries as national security, emergency response, housing construction, health care, tourism, finance and so on, driving an output value of more than 20 billion yuan including the upstream of the industrial chain such as core components (Image Sensors, Lens Modules, etc.), core algorithms, and video management chips, the midstream such as hardware and software products, and the downstream such as system integration and system operators.

WSIS Values Promotion: On the whole, China is still a developing country, although some regions are already more developed than others. There are great differences in the level of development among China's regions. For example, the medical and educational conditions in rural areas generally lag behind those in urban areas. These areas have strong needs for improving education and medical conditions. On the other hands, it has always been one of the goals of the Chinese government and one of the social responsibilities of China Telecom to eliminate the digital divide, improve the situation of education and medical care in rural areas and eradicate poverty. The project provides a means to achieve the above objectives. The project is in line with social development goals and has received strong support from education and medical departments. For example, the Ministry of education signed a strategic cooperation framework agreement with China Telecom. " Cloud Education joint innovation lab" was jointly established by China Telecom and the Ministry of education. Based on the strong demand and the support of government departments, the project can continue to expand the deployment and provides opportunities and possibilities for bridging the digital divide and sustainable social development. The project provides the elderly and children in the family with real-time video monitoring, linkage between camera and other universal intelligent equipment, such as doorbell, cat's eye, to meet the needs of security monitoring, elderly and child care, pet care and so on.

WSIS Action Lines: 4, SCI

SDGs: SDG3, SDG4, SDG8, SDG9, SDG11

Stakeholder Type: Private Sector

Country, Region: China,
Asia and Pacific



Master Data Management for Citizen 360 Profiling

Jakarta is an economic and business center with 11,000,000 residents. However, the Pandemic era had an impact on socioeconomic conditions. In 2020, poverty increased by 1.11%, and the number of unemployed increased by 4.43%. More than 500,000 workers were sent home and wages were cut. To deal and overcome with this situation, digital transformation and innovation are needed. However, in facing digital transformation, Jakarta has a problem system integration is not yet optimal. Each unit has its own system and is not standardized so data cannot be shared and used optimally. For example, when determining the list of recipients of Covid-19 social assistance. These conditions make it difficult for the government to determine policies to have an excellent social assistance distribution system and many other sectors. So, Jakarta develops Master Data Management (MDM) to empower government agencies to consolidate and integrate multiple master data sources into a single source of truth. With MDM, the master data from different agencies that are valuable across agencies, applications, and services will be identified and managed in a central repository as high-quality enterprise master data. MDM is an innovative data management and analysis that integrates data on the underprivileged population from various agencies in DKI Jakarta. Data on the poor population from various agencies are cleaned, processed, and standardized so that it has a uniform and consistent format. Then, the data is loaded into a centralized storage system and used to provide policy input regarding the distribution of social assistance funds. MDM in the form of a database of processing and analysis results can be displayed in the form of a dashboard. MDM integrates and standardizes population data so that it can provide a faster, more accurate, and easily accessible data overview. The MDM dashboard and database can bridge the need for distributing social assistance to underprivileged communities in DKI Jakarta in an even and targeted manner.

Website: https://smartcity.jakarta.go.id/

Target Beneficiary Groups: YOUTH, OLDP, WOMN, INDG, DISB, UNEMP, POOR, MIGR, REFG, RURL

Replicable Description: MDM can be replicated in all provinces, and cities in various countries that have problems related to partial systems, so the resulting data is not standardized. In the context of social assistance, accurate data sources influence the targets and targets of social assistance recipients. So that the government can allocate aid more effectively, and can find out whether the assistance provided is on target and evenly distributed.

Sustainable Description: As a central storage system, MDM contains information regarding the identity of underprivileged people who are eligible to receive social assistance. Each Regional Apparatus will represent a certain type of social assistance, and regularly update the identity of the beneficiary. MDM innovation for Social Assistance follows the relevance of data developments and community needs.

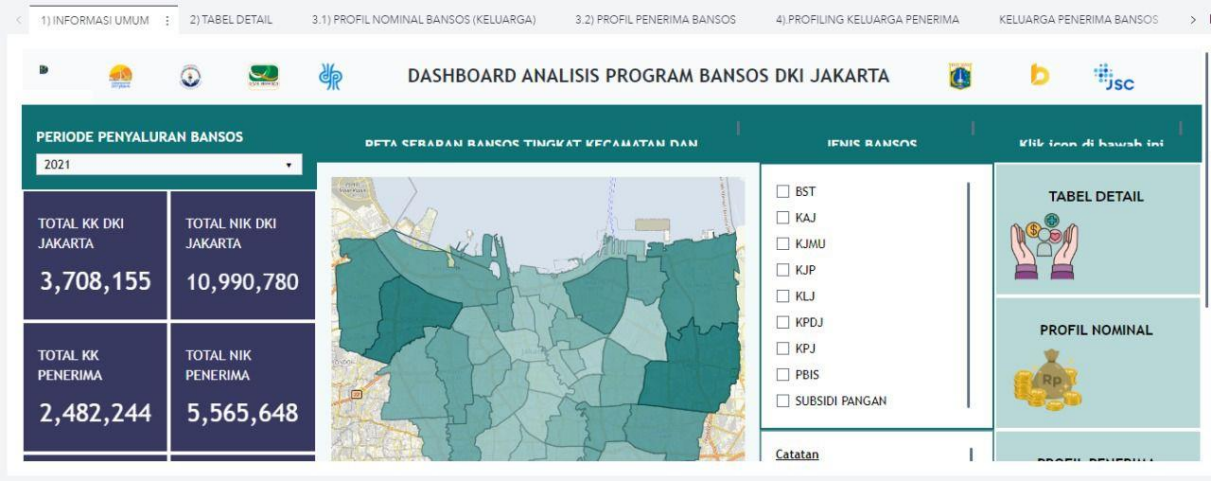
WSIS Values Promotion: MDM is the implementation of government data-based policies for the community. This central storage system is also used as a platform to realize the value of equity because the data stored is actual population data owned by each Agency, so that data can be used as the basis for an even and targeted distribution of social assistance funds. In addition, to realize social assistance master data management, the involvement of various agencies in DKI Jakarta is required to actively update and ensure the availability of data so that it can be processed by Jakarta Smart City, thus realizing the value of shared responsibility.

WSIS Action Lines: SCI

SDGs: SDG1, SDG2, SDG3, SDG4, SDG6, SDG9, SDG10

Stakeholder Type: Government

Country, Region: Indonesia, Asia and Pacific



JSC Data Science Trainee

The development of a smart city system is inseparable from the smart community. Society needs to understand the role of technology in the smart city development system. Through the JSC Data Science Trainee, Jakarta Smart City supports the creation of an inclusive environment that can increase innovation, participation and creativity. within the framework of smart solutions thinking. The JSC Data Science Trainee supports the Government of DKI Jakarta by building the capabilities and skills of the mind to use digital technology effectively. JSC Data Science Trainee is a learning ecosystem that applies digital learning methods and can be developed in various regions to make it easier for civil servants, students and university students to gain knowledge and skills about digital transformation. In general, JSC Data Science Trainee is a platform for building digital literacy and outreach related to smart city development. This activity is a process of increasing the knowledge and skills of the community. JSC Data Science Trainee is a digital talent training activity that aims to improve the capabilities, skills and competitiveness of human resources (HR) in the field of information technology to support digital transformation in Indonesia through public seminars/workshops and case studies using the Data Science approach. Meanwhile, JSC Data Science Trainee is also facilitates the community, including students, in introducing the JAKI application along with its features and uses to facilitate daily activities and also the opportunity to socialize about the development of smart cities. Through these two activities/programs, Jakarta Smart City supports the creation of an inclusive environment that can increase innovation, participation and creativity in implementing smart solution frameworks and supports the Government of DKI Jakarta by building the ability and skills of the mind to use digital technology effectively.

Website: https://smartcity.jakarta.go.id/

Target Beneficiary Groups: YOUTH, UNEMP

Replicable Description: JSC Data Science Trainee can be replicated at various government and country. It also can expand opportunities and public participation in developing digital literacy (digital literacy) and digital skills (digital skills) in Indonesia.

Sustainable Description: JSC Data Science Trainee activities are one of the smart city concepts that are presented as an answer for effective human resource management. With interactive learning methods and important elements for continuing education are easy access to information, the ability to use the information provided efficiently and knowledge is used as the main capital to improve the quality of life.

WSIS Values Promotion: JSC Data Science Trainee ensure inclusive and equitable quality education and promote learning opportunities for all including people in local government and students in secondary schools and universities. JSC Data Science Trainee are urgently needed in the current era in the field of information technology to support digital transformation. We open up more opportunities to gain access to education than just going and studying at university. Our mentors provide tutoring, webinars, and project assistance, as well as delivering lessons on city or urban governance goals and Global Goals events. Data science is a solution for optimizing the use of big data collected in presenting data-driven decisions. The best way to hone and test your data science skills is to work on real problems hands-on with a data science approach.

WSIS Action Lines: 4, SCI

SDGs: SDG4, SDG9, SDG10, SDG11, SDG12, SDG16, SDG17

Stakeholder Type: Government

Country, Region: Indonesia, Asia and Pacific



BADAM

BADAM is an educational online platform to instruct both managers in the private sector and public policymakers on "Data-driven Decision-making". The important feature of the platform is that the instructions are delivered through gamified, completely interactive lessons. The objective of this project is to educate managers and policymakers to become familiar with Data-driven Decision-making to be able to improve their approach to the new and ever-changing problems of the era of data. However, not all managers need to dive into the world of data science as a data scientist does. Understanding the necessity of gathering and using data in a wise way to make decisions instead of intuition-only approach and finding a common language with data scientist to communicate better is what a manager and policymakers needs. Therefore, we use a game-based method to education. A method that could engage a usually busy manager for a short time to, for instance, teach the concept of a statistics measure or a clustering algorithm only deep enough for a person without too much background to get an insight on the concept. We use the possibilities of online learning world, new educational methods and all that the digital world has to offer, to improve the process of decision-making and policymaking through education. Additionally, BADAM will grow into a platform for other educators to build their own courses utilizing the infrastructure of gamifying and interactivity of lessons. Therefore, it could become a data science online school that is useful for people who are unwilling towards traditional education such as students from other backgrounds than STEM, individuals with learning disabilities and older learners. An online school of data science is also a facility for the part of population who does not have the accessibility to enjoy in-person courses due to different reasons. This platform is still under construction. However, an MVP including three basic lesson-games is currently ready. (BADAM means "Almond" in Farsi.)

Website: https://badamedu.com

Target Beneficiary Groups: YOUTH, OLDP, WOMN, DISB, UNEMP, POOR

Replicable Description: Since BADAM will develop into a platform for other educators to build their own courses utilizing the infrastructure of gamifying and interactivity of lessons, the process of making other online game-based interactive courses will be replicable.

WSIS Values Promotion: In the era of Data, where the issues of the new world are fast-changing and unique to our times, and data is being produced everywhere and each moment, it is useful to look at big data as a prominent renewable new resource of the new world. A resource that is getting old and sometimes expires every second, so utilization of such resource before it goes bad, would be the sustainable way to encounter the issues of this new world. Therefore, increasing the awareness and educating those who have the power to decide or are on the way to attain the power, based on the digital world's facilities would be using ICT to advance sustainable development.

WSIS Action Lines: 1, 4, GOV, BUS, LEA, HEA, EMP, ENV, AGR, SCI, 8

SDGs: SDG4, SDG5, SDG8, SDG9

Stakeholder Type: Private Sector

Country, Region: Iran (Islamic Republic of), Asia and Pacific

STEM for Refugees - Sonbola Little Engineer Robotics Program

The STEM for Refugees program that is developed in partnership with The Little Engineer International brings quality 21st century learning to address both emergency needs as well as long term and quality-based learning to Syrian refugee children and youth living in Lebanon. Through this patented program, refugee students learn to apply STEM and Robotics concepts through hands-on, experiential and contextual learning experiences leading to solutions that are applicable in their daily lives. This program aims to create a generation of community actors who are well equipped to contribute to the rebuilding of Syria by also nurturing citizenship values. In the last two years, over 300 students have completed this program and have addressed real-life problems with low-cost STEM-based solutions such as a sensor-activated gate to improve security in refugee camps, a solar powered crane to aid with trash collection in the vicinity and a cost-effective water filtration device. The program has also played a key role in bringing STEM and robotics education to female learners with a gender balanced cohort every year. This program aims to be the building block towards equipping learners with out of the box, practical, sustainable and effective solutions to become agents of change within their communities.

Website: http://www.sonbola-ngo.com

Target Beneficiary Groups: YOUTH, WOMN, UNEMP, REFG

Replicable Description: This project is easily replicable in formal as well as non-formal education institutions where students can benefit from STEM, Robotics and citizenship education. This program focuses on integrating community-action as a critical motivation for applying the STEM concepts that students acquire. Further, the lessons are developed with a focus on mobility, with a Blended Learning and ICT-based approach to learning and an easily transportable tool kit to build the devices. Therefore, this program's curriculum and design can easily be implemented across a variety of contexts. Here are some replicable benefits of this program: 1. STEM is in demand. The primary driver of future economy and job creation is innovations derived from STEM-related fields as stated by most trends and projections. 2. There is an urgent need to direct education interventions towards relevant skills and knowledge for better opportunities and future employability especially for the most vulnerable and marginalized students. 3. STEM jobs do not all require higher education or even a college degree. Less than half of entry-level STEM jobs require a bachelor's degree while others require STEM vocational education. 4. STEM education provides equal access to boys and girls and inspire them to pursue it at any level. Even for those who are not inclined to pursue STEM-related career or vocations, STEM literacy proves to be essential as life skills across all disciplines. 5. It is also a great source to empower teachers with improved professional skills and innovative knowledge. 6. STEM education is vital for the reconstruction phase post any conflict. 7. STEM education nurtures citizenship values.

Sustainable Description: The key objectives of this program are to empower and inspire young refugee and vulnerable learners to commit to education and pursue STEM-related vocations or careers as well as to empower teachers through STEM literacy and teaching and contribute in improving their technical and professional skills. By doing so, this program not only facilitates ICT learning but also focus on improving the existing knowledge base and infrastructure necessary to create the required enabling environment for STEM and Robotics education. The program will be focusing on STEM (Science, Technology, Engineering and Mathematics) by applying 5 Cs - Connect, construct, contemplate, complicate and continue. The course outline focuses on inquire-based learning where students begin with identifying and defining a problem that they face in their day-to-day lives. Next, the curriculum focuses on a variety of STEM concepts that are delivered through a blended learning approaching, involving both digital and hands-on learning. Next students work to apply the STEM concepts

they have learned towards a realistic solution to the initial problem they identify. Lastly, TLEI provides a tool-kit of building blocks and circuits to create a prototype of this solution. Students test their solution in the environment once they develop the model. This model has long term impact as it not only fosters STEM & Robotics knowledge but creates a generation of inquiry-based thinkers with critical thinking, problem solving, innovation and collaboration skills who are motivated to improve their futures.

WSIS Values Promotion: The STEM for Refugees is developed based on Sonbola's commitment to SDG4. Beyond the provision of advanced STEM and Robotics education, this program also develops the digital literacy of participants as it divided between an ICT-based online platform and a hands-on practical experimentation model. This contributes towards removing barriers to access to knowledge that leads to creating an information society for all. Further, this program is based on inclusion. Students who participate in this program as a mix of children and youth who are presently enrolled in formal education as well as those who are out of school. Students who are not enrolled in formal education in these refugee communities are particularly vulnerable to child marriage and child labour and this program has played a critical role in fostering the interest of students in not only science learning but inspires them to re-enter the education pipeline. This program also ensures a gender balance between male and female learners in all cohorts promoting the access to quality education to vulnerable girls as well. By bringing STEM Education and Robotics to refugee communities, this program also focuses on building the capacity of these communities as well as creating an enabling environment for ICT education. This program is provided in the Sonbola Learning Center that is based in Anjar, Bekaa. The Bekaa region has the highest density of the refugee population in Lebanon and Sonbola also provides transportation to students to and from the Center to their homes. This ensures access to this program to the most in-need populations and focuses on equitable participation of all in this program without discrimination. Lastly, this program also addresses WSIS values of building confidence in the use of ICTs as well as bringing the benefits of ICT to daily life for beneficiaries. As lesson outcomes are focused on solving everyday problems, the STEM for refugees program directly applies ICT and science education to the lives of learners.

WSIS Action Lines: 3, 4, 5, 6, LEA, SCI

SDGs: SDG4, SDG5, SDG16

Stakeholder Type: Civil Society

Country, Region: Lebanon, Asia and Pacific



Development of a cough sound artificial intelligence (A.I.) for the detection of COVID-19

Detection of asymptomatic COVID-19 infections is crucial in preventing the widespread of the novel coronavirus (SARS-CoV-2). However, lacking in recognizable clinical symptoms such as fever, sore throat and cough hinders the detection of asymptomatic COVID-19 infections. To date, asymptomatic COVID-19 infections are identified mainly by using laboratory tests through mass screening and contact tracing. Laboratory tests are expensive, time-consuming, and non-selective and have been proven ineffective for asymptomatic COVID-19 infections. Research teams from MIT and Cambridge found that asymptomatic infections can be accurately detected by artificial intelligence (AI) models via minuscule changes in cough sounds even for asymptomatic infections. To improve the detection of asymptomatic COVID-19 infections, while reducing economic burden and barrier of screening, a collaborative research team is formed with the objective to develop Cof'e, a pre-screening AI solution for the detection of asymptomatic COVID-19 infections via cough sound. Cof'e consists of a sound database, an web application, and a validated AI model. The AI model applies a convolutional neural network (CNN) with 15 Mel-frequency cepstral coefficients (MFCC) and has achieved an accuracy of 85.0% in detecting COVID-19 infections. Cof'e is a free and easily accessible online pre-screening solution that can be accessed from https://coughsound.dhri.my/. It can be used on any mobile device such as smartphone, tablet and laptop with internet access. This innovation empowers people to perform self-screening for early detection of COVID-19 infections, including asymptomatic infections at any time without additional cost and barrier. The use of Cof'e is expected to improve the detection rate of COVID-19 in the population while reducing the overall cost of mass screening. The utilization and success of Cof'e also motivates the development and utilization of AI models in other respiratory diseases such as tuberculosis, pneumonia, pertussis, asthma and others.

Website: https://coughsound.dhri.my

Target Beneficiary Groups: OLDP, UNEMP, POOR, RURL

Replicable Description: The AI model and web application created in this project can be successfully replicated for other respiratory infections such as tuberculosis (TB). Tuberculosis (TB) is a bacterial infection caused by Mycobacterium tuberculosis spreading through inhaling tiny droplets from the coughs or sneezes of an infected person. The infection mainly affects the lungs, but it can affect any part of the body, including the tummy (abdomen), glands, bones and nervous system. Research has shown that early TB with lung infection may be associated with changes in vocal sounds including cough sounds. Therefore, the project team has created a mobile application to collect cough sound samples from TB patients. With TB cough sounds, the AI model can be trained and validated to detect early TB infection via cough sounds with great accuracy. Besides, the mobile application can function as a management and tracking application to improve treatment compliance in TB patients.

Sustainable Description: The sustainability of the project depends on the sustainability of the three main components of the project: the cough sound database, the online screening application and the validated AI model. The cough sound library is sustainable as it is hosted by the National Institutes of Health (NIH) Malaysia as a part of the National Medical Sound Library. The aim of the database is to provide a trusted and validated database for newly developed AI algorithms. The development of the online application and AI model is funded by the Government of Malaysia. The project will continue to receive funding and support from the Government during the COVID-19 pandemic as a part of the national COVID-19 strategies to combat and eliminate COVID-19 infections with ICT innovation while reducing the screening cost of COVID-19 for the country. Cof'e offers a free and easily accessible

screening option to all people to screen for early COVID-19 infection even without prominent clinical symptoms. For model sustainability, Cof'e also allows users to contribute validated cough sound samples via the application. The cough sound samples can be use to sustain of the model accuracy. Besides, this ICT innovation will also be incorporated into the Mysejahtera application. MySejahtera is a national mobile application developed by the Government of Malaysia to assist in managing the COVID-19 outbreaks in the country. It allows users to perform health self-assessments on themselves and their family members and to monitor their health progress throughout the COVID-19 outbreak.

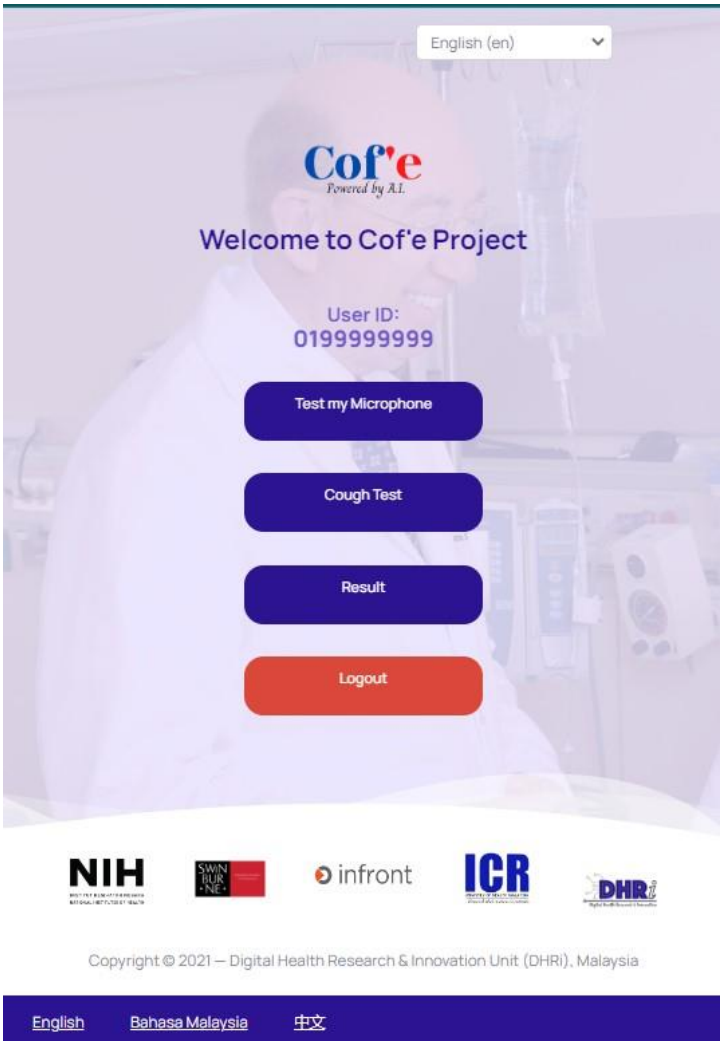
WSIS Values Promotion: The development of Cof'e, a COVID-19 online pre-screening solution powered by ICT technologies such as mobile technology, cloud technology and AI technology is one of best representations that promotes WSIS values in our community. The use of Cof'e signifies a success in harnessing the potential of information and communication technology (ICT) technologies in fighting the COVID-19 pandemic with a reduced cost. Cof'e is people-centered and inclusive as it is designed and built with the principle of "people first" in mind, therefore the application is given to all Malaysians for free. Anyone who wants to use Cof'e for screening COVID-19 can access this solution via the link: https://coughsound.dhri.my/. This screening solution is available in three languages and has easy-to-follow steps to ensure that everyone can benefit from what this ICT innovation can offer. The Ministry of Health of Malaysia plays an important role in fostering a sustainable relationship with local AI experts in the development of Cof'e, while allowing skills and knowledge to be exchanged and enhanced via a series of technology transfer meetings and seminars.

WSIS Action Lines: HEA, SCI

SDGs: SDG3

Stakeholder Type: Government

Country, Region: Malaysia, Asia and Pacific



Intelligent Project Supervision and Monitoring System 2.0

i-Supervision 2.0 is a comprehensive Intelligent Project Supervision and Monitoring System that leverages latest technology such as Artificial Intelligence and Augmented Reality. The system utilizes AI CCTV, Drone and smartphone as the data source in providing data, image and video of the construction project site which include information of project progress, safety compliance, manpower, materials, machinery, and green mission compliance. The data will be stored and analyzed by the AI server to give comprehensive information for a more effective construction project management. The visual data will be analyzed and plotted into 3D model which will be associated with Building Information Modelling model. The 3D model will be transformed and integrated into AR allowing for a real viewing experience. An additional measuring tool allows for virtual measuring on the actual 3D model of the project.i-Supervision 2.0 reduces the need for regular site visits as it provides high resolution images and videos for real-time remote monitoring. Site project team will also provide internal images, video and data from the smartphone to be uploaded in the system. AI Server will analyze the data and provide information for decision making. Although the AI server is physically installed at the project site, the analyzed data will then be uploaded to the dashboard stored in cloud. All relevant parties will use the system as one focal point for project management and decision making. The AI capability of the system facilitates in identifying the quantity of manpower, machinery and materials at a construction site. In addition, a more advanced AI can also identify safety and health compliance and violation. Furthermore, the information can be used in defining project progress and payment claims as well as monitoring of safety, standards and specification compliance.i-Supervision 2.0 is the state-of-the-art project supervision tools that utilizes latest technology for efficient real-time remote project management.

Website: https://www.i-supervision.com/

Target Beneficiary Groups: YOUTH, OLDP, WOMN, DISB, UNEMP, POOR, RURL

Replicable Description: This project is developed to be used in any construction projects. However, the development was based on the Malaysia's construction industry environment. Nevertheless, the system can be customized to tailor the specific use for other country's environment. Replicability is quite straightforward mainly through customization of the module and workflow. In addition, the system can be expanded for new future needs and customization.

Sustainable Description: Construction industry is crucial to ensure economic growth of the country. Thus, there is always a need for an effective project monitoring at construction site. i-Supervision serves as a tool to provide for an intelligent and comprehensive project monitoring. In addition, the technologies used in the system facilitate in also ensuring the sustainability of the system by continuously adopt recent technologies such as AI, AR, mobile devices dan data communication. Thus, the system continuously enhance and remain reliable to provide better solution to the construction industry. The partnership and co-ownership business model, allows for continuous experts and talents collaboration.

WSIS Values Promotion: i-Supervision 2.0 brings all stakeholder of construction projects namely government agencies, contractors, consultants, clients and all stakeholders involve in project accessing the information from one platform aiming to achieve the project objectives. The solidarity of the stakeholder in the application of advanced technologies in project management will lead to a successful project delivery. The use of the system by all stakeholders including at a certain extent by the public, accessing projects information promotes the shared responsibility by all in the development of the country. The introduction of advanced technologies in the system allows for all stakeholders to equally apply them

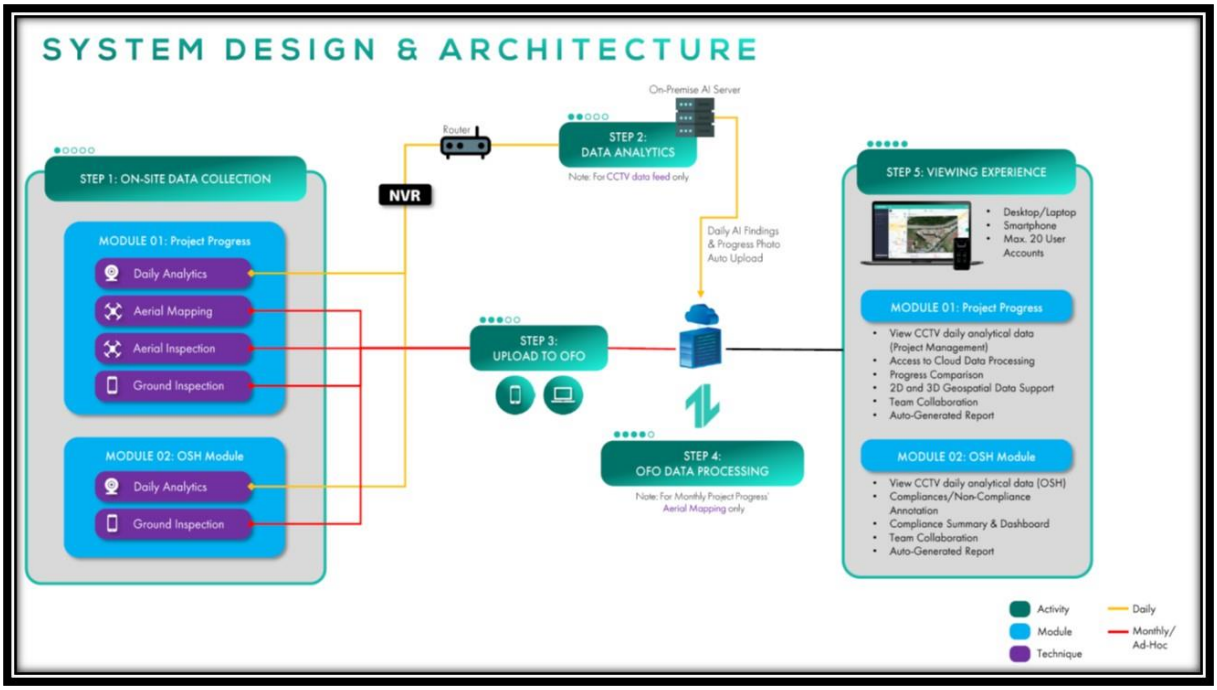
regardless of their ability, gender and status. The geofencing feature in i-Supervision 2.0 enables environmental compliance in construction site which monitor the preservation of certain percentage of green areas at construction sites. In addition, the system also reduces unnecessary carbon emission from transportation due to travelling by engineers and project team to be physically at construction site. AI allows for optimum resource management (Material, Machine and Manpower) by minimizing wastage of resources.

WSIS Action Lines: 1, 2, 3, 4, 5, 6, GOV, SCI, 10, 11

SDGs: SDG8, SDG9, SDG10, SDG13, SDG15, SDG17

Stakeholder Type: Government

Country, Region: Malaysia, Asia and Pacific



Statistics Big Data Analytics

DOSM has embarked the implementation of Big Data Analytics (BDA) since 2016 in order to produce more reliable and timely official statistics. DOSM's BDA project which is also known as STATSBDA consists of three (3) core modules i.e. Trade by Enterprise Characteristics (TEC) which involves integration of high volume of structured data with fuzzy matching technique. DOSM has successfully published monthly and annual Import Export Statistics by State starting 2019 from this module without conducting new surveys. The statistics provide important information for policy makers to formulate strategic plans for states and identify states that dominate Malaysian exports. The second module, Price Intelligence (PI) is the modernization of data collection method using web crawling and web scraping technique. During the previous Movement Control Order (MCO) period, twenty (20) main Consumer Price Index products were obtained through PI module. PMAOS is third module that applies Natural Language Processing (NLP), syntactic and semantic techniques to understand the structure of a text for sentiment analysis from online news and social media. This sentiment analysis platform has been used as an input for the "100-Days Of Malaysian Family Report (Cabinet Members)".

Website: https://statsbda.dosm.gov.my/

Sustainable Description: 1) The output from TEC module is used to produce official statistics on monthly or yearly basis. The statistics provide important information for policy makers to formulate strategic plans at states level. 2) The PI's module give a better insight for consumer-related product prices and to establish new data sources to complement the existing Consumer Price Index (CPI). DOSM manages to study and monitor the trend of prices available online to improve the quality of CPI compilation. 3) PMAOS provides the analysis or assessment of the degree of "happiness" towards online news and social media, particularly on official statistics. At the same time, this sentiment analysis platform is also a shared-service medium used by other government agencies.

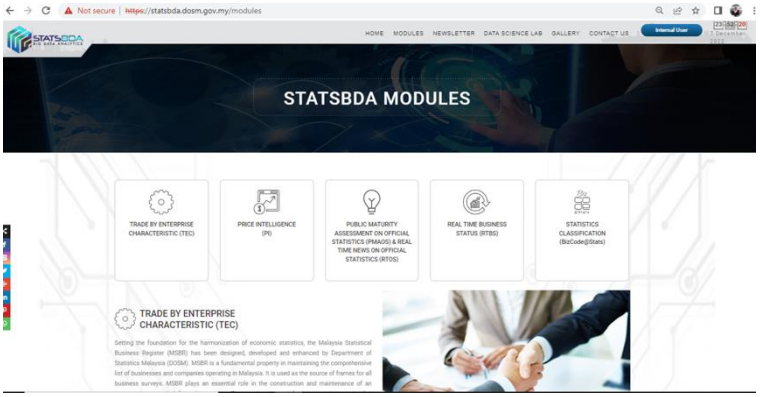
WSIS Values Promotion: The STATSBDA project promotes the benefits that ICTs can offer especially on Big Data technology. The project increases the DOSM's technological capacity to capture, store, process and analyze Big Data for statistical production. Apart from technological capacity, it also provides plenty of opportunities for gaining new skills sets and experience as well as for know-how exchange with colleagues.

WSIS Action Lines: 1, 2, 3, 4, 5, 6, SCI

SDGs: SDG17

Stakeholder Type: Government

Country, Region: Malaysia, Asia and Pacific



Women In Tech Maldives

Women In Tech Maldives (Women in Tech mv) is a non-profit organisation working to inspire, empower and celebrate women in Science and Technology. We aim to accelerate the growth of women in science and technology by creating opportunities that foster innovation and build the community. In the two years it has been since our establishment we have been able to make a difference in the Maldivian Science and Tech sphere. Our members are representatives at various state level advisory boards and we have got the government and the private sector to take Tech as an upcoming and vital industry. We have also been successful in getting various women working in the Science and Tech industry to the forefront, empower them to stand up for injustices at the workplace and got them the credibility and recognition they deserve.

Website: http://womenintechmv.org/

Target Beneficiary Groups: WOMN

Replicable Description: The programs run during last year are all meant to be repeated once a year. But all plans are on hold due to the COVID19 pandemic. Currently we run a fortnightly program `Wednesday's with Womenintechmv` where we aim to provide awareness and also give information on various topics ranging from Internet Security, Marketing and Branding, No-Code practices, etc. We are also exploring ways to conduct the Girls to Code program later in the year.

Sustainable Description: We aim to accelerate the growth of women in science and technology by creating opportunities that foster innovation and build the community.

WSIS Values Promotion: Women In Tech Maldives is the first of its kind in the Maldives, where we advocate for the women working in the Science and Tech area as well as work to educate and inspire more women to join a male dominated industry. We are also one of the most active STEM/ tech based NGOs in the Maldives. Django Girls Male was held for the first time in Maldives this year in January. This was initiated and organized by Women In Tech MV. STEM Fest 2019 was the first of its kind platform for Maldivian STEM startups to showcase their innovations and skills.

WSIS Action Lines: 1, 2, 3, 5, BUS, LEA, SCI

SDGs: SDG3, SDG4, SDG5, SDG8, SDG16

Stakeholder Type: Civil Society

Country, Region: Maldives, Asia and Pacific



Stop dementia with technology

At this moment, more than 55 million people worldwide have the terrible disease dementia. 6 million Americans live with dementia costing $300 billion/year. Research has been focusing on the medical aspects and biomarkers for more than 20 years, so far without result. SolutionIt is well known that dementia is accompanied by behavioural change long before the medical diagnosis of dementia is made 1). The latest smart technology makes it possible to monitor certain behavior digitally, making it possible to detect the first "no fluff" signals at a very early stage 2). Medical interventions are already possible to stop the process of dementia in this phase before irreversible brain damage occurs. So maintaining quality of life is preserved 3)My goal want to demonstrate with a proof of concept the feasibility that digital behavioral markers of ordinary daily activities can detect dementia at an early stage, so that stakeholders and investors feel comfortable to continue with this project. After that, a technological model is needed that monitors a large number of digital behavioral markers 24/7 in order to get a reliable and accurate result and recognize all types of dementia.

Website: http://www.familieparticipatie.nl

Target Beneficiary Groups: OLDP

Replicable Description: What are digital behavioral markers? A digital behavioral marker is e.g. the use of electricity of an elderly person living alone 4) This can be extended with the use of gas, water and the use of smart connected devices e.g. Philips Hue. These activities are already visible in the App "areyouokaytoday". There are a number of studies that show that behaviour changes at an early stage of the dementia process can be measured e.g. the behaviour when driving a car or handling one's own finances. 2) But in practice, of course, the elderly does not want to cooperate because they run the risk of losing their driver's license or having to pay a higher insurance premium. It only shows that digital behavioral markers work.

Sustainable Description: This project is aligned with SDG Goal 3.

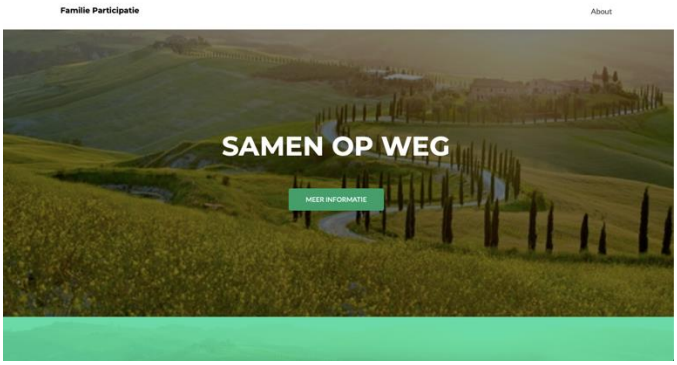
WSIS Values Promotion: This project generates a huge amount of data so Big Data, Data analysis and AI play an important role in the design. Blockchain seems promising 8) Why are digital behavioral markers unique: • The greatest advantage of digital behavior markers are that information on subtle changes in behavioral patterns in the patient's real life at home can be continuously, objectively, and quantitatively collected and evaluated compared with traditional biomarkers • It's user-friendly and cheap and you don't have to leave the house. Role ICT: This project generates a huge amount of data so Big Data, Data analysis and AI play an important role in the design. Blockchain seems promising 8) Validation Biomarkers are desired for validation. However, these are expensive and burdensome for the patient The development of biomarkers is complicated because biomarkers can only be taken in the outpatient clinics and people with non-fluff behavior do not go directly to the outpatient clinic7).

WSIS Action Lines: 1, 2, 3, SCI, 10

SDGs: SDG3

Stakeholder Type: Private Sector

Country, Region: Netherlands, Western Europe and North America



Artificial intelligence (AI) Laboratory

Building capacity in the field of AI which meet the market need which in return will reduce unemployability. Offered workshops in the AI filed to build confidence in AI based applications which in return can support the sustainability and building smart cities. Training trainers to build capacities in different geographical location in Oman. Trainer/students where able to publish research results based on the research conducted in the AI lab. Collaboration with health sector and industry to offer solution through the AI Lab.

Website: https://www.utas.edu.om/

WSIS Values Promotion: Medicine and Healthcare: Classification of radiology and pathology, cancer cell detection, diabetic grading, drug discovery. Research in all areas of Science and Engineering: Scientific data analysis and expert systems. Customer Service: Virtual Assistants, Product recommendation Maintenance: Failure prediction, maintenance planning, anomaly detection. Operations: Resource planning, supply chain and logistics, security and fraud detection. Automated Devices: Driverless cars, Robotics, Video Analytics. Banking, Financial Services, Insurance: Portfolio planning, risk assessment Other areas: Speech recognition, language translation, sentiment analysis, image classification.

WSIS Action Lines: 1, 2, 3, 4, 5, 6, GOV, BUS, LEA, HEA, EMP, ENV, AGR, SCI

SDGs: SDG9

Stakeholder Type: Academia

Country, Region: Oman, Asia and Pacific



Academic decision support system

The Deanship of E-Learning and Information Technology, represented by the Data Management Department, has developed an academic decision support system using the business intelligence system, in cooperation with the University Vice Presidency for Academic Affairs and Development, where more than 20 information screens have been developed that contain more than 200 performance indicators distributed over 9 main applications. Taif University works to follow up the educational process, develop it, and ensure its quality, in the light of academic performance indicators, by offering alternative technical solutions, the most important of which is the academic decision-making support system, which represents a repository and electronic reference system for monitoring, collecting, auditing, coordinating, analyzing and modeling original and reliable data. At the university and converting it into information and knowledge based on evidence and evidence, and displaying it in easy-to-use graphical interfaces to create an environment that helps academic leaders find supportive solutions to make appropriate educational and development decisions in an automatic or interactive way at the university. The system helps support individual and collective institutional decision-making in an automated, appropriate, effective and flexible manner in routine and emergency situations and cases, at all academic levels, and at all stages of decision-making. The system works to facilitate the beneficiaries' access to the required data, information and statistics, and to utilize them and optimally invest them in setting plans, drawing policies, preparing analytical informational models for the educational system, conducting follow-up, monitoring, analyzing, measuring and evaluating performance according to academic performance indicators. And the consolidation of the principles of transparency and accountability.

Website: http://bi.tu.edu.sa

Target Beneficiary Groups: YOUTH

WSIS Values Promotion: Raising the efficiency, quality, and effectiveness of supporting appropriate and unique academic decision-making, which take into account operational efficiency, contribute to meeting the requirements of efficient spending, and help improve the system of academic practices in colleges, deanships, departments, and centers affiliated to the Vice-Deanship, and ensure their sustainability; Which contributes to achieving the goals of the university's strategic plan and the Kingdom's vision 2030 AD.

WSIS Action Lines: 1, 3, LEA, SCI

SDGs: SDG9

Stakeholder Type: Government

Country, Region: Saudi Arabia, Asia and Pacific



Loxion science STEMI camps for girls and boys/Loxion science fair and expo

This educational initiative is conducted in service to the previously disadvantaged African young learners in the public schooling sector at no cost. This affords them the opportunity to engage and interact with the field of Science physically and helps put the classroom curriculum in perspective relative to socio-economic challenges faced in the various communities. With the initiative, we aim to spread the knowledge, excitement and interest of Science, Technology, Engineering, and Mathematics and Innovation (STEMI) to spark innovation and develop young black scientists who are able to identify a problem in their community, analyse data, find solutions and be able to communicate their findings effectively. We aim to engage the public in a celebration of our local Science community, and the way STEMI helps us to better understand our and improve our world. Here we give emphasis to hands-on, enquiry-based activities, and participation in field experiences. We also offer the industry the opportunity to interact and connect with our future scientists by showcasing various exhibitions, specialists conducting demonstrations /experiments, and speakers from various fields talking about relevant scientific topics to the community. This flagship project takes Science from leaders in the STEMI industry in the form of laboratories, universities and research institutions and places it in the heart of township and rural communities in South Africa.

Website: https://brainwavesdev.co.za

Target Beneficiary Groups: YOUTH, WOMN

WSIS Values Promotion: Each person should have the opportunity to acquire the necessary skills and knowledge in order to understand, participate actively in, and benefit fully from, the Information Society and the knowledge economy. Literacy and universal primary education are key factors for building a fully inclusive information society, paying particular attention to the special needs of girls and women. Given the wide range of ICT and information specialists required at all levels, building institutional capacity deserves special attention. Continuous and adult education, re-training, life-long learning, distance-learning and other special services, such as telemedicine, can make an essential contribution to employability and help people benefit from the new opportunities offered by ICTs for traditional jobs, self-employment and new professions. Awareness and literacy in ICTs are an essential foundation in this regard. To achieve a sustainable development of the Information Society, national capability in ICT research and development should be enhanced. Furthermore, partnerships, in particular between and among developed and developing countries, including countries with economies in transition, in research and development, technology transfer, manufacturing and utilization of ICT products and services are crucial for promoting capacity building and global participation in the Information Society. The manufacture of ICTs presents a significant opportunity for creation of wealth. The attainment of our shared aspirations, in particular for developing countries and countries with economies in transition, to become fully-fledged members of the Information Society, and their positive integration into the knowledge economy, depends largely on increased capacity building in the areas of education, technology know-how and access to information, which are major factors in determining development and competitiveness.

WSIS Action Lines: 4, HEA, SCI

SDGs: SDG5, SDG16

Stakeholder Type: Civil Society

Country, Region: South Africa, Africa

BRAIN WAVES
DEVELOPMENT
UNLEASHING A GENERATION OF INNOVATORS

EHS Intelligence: AI platform enabling informed decisions for a healthier society

UAE consistently strives to apply AI in innovative ways across government, and Emirates Health Services which caters to the health needs of the population in the northern emirates supports that vision by using its AI platform 'EHS Intelligence'. It is designed to be the catalyst for the data-driven healthcare transformation that helps end-users to use different machine learning models & insights custom developed for solving key business challenges and providing real-time access to information & knowledge. The program delivers state-of-the-art capabilities with the current approach of – Enabling the onboarding & analysis of data across functions and combining non-traditional data sources for deeper insights (e.g., Clinical–Financial–Operational–HR) Driving digital transformation through data & analytics by delivering transparent, reliable, and fact-based decisions across the enterprise embedding the AI capabilities within the day-to-day operations for informed decisions at all levels - strategic operational and tactical supporting the building of a skilled workforce supported by data-driven learning & training programs implementing an effective, secured and democratized operating model for access to data and AI across the establishment.

Website: https://ehsintelligence.com/

Target Beneficiary Groups: OLDP, DISB

Replicable Description: The intelligent algorithms conceptualized and developed at EHS are technically replicable since they have the ability to achieve the same or similar results using similar datasets and AI algorithms within a similar healthcare environment elsewhere. There is a robust data dictionary and glossary available for all the information which makes it more replicable. The advanced health science knowledge and wisdom in EHS Intelligence are always built on a bedrock of trust, which involves sharing enough details about how research is carried out to enable others to replicate it, verifying results for themselves. This is how the program self-corrects and weeds out results that don't stand up. To elaborate, below are the details of one of the examples- novel artificial intelligence algorithm developed at EHS for the predicting mortality of critical care COVID19 patients. A complete COVID-19 patient registry was built, including patient demographics, comorbidities, medications, labs, and clinical attributes using a defined and reviewed feature set. Correlation and causation analytics were conducted using exploratory data analysis and visual insights were built to understand patterns with respect to the patient group that had fatal outcomes against those patients who survived. The clinical analysis enhanced with the statistical insights provided a breakthrough risk scoring mechanism and this risk score was combined with the other data attributes to build the AI model and determine all the key factors determining the fatal outcome. The AI model built had an Accuracy of over 90% which is replicable using same parameters across healthcare entities to determine the at-risk group of patients.

Sustainable Description: While there is a growing movement to direct AI usage towards 'good' uses (i.e., AI4Good), towards the sustainable development goals, EHS Intelligence moves beyond that and addresses the sustainability of developing and using AI systems in and of themselves. The program takes sustainable development at the core of its definition with the sustainability of the: design, training, development, validation, re-tuning, implementation and use of AI. Highlights of the sustainability focus in EHS Intelligence initiatives is based on: replacing nationally and internationally produced products with those created locally and regionally and designing novel algorithms built regionally taking responsibility for the effects of outcomes on the natural world avoiding the use of exotic sources of capital for the development and growth of program creating outcomes of durability and long-term utility whose ultimate use or disposition will not be harmful to future generations promoting transparency and systematic dealings with risks, uncertainty, and irreversibility promoting and

implementing continuous quality improvement and commitment to the best practices As an example, one of the intelligent algorithms developed is related to anti-microbial use optimization. The algorithm solves typical challenges in any healthcare entity related to Anti-Microbial Overuse (it is estimated that 30% of Inpatients received antibiotics at some point during their hospital stay) High pharmacy costs – Typically 30% of pharmacy cost is related to anti-microbials Non-Standardized Prescribing patterns across healthcare delivery There is a measured post-implementation reduction of 90% of total empirical antibiotics doses administered which is a significant reduction in the non-compliant prescriptions. This project is one of the best examples of a project with a huge focus on sustainability achieved with the use of information and knowledge.

WSIS Values Promotion: - EHS Intelligence program upholds the fundamental values of the Information Society - freedom, equality, solidarity, tolerance, shared responsibility, and respect for nature. - The usage and deployment of the EHS Intelligence platform created benefits in all aspects of life and health in the northern emirates of UAE. The different programs under the platform are extremely important in government operations and providing health services to the public, managing digital health information, user education and training, and management of EHS resources optimally. - One of the key projects developed on the EHS Intelligence platform is ‘Data apps’. At EHS data is more than just the currency of business, it’s the lifeblood of growth, innovation & financial sustainability. As EHS Intelligence emerged as the enterprise data and analytics platform it become a critical driver of competitive advantage and strategic performance, ensuring that all EHS employees, not just tactical or strategic decision makers, have access to actionable data. This is where the concept of ‘Data applications driving democratization’ comes in. Beyond providing users access to the enterprise data systems and EHS data lake, the real goal of our data democratization is to transform all employees to use data in their day to decisions; a pivotal step towards establishing a truly data-centric health enterprise. - Neonatal screening data apps are accessible from mobile and provide real-time compliance monitoring to newborn screening protocols as per WHO and other international and national standards. Such data apps empower the users on the ground with the right information at right time to make informed decisions which directly impact the overall well-being of the population. We are able to achieve more than 95% of compliance with the best practices related to neonatal screenings.

WSIS Action Lines: 3, GOV, HEA, SCI

SDGs: SDG3

Stakeholder Type: Government

Country, Region: United Arab Emirates, Asia and Pacific

Ruyi Care Companion Robot

The problem with the current system is that it is reactive; we wait for people to age, develop health issues and then take them to doctors, admit them into rehabilitation homes or assign them a personal care giver. This has increased the economical as well as the social cost because the demand is much higher than the supply due to the rising number of elderly people globally. However, we aim to make the system proactive so as to reduce the chances of fatal injuries, reduction in mobility and development of diseases by using Internet of Things and digital technology. A preventive care platform is thus developed which can detect early markers of mobility decline so that health care professionals can recommend timely preventive interventions to the elderly. Our platform's core features include: Enhanced care plan engagement, dynamic geriatric assessments for prevention and data driven human interventions, our proprietary 'Mobility Index', which uses Artificial Intelligence (AI) to detect the smallest of changes in a person's mobility. The index is a score that not only predicts falls well in advance but also serves as a guide to monitor progress of someone on a recovery program.

Website: http://ruyi.xavor.com/

Target Beneficiary Groups: OLDP

WSIS Values Promotion: 1. Human aware autonomous navigation 2. Integrating with wearables and smart devices for accurate data collection and ensuring that data privacy remains intact by storing the user data on edge as well as on cloud data platform ensuring decentralized ownership of the data through user's consent. Lastly, ICT's have played a major role in our platform's three tier privacy preserving architecture which includes private and public APIs for data trafficking. 3. Our RUYI home care robot is designed to do: a. Macro assessments through events of daily life. b. Micro health issues related assessments (mobility, stroke, etc.) c. Manage and coordinate the care plan among care team members. d. Assist in self-care by providing feedback, guidance and support. e. Older-adult aware robot navigation and digital interactions. f. Complete data ownership and consent mechanisms for data privacy and trust to ensure older adults are always in control of the data and have opportunities to monetize it as his/her assets 4. The AI technologies for assessment and personalized care plans are independent of the physical hardware.

WSIS Action Lines: 1, SCI

SDGs: SDG1

Stakeholder Type: Private Sector

Country, Region: United States of America, Western Europe and North America



PocketLabs

A platform specifically made for made for Stem students who are finding it hard to study for exams without the physical lab apparatus. During the time of Covid-19, the world went into a lockdown, with universities shut, it was difficult for everyone. It's been more than 6 months that universities have been shut, making it very challenging for students and teachers to progress in courses requiring practical hand skills. For a newly admitted undergraduate student it's very important to explore various domains of his field. That includes practical courses such as chemistry laboratory as well. Any Laboratory course is exciting as we get to apply what we have learned through various experiments. Our project of creating Virtual laboratory is an attempt to provide a platform where we can simulate laboratory hands-on experience virtually. Our aim is to create and provide an environment to extend, improve, integrate, refine, and assist the experimentation process in chemistry laboratory.

Website: https://mypocketlabs.herokuapp.com

Target Beneficiary Groups: YOUTH, POOR, REFG, RURL

Sustainable Description: courses and online simulations are paid for as student progresses with learning.

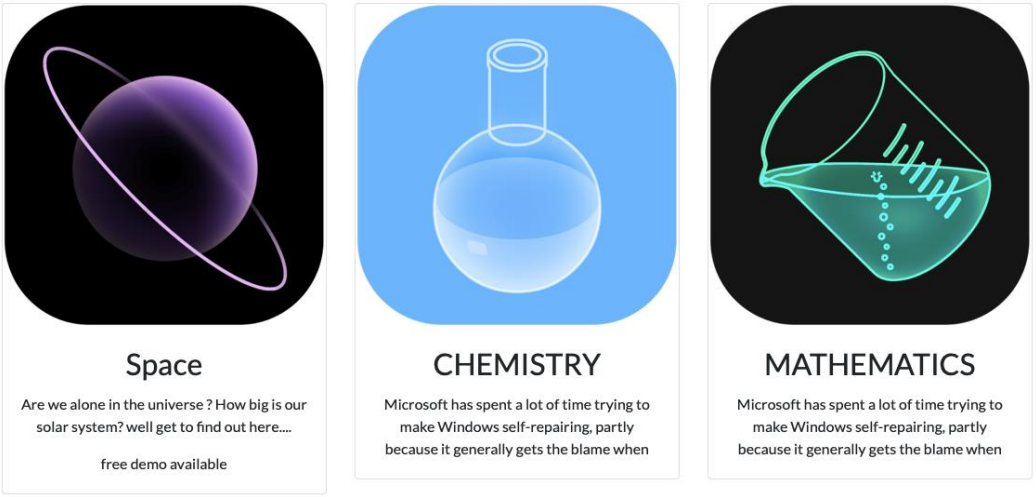
WSIS Values Promotion: The project aims in helping uplifting communities and helping future generation scientist have an amazing experience whilst learning.

WSIS Action Lines: LEA, ENV, SCI

SDGs: SDG1, SDG3, SDG4, SDG5, SDG8

Stakeholder Type: Academia

Country, Region: Zimbabwe, Africa



WSIS Action Line C8. Cultural diversity and identity, linguistic diversity and local content

Soundlines Podcast Channel Project

Aboriginal language is an oral tradition, so it is logical and important for the MALTC to develop a podcast channel focusing on understanding Aboriginal Language. The first series of eight episodes are hosted by the Awabakal Language Program language researchers and educators, interviewing respected, experienced Aboriginal language representatives from the state and nation. The project is in its early stage of planning - so keep visiting this page to follow our progress. Funded in partnership with The Aboriginal Languages Trust (Department of Premier & Cabinet NSW)

Website: https://www.miromaa.org/

Target Beneficiary Groups: INDG

Sustainable Description: digital platform

WSIS Values Promotion: This project is a perfect illustration of how technology can be leveraged to preserve indigenous languages and culture.

WSIS Action Lines: 8

SDGs: SDG4, SDG16

Stakeholder Type: Civil Society

Country, Region: Australia, Western Europe and North America

MIROMAA
ABORIGINAL LANGUAGE & TECHNOLOGY CENTRE

Konnect

Konnect is an online platform for connecting adolescents and young people between ages 13-18 to develop their creativity, capacity, and nurturing abilities through activities and gamification, and to build a secure cyber productive environment, as a government initiative of Aspire to Innovate (a2i) Programme's Future of Education team under a joint initiative of the ICT Division and Cabinet Division. Currently, Konnect has over 38,100 verified contents which are divided into books, life skills, experiments (science content), comics, movies, and news. Launched on February 1, 2018 as a part of efforts to transform the vision of Digital Bangladesh 2041 and advance ICT education, the Prime Minister Sheikh Hasina launched it as a specialized forum for Bangladesh's youngsters and adolescents. This portal encourages learners to be able to enhance their own development with the motto- "I am the Solution." Till date, over 2.7 million students from 50,000 institutions have registered with a majority being female users.

Website: http://konnect.edu.bd/

Target Beneficiary Groups: YOUTH

Replicable Description: This platform can be easily replicated if the opportunity arises for both national and international collaboration levels. The a2i Programme would be able to provide the technical assistance where required.

Sustainable Description: In terms of assuring the proper quality of the platform, the QA activities are carried out through workshops conducted for different professionals and citizens namely the User Acceptance Testing (UAT). All the educational content evaluation is conducted through academician, experts and policy makers. This ensures different types of stakeholders are involved in the product development phases and the product is sustainable to use across all platforms. Digital solutions, such as the use of new algorithms, provide flexible and personalized methods to learning, while the web provides learners with nearly limitless chances to obtain new competences and abilities. With the emergence of 4IR skills, students in Bangladesh are all the more ready to relearn beyond the existing curriculum. However, due to the lack of accurate and reliable resources, the majority of them feel demotivated to look for sources beyond their scope. There is a vivid demand of such a dynamic platform to enable them with sustainable knowledge and training to execute with an opportunity for users to increase their productivity whilst ensuring an improvement in the quality of living. Several international organizations such as UNFPA, UNICEF, Bangladesh Scouts, Children Film Festivals and World Vision have partnered with Konnect to provide content, resources and valuable participation for future development.

WSIS Values Promotion: Using the social media presence in Facebook, Konnect organizes events ranging from mental health well-being to competitions aimed at the new generation of students. Through the Facebook page, students are able to get information and interact with experts on diverse topics. Workshops are carried out several times annually to conduct a demand analysis and use the feedback to update the features, contents and services of the platform accordingly where schools from all over Bangladesh participate. These students are of various schooling backgrounds ranging from- madrasahs, scouts, secondary and higher secondary levels. The 'Ful Bondhu Online Quiz Competition' was a milestone for Konnect, which was arranged by the Prime Minister's Office, Cabinet Division, Ministry of Education and a2i. Konnect had also worked with Bangladesh Scouts, NGOs and INGOs to engage the youth in different social activities such as tree plantation, social movements, creative works, etc to understand about shared responsibilities towards each other and to nature. Konnect hosted programs like 'World Youth Skill Day' and 'World Population Day' that brought together national and international entities with the students which helped to increase social

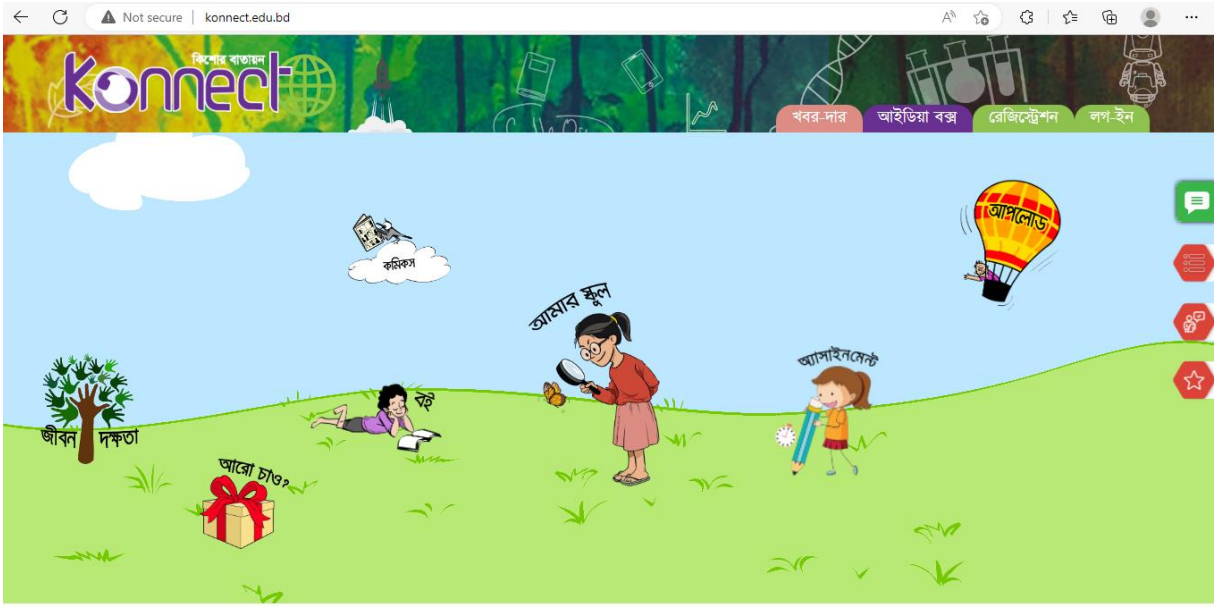
integration and cultural exchange. Within the platform, the learners can explore themselves by attending different events like ‘South Asian Youth Festivals’ where they are able to dig deep into their existing knowledge about SDGs, entrepreneurship, social skills, and social engagement. It proved to assist the learners in upgrading their knowledge and adding value to their lives by promoting tolerance for various cultural aspects.

WSIS Action Lines: 3, 5, LEA, 8, 9, 11

SDGs: SDG3, SDG4

Stakeholder Type: Government

Country, Region: Bangladesh, Asia and Pacific



Empowering left-behind minority communities to participate in the development process through Community Radio

About 11% of the population of Bangladesh consists of minorities, who face discrimination due to their religion, ethnicity, gender identity, and geographical location-based differences. Discrimination persists in the above groups on access to education, healthcare, housing, employment, and legal support. To empower these communities and improve their involvement in the development process, Bangladesh NGOs Network for Radio and Communication (BNNRC) implemented a consortium project titled Empowering Left Behind Minority Communities to Effectively Participate in the development process of Bangladesh (ELMC). The overall objective of this project is – to empower local minority rights CSOs and networks in Bangladesh to effectively engage with left-behind communities and enable their participation in the local governance & development process. Under these initiatives, BNNRC has been supporting community radios to develop radio content like -News, Community opinion, Radio Spots/ Drama, Community Service Announcement (CSA) or Public Service Announcement (PSA), Expert Interviews, Case stories, live discussion/phone in, and fellowship program for youth and youth women considering the local issues and using local dialect so that the community can easily understand the messages. The programs are designed in consultation with and engage the left-behind community people. The issues are Recognition as Individuals, Ensure of health services, Education, Employment and Decent work opportunities, Property Rights, etc. The radio programs both community radios and its Facebook Page created an opportunity to link all stakeholders- Dalit, Plain Land Ethnic Minorities, Transgender & Hijra communities, and their rights National 'Leave no one behind' CSOs, and different Govt. departments at the community level. This project aims to directly reach more than 6 lakh people from marginalized communities and indirectly reach more than 18 lakh people additionally.

Website: https://bnnrc.net/category-14-c8-ict-applications-connecting-voicing-and-empowering-disadvantaged-communities-through-community-broadcasting/

Target Beneficiary Groups: RURL

Replicable Description: Empowering left-behind minority communities through Community Radios in Bangladesh is a community-based on-demand project. The project has been implemented through the engagement of left-behind minority communities like Dalit, Plain Land Ethnic Minorities, Transgender & Hijra communities, Tea Workers, Persons with disabilities (PWD), other listeners, local media, social media users, Govt. officials and community media broadcasters for developing and broadcasting radio episodes. So, the project is replicable all over the world where Radio waves and Social Media (SM) are available and functioning.

Sustainable Description: In this era of the Fourth Industrial Revolution (4IR) and rapid change of global context, Radio programs, and social media content becomes a tool to reach wider audiences for building awareness of the left-behind minority community's effective participation in the development process towards reducing inequalities of the society. Hence Community Radio can play a vital role to make people aware to minimize discrimination in society and cope with the competitive global challenges collectively. As the radio and social media are the most popular media, cheaper, portable, and easy to access so with the contribution of the community the program could be run to remove the social barriers and stigma.

WSIS Values Promotion: Through this intervention, WSIS values (Action line- C8) in Bangladeshi communities are strongly adhered to and promoted extensively. This is done

through promoting cultural diversity and identity, linguistic diversity, and local content of the left-behind minority community to raise awareness of their rights.

WSIS Action Lines: 8

SDGs: SDG10

Stakeholder Type: Civil Society

Country, Region: Bangladesh, Asia and Pacific



The gospel for the hearing-impaired, AI subtitles create new experiences of watching games on an equal basis

It solved the problem of 'inaudible, not clear or inaccurate' for special groups with hearing impairments and people in a mute or noisy environment. China Mobile Migu Corporation is the first in the industry to create AI subtitles for sports live broadcast, and comprehensively improve the accuracy of live broadcast subtitles through innovative research and development of front-end noise reduction, terminology hot words, AI error correction, semantic analysis and other technologies. Improve the level of subtitle translation through translation memory, translation terminology, millions of sports corpus translation training models and other technologies. Realize innovative commercialization of sports live broadcast AI subtitles in the Beijing 2022 Beijing Winter Olympics and Paralympics, the accuracy of Chinese The average accuracy of Chinese characters reaches 96%, as for English words it's 80%,then it was commercialized in live events on a regular basis including the Top 5 European leagues, Champions League and World Cup. provide a good barrier-free viewing experience for hearing-impaired groups and many users. Up till now , AI subtitles has been reported by a dozen of mainstream media including China Daily, Xinhua Net and People's Daily Online, and established a normalized communication mechanism with the China Association for the Deaf and the Beijing Information Accessibility Promotion Committee. and was selected successively as example case of new audio-visual public service by Beijing Radio and Television Bureau, National AI Innovation&Application Avant-garde Zone in Beijing and 'China Quality' magazine

Website: https://www.miguvideo.com/mgs/website/prd/detail.html?cid=739734315

Target Beneficiary Groups: OLDP, DISB

Replicable Description: AI subtitles is based on the architectural mode that can be independently deployed, it simplifies the professional AI subtitles production, lowers it's threshold and costs in the form of platform service, It can provide fast and convenient internal and external access of subtitles productions, supports Web API, Android/iOS SDK, TV SDK, and unity SDK, which meets the subtitle production demands of different business types, realizes product differentiation and improves user experience, it creates highlight functions, and can be replicable

Sustainable Description: Project sustainability is mainly reflected in the following aspects: (1) AI subtitles make its debut in the Beijing Winter Olympics in February, 2022. Then its intents and production has being continuously upgraded, it has been commercialized on a regular basis in broadcasting nearly 600 large-scale international sport events including the Top 5 European leagues, Champions League,Asian U23 Cup, East Asian Cup,WNBA and etc. (2) AI subtitles established a regular communication mechanism with the China Deaf Association and the Beijing Information Accessibility Promotion Committee in order to coordinate development. (3) In order to meet the new needs of a wonderful life and the multi-scenario applications demands which follow-up, including live broadcasting subtitles in English and other languages, cross-language subtitles and dialect subtitles in conference ,subtitles for cross-language barrier-free calls , and barrier-free simultaneous interaction AI subtitles in Metaverse World.

WSIS Values Promotion: From the aspect of the industry: 1. There was no subtitle in the sports live broadcast industry, which affects the normal watching of hearing-impaired groups, it lacks of attention; 2. Pay attention to vulnerable groups, realize barrier-free communication, which is in line with the WSIS values. From the aspect of the technique: Based on the needs of hearing-impaired and other special groups, create a new model of barrier-free and equal game watching, realize barrier-free subtitles in various scenes, and pay attention to hearing-

impaired vulnerable groups; 1. Subtitles for video scenes (1) Chinese and English bilingual live subtitles: In Migu Video’s major international competitions, the Chinese subtitles with its English translation based on Chinese commentary helps hearing-impaired people around the world to enjoy the competition; (2) Sign language subtitle by digital avatar: Based on AI subtitle, we updated the sign language digital avatar, realizing the simultaneous synchronization of the AI subtitles and sign language, The trinity of 'Audio Words and Avatar' accompanies the hearing-impaired people more warmly; (3) Covering all scenes: From the time dimension, it covers live subtitles, full-time review subtitles, and on-demand subtitles for edited highlights; from the client-ends type, it covers mobile phones (Android/iOS), tablets, Web, large-screen and other client-ends to achieve full scenes' coverage; 2. Subtitles of cross-language conference scenes: We extend from video scenes to conference scenes, and from sports scenes to general scenes, to realize cross-language subtitle transcription and translation, and help more people to realize native language communication; 3. Subtitles for barrier-free call scenes: add subtitle capabilities in call scenes to realize multi-language barrier-free calls;

WSIS Action Lines: 8

SDGs: SDG4, SDG10, SDG11, SDG16

Stakeholder Type: Private Sector

Country, Region: China, Asia and Pacific



Huawei Intelligent Information Accessibility Solution

Huawei has developed an Intelligent Information Accessibility Solution for people with disabilities. It has incorporated "accessibility" traits into its product design since 2017 and keeps refining the accessibility features to ensure that all users especially those who has physical disabilities can enjoy the benefits brought by smart devices. For visually impaired users, Huawei has enhanced the ScreenReader feature, to introduce AI capabilities to scenarios that visually impaired users may find challenging. It has developed features such as Photography assistant, Travel assistance, and Intelligent interaction, which can help with image recognition, image Q&A, text recognition, semantic comprehension, face recognition, and object detection. This solution makes it easy for visually impaired users to view images, take pictures, travel, and interact with their world in a highly immersive way. For hearing impaired users, Huawei has provided an intergraded solution including Voice enhancement feature, the Celia Call, AI subtitles and sign language services. Voice enhancement feature targets and compensates for audio of high, medium, or low frequencies based on the nature of the impairment, so that audio can be heard loud and clear. The Celia Call and AI subtitle features support intelligent speech-to-text and text-to-speech conversions, helping users make phone calls, enjoy livestreams, watch subtitle-free videos, and communicate with greater ease. The SignPal Kit is capable of converting Chinese text into sign language that is coherent and grammatically correct in real time, along with natural facial expressions, to ensure smooth communications.

Website: https://consumer.huawei.com/en/sustainability/information-accessibility/

Target Beneficiary Groups: DISB

Replicable Description: Huawei's intelligent accessibility solution includes 21 features and most of them can be easily access in the smartphones. ScreenReader has been adapted to HarmonyOS and EMUI 13, and is supported in Chinese, English, French, and Spanish, with more to be supported in the near future. Voice enhancement has been adapted to certain HUAWEI TWS earphones, and HUAWEI CM33 Type-C wired earphones, and will be supported on more HUAWEI TWS earphones models in the near future. Currently, AI subtitle is mainly applicable to users in the Chinese mainland, and supports English, Japanese, and Korean, with more languages to be supported in the near future. Photography assistant, Travel assistance, Celia Call, and Huawei SignPal Kit are widely used in the Chinese mainland, and are expected to be promoted in more countries/regions in the future.

Sustainable Description: The project was wholly funded by Huawei. All development, management, hosting, updates and further development, were all funded by Huawei. Huawei has opened up the Signpal Kit since October 2021 and announced to open up the Computing vision ability and Natural language interaction ability in 2022. With the opening up, more and more APPs and servers will be benefited from technology and helping more and more people with disabilities. And together, we can build a more inclusive world, a more sustainable world.

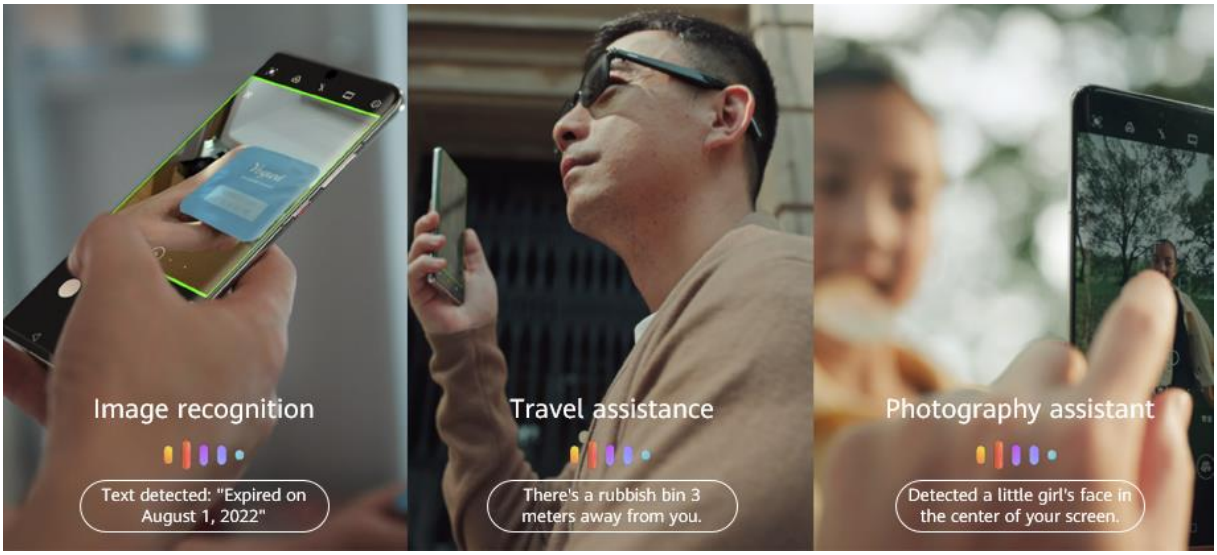
WSIS Values Promotion: The goal of WSIS is to achieve a common vision, desire and commitment to build a people-centric, inclusive and development-oriented Information Society where everyone can create, access, utilize and share information. Huawei's Intelligent Information Accessibility Solution aims to bring convenient services to people with disabilities, to help them to get access to information and knowledge, to enjoy daily life with their families and friends, like everyone in the world.

WSIS Action Lines: 3, 8

SDGs: SDG3, SDG4, SDG10, SDG16

Stakeholder Type: Private Sector

Country, Region: China, Asia and Pacific



Cultural Billboard of Cuban Culture - La Papeleta

La Papeleta is a collaborative Cuban cultural billboard on the web, through the URL www.lapapeleta.cu. Created in March 2013 and has as its main objective, the promotion and dissemination of cultural activities and events throughout the country, it gathers all cultural expressions and takes into account all types of audiences, according to the age range; achieving a position in both the national and foreign audiences. It has incorporated as a service, the reservation and electronic sale of shows, facilitating the public the assistance to them, eliminating factors like the long waiting times for the purchase of the ticket or the double trip to the cultural venue, guaranteeing your seat from the comfort of your home. Currently the service is available for 7 cultural venues in the country, including: José Jacinto Milanés Theater in the Pinar del Río province; National Theater of Cuba, Mella Theater, Great Theater of Havana "Alicia Alonso", the Trompoloco Tent, all of Havana; Sauto Theater of Matanzas; Heredia Theater of Santiago de Cuba. It is planned to increase the service to more recreational and sports spaces.

Website: http://www.lapapeleta.cu/

Target Beneficiary Groups: YOUTH

Replicable Description: Other institutions can adopt initiatives related to community projects that ensure inclusion and healthy environments. Create safe spaces where the elderly feel full, children and young people avoid bad influences and the community environment improves to lower crime rates.

Sustainable Description: Financial sustainability: To cover the costs associated with the development, maintenance and hosting of La Papeleta, as well as to promote the obtaining of profits for this service, the following business scheme is offered: - Publication of free announcements to the institutions belonging to the Budgeted System of the Ministry of Culture. - Publication of ads with preferential rates for prominent spaces of institutions belonging to the Business System of the Ministry of Culture. - Publication of ads with non-preferential rates for Recreation Centers, Night Centers not belonging to the Ministry of Culture System. - Sale of tickets in Theaters and Cultural Centers. - Reservations of tickets in theaters and cultural centers. - Sale of cultural events program. Technological sustainability - The product is an own development of Cubarte. It is developed on the Platform D Jango, for which we have the technical support that guarantees scalability. At the moment we are working on the design of a new web version and the mobile application. - At the moment a campaign is being developed by ETECSA to promote the services and stimulate the consumption of the contents of the Cuba network, which favors access to La Papeleta. Legal sustainability - A legal instrument is necessary to guarantee the obligatory nature of cultural institutions in the delivery and reliability of information for La Papeleta. - Approval of the editorial policy of La Papeleta as a legal instrument. - Agreement on contractual terms and contracts for commercial and non-commercial clients. - Permissions for sales by electronic commerce. Legislation of public key and client protection. - Permission to sell advertising.

WSIS Values Promotion: As previously mentioned, the billboard is an informative medium with a promotional character, mainly on social networking sites and presentations. In these communities, promotional work related to WSIS values can be carried out. This can generate a high number of initiatives such as participation contests, awareness campaigns and the generation of messages of support.

WSIS Action Lines: 3, 8

SDGs: SDG16

Stakeholder Type: Government

Country, Region: Cuba, Latin America and the Caribbean



SpeakLiz

SpeakLiz is an Artificial Intelligence app that helps the world's 470 million deaf people communicate by interpreting sign language for those that cannot speak it. SpeakLiz is a powerful Artificial Intelligence communication tool, it has been designed as a complete solution for the worldwide deaf community. Think of it as the next step in the evolution of Sign Language. While the sign language allows the deaf to communicate with only those who understand it, SpeakLiz allows them to communicate more efficiently and fluidly with just about everyone. SpeakLiz transforms the voices of people into texts and converts texts, including emoticons, into words. It also analyzes the environment to warn the user and helps to understand sign language. This initiative was created by the Ecuadorian entrepreneurship team called Talov as a solution and alternative for people with hearing disabilities.

Website: https://www.talovstudio.com/speakliz

Target Beneficiary Groups: DISB

WSIS Values Promotion: Technology for improve the life of people with disabilities.

WSIS Action Lines: 1, 8

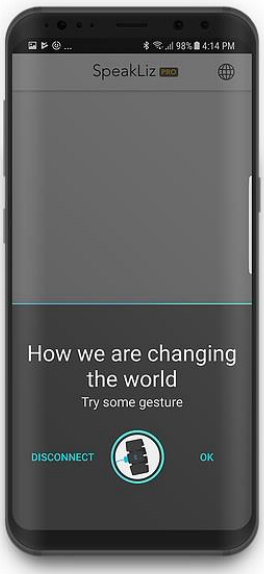
SDGs: SDG3, SDG11, SDG16

Stakeholder Type: Civil Society

Country, Region: Ecuador, Latin America and the Caribbean

SpeakLiz

Breaking barriers. Communicating to the world.





Letiarts

Leti Arts is an interactive media studio with offices in Ghana and Kenya that develops cross-platform games and apps which are influenced by African history, folklore, and culture. Our current in-house project, Africa's Legends is a superhero franchise which has characters from all over the continent fighting crime in 21st century Africa. The goal of creating these digital comics and games around our history and culture is to present Africa to the younger generation in a way that would make them genuinely excited. We also build games and apps for third-party clients.Leti Arts, formerly Leti Games was founded in 2009 by two friends Eyram Tawia (Ghana) and Wesley Kirinya (Kenya). Leti was formed out of the passion to create a unique game studio in Africa that leveraged local talent while building quality games that could compete on the world market. Over the years, we realized the need broaden our scope to cover other African themed content instead of just games as the available content was just not cutting it. These include digital comics and interactive applications that were targeted at mobile devices. This brought about the need to rebrand from Leti Games to Leti Arts in 2013 to throw more light on our vision and the new direction the company had taken. With funding and the passion for creativity and innovation, Leti arts is now spear-heading the game industry in Sub Saharan Africa with a core team of ten.

Website: http://www.letiarts.com/consulting/

Target Beneficiary Groups: YOUTH

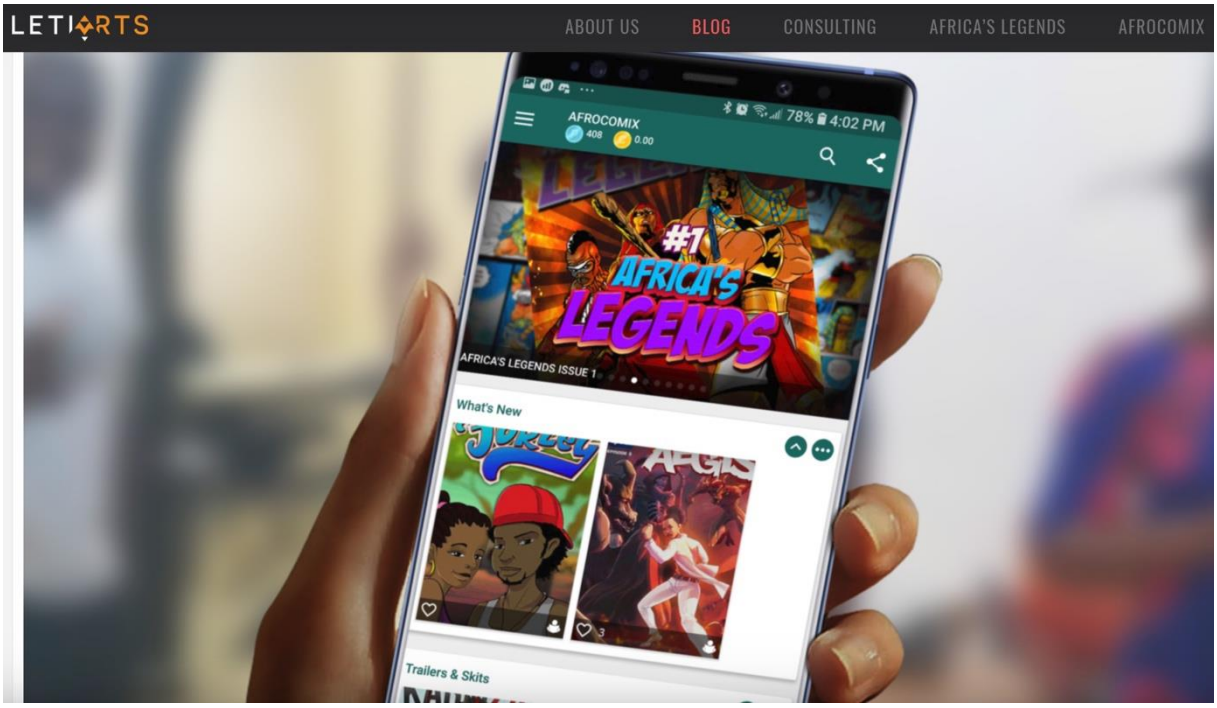
WSIS Values Promotion: culture and ICTs

WSIS Action Lines: 8

SDGs: SDG4, SDG16

Stakeholder Type: Civil Society

Country, Region: Ghana, Africa



Travel Planner for visually impaired and limited mobility community

The project titled ‘Travel Planner for visually impaired and limited mobility Community’ will help visually impaired and limited mobility community to provide ease in transportation and mobility. The UI for web application will be easier to handle by the community. Various features like Planning of Journey, Various nearby events, Emergency Notification and Voice Assistance catered to the specific needs.

Website: https://www.loc.gov/nls/resources/general-resources-on-disabilities/travel-and-recreation-for-the-visually-impaired-and-physically-disabled/

Target Beneficiary Groups: DISB

Replicable Description: Yes, the project can be replicable.

Sustainable Description: Yes, this project is aligned with SDG goal 3.

WSIS Values Promotion: In the project plays a critical role the following technologies: ❖ Frontend Technologies: HTML5, CSS3, Bootstrap, AngularJS ❖ Backend Technologies : NodeJS, Firebase (for Auth ,Storage and Hosting),Alan AI(for Voice Interface) ❖ API Endpoints: MapBox Places(search), Microsoft Bing(representation). The project harnesses technological innovations in order to foster healthy ageing and improve the lives of older people.

WSIS Action Lines: 5, 8

SDGs: SDG3

Stakeholder Type: Private Sector

Country, Region: India, Asia and Pacific

Belajar Mandiri Cerdas Terdidik

Jari Cerdik is a project that provides educational, Indonesian cultural content, and linguistic diversity. Jari Cerdik as an innovation, a creativity and a contribution of teachers and students of MIN 1 Kota Madiun, useful, inspiring and unique contents. The objective of this project makes society understand more Madrasah or Islamic elementary school, that is crucial case to declare to people all over the world, especially children, parents and also society in general. They can also increase they knowledge of culture, linguistic, diversity, and identity of Indonesia through Madrasah. As results, Jari Cerdik has two superior content, that are 1) learning materials and 2) performing arts and Indonesian culture. Learning materials contain videos and quizzes. Then, performing arts and Indonesian cultural contain video by students and teachers performing. Generally, Jari Cerdik has some impacts for society. First, it can be accessed easily and for free, which will greatly assist the learning process. Second, society updated actual information regularly. Third, make society more tolerant each other of culture, linguistic, diversity, and identity.

Website: https://jaricerdik.min1kotamadiun.sch.id/

Target Beneficiary Groups: YOUTH, WOMN, UNEMP

Replicable Description: This project is easy and simple, and also use simple tools that we can reach around us. It can be operated everywhere by anyone, such as watching, listening and using it as a material resource to others. So, the project is replicable all over the world and where internet network is available.

Sustainable Description: This project is ongoing, we will continue to develop and perfect this project in the future, of course we will also use project for cultural, linguistic, diversity and identity of Indonesia through Madrasah. It is very possible to adapt this project.

WSIS Values Promotion: Information and communication, cultural diversity, identity, linguistic diversity, local content, and education. To promote inclusive and sustainable education development and cultural. this is done through increasing parents, teachers' awareness and society too especially for giving basic knowledge.

WSIS Action Lines: 8, 10

SDGs: SDG4, SDG5, SDG16

Stakeholder Type: Academia

Country, Region: Indonesia, Asia and Pacific



BAKTI Business Digital for Disability (BISA)

Despite the mass adoption of digital technologies and as Indonesia's digital economy matures at an unprecedented rate, the disability community are often excluded from the conversation about digital transformation for the community. According to the statistics, in 2022 there are approximately 17 million disabled and only 7,6 million who are employed and self-employed, which only makes up to 5,88% of the population. BAKTI BISA project is piloted to address this problem by designing and implementing digital training and capacity building for disability communities in the rural areas of West Kalimantan and West Sumatera. The target participants are disabled community, including their guardians, who have the aspiration to launch their business into digital platform or to sell their products/services in social media. The program objective is to equip the disabled group with the right skill sets in digital marketing, copywriting, photography, and digital business. By congregating the participants, it is also hoped to establish a network of aspiring disabled community who are promoting the right ways in utilising digital technology for good.

Website: https://yayasan-sabatu.business.site/

Target Beneficiary Groups: INDG, DISB, UNEMP, POOR, RURL

Replicable Description: The project can be replicable for other regions where disabled communities still have lack access to digital technology and proper training.

Sustainable Description: Due to its focus and mission to serve the underserved communities, BAKTI collect and manage the knowledge gained from its experiences of implementing various digital ecosystem initiatives. This enables BAKTI to be adaptive in designing innovative ways to ensure optimization of the ICT infrastructure for the benefit of the local communities. The accumulated knowledge is also transferred to different stakeholders since BAKTI KOMINFO leverages partnership and collaboration with multi-stakeholders in building the digital ecosystems. BAKTI always ensure that the digital ecosystem initiative is aligned with the national priority and policies, coordinate with the relevant mandated government agencies to ensure that the success of the initiative would be taken up and scaled up by the relevant agencies. Partners from private, civil society and local youth are also empowered to continue developing the seeds of digital ecosystem that BAKTI has orchestrated. The core of digital ecosystem is based on a shared goal with their complementing capabilities to learn, adapt and innovate together hence, enabling them to address the wicked social and economic problems faced by the communities in remote and underdeveloped areas. Hence, sustainability is underlined through the baseline of cooperation, coordination and commitments that have been formalized.

WSIS Values Promotion: - Freedom: Using bottom-up approach, BAKTI IDEA4SDG project allows our stakeholders and rural communities to identify significant drivers that motivate them to develop their own unique digital ecosystem actions - Quality: Leveraging BAKTI's main role in bringing connectivity infrastructure to the rural areas, our target communities have the privilege to experience not only the best digital solutions available but also tailor-made to ensure compatibility with the digital devices and digital skills of the people - Solidarity and Tolerance: Promoting our well-known cultural value of "gotong-royong", BAKTI IDEA4SDG promotes the principle of 'no one left behind' when designing and implementing our digital ecosystem actions in the rural communities. This is reflected in our careful planning phase whereby we collect samplings via surveys to understand the socioeconomic and demographic landscape before rolling out initiatives - Shared responsibility: BAKTI IDEA4SDG emphasise the importance of ownership to ensure sustainability of the project in the targeted areas. Our close engagement with local governments and local/indigenous heroes is purposely established to allow BAKTI to share

the progress and lesson learnt out of our initiatives implementation. - Respect for nature: Since most BAKTI IDEA4SDG initiatives, especially the tourism sectors, are implemented in pristine area where indigenous communities reside, participants are given educational training and capacity building to promote the conservation of environment and biodiversity

WSIS Action Lines: 1, 3, 4, 6, 8

SDGs: SDG1, SDG3, SDG4, SDG8, SDG9, SDG16

Stakeholder Type: Government

Country, Region: Indonesia, Asia and Pacific



Elimisha Technology for Change Initiative

Elimisha Empowerment community-based organization works to reduce inequalities in marginalized communities in Kenya focusing on Sustainable Development Goal (SDG) 10. The term 'Elimisha' is a Swahili word that means 'To educate.' Therefore, the organization emphasizes on educating and empowering communities. The organization's motto is 'one community at a time for sustainable development.' Currently, the organization is focusing on the slum communities in Nakuru County, Kenya. The concentration is on five main pillars: Education, governance, care for the vulnerable, bridging intergenerational gaps and household strengthening. On the education pillar, the organization has rolled out an initiative that addresses gaps that exist in terms of technological access for people living in slum areas. The initiative is dubbed 'Elimisha Technology for Change.' The program was started in February 2020 with the beneficiaries being the women and girls of Nyamaroto slums in Nakuru County, Kenya. The focus on women and girls is because they make up about 60% of the larger population in slums in Nakuru County (https://nakuru.go.ke/wp-content/uploads/2018/11/NAKURU-COU NTY-CIDP-2018-2022-FINAL.pdf). The objectives of the Elimisha Technology for Change Initiative are: i) To empower women and girls through provision of knowledge on access to technology. ii) To promote the use of technology to bring about self-reliance and economic development among women in slum communities in Nakuru County, Kenya. iii) To bridge the digital divide experienced in slum communities in Nakuru County, Kenya. iv) To build a resource center which will enable access to technological materials and assistance for over 2000 women and girls in slum communities in Nakuru County, Kenya.

Website: http://www.elimishaempowerment.org/

Target Beneficiary Groups: YOUTH, WOMN, RURL

Replicable Description: The organization is in the process of laying up the ground for replication of the initiative in another slum community in Nakuru County, Kenya. The scaling process is considering women and girls in slum community areas as they have shared contextual experiences.

Sustainable Description: the organization emphasizes on educating and empowering communities.

WSIS Values Promotion: The activities of Elimisha Technology for Change Initiative are: i) Provide computer literacy and learning lessons for women and girls in slum communities in Nakuru County, Kenya. ii) Teach technological skills to women so that they can use them to be self-reliant and bring about economic development in Nakuru County, Kenya. iii) Involve volunteers in providing computer literacy lessons and technological skills to women and girls in the slum communities in Nakuru County, Kenya. iv) Enter into partnerships with different agencies to ensure that technological literacy and skills are provided to the slum communities in Nakuru County, Kenya. v) Undertake mobilization and awareness campaigns on the importance of technological access for women and girls in the slum communities in Nakuru County, Kenya. vi) Develop the technology for change booklet to advance awareness on the need for access to technology in the community.

WSIS Action Lines: 1, 2, 3, 4, 5, LEA, 8

SDGs: SDG1, SDG3, SDG4, SDG5, SDG8

Stakeholder Type: Civil Society

Country, Region: Kenya, Africa



Tinker Bellas Initiative

Lamba Labs Beirut Hackerspace is a community of makers who like to share their skills with like minded people. They also work for the advancement of the makers community by promoting inititatives that teach skills and build potential careers. One such initiative was developed by Eng. Alaa Salam in January 2018 called the Tinker Bellas Initiative. It aims at the inclusion of more women into the fields of STEM especially from underrepresented communitites. This program is targeted at young ladies between the ages of 12 and 25 years. It started out by hosting ladies nights (build nights where small workshop sessions are given concerning coding and electronics, and leading local female figures who are well accomplished in fields of STEM are hosted as speakers), workshops in IoT (standalone sessions or within other events like Pi Celebration Party and International Women's Day), and intro sessions to coding, electronics and robotics (in collaboration with various entitites like Girls Got IT, Teens Who Code, Cherpa.io, GDG Coast Lebanon and Google Women Techmakers Lebanon). Now the Tinker Bellas initiative is working on developing a school curriculum to teach ICT skills and coding to underprivileged and refugee kids.

Website: https://wiki.lambalabs.com

Target Beneficiary Groups: YOUTH, WOMN, REFG

WSIS Values Promotion: It aims at the inclusion of more women into the fields of STEM especially from underrepresented communities.

WSIS Action Lines: 2, 3, 4, 8

SDGs: SDG4, SDG5, SDG16

Stakeholder Type: Civil Society

Country, Region: Lebanon, Asia and Pacific



Art and Technology for Climate Change and Green Social Entrepreneurship

Creating an ecosystem of value chain support in ICT, Creative Innovation among youth, schools and the farming community to adopt ICT4Agriculture to optimise using ICT as a entrepreneurship capacity building on ICT driver needed to optimise e-business, promote climate change awareness for the farming community and use schools in surrounding areas as mini research cottage centres so students are aware of what the farming members endure without ICT skills and the plight of Climate Change. Youth under the continuing Sisters Working in Film, Farming, Fashion and Technology Coding (SWIFT Codes) Initiative will lead in connecting all players to coordinate these ecosystem of capacity building in networking all groups to contribute in enhancing the following; ICTs for education, ICT for Climate awareness, ICT for Agribusiness that can be used for the following specific targets; farm precision that will useful for weather forecasting and farm scanning using drones to scale the situation of crops which will in turn open an opportunity for data collection and analytics. IoT will be useful in matching producers with marketers, supply and logistics/distribution and retail. This is needed because most farmers have indicated that their produce gets spoiled because of market and marketing limitations skills which will be spread among youth as an attempt to close societal and digital gaps where schools are detached from their farming communities, farmers do not have ICT skills and youth have ICT skills but are not given an opportunity to contribute meaningfully to be part of innovative solutions especially in productive sectors.

Website: https://geminstitutels.org

Target Beneficiary Groups: YOUTH, WOMN, UNEMP, POOR, RURL

WSIS Values Promotion: The WSIS values are promoted through inclusivity, diversity and mutuality to grow through an intergenerational approach in how ICT can influence collaboration.

WSIS Action Lines: 3, 4, 5, BUS, EMP, ENV, AGR, 8

SDGs: SDG2, SDG4, SDG5, SDG8, SDG9, SDG13, SDG15, SDG17

Stakeholder Type: Civil Society

Country, Region: Lesotho, Africa



Habka

Habka is the first 100% Arabic platform for screenwriting that provides full and reliable support for the Arabic language, and enables Arab screenwriters to write films and series according to approved international standards. Habka platform aims to maximize Arabic content, promote the development of the Arab information society, and advance the regional film industry by providing an advanced Arabic platform for Arab screenwriters to create scripts for films and TV series, with full support for Arabic language, and based on UN sustainable development goals. The project aspires to push film industry in the Arab region forward by developing the writing process and the governance of production process through clear modeling of the pre-production, production and post-production processes, given that development of scriptwriting is a key point for the advancement of the film industry in the Arab world.App Store link (this might change depending on your App Store country) : https://apps.apple.com/sa/app/habka/id1588656504

Website: https://habka.net

Target Beneficiary Groups: YOUTH, WOMN, DISB, UNEMP, RURL

Replicable Description: Although the project focuses on Arabic identity, it encourages the development of similar platforms to support other Right To Left languages, as all RTL languages (such as Hebrew, Urdu and Farsi, etc.) are not supported globally, and there is an urgent need to pay attention to those cultural and linguistic minorities.

Sustainable Description: The cultural, social and economic aspects of Habka meet the UN sustainable development goals by supporting economic development and human well-being in developing regions, as well as improving technological capabilities and enriching information society. Habka provides a suitable environment for industrial and economic diversification that promotes the establishment of new infrastructures that are compatible with development in the film industry. It promotes sustainable and comprehensive economic growth, provides decent jobs for workers in this field, and achieves high levels of production.

WSIS Values Promotion: The project enables everyone (especially Arabic speakers) to create and utilize information and knowledge in the cultural field of art, cinema, script writing and filmmaking. The platform consolidates the information society, stimulates cultural identity in the cultural and artistic field, and promotes cultural and linguistic diversity. Habka allows the creation and preservation of local cultural content, increases its opportunities for dissemination, allows content makers and filmmakers to enhance their presence, and helps preserve cultural heritage by providing the necessary tools in the artistic field.

WSIS Action Lines: 8

SDGs: SDG8, SDG9

Stakeholder Type: Private Sector

Country, Region: Saudi Arabia, Asia and Pacific



3D Virtual Reality learning, Multilingual and Multi-platform for Hajj and Umrah

The project aims to conduct practical training on the rituals of Hajj and Umrah properly, step by step, using 3D, interactive, multilingual, multi-environment virtual world techniques, and by simulating the rituals closer to reality, with realistic modelling of high quality, in order to reduce the common mistakes that occur in it in addition to defining non-Muslims who cannot visit the holy places, meaning the obligation of Hajj and Umrah. Project's added value and importance: The essence of Virtual Hajj project is about rules, visual, orientation, timing, recitations, actions and experience of the pilgrimage. The best technology to cover the essences above is Virtual Reality. The project runs in an interactive Virtual Reality technology in the form of a 3D running on ubiquitous mobile technology such as Android and iOS and designed using Experiential Design methodology, running in either standalone or networked environment. With Virtual Hajj, everyone can learn Hajj effectively, interactively and in-depth, everywhere>Platforms: • 3D Virtual Hajj for IOS (iPhone / iPad) • 3D Virtual Hajj for Android • 3D Virtual Hajj for windows • 3D Virtual Hajj for MacOs • 3D Virtual Hajj for LinuxLanguages (Phase 1): • Arabic. • English. • French. • Urdu. Links: Google play: o 3DVhajj English: https://play.google.com/store/apps/details?id=sa.gov.moia.VhajjEngo 3DVhajj Arabic https://play.google.com/store/apps/details?id=sa.gov.moia.VhajjArabApple Store: o 3DVhajj English: https://apps.apple.com/sa/app/vhajj-english/id1580800011o 3DVhajj Arabic https://apple.co/38r07OS

Website: https://moia.gov.sa/Pages/3DVhajj-en.aspx

Target Beneficiary Groups: YOUTH, OLDP, WOMN, INDG, RURL

Replicable Description: Can also be used for any 3D VR training application.

Sustainable Description: The project provides much needed knowledge and information of the pilgrimage and is sustainable.

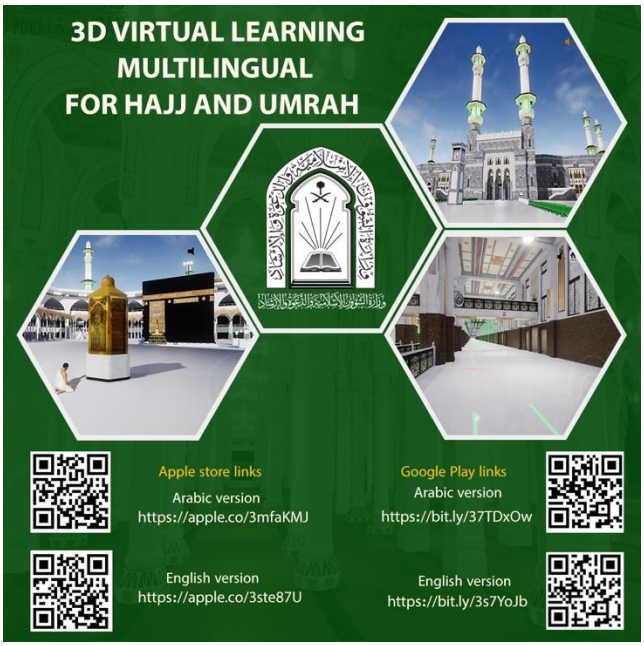
WSIS Values Promotion: This project provides quality education and lifelong learning for all, for free.

WSIS Action Lines: 3, LEA, 8

SDGs: SDG4, SDG5, SDG8, SDG9, SDG10, SDG16, SDG17

Stakeholder Type: Government

Country, Region: Saudi Arabia, Asia and Pacific



Africa Teen Geeks

Africa Teen Geeks has taught 49000 children from disadvantaged communities with 23000 of those being girls. December 2018 it entered into a partnership with the department of basic education to develop and implement a coding and robotics curriculum to be taught from Grade R-9 to public schools which will reach 9 million learners every year. This means that every child in SA irrespective of gender, race & socioeconomic background will have access to tech education and create a pipeline of girls and people of color closing the gender gap and bring racial parity in tech.

Website: https://www.africateengeeks.co.za/

Target Beneficiary Groups: YOUTH, POOR, RURL

Replicable Description: Yes, it is being implemented in South African schools and there are plans to introduce the curriculum in Lesotho schools.

Sustainable Description: Every child in SA irrespective of gender, race & socioeconomic background will have access to tech education and create a pipeline of girls and people of color closing the gender gap and bring racial parity in tech.

WSIS Values Promotion: • Disadvantaged and vulnerable groups • Indigenous peoples • Access to scientific knowledge • ICTs for all • Gender • Youth • Combating illiteracy • Life-long learning • Education/training.

WSIS Action Lines: 2, 3, 4, 8

SDGs: SDG1, SDG16

Stakeholder Type: Civil Society

Country, Region: South Africa, Africa

ICT for the deaf

ICT for the Deaf (ICTD) is a project that aims to create ICT skills training opportunities for the deaf community facing a language barrier in accessing ICT skills training in Tanzania. The vision of the Open University of Tanzania is to provide affordable quality education for all. In that perspective, the University is looking forward to creating enabling environment for persons with disabilities to fully participate in the creation and use of knowledge for enhancing socio-economic development. Project Objective: To create ICT skills training for the deaf community in African Context. Specific Objective: (a) To involve the deaf community to create ICT sign language. (b) To develop a website for sharing the ICT sign language created videos (c) To use ICT sign language to facilitate ICT skills training for the deaf. Results achieved: (a) ICT sign language created and uploaded in the website for sharing (https://www.out.ac.tz/vis/#) (b) More than 120 students who are deaf participated in ICT skills training of whom 20 have completed CISCO Networking courses (https://www.out.ac.tz/course/degree-in-hand-and-a-job-in-your-pocket/) Impact The deaf community is participating in the use of the internet to secure courses, information, leisure, and job opportunities offered by the Tanzania government and private sector.

Website: https://www.out.ac.tz/vis/#

Target Beneficiary Groups: DISB

Replicable Description: The project is replicable in African Region, international/ globally in areas where people face access to skills training for persons who are deaf. The project replication can be done by involving the deaf community in creating accessibility to ICT skills training solutions. One of the major setbacks on ICT skills training for the deaf is the barrier to communication.

Sustainable Description: Already the project was a reference when harmonizing Tanzania Sign Language and thus used the approach (https://amucta.mediasite.com/mediasite/showcase/lat). The youth who are deaf who were involved in the project have already developed knowledge and skills that can continue to be used in their daily life. The project is attached to Open and Distance Learning (ODL) institutions where ICT skills training can continue being offered.

WSIS Values Promotion: WSIS value being promoted is that related to `ICTs and Accessibility for Persons with Disabilities and Specific Needs`. This focuses on how ICT contributes to people living with disabilities and their contribution to the implementation of the United Nations Sustainable Development Goals 2030. It is important to note that the participation of persons with disabilities in the implementation of SDGs might increase if ICT skills training opportunities for persons with different disabilities are implemented. More so, youth who are deaf face challenges of communication and hence rarely participate in the development agenda.

WSIS Action Lines: 1, LEA, EMP, 8, 11

SDGs: SDG1, SDG3, SDG4, SDG5, SDG8, SDG10, SDG17

Stakeholder Type: Academia

Country, Region: United Republic of Tanzania, Africa

Teacher SMS

The aim of the project was to provide bulk-free mobile phone SMS for pupils in Tanzania for selected primary school subjects. This enabled the pupils to be able to contact their teachers when any further explanation or clarification related to a subject matter was needed. Especially rural remote schools and pupils benefited from this project. The project has thus contributed to greater inclusiveness and accessibility of information.

Website: https://www.youthpolicy.org/national/Tanzania_2007_National_Youth_Policy.pdf

Target Beneficiary Groups: YOUTH, RURL

Replicable Description: All districts of Tanzania.

Sustainable Description: There are no additional costs.

WSIS Values Promotion: The project provided access to knowledge and information as well as contributed to the development of information and communication infrastructure.

WSIS Action Lines: 2, 3, 8

SDGs: SDG8

Stakeholder Type: Civil Society

Country, Region: United Republic of Tanzania, Africa



UK Academy

In Vietnam, gender equality has improved a lot over the years. However, in rural areas, ethnic minority areas, gender equality has not yet been addressed. The role of women is not yet appreciated in the family and society. Women who are not educated at higher levels of study or whose social interests are overlooked. In addition, the views on gender equality in each family are different. This affects the thinking of children as they grow up. We need to have educational programs on gender equality in the community, especially in rural areas, mountainous areas, ethnic minorities. I joined the organization as YouthSpark Microsoft Vietnam to carry out many programs for women in ethnic minority areas, such as "Dream Boat", "Technology Fellowship for Women". We create opportunities for the community to understand the role of women in society as well as women who struggle for their own interests in society. I am also the founder of the Vietnamese teacher community with nearly 6,000 members, of which 80% are female teachers. I regularly organize training sessions, seminars to improve the level of female teachers, help they learn confidence in society.

Website: http://uka.edu.vn/

Target Beneficiary Groups: WOMN

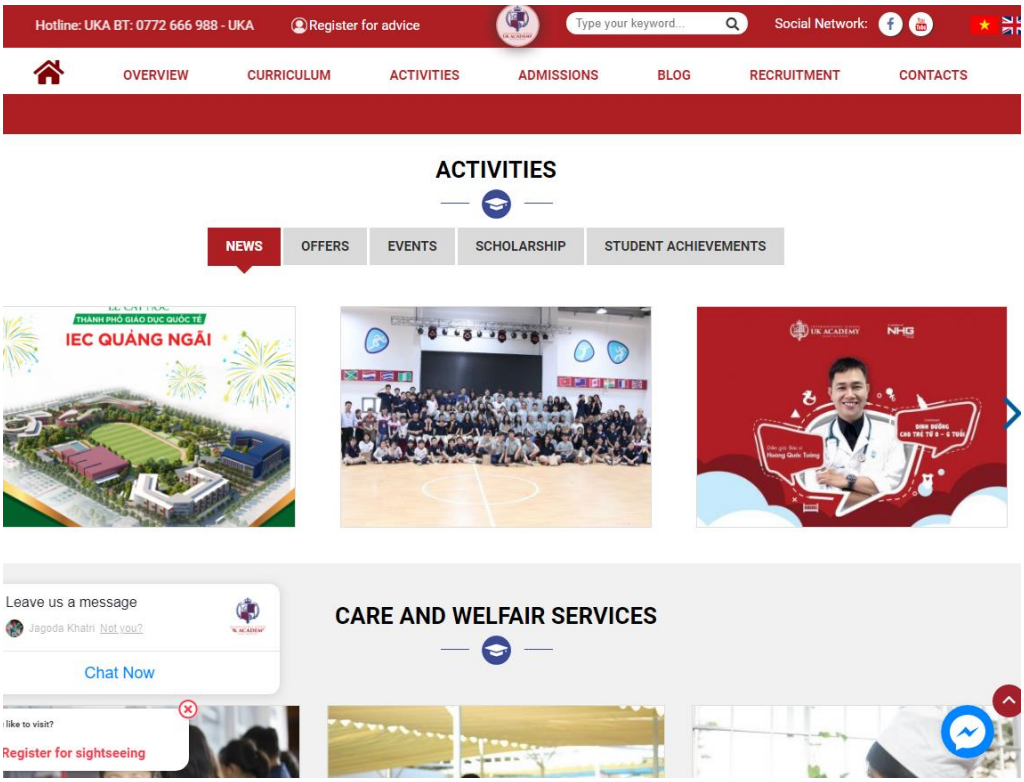
WSIS Values Promotion: We create opportunities for the community to understand the role of women in society as well as women who struggle for their own interests in society.

WSIS Action Lines: 3, 4, 8

SDGs: SDG4, SDG5

Stakeholder Type: Academia

Country, Region: Viet Nam, Asia and Pacific



WSIS Action Line C9. Media

Promoting Health Governance through Broadcasting and Dialogue

Bangladesh NGOs Network for Radio & Communication (BNNRC), has implemented Promoting Health Governance through Broadcasting and Dialogue. The aim of the project is to strengthen the health sector in Bangladesh. The objective of this program is to increase the capacity of Broadcasters and multi-stakeholders to improve the health sector by creating and disseminating objective and science-based reports using information and communication technology to prevent health information pandemics, and epidemics, and make life and livelihood easier. Encouraging journalists with the knowledge, skills and practice of modern techniques to produce objective, unbiased and balanced health reporting for promoting health governance in Bangladesh. To contribute to the good health and well-being of the people at the local and national levels by organizing a dialogue between the concerned stakeholders and supporting the government. In this context, BNNRC organized a total of local and national-level seminars in Dhaka and outside of Dhaka.

Website: https://bnnrc.net/category-15-c9-media-promoting-health-governance-through-broadcasting-and-dialogue/

Target Beneficiary Groups: RURL

Replicable Description: The activities are to be implemented across the country in achieving goals SDG-3, Health and well-being. The country particularly broadcasters and multi-stakeholders involved in working with the identification to gear up the governance process in implementing government initiatives. Concerned Service Providers who are positive for providing their services, will be carried out through a series of programs, which is replicable in any community. As community leaders have always inspired the marginalized to share opinions to address political and social action. Besides, it would be used as a tool for both active and passive communication and outreach worldwide. Civil society organizations can play a vital role in replicating the program. This approach can be replicated in other countries of the world.

Sustainable Description: The ability of the Broadcasters, journalists and multi-stakeholders can play a very significant role in making the program sustainable which have enhanced through the intervention's community, local and national levels. The journalists and broadcasters understand how harm and falsity are ways of thinking about 'information disorder'. Engage and invite multi-level stakeholders in the dialogues and round tables including the Minister, Secretary, Director General of Health Services Journalists, Policy Makers, Parliamentary Standing Committee Members, Chairman, Anti-Corruption Commission, National Editors, Senior Journalists, Health Journalist Forum members, Representatives from CSOs to increase interest for taking effective steps to establish governance in the health sector for promoting quality health services for all.

WSIS Values Promotion: The project aims to provide capacity-building for journalists and multi-stakeholders promoting health governance issues in Bangladesh which is very essential for promoting health governance and achieving the SDGs.

WSIS Action Lines: 9

SDGs: SDG3

Stakeholder Type: Civil Society

Country, Region: Bangladesh, Asia and Pacific



EMPOWERING RADEY MADE GARMENTS (RMG) WORKERS THROUGH FINANCIAL LITERACY

In Bangladesh, a large number of women are the first-generation paid women workers in their families. They have also broken certain taboos that had earlier prevented women from working for wages outside their homes. In spite of progress on this front, they often have little control over the money they earn. Despite contributing to household income, they have little or no role in making decisions about household financial matters. Their access to and control over the money they earn are very low because of their poor status in their families, and lack of experience, which results in low confidence levels. Female Garment Workers (FGWs) usually hand over all their earnings to their husbands, brothers, or fathers, and have no say in decisions about how that money is spent. Further, the men in many of these families do not seem to have the knowledge or will to plan and save. The factory transferred money to women's bank accounts and told them about the ATM facility. Some women had no idea how to use the ATM and so handed over their cards and PIN numbers to their male relatives. Addressing the challenge, Bangladesh NGOs Network for Radio & Communication (BNNRC), has been implementing initiatives to enhance women's status in the family and workplace to build their image as holders of knowledge through financial literacy. Under these initiatives, BNNRC has been supporting community radios to develop radio content and organize a series of live discussions on varied issues including financial literacy, Communication skills, Problem Solving & decision-making, and Time and Stress Management. And provided training for radio broadcasters and volunteers. The radio programs both community radios and its Facebook Page created an opportunity to link all stakeholders, the Youth community, garments workers, and their family members. It promotes self-improvement and money management at the community level.

Website: https://bnnrc.net/category-3-c3-access-to-information-and-knowledge-financial-literacy/

Target Beneficiary Groups: WOMN

Replicable Description: The activities are to be implemented to aware the community people, particularly youth and women who are entering the job sector and also already employed aware of self-management, financial planning, the benefits of savings, and the risks in their absence through a series of radio programs, which is replicable in any community. As community radio has always inspired the marginalized to share opinions to address political and social action. Besides, it would be used as a tool for both active and passive communication and outreach in worldwide. Besides, Social Media Campaign through the radio's Facebook page will act as a virtual platform for young people who have ideas to share on how to reduction in poverty, and gender equality and provide financial education through building strong institutions and partnerships.

Sustainable Description: Through the initiatives, huge numbers of radio broadcasters and volunteers are trained on financial literacy, Communication skills, Problem Solving & decision-making, and Time and Stress Management and they also practice in their lives so that their professionalism can grow and continue. Besides the radio programs provided youth and youth women with tools and skills that generate evidence to support their demands and help them to identify and prioritize areas of investment. The program operates inclusively, including relevant media stakeholders, communication experts, Civil Society Organizations, and government officers which ensured long-term empowerment building. The program also generated community-led priorities to inform policymakers and duty-bearers to make effective decisions regarding inclusive development. Besides, linking the social media platform will ensure that the program will have a deep, sustainable and multiplying impact, where the indirect beneficiaries will exceed several thousand.

WSIS Values Promotion: Through this intervention, WSIS values (Action line- C3) in Bangladeshi communities are strongly adhered to and promoted extensively. This is done through access to Information and knowledge of youth and youth women and encouraging the local communities to financial literacy as well as self–learning and decision-making in families and workplaces.

WSIS Action Lines: 3, 9

SDGs: SDG1, SDG8, SDG10

Stakeholder Type: Civil Society

Country, Region: Bangladesh, Asia and Pacific



Podcast Talkshow Literat, Jujur dan Kreatif (Literate, Honest and Creative Talkshow Podcast)

Project's objectives: Eljeka Podcast conveys an educational message to society, clarifying and confirming various issues that are developing at that time, so people will get a valid understanding of the issue. In other hand, they are not wrong in taking a stance and are able to interpret and understand various problems. Results achieved: The results of the project are creating a conducive situation in society that is based on the validity of information and knowledge from competent parties to explain it through the Eljeka podcast media. The certainty of the information and knowledge conveyed in the podcast makes people no longer doubt to use the information. Impact generated :The ease of choosing certain themes according to the information and knowledge of society needs, that is possible because the podcast media presents menus that can be played back. In the future these themes can also be developed according to the times.

Website: https://eljeka.min1kotamadiun.sch.id/

Target Beneficiary Groups: YOUTH, WOMN, POOR, RURL

Replicable Description: Eljeka podcast is a digital - based information broadcasting media that involves internet to access it. Currently, almost all people can access the internet. It means that everyone can also create their own podcast.

Sustainable Description: This project continues to be developed by presenting episodes which is containing hot issues in society that are packaged creatively, honestly and accurately. In the current era of globalization, almost all people are able to access the internet so it can cause a vulnerability to the spread of fake news or potential conflict. Uniquely, in this project women have a very important role in Eljeka Podcast, starting from the recording process to publishing on various platforms, the full participation of women in Eljeka Podcast shows. In long term, the role of women in this project is also a motivation for women to advance the standard of living of a sustainable community. So the presence of this project has the potential to be developed continuously because of the public needs for accurate information.

WSIS Values Promotion: We will promote WSIS values through every episode of Eljeka podcast.

WSIS Action Lines: 9

SDGs: SDG4, SDG5, SDG8, SDG11, SDG16, SDG17

Stakeholder Type: Academia

Country, Region: Indonesia, Asia and Pacific



Koran Sekolah Digital

The Digital School Newspaper (mtsn7news) project was developed by Madrasah Tsanawiyah Negeri 7 (MTsN 7) Tulungagung, Indonesia. The digital school newspaper is digital content with a one-page newspaper design published every day and published via the Instagram platform. This digital newspaper is a medium of information, education and literacy Digital school newspaper content is used as a medium for disseminating information to teachers, students, parents of students and MTsN 7 Tulungagung stakeholders. The mtsn7news digital newspaper provides various information related to school activities. This content is packaged in the form of photos and journalistic narration in the style of newspaper writing. The digital school newspaper also presents an Education and Literacy rubric. This rubric presents content on various issues that are useful for the academic community. Including, the issue of Sustainable Development Goals (SDGs).The target and impact of the digital school newspaper is conveying messages about school activities to the target audience. The impact of the education and literacy rubric is expected to provide enlightenment on various important and actual issues to the reading public. The digital school newspaper is published via the Instagram platform @mtsn7news. Files of this newspaper, every time it is published, it is also shared via the WhatsApp group. Projects contributing to WSIS Action Lines: 9 This project is relevant to SDG3, SDG4, SDG5, SDG6, SDG7, SDG13 , SDG14, SDG15, SDG16

Website: https://www.instagram.com/mtsn7news/?igshid=YmMyMTA2M2Y%3D

Target Beneficiary Groups: YOUTH

WSIS Values Promotion: Presenting WSIS values content on the Digital School Newspaper page and sharing it with the target community via the Instagram platform and other social media.

WSIS Action Lines: 9

SDGs: SDG3, SDG4, SDG5, SDG6, SDG7, SDG13, SDG14, SDG15, SDG16

Stakeholder Type: Academia

Country, Region: Indonesia, Asia and Pacific



Free and Independent Analysis and Awarding for Government Social Media

As of June 2022, Indonesia ranked fourth among the countries with the highest number of social media users worldwide (Statista, 29 June 2022). Reaching out to more than 210 million active users in Indonesia, social media stands out as one of the most effective communication tools for government—providing official, accurate, and unbiased information for everyone and free. The use of social media by government to deliver information to the public has to be well-executed and always-improving. To do so, the challenge is to assess, evaluate, and determine the best practices. The project, namely GSM Award, is designed and run to address said challenge. Each year since 2019, GSM Award has collected more than 6 million social media data, analysed, and ranked it. With each year, there are evidences that the use of social media by Indonesian government improves, both qualitatively and quantitatively. GSM Award is one of the programs run by GSMS (Government Social Media Summit), a collaboration hub for government social media practitioners in Indonesia. The project is run independently, free of charge, and in cooperation with several government and civil society entities.

Website: https://www.youtube.com/playlist?list=PLELe2-JTuVXjpEvc6hT6IFtuxpZQe1CGB

Target Beneficiary Groups: YOUTH, OLDP, WOMN, DISB, RURL

Replicable Description: The project replicability is already proven as it has already been replicated in different project, that is a social media awarding for Indonesian embassies all over the world since 2020. Some factors that make the project replicable: 1. Uses basic social media metrics and NLP technology to collect data 2. A standardized analysis and evaluation is then applied to the data 3. For replicability in other countries, NLP can either be dismissed or developed.

Sustainable Description: The main reason of the project sustainability is the commitment of partner entities to always sponsor the project. Other option to support the project sustainability is to provide the mechanism and management for similar awarding. Another program within the GSMS (project's entity) has already been planned.

WSIS Values Promotion: Social media is one of the most growing ICT in Indonesia. It covers and affects personal and national level, entertainment and research activity, spiritual and political world, etc. The good and bad of everything is amplified. Aligned with WSIS values, the project will strengthen the role of ICT to maintain free, open, and good information for the public, and in the end to enhance the development of all governance sector.

WSIS Action Lines: 1, 3, 5, GOV, 8, 9

SDGs: SDG4, SDG9, SDG11, SDG16

Stakeholder Type: Civil Society

Country, Region: Indonesia, Asia and Pacific



Talkshow Literasi Teknologi Informasi Komunikasi Suara Madiun (Voice Of Madiun Literacy ICT Talkshow)

Information and Communication Technology Literacy (TIK) is a talk show program specifically designed for adults, parents, women and people with diffabilities. It is design to talk about knowledge and development of ICT. This program is a relaxed talk show program. This is a weekly program, it is broadcast on every Wednesday, at 7 to 9 PM (Jakarta's time), with a duration of 120 minutes. The selection of broadcast time is taken based on considering the prime time (primetime),as well as the psychological listeners aspects. Those hours are the potential time. Because it is their relax time and good time to learn something new, from the educating and entertaining broadcast. The broadcaster who lead the talk show, must have several criteria so that the appearance could fulfil the demand of the audience. The speakers will be different in each week, they are practitioners, academics and ICT observers in the region of Madiun and its surroundings. Each speaker will talk about the experience about using ICT safely, good and healthily. Every episode of this program will involve listeners who want to interact with the speakers who. Listeners can interact by line phone, WhatsApp and Facebook Fanpage of Pemerintah Kota Madiun. in addition to being transmitted via the 93.0 FM frequency, in order to reach a wider audience for desimination information, can also be accessed via the streaming channel: https://facebook.com/pemkotmadiun/here are examples,1. https://www.facebook.com/pemkotmadiun/videos/524110464837524/2. https://www.facebook.com/pemkotmadiun/videos/418781908849125/3. https://www.facebook.com/pemkotmadiun/videos/529558720915131/and Podcast on http://anchor.fm/openmadiun

Website: http://talkshow.rtikmadiun.or.id

Target Beneficiary Groups: YOUTH, OLDP, WOMN, DISB, UNEMP, POOR, RURL

Replicable Description: This talkshow can be replicated using local public broadcasting facilities that are managed by the government and private broadcasters who have a commitment to the importance of media responsibility for ICT literacy in the community

Sustainable Description: This project exists because of the contribution of all parties, both from local governments, public broadcasters, communities, communities and ICT activists or volunteers. all join in the desire to build a good, healthy and safe ICT ecosystem. it all could not be realized in a short time. therefore, this programme runs until the third season. from 2018 to 2022. it is hoped that by 2022 it can be continued with a newer and fresher look and theme.

WSIS Values Promotion: We promote the fundamental idea of WSIS value and SDGs by promoting science and education to all people in term of "Quality Education".

WSIS Action Lines: 3, 4, 5, 6, 8, 9, 10

SDGs: SDG3, SDG4, SDG5, SDG8, SDG11, SDG16

Stakeholder Type: Civil Society

Country, Region: Indonesia, Asia and Pacific



Jakarta Smart City Living Lab

During the digital era, information becomes one of the main needs for the community. Especially in Jakarta, where people have a variety of different problems. Not to mention, a dominating level of hoax spread and consumed by the public. Therefore, Jakarta needs an official, trusted, and reliable source of information as well as learning media that is easily accessible by everyone. JSC Lab is an information channel owned by Jakarta Smart City in which people can learn more about smart cities and various services provided from. JSC's information channels are in the form of website and social media. The content vary from ePosters, videos, articles, to infographics, which make knowledge-sharing about smart cities more understandable to the public. Some topics covered by JSC are vaccination services, JAKI's digital public service, and other topics related to urban issues. JSC Lab also provides learning media through discussions or seminars, such as JSC Hands-on Workshop, JSC Goes to School and Data Science Trainee. By joining these seminars, people can learn more about not only smart city ecosystem, but also how digital services and technology can ease their everyday problems and help them navigate and live better in Jakarta. In implementing our programs, Jakarta Smart City collaborates with various stakeholders, such as local and overseas universities (i.e UI, Oxford University, ITB), startups, private sectors in Jakarta and other provinces, as well as other countries (Berlin and Bangkok). This was developed because socialization from the government is essential in dealing with the uncertainty of information circulating in society. Apart from that, a multi-stakeholders collaboration is needed to gather different perspectives and make sure that the people are connected to the information that they need. Therefore, Jakarta Smart City as one of the agents plays an active role in providing education and official information regarding smart city ecosystem.

Website: https://smartcity.jakarta.go.id/

Target Beneficiary Groups: YOUTH, OLDP, WOMN, INDG, DISB, UNEMP, POOR, MIGR, REFG, RURL

Replicable Description: JSC Lab as a learning media can be replicated by other local governments. The governments can build their own website, social media, and hold seminars or discussion as a tool to educate the people regarding smart cities, or any urban issues. These learning media would make it easier for their citizens to get a trusted, complete, and easy-to-understand information. However, some adjustment might be needed, based on each government's public policy.

Sustainable Description: In line with the changes and development in society, JSC Lab's information channel continues to be developed so that it can provides up-to-date and relevant information that the people need.

WSIS Values Promotion: As a learning-media, JSC Lab raises the awareness about digital transformation, smart city ecosystem, and urban issues and at the same time is open for discussion and collaboration with the community and stakeholders to support sustainable urban development. This is in line with WSIS's missions; equity, solidarity, shared responsibility, and tolerance.

WSIS Action Lines: 9

SDGs: SDG4, SDG11, SDG17

Stakeholder Type: Government

Country, Region: Indonesia, Asia and Pacific



Internet Radio for Diversity

Since 2021 Radio Katolikana — an internet community radio developed by Katolikana Media — has been organizing live talk shows ‘Merawat Kebhinekaan (Caring Diversity) program, regularly once a week. This program can be accessed via internet radio website (https://radio.katolikana.com) or application (bit.ly/AppsKatolikana) and YouTube platform (YouTube.com/@Katolikana). The archive of the program can be accessed via https://bit.ly/merawatkebhinekaan. ‘Merawat Kebhinekaan’ aims of sharing and strengthening Indonesia’s diversity, in terms of religion, local beliefs, customs, ethnicity, art, language, environment and ideas. The speakers are leaders or activists of communities, organizations and individuals who practice diversity in various fields and tends to be marginalized in society and the media including women, children, and people with disabilities and those in remote areas of Indonesia. The results achieved from this program are the establishment of communication networks with communities, organizations and individuals who have practices and knowledge about diversity and the dissemination of this view to the public.

Website: https://radio.katolikana.com

Target Beneficiary Groups: YOUTH, WOMN, DISB

Replicable Description: This project is replicable because we only need three things: (1) hardware (PC/laptop, microphone/headset, internet server, internet connection, radio web; (2) software for operating radio program (Mixxx, Radio Boss, etc); and (3) orgware (people or community of people for organizing the program).

Sustainable Description: This project will be sustainable because it needs less money/resources. As digital community radio, we do not need much money to invest to Internet radio. People and staffs are coming from everywhere, it is not limited to specifict area or region. By this system, we organized ‘Merawat Kebhinekaan’ program in Radio Katolikana since 2021 and it is still running until now.

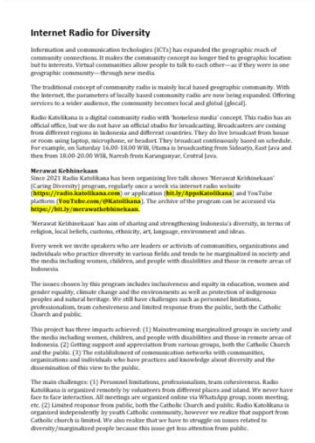
WSIS Values Promotion: WSIS has common desire and commitment to build a people-centred, inclusive and development-oriented Information Society. It is in line with the aims of Merawat Kebhinekaan: sharing and strengthening Indonesia’s diversity, in terms of religion, local beliefs, customs, ethnicity, art, language, environment and ideas.

WSIS Action Lines: 9

SDGs: SDG16

Stakeholder Type: Civil Society

Country, Region: Indonesia, Asia and Pacific


Internet Radio for Diversity

Information and communication technologies (ICTs) has expanded the geographic reach of community connections. It makes the community concept no longer tied to geographic location but to interests. Virtual communities allow people to talk to each other—as if they were in one geographic community—through new media.

The traditional concept of community radio is mainly local based geographic community. With the Internet, the parameters of locally based community radio are now being expanded. Offering services to a wider audience, the community becomes local and global (glocal).

Radio Katolikana is a digital community radio with 'homeless media' concept. This radio has an official office, but we do not have an official studio for broadcasting. Broadcasters are coming from different regions in Indonesia and different countries. They do live broadcast from house or room using laptop, microphone, or headset. They broadcast continuously based on schedule. For example, on Saturday 16.00-18.00 WIB, Oxana is broadcasting from Sidoarjo, East Java and then from 18.00-20.00 WIB, Naresh from Karanganyar, Central Java.

Merawat Kebhinekaan

Since 2021 Radio Katolikana has been organizing live talk shows 'Merawat Kebhinekaan' (Caring Diversity) program, regularly once a week via internet radio website (https://radio.katolikana.com) or application (bit.ly/AppsKatolikana) and YouTube platform (YouTube.com/@Katolikana). The archive of the program can be accessed via https://bit.ly/merawatkebhinekaan.

'Merawat Kebhinekaan' has aim of sharing and strengthening Indonesia's diversity, in terms of religion, local beliefs, customs, ethnicity, art, language, environment and ideas.

Every week we invite speakers who are leaders or activists of communities, organizations and individuals who practice diversity in various fields and tends to be marginalized in society and the media including women, children, and people with disabilities and those in remote areas of Indonesia.

The issues chosen by this program includes inclusiveness and equity in education, women and gender equality, climate change and the environments as well as protection of indigenous peoples and natural heritage. We still have challenges such as personnel limitations, professionalism, team cohesiveness and limited response from the public, both the Catholic Church and public.

This project has three impacts achieved: (1) Mainstreaming marginalized groups in society and the media including women, children, and people with disabilities and those in remote areas of Indonesia. (2) Getting support and appreciation from various groups, both the Catholic Church and the public. (3) The establishment of communication networks with communities, organizations and individuals who have practices and knowledge about diversity and the dissemination of this view to the public.

The main challenges: (1) Personnel limitations, professionalism, team cohesiveness. Radio Katolikana is organized remotely by volunteers from different places and island. We never have face to face interaction. All meetings are organized online via WhatsApp group, zoom meeting, etc. (2) Limited response from public, both the Catholic Church and public. Radio Katolikana is organized independently by youth Catholic community, however we realize that support from Catholic church is limited. We also realize that we have to struggle on issues related to diversity/marginalized people because this issue get less attention from public.


Replicable and sustainable

This project is replicable because we only need three things: (1) hardware (PC/laptop, microphone/headset, internet server, internet connection, radio web; (2) software for operating radio program (Mixxx, Radio Boss, etc); and (3) orgware (people or community of people for organizing the program).

This project is sustainable because it needs less money/resources. As digital community radio, we do not need much money to invest to Internet radio. People and staffs are coming from everywhere, it is not limited to specifict area or region. By this system, we organized 'Merawat Kebhinekaan' program in Radio Katolikana since 2021 and it is still running until now.

Contribution

WSIS has common desire and commitment to build a people-centred, inclusive and development-oriented Information Society. It is inline with the aims of Merawat Kebhinekaan: sharing and strengthening Indonesia's diversity, in terms of religion, local beliefs, customs, ethnicity, art, language, environment and ideas.

This project contributes to the implementation of the selected WSIS Action Lines and Sustainable Development Goals especially to promote just, peaceful, and inclusive societies. We are inviting leaders or activists of communities, organizations and individuals who practice diversity in various fields and tends to be marginalized in society and the media including women, children, and people with disabilities and those in remote areas of Indonesia. They share problems, inspirations, values, good practices based on their experiences. People or audiences are willing to learn and get inspiration from this talk shows.

Posters:

Christmas Decorations in Solo: Putting up Christmas decorations is quite rare, except in Manado. But in Solo, early this December, the government for the first time put up Christmas decorations on the main street.



Ups and Downs: Teacher of Confucianism, Local belief, Catholicism: What happens to teachers or religious instructors whose students are in small numbers, like Confucianism, Catholicism, or local belief? How do they try to instill a spirit of diversity?



The May '98 Riots and the Chinese Ancestry Library Museum: Why did an Acehnese establish the Chinese Ancestry Library Museum? How does he reflect on the May 1998 riots? Why is the government often ignorant of the role of the Chinese? What are the stories, writings, descriptions of Chinese people today?

Radio Katolikana
Yohanes Widodo
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Email: redaksi@katolikana.com

Promotion of organic Agriculture information During covid 19

It's a self-developed projects to assist farmers access agriculture extension services on their phones i do write articles and share them in various farmer WhatsApp groups, Telegram groups ,twitter ,Facebook groups and individual farmers whom i get access to. I use my own airtime to do comprehensive research and provide farmers with latest technology farming updates engaging farmers in the social media and sometimes skype so I help farmers for free and it’s really interesting My big challenge and worry is how to get to he rural farmers on the ground who lacks smartp.

Website: https://sciencecast.co.ke

Target Beneficiary Groups: YOUTH, WOMN, INDG, UNEMP, POOR, RURL

WSIS Values Promotion: My laptop and tablet use them through social media to engange the farmers the good thing about social media is sometimes you even get consultations from international farmers.

WSIS Action Lines: 1, 2, 3, AGR, 9

SDGs: SDG1, SDG2

Stakeholder Type: Private Sector

Country, Region: Kenya, Africa

AgroSpace Platform

The purpose of the Platform: Small agricultural producers and specialists have free access to verified information for business development, sectors and regions. The Interface of the Platform has four languages: English, Kyrgyz, Russian and Tajik languages. Results achieved: Operating Platform for more than 7 years; 19 operating mobile applications with English, Kyrgyz, Russian and Tajik languages, https://apps.agroinform.asia/en/index.html , https://play.google.com/store/apps/developer?id=Agroinform.TJ&hl=en; Electronic library , https://kitob.agroinform.asia/en and YouTube channel (6 240 subscribers) with regional electronic and video materials, https://www.youtube.com/agroinformtj; E-Trade board for purchase and sale of agricultural products and services, http://trade.agroinform.asia/ and retail market prices for agricultural products, https://prices.agroinform.asia/en; Electronic agricultural maps awarded by EEC, ITU-FAO, FAO, https://maps.agroinform.asia/cultivated-area/krg/en?crop=10&year=2020; Distant consulting system linking business to consultant and training services via video communication on payable base. More than a million users from different countries. Impact on users: Access to expert-verified information; Possibility of direct communication with specialists; Reduction of production and market risks; Effective planning of business, sector and region development.

Website: https://agro-asia.com

Target Beneficiary Groups: YOUTH, POOR, RURL

Replicable Description: Two countries - Kyrgyzstan and Tajikistan - are already presented in the AgroSpace platform. Kyrgyzstan, Russia and Tajikistan are presented in the E-Maps tool. For example, Kyrgyz, Tajik, Belarusian, Russian and Serbian companies are presented in the mobile applications. Kyrgyzstan and Tajikistan are presented in the Retail Market Prices for agricultural products.

Sustainable Description: The Platform has being operational for 7 years, increasing number of the users. NO ANY DONOR or STATE organizations provides any funds for operational of the Platform since the beginning. A few donors invested small funds sharing with the partners a development IT tools - 9 out of 19 mobile applications, E-Trade board. Not any donor's funds for the maintenance, promotion and further development of the IT tools presented in the AgroSpace Platform. The partners earn money on the provision of consultancy services and specific agricultural research and invest the income in the future development of the AgroSpace.

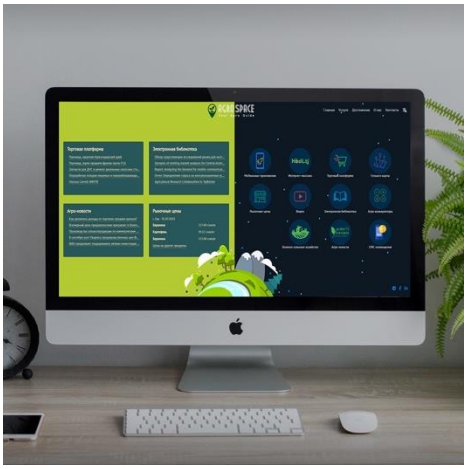
WSIS Values Promotion: The AgroSpace Platform aims at leveraging the power of information and communication technologies (ICTs) to advance sustainable development, particularly oriented at small-scale agricultural producers and businesses that do not have access to necessary information and services for making efficient business decision, reducing production and market risks.

WSIS Action Lines: 3, 9

SDGs: SDG1, SDG2, SDG12, SDG17

Stakeholder Type: Private Sector

Country, Region: Kyrgyzstan, Asia and Pacific



AT&T Accessibility Strategy

In alliance with the Mexican civil society organization, AT&T have launched different campaigns and initiatives: One of these initiatives is the first 100% accessible news program in Mexico: Yo También TVo. Yo También, with the support of AT&T Mexico, produces this news spot that is available weekly on the organizations' social media. The news program includes subtitles and interpretation in Mexican Sign Language (LSM). Since its premiere and until November 2022, over 46 million people have watched Yo También TVo.Another important initiative is a dictionary launched by Yo También and AT&T titled: "What's the Word for…? From A to Z. The First Dictionary to Report, Write, and Tell Stories on Disability Issues." This dictionary is a guide to writing about disability: correct terms, non-discriminatory language, tips and good practices, and even legal frameworks that can help understand the importance of considering and portraying disability as part of the human diversity. Recently, three new versions of this dictionary were launched by the two organizations. One of easy reading, for people with intellectual disability, and the other 2 aimed for kids in preschool and elementary school. With these new versions, AT&T and Yo También seek to teach children and all those people who need easy-to-read texts to see disability as something natural and thus contribute to eliminating the biases that lead to discrimination. Finally, with the purpose of promoting technology as a way of improving the lives of people with disabilities, AT&T Mexico and Yo También presented a social media campaign on information about accessibility and disability in order to spread information the use of apps that people with disabilities may use to live more independently. Plus, the materials address general disability issues, hard data and types of disability in order to contribute to raising awareness.

Website: https://ms-my.facebook.com/yotambienac/videos/yo-tambi%C3%A9n-tvo-el-primer-noticiero-accesible-e-inclusivo-de-m%C3%A9xico/277908827597340/

Target Beneficiary Groups: DISB

Replicable Description: For these initiatives we the power of leverage technology and social media to have a broader impact and reach more people, not only in Mexico but also in every country. The news program is broadcasted online, and the dictionaries and the social media campaign could be downloaded from AT&T Mexico and Yo También websites.

WSIS Values Promotion: These initiatives promote equality, solidarity, tolerance and shared responsibility not only regarding people with disabilities but also for all the people.

WSIS Action Lines: 2, 3, 9

SDGs: SDG4, SDG10, SDG17

Stakeholder Type: Private Sector

Country, Region: Mexico, nLatin America and the Caribbean



Diccionario para escribir historias sobre discapacidad

para periodistas y adultos

Descarga gratuita



Diccionario infantil

para que niñas y niños aprendan de discapacidad

Descarga gratuita



Diccionario para personas con discapacidad intelectual

en lectura fácil

Descarga gratuita



Diccionario para primaria

en lectura fácil

Descarga gratuita

Smart Contact Centre

Contact Centre considered as a one of the modern methods of providing services to customers and it is the main interface of PASI. Therefore, PASI focused on redesigning contact center services by adopting leading futuristic Smart Contact center software solution that enable innovative technology and social media integration. In addition, smartly manage the customer service agents based on the demand and business need according to forecasted data analytics. It is worth to mention that this project directly linked to one PASI's strategic objectives, which focus on the enhancement of Services.The smart contact centre evolve in providing services via two channels, which are the interactive voice response (IVR) and the agents. Project objectives: One of the biggest objectives of PASI Smart Contact Centre's project was to operate a comprehensive solution with high quality standard to accomplish 90% of efficient response to the customer requests, which include the services of both insurance and administrative sectors, and present accurate services and information, which will lead to high level of performance and guarantee customers satisfaction. Results achieved: - Widen the service channels - Easily accessing to PASI self-services within 24/7Impact generated: Contribute to increasing social digital awareness (through self-services) Reduced the physical interaction

Website: https://e-pasi.pasi.gov.om/pasi_cap/f?p=309:1:9981272961643::NO

WSIS Values Promotion: One of the biggest objectives of PASI Smart Contact Centre's project was to operate a comprehensive solution with high quality standard to accomplish 90% of efficient response to the customer requests, which include the services of both insurance and administrative sectors, and present accurate services and information, which will lead to high level of performance and guarantee customers satisfaction.

WSIS Action Lines: 2, 3, 5, GOV, BUS, 9

SDGs: SDG8, SDG16

Stakeholder Type: Government

Country, Region: Oman, Asia and Pacific



Media Analytics service

The Media Analytics Service is one of the shared services provided by the Ministry of Communications and Information Technology (MCIT), it provides government entities with analytical and comprehensive data coming from social media channels and other prevalent channels around the world in more than 170 million sources of information. This helps decision makers to follow up and analyze all public conversations through social media platforms and traditional media channels, besides measuring performance, improving quality control and transparency, and serving the public.

Website: https://mcit.gov.qa/en/service-4

Target Beneficiary Groups: YOUTH, OLDP, WOMN, INDG, DISB, UNEMP, POOR, MIGR, REFG, RURL

Replicable Description:

Sustainable Description: The MA services is highly participating in the environment sustainability, since it uses the technology instead of the paper traditions ways to know more about the public feedbacks and opinions.

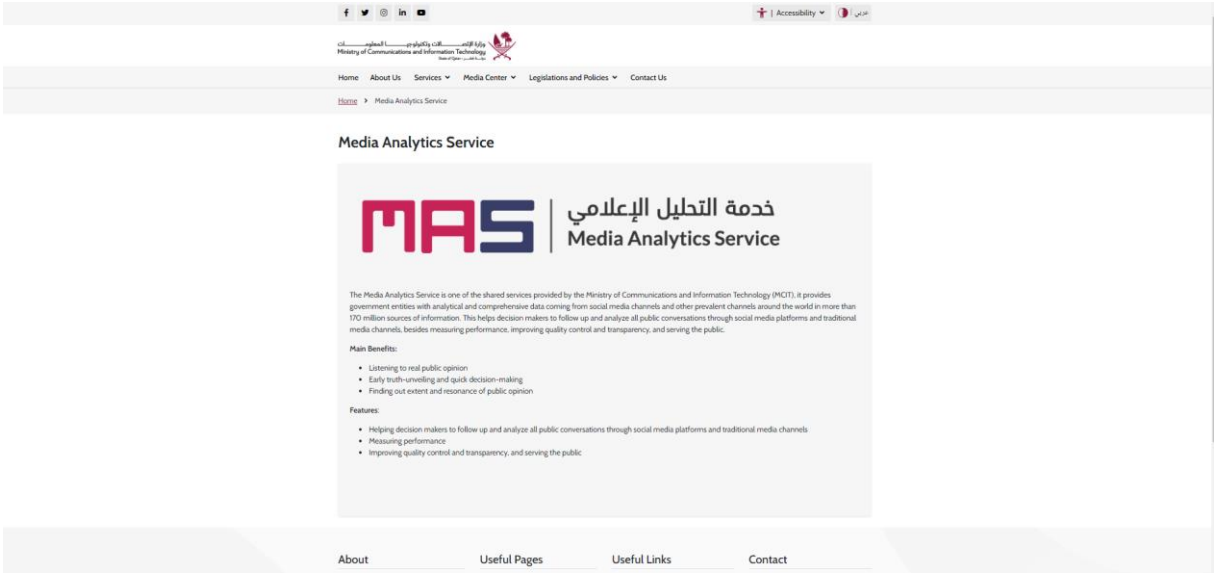
WSIS Values Promotion: the Media Analytics Service is a high avalable service that help the the government entities to listen to real public opinion and support decision-makersto finding out extent and resonance of public opinion and follow up and analyze all public conversations through social media.

WSIS Action Lines: 1, 2, 3, 5, GOV, BUS, LEA, HEA, EMP, 9, 10

SDGs: SDG5, SDG9, SDG11, SDG17

Stakeholder Type: Government

Country, Region: Qatar, Asia and Pacific



Elderly Care Club

Bevol platform:Bevol is the first social media platform in the world specialized in the field of volunteering and social service. Bevol works to organize and network volunteering work and to enhance the performance of social responsibility within an interactive and motivating environment in order to offer a new vision of volunteering. Bevol provides its members with volunteering opportunities in various fields, as well as providing them with training programs that contribute to developing their skills and building their expertise in the fields they are interested in. That is why Bevol seeks to establish volunteer clubs specialized in specific fields. Within this context, Bevol platform launched the Elderly Care Club.The purpose of the club: Establishing specialized networks of elderly individuals and volunteers wishing to provide volunteering services in the field of elderly care from various countries. - Club goals: - The main objective: Establishing an appropriate environment to provide quality volunteering services for the elderly in order to take care of them and benefit from their experiences - Secondary goals: - A- Training the club members to become qualified in the field of elderly care, whether they are ordinary volunteers or the elderly themselves - B - Activating the role of the elderly by involving them in the club's work, volunteer programs and social activities that it will implement - C- Creating mechanisms to benefit from the experiences of the elderly in a way that makes them feel important in society - D- Launching specific volunteering initiatives in the field of elderly care - E - Exchange of experiences related to elderly care among volunteers from different countries - F - making use of digital technologies in implementing the club's plans and programs - G - Motivating volunteers and document their work through the club

Website: https://bevol.org/profile/ElderlyCareClub/

Target Beneficiary Groups: OLDP

Replicable Description: Considering that Bevol Platform is international and available in different languages, it is possible to replicate the idea of the Club in different geographies and languages. Besides that, the platform is already functioning and volunteering missions have been and are continuing to be announced and volunteers are continuing to apply to these missions. The feedback we are receiving in this regard (whether from the volunteers, the elders themselves or the elderly care houses) are dominantly positive and assert that there is a need to such clubs which use technology in serving and caring for the elderly. There is also a strong willingness on the part of those interested to join and engage.

Sustainable Description:

WSIS Values Promotion: What is the underlying technology being used that would qualify as innovative? The platform relies, in terms of its technological structure, on a set of creative ideas and techniques that are implemented automatically. The most important of these is the reward points system for volunteer missions, which will be added to the volunteer in their international volunteer card, as well as the system for documentation where the volunteer's work will appear on their profile automatically with the number of volunteering hours they has completed as well as the average ratings of their performance in these missions. This is helpful in ensuring that volunteers from whom the elderly will get are reliable and trustworthy. Bevol significantly supports the culture of using technology in community service by announcing several volunteering missions in different countries, whether in person or remotely. The platform also focuses on raising awareness on SDGs and contributing to their achievement, by linking each volunteering mission to the goals that it will contribute to achieving. Bevol is an unprecedented platform targeting society segments interested in volunteering and community work worldwide and helping them to change their lives and societies for the better by their hands through volunteering in all fields including the various

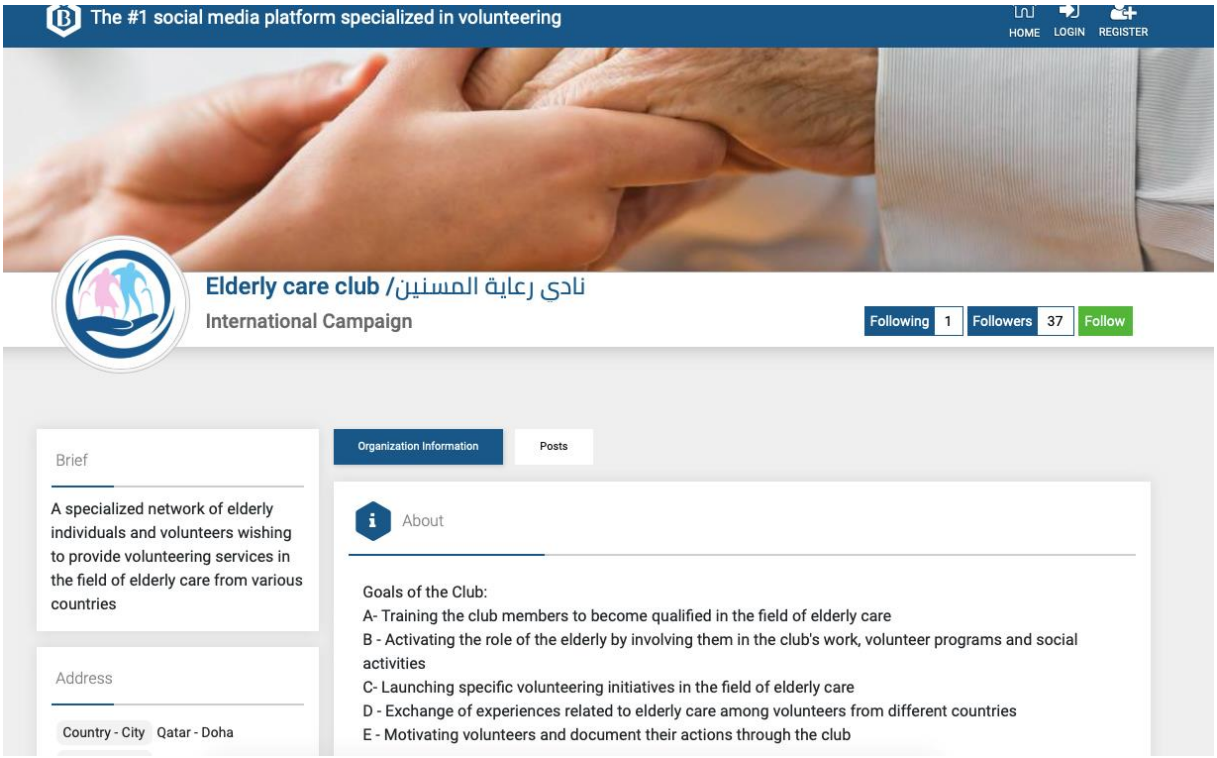
services in the field of elderly care. Using the motivational means in volunteering makes Bevol a pioneer in its own right.

WSIS Action Lines: 3, 4, 6, 8, 9, 10, 11

SDGs: SDG1, SDG2, SDG3, SDG4, SDG5, SDG6, SDG7, SDG8, SDG9, SDG10, SDG11, SDG12, SDG13, SDG14, SDG15, SDG16, SDG17

Stakeholder Type: Private Sector

Country, Region: Qatar, Asia and Pacific



Balady – Digital City Platform

Balady is a digital platform currently providing more than 200 digital services related to municipal services, city infrastructure, and urban enhancement. It supports business and improves the lives of citizens, by providing services and promoting activities that are innovative for business and empower the community. The main objectives of the platform are to provide digital services to regulate and manage businesses activities and infrastructure in cities, allow all stakeholders to contribute to innovation in digital services by proper change management for services, allow the community to share opinions and vote for drafts of updated and newly generated regulations and to capture and send any issues in city infrastructure and municipal services, promote partnerships between the government and the private sector and to build accurate information related to business, investment opportunities, land, and geographic data of business activities. Balady has more than 3 million active users and counts more than 80 million logged operations. It counts more than 1 million community contributions in capturing city issues, with 98% of them solved, and allowed to increase satisfaction with municipal services to 95%. Balady has also been contributing to greatly improving the efficiency of bureaucratic processes, optimizing regulatory procedures, and supporting business growth.

Website: https://www.balady.gov.sa/

Target Beneficiary Groups: YOUTH, WOMN, DISB, UNEMP

Replicable Description: Most of the solution components can be replicated, but need customization based on each region or country's regulations. Most countries all over the world need to provide digital services for municipal and construction services, visual distortion elimination, community participation in urban enhancement and sustainably. In this context, integration with several government entities, which was applied successfully in the Balady Platform, may also be applied in other countries. However, they might differ and require different setups and customization regarding the type of services, coverage, data, integration, and other features. This solution was built in-house in the Ministry of Municipal and Rural Affairs and has some copyright restrictions in terms of source code, and needs agreement if it is needed to be replicated in other countries. However, any other country can build a similar solution to achieve similar objectives.

Sustainable Description: Balady is a sustainable project and no major challenges in that regard are expected in the future. The sustainability of the project is based on the fact that the project is built in-house with owned source code and therefore is not dependent on external support. Balady also benefits from a high variety and quality of human resources with a well-defined structure and clear division of responsibilities. It includes product managers, project managers, business analysts, developers, designers, quality testers, and security, operations, and support teams. The project is also gradually being open-sourced with some features uploaded to the governmental platform for open-source. Balady also is supported by The Supreme Committee for Digital Transformation in MOMRAH, which has the minister of municipal and rural affairs and housing as the head of committee and has members of top management in MOMRAH. Also, Balady has defined business owners for each service and sub process in in the ministry agencies and business owners' representatives in all 17 main regional municipalities. For all these stakeholders, decision support dashboard was built online to show live analytics data to monitors services growth and support decision and enabling more sustainability for Balady platform.

WSIS Values Promotion: Balady platform promotes inclusion, engagement and transparency in the community by using several channels to provide information and services to citizens like the Ministry of Municipal and Rural Affairs website, the Balady platform,

Twitter accounts, and the YouTube channel. It enables digital services that support the values of ICT digital transformation in government by providing services 24/7. The platform is aligned with the WSIS C1 Action Line on the role of governments and all stakeholders in promoting ICTs for development. It uses artificial intelligence and data analytics to generate statistical solutions, facilitate decision-making, request classifications by artificial intelligence image recognition, service demand optimisation, and enhancement. Balady also holds information on all active businesses in all regions, issuing instance licensing and renewals and allowing businesses to self-check online their business compliance to reduce fines and violations and improve their service quality. It partners with several government organisations in terms of data integration. Balady regulates and inspects the food business, factories and restaurants, which underpins SDG 2. Furthermore, Balady ensures healthy lives and promotes well-being for all ages by issuing health certificates for business employees to ensure healthy food and services for consumers. This is directly linked to SDG 3. In addition, Balady provides gender equality by allowing males and females to get the same digital services at all levels and empowering women and girls by starting businesses from home, which promotes equality and supports SDG 5. And by providing instant business activities licenses in all kingdoms of Saudi Arabia regions with self-business compliance checks and QR codes on each business location to allow people to rate service and send compliance, it supports SDG 8 to promote sustained, inclusive and sustainable economic growth.

WSIS Action Lines: GOV, BUS, HEA, ENV, 9

SDGs: SDG2, SDG3, SDG5, SDG8, SDG9, SDG11

Stakeholder Type: Government

Country, Region: Saudi Arabia, Asia and Pacific

Visceral Podcast

Visceral Podcast is aimed at promoting women in science, technology, engineering and mathematics, in Africa. We interview women who are pioneers in the sciences and what drives them to be the best in their careers. We promote women in STEM across Africa. These women are pioneering scientific advancement on the continent and are at the heart of our work. Our goal is to promote strong examples of women in STEM and inspire young African women to pursue lifelong career goals in the STEM disciplines. Visceral Podcast is changing the narrative about women in STEM. We broadcast our message through thought-provoking podcasts, engaging news on STEM, and intelligent profiles highlighting accomplishments of women in the STEM disciplines.

Website: https://visceralpodcast.co.za/home/

Target Beneficiary Groups: YOUTH, WOMN

WSIS Values Promotion: Visceral Podcast is aimed at promoting women in science, technology, engineering and mathematics, in Africa. We interview women who are pioneers in the sciences and what drives them to be the best in their careers.

WSIS Action Lines: 1, 3, 9, 10

SDGs: SDG5

Stakeholder Type: Private Sector

Country, Region: South Africa, Africa



Strategic Communication to Counter Security Threats in the Disinformation Era

The project proposes a cross-sectorial initiative in the fields of education for media and strategic communication in relation to security, prevention and counteraction of criminal acts. The consortium partners include civil and military universities that offer expertise in how to create a safe communication environment and law enforcement agencies that are directly involved in preventing and countering social polarisation and unrest, radicalisation, extremism and terrorism. According to expert reports, some of the most acute crisis in communication between public institutions and journalists have been reached during specific events. The southern part of Europe more specifically lacks a coordinated and efficient handling of such crisis as proven by the migration crisis in Greece (2015), the terrorist attacks in Spain (2017), or disaster cases in Romania (e.g. Colectiv arson case, 2015). The culture of communications is changing at a rapid pace, driven by the power of internet and social networks. The digital communication environment, with its remarkable advantages and opportunities, also provides opportunities to different actors for conducting malicious influencing activities, divide societies, erode the democratic values and sow distrust in our institutions. Users are encouraged to create personal echo-chambers at the expense of information pluralism and to move away from reliable and credible news reporting and sound journalist analyses. The three countries are linked by the need to address strategic communication in case of security threats. The course is developed in collaboration between: "Mihai Viteazul" National Intelligence Academy (MVNIA) – Romania, Ciberimaginario Research Group of the University Rey Juan Carlos– Spain, Kentro Meleton Asfaleias (KEMEA), Center For Security Studies – Greece and Ministry of Internal Affairs, Directorate for Information and Public Relations (MAI-DIRP) – Romania.

Website: https://crescentproject.eu/

Target Beneficiary Groups: YOUTH

Replicable Description: The project can be replicated in any other country. The spread of disinformation and false news through social networks, and the increase in hate crimes, especially against immigrants, makes it useful that the information and training generated in the project can be reused to train youth in a culture of tolerance and peace.

Sustainable Description: The project offers numerous openly published training resources as Open Educational Resources that can be used without any limitations.

WSIS Values Promotion: The project assumes many of the principles of WSIS, but especially that the Information Society should respect peace and uphold the fundamental values of freedom, equality, solidarity, tolerance, shared responsibility, and respect for nature.

WSIS Action Lines: 3, 9

SDGs: SDG4

Stakeholder Type: Academia

Country, Region: Spain, Western Europe and North America



CHAGAMKA community based youth inspiration ICT Hub

Promoting business online through the community digital hub and continued diverse online free courses. The project will be handed over to Local NGO's who are part of the initiative and are already having other projects that support refugees. Scaling the digital hub through establishing more of the same concept will bring great transformation to the most vulnerable and reduce the levels of poverty in urban settings. An online platform with diverse services has been created and urban poor and refugees supported to have free access. Internet of good and reliable speed has also been provided accessible to the most vulnerable in Kampala.

Website: https://flyonlineltd.com/demos/nrc/

Target Beneficiary Groups: YOUTH, WOMN, POOR, REFG

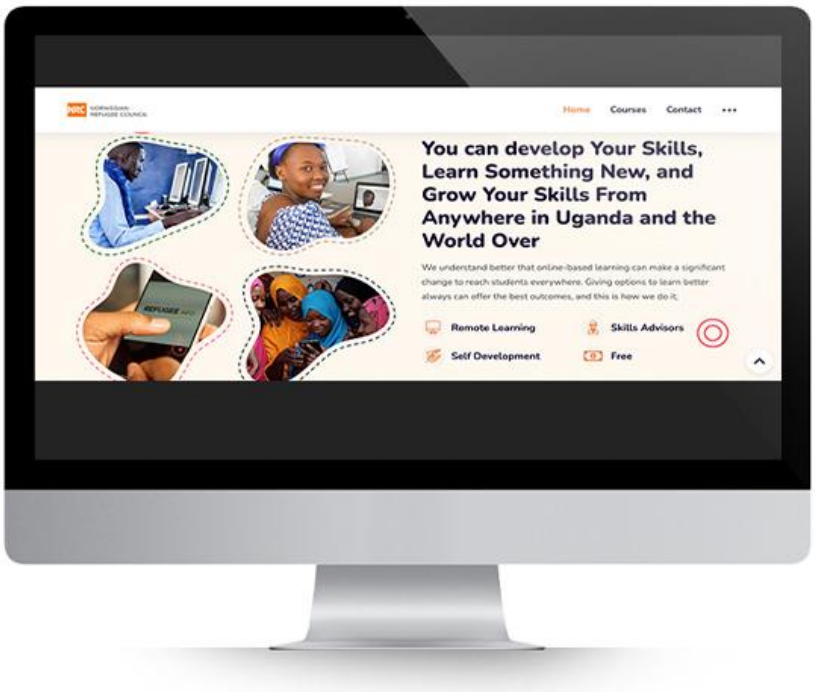
WSIS Values Promotion: An online platform with diverse services has been created and urban poor and refugees supported to have free access. Internet of good and reliable speed has also been provided accessible to the most vulnerable in Kampala.

WSIS Action Lines: BUS, LEA, EMP, ENV, 9

SDGs: SDG4, SDG5, SDG8, SDG10, SDG11

Stakeholder Type: International Organization

Country, Region: Uganda, Africa



Mwajuma Simama!

As children and young adults in Tanzania are forced to stay home after the National schools closure to prevent the spread of the novel Coronavirus (Covid-19), there are now more subjected to frequent harassment and abuse from their family members and neighbors. During this time more children and young adults especially girls and women are subjected to violence, trauma and psychological stress. We have already observed in Ruvuma, 100 girls have been impregnated in these three months of school closure. If the issue of sexual abuse and harassment continues, we will see the rise of child pregnancies, child marriages and school dropouts rates exponentially. Mwajuma Simama is a series of animation that aims to educate girls and young women about Sexual assault and abuse and how to deal with it. Our content will educate girls and young women about what sexual abuse is in a simplest and relatable manner possible. ICT Tools used: The animation will show a teenage girl main character called Mwajuma who experiences sexual abuse in her homes and her community, the series of events of the animation script will focus to educate about what constituents and is defined as sexual abuse, discuss important topics such as consent and discourage victim blaming. It will also encourage youths to speak out and engage their parents and guardians who can help. We plan to display the content of our animations through OVAH website (www.ourcries.org), social media platforms, and partner with e-learning platforms, TV programs and Radio Channels programs as we also plan to tailor our content to audios. However, we realize that only awareness and education isn't effective enough to combat the problem of sexual abuse, OVAH will expand to provide a online and offline reporting service for sexual harassment such that the victims can be able to report these abuse and harassment and get the right help.

Website: http://www.ourcries.org/

Target Beneficiary Groups: YOUTH, WOMN

Replicable Description: A 2004 WHO review of research estimated the global prevalence of childhood sexual victimization to be about 27% among girls (WHO 2012). If financially equipped, we can make the animation multilingual and roll it in other countries.

Sustainable Description: It easy to attract business to advertise if there is an audience, Ads can be used as a revenue model for Mwajuma Simama!

WSIS Values Promotion: This project creates online education materials to educate girls and young women about sexual assault, which is promoting WSIS values in the community such as C3. Access to information and knowledge and C9. Media.

WSIS Action Lines: 3, 9

SDGs: SDG3, SDG5

Stakeholder Type: Civil Society

Country, Region: United Republic of Tanzania, Africa

OVAH

Our Voices Against Harassment

Girls Speak Out

Girls Speak Out is a youth led media initiative that aims to develop the media, advocacy and coding literacy skills of young women between the ages of 14-24 living in Zimbabwe's under-served communities through journalism, advocacy and code training, combined with civic leadership mentoring, designed to trigger community activism and bring about social change. Girls Speak Out offers free media, advocacy and code training to girls between the ages of 14 -24 living in low-income, high-density suburbs in Zimbabwe, helping to bridge the digital gap between the poor and the rich, and also helping to bridge the gender divide in the computer science, particularly in ICT. The organisation is working to create safe spaces of learning for girls who want to learn ICT and code, and also encouraging the girls to use their tech skills as tools for advocacy to address issues of concern in their local communities and spark social change.

Website: https://girlspeakout.co.zw/

Target Beneficiary Groups: YOUTH, WOMN, POOR

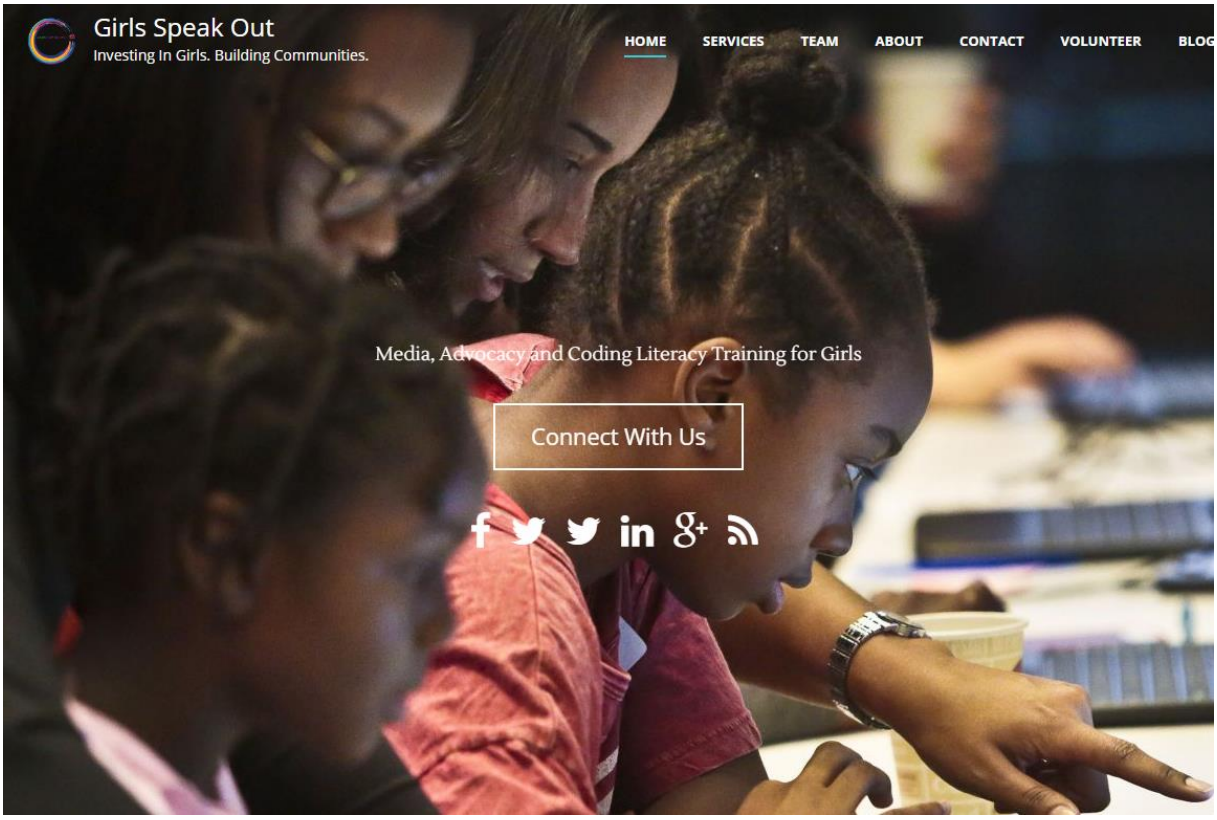
WSIS Values Promotion: The project aims to bridge the digital gap between the poor and the rich, and also helping to bridge the gender divide in the computer science, particularly in ICT.

WSIS Action Lines: 3, 4, LEA, 9

SDGs: SDG4, SDG5, SDG16

Stakeholder Type: Civil Society

Country, Region: Zimbabwe, Africa



WSIS Action Line C10. Ethical dimensions of the Information Society

Online Declaration of Accidents at Work of social insured persons

A new service is implemented by the CNAS through the Teledeclaration space, it is the online declaration of accidents at work by the employer for the benefit of his socially insured employees. This new service offers the possibility of declaring the accident at work through the Electronic Declaration portal, thus avoiding any travel caused by the traditional procedure and respecting the declaration deadlines in force (48 hours).The objectives of this measure lie in the dematerialization of the declaration of the work accident, while aligning with the strategy of the fund in terms of digitization and modernization of the services provided. To declare a work accident online from the Online declaration space, the employer proceeds as follows: - Accesses the "Declaration of Work Accident" (DWA) menu - Proceeds to the declaration of the work accident by filling in the form - Attach the required supporting documents (initial medical certificate). - After registration, the employer can complete his file by uploading the declaration (DWA). - The employer will then be able to follow the progress of his request from his online declaration portal. Once, the DWA submitted, the relevant departments of the fund process the declaration according to the working procedures in force. The employee will be notified progressively.

Website: https://teledeclaration.cnas.dz

Target Beneficiary Groups: YOUTH, OLDP, WOMN, DISB, POOR, RURL

Replicable Description: The experience gained during the development of this project can be reproduced, this project can be used as a platform experimental to promote the use of ICT in more countries in the world.

Sustainable Description: This service was implemented by the National Social Insurance Fund staff, no outsiders were required, even improvements are constantly being incorporated. Operation and management is carried out by own staff.

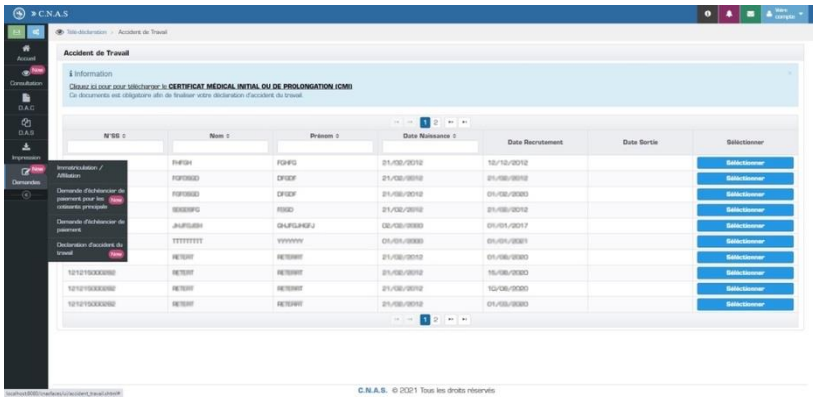
WSIS Values Promotion: WSIS aims to improve access to information through new ICTs, which contributes significantly to facilitation and modernization in carrying out the various activities at the institutional level.

WSIS Action Lines: 1, 10

SDGs: SDG3, SDG4, SDG8, SDG9

Stakeholder Type: Government

Country, Region: Algeria, Africa



e-Social internet portal

E-social portal, the Unified Social Register of Azerbaijan, was created under the Ministry of Labor and Social Protection of the Population. In this portal, you can get all the information you need about your social protection rights. Information about each citizen taken from the Centralized Electronic Information System is posted on the site. After registration, that information is only shown to the owner of the opened account. Each registered person has a password and without that password it is not possible to enter the system. After registering on the site, you will receive notices of the Employment Contract, pension provision, benefits, applications and appeals, targeted social assistance, personal capital, car and housing queue, etc. you will be able to see the information posted to your personal account. By following these data, you will be aware of your personal capital and aware of the identified changes. After entering your personal cabinet, your pension capital and all contract notices added to your personal account will be displayed here. At the same time, you can get information about the pensions and scholarships you receive here.

Website: https://e-sosial.az/#/index

Target Beneficiary Groups: YOUTH, OLDP, WOMN, DISB, UNEMP, POOR, MIGR, REFG, RURL

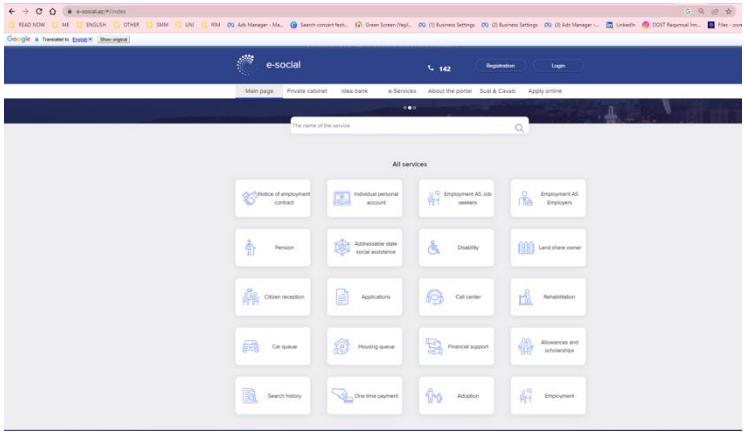
WSIS Values Promotion: We recognize that education, knowledge, information and communication are at the core of human progress, endeavour and well-being. Further, Information and Communication Technologies (ICTs) have an immense impact on virtually all aspects of our lives. The rapid progress of these technologies opens completely new opportunities to attain higher levels of development. The capacity of these technologies to reduce many traditional obstacles, especially those of time and distance, for the first time in history makes it possible to use the potential of these technologies for the benefit of millions of people in all corners of the world. In building the Information Society, we pay particular attention to the special needs of marginalized and vulnerable groups of society, including migrants, internally displaced persons and refugees, unemployed and underprivileged people, minorities and nomadic people. We also recognize the special needs of older persons and persons with disabilities. We are firmly convinced that we are together WSIS in our country entering a new era of enormous potential, that of the Information Society and expanded human communication. We are also committed to ensuring that the development of ICT applications and operation of services respects the rights of children as well as their protection and well-being.

WSIS Action Lines: 3, 10

SDGs: SDG8, SDG9

Stakeholder Type: Government

Country, Region: Azerbaijan, Eastern Europe



Age-friendliness of Mobile Internet Applications

The rapid development of information technology has profoundly changed people's way of production and life. However, due to physical defects and differences in Information skills level, the elderly face many obstacles in the process of integrating into the information society, and the digital divide is becoming increasingly prominent. This project thoroughly investigated the information needs of the elderly, understood the difficulties faced by the elderly in using information technologies, compiled relevant specifications for the general design of Internet applications, promoted the age-friendliness mobile Internet applications, and advocated the establishment of age-friendliness mobile Internet application download section in mobile app stores. The project studies the feasibility of basic operation enterprises and Internet enterprises to provide one-click access human customer service for the elderly and build offline digitization age-friendliness experience center, and advocates enterprises to provide such service for the elderly. The age-friendliness mobile Internet application has exerted great social influence and caused the problem of digital divide among the elderly. This project can draw attention of the international community to the difficulties of the elderly in using smart technology, and appeal more non-governmental organizations, enterprises, research institutions and other entities to contribute actively to the work of eliminating the digital divide among the elderly.

Website: http://cnwuzhangai.com/caict/wpas/user/login

Target Beneficiary Groups: OLDP

Replicable Description: The "General Design Specification for age-friendly of Mobile Internet Applications (APP)" and "Mobile Internet application (APP) age-friendly evaluation system" formulated in this project are the technical requirement for providing a more user-friendly experience for elderly. The Design Specification can be used to guide the age-friendly design of global APPs, which has strong reproducibility. The age-friendly evaluation index system proposed in the project is the first APP evaluation index system that takes into account both technical evaluation methods and user experience. It can be used to help the design of the APPs to better meet the needs of the elderly, allowing them to enjoy information accessibility.

Sustainable Description: 2022 is the second year for China to carry out the action of age-friendliness of mobile Internet applications. In the future, we will further promote the depth and breadth of the APP age-friendly development based on the existing work. Under the guidance of the Ministry of Industry and Information Technology, we participated in the formulation and introduction of a number of relevant policies, and promoted the optimization of more age-friendliness apps; Promote the upgrading of the standards and evaluation standards for age-friendliness and information accessibility APP to national standards, provide scientific guidance for age-friendliness and evaluation of Internet apps, and advocate and advocates that app should be designed according to the general design requirements at the beginning of development, and bring age-friendly into the whole life cycle of products and services; We will build a centralized display platform for age-appropriate transformation results, and promote the transformed APP to be known and used by more elderly people.

WSIS Values Promotion: Some apps in the fields of news, social communication, shopping, financial services, travel and medical care, which are closely related to the daily life of the elderly, have been age-friendly development. This makes it easier and more convenient for the elderly to use the Internet. Especially during the COVID-19 pandemic, the elderly can easily buy daily necessities and medicine. Meanwhile, we went into communities, elderly care institutions, universities for the elderly, etc., carried out research and digital technology training activities, and explored the "independent and mutual aid" teaching model for the

elderly. Age-friendliness of mobile internet applications are suitable for aging, providing the elderly with more comprehensive, considerate and direct facilitation services, so that the elderly can share their digital life. The relevant work results have attracted widespread attention from the society, and displayed in various activities such as the International Information and Communication Exhibition, and the World Internet Conference. In addition, this project also cooperates with Chinese Internet companies to set up a working group on information accessibility technology and intellectual property rights, Digitization Age-friendliness and Information Accessibility Alliance to innovate and promote the opening of technologies and intellectual property rights in the field of information accessibility, lower the threshold for other companies to participate in information accessibility work, and mobilize various active participation of the subject. Various measures have contributed Chinese wisdom and Chinese solutions to helping bridge the digital divide faced by elderly.

WSIS Action Lines: 2, 10

SDGs: SDG3, SDG4, SDG8, SDG10, SDG12, SDG16

Stakeholder Type: Academia

Country, Region: China, Asia and Pacific



Young Digital Volunteer Ambassadors

The JEAN program (Young Digital Ambassadors) is a new paradigm for reducing the digital divide by training rural populations through the training and supervision of young volunteers and local volunteers in digital embassies. These Embassies, based on the regional Cybercentres of the Agence Emploi Jeunes (AEJ) in Côte d'Ivoire, will be training, incubation and development cells for young volunteers and the population. The 02 main components are: (i) The human and technical training of young people to make them local trainers: These young people benefit from 300 hours of international training (CISCO, HP, etc.) oriented towards professions (Network Security and Cybersecurity, web-developer, IOT, Python, etc.) by online and face-to-face experts. After 06 months, their employability having increased, they can be employed (public and private) or be entrepreneurs. (ii) In return, these JEANs will form population targets: For 2022, 5,000 people who will benefit from training in basic digital skills provided by 1,000 JEANs in 100 municipalities (1,000 municipal officials, 2,500 students, 1,000 people from the informal sectors and 500 vulnerable people). Pending the mobilization of resources from various stakeholders, 12 JEAN have started training. At the end of 2021, 68 people in the rural town of Azaguié were trained.

Website: https://dtc.emsp.int/

Target Beneficiary Groups: YOUTH

Replicable Description: This JEAN project is based on 02 main components which are: 1. The training of young local trainers in digital professions 2. Training local populations in digital skills through appropriate programs and activities. Thus, these 02 processes will be carried out independently in each selected locality. As the program is designed, it will be a development instrument that can be reproduced in all the communes of Côte d'Ivoire by 2025 and even in the entire African sub-region.

Sustainable Description: The JEAN program empowers people to access and use digital for the benefit of their profession and livelihoods in an informed and responsible manner, as well as enabling local people to directly benefit from the policy of digital economy to create value and improve their quality of life. According to the results of the pilot phase of the project carried out since 2022, the challenges of exploiting the opportunities offered by digital technology by young people and populations are enormous. The Ivorian government has also made the digital economy a real strategic axis in its National Development Plan 2022-2025 and in its `Solidarity Côte d'Ivoire` policy, which aims to allow populations to benefit from the fallout from economic performance. Hence the establishment of a ministry entirely dedicated to the digital economy which has included digital skills as the 4th pillar of the national digital strategy; as well as a ministry in charge of youth employment which has provided a functional structure called “Agence Emploi Jeune”. In the medium term, this program will make it possible to involve all sections of the population who will be able to use digital technology to access digital applications and services deployed by the government and private companies. All this promoting equitable digital inclusion for all. Also, it will allow young people to take a real interest in digital technology as a vector for reducing the qualitative and quantitative fight against unemployment and the emergence of a new type of valued citizen committed to the transformation of Ivorian society. This will have the benefits of reducing the burden of expenses such as internet, training costs, travel costs and generates income for people. These are the result of local people expanding their perspectives through digital technology.

WSIS Values Promotion: This program aims to build on the Digital Transformation Centers initiative to change the paradigm of Ivorian youth through digital technology and support government efforts to create opportunities for human development and adding value to the

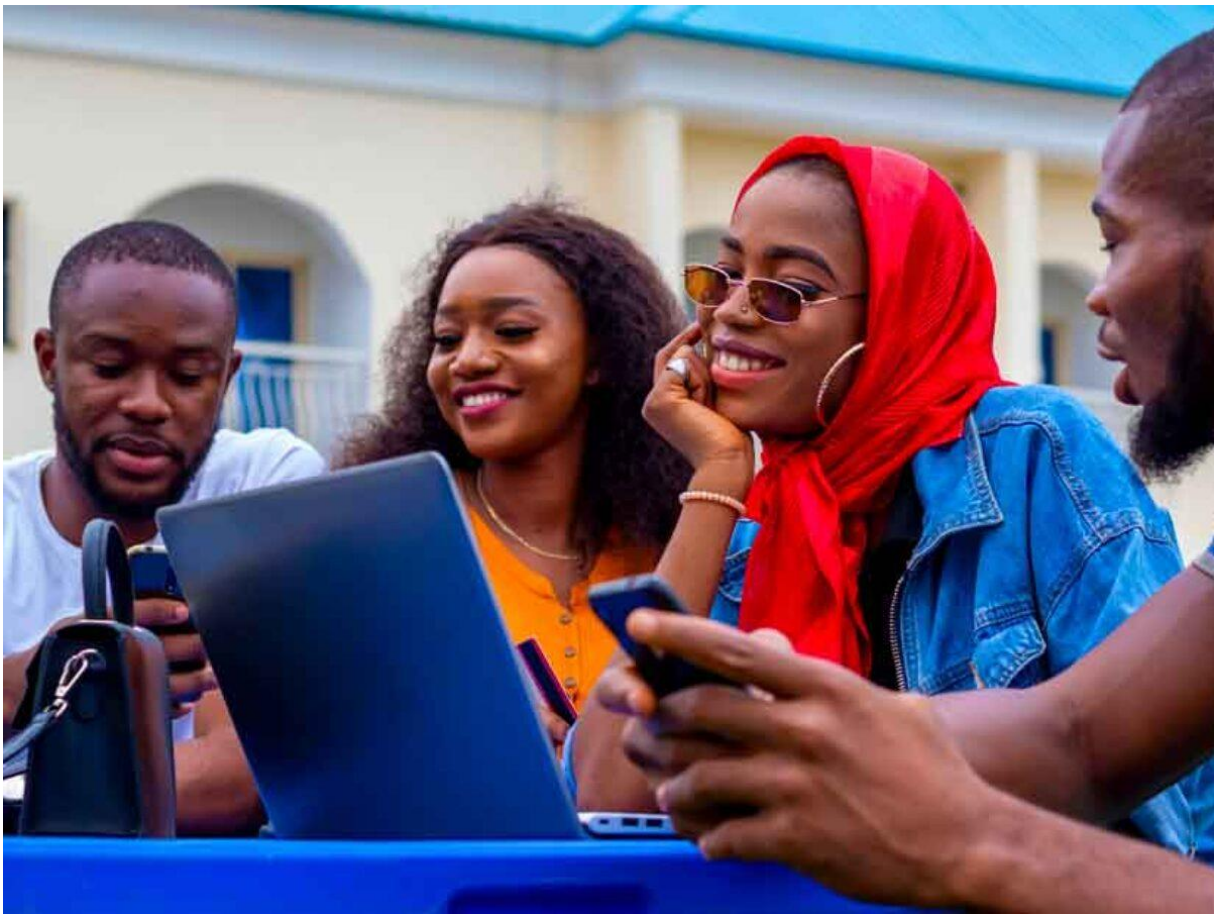
community. It promotes the digital and human skills of young people who will provide, at the local level, digital solutions for sustainable development by focusing on all aspects of people's daily lives.

WSIS Action Lines: 1, 2, 3, 4, 6, GOV, LEA, EMP, ENV, AGR, 8, 10, 11

SDGs: SDG1, SDG4, SDG5, SDG8, SDG10, SDG16, SDG17

Stakeholder Type: Academia

Country, Region: Côte d'Ivoire, Africa



Remaja Penggerak Literasi TIK Madiun (The Youth ITC Empowerment Literacy Madiun)

The Youth ICT Empowerment Literacy Madiun (Remaja Penggerak Literasi TIK Madiun) is a joint learning class program that targets junior high school level students, enabling youth to take part in good practices of producing positive content through journalistic activities on the internet, fighting hoaxes and strengthening digital literacy. The first joint activity between Openmadiun and SMPN 2 Madiun was held on 19-20 June 2019 at the Madiun City Library. With the training of training system, youth are expected to be able to transform ICT knowledge and educate the public, maintain a digital track record, minimize the negative impacts of ICT and prepare themselves for a demographic bonus. The joint learning class which is held every Friday afternoon after school consists of a content creator class and a citizen journalist class. It doesn't stop there. In the class The Youth ICT Empowerment literacy 2022, Openmadiun integrates citizen journalist issues with digital content production in the form of making news articles, infographics, videographics, news videos and news photos. From this class, they tried to compete in the East Java Citizens Journalist Award and won 1st and 2nd place in the infographic category, 2nd place in the videography category and the top 5 for making news articles.

Website: http://repelita.openmadiun.com

Target Beneficiary Groups: YOUTH, WOMN

Replicable Description: Yes. This program can be replicated because it is very easy and simple. What is needed to create this program is people who have the ability to teach citizen journalism materials and digital content creation at the junior high school level as well as schools that are willing to be invited to do this good work. Furthermore, content creation is published through digital channels such as websites and social media.

Sustainable Description: Yes, it is. In addition to providing simple, easy and free shared learning classes, the program will be developed into a network system of learning classes between students at the junior high school level from local, regional to national scale. Among them: 1. Provide facilities for schools that will implement a shared learning class system in the field of citizen journalism and digital literacy 2. Providing content using citizen journalist methods to deal with hoaxes and negative content 3. Developing hybrid-based services, namely online and offline for program affordability. 4. Develop a network of cooperation with many parties to further strengthen resource management

WSIS Values Promotion: The Youth ITC Empowerment Literacy Madiun is local paradigma to activities for freedom, solidarity, tolerance and shared responsibility to all people in term of "Quality Education"

WSIS Action Lines: 4, 5, 6, 8, 9, 10

SDGs: SDG3, SDG4, SDG5, SDG11, SDG13, SDG16

Stakeholder Type: Civil Society

Country, Region: Indonesia, Asia and Pacific



20.000+ Digital Literacy Movement: Indonesia Makin Cakap Digital

In 2020 the Ministry of Communication and Informatics (MCI) of Indonesia, collaboratively with Indonesian multi-stakeholders, launched the Digital Literacy National Movement, SIBERKREASI, which aims to develop Indonesians' digital literacy and increase its digital competencies. The implementation of the Digital Literacy National Movement program has been massively carried out since 2021 by organizing various digital literacy education and training activities. The program's main activity is Indonesia Makin Cakap Digital / IMCD (Indonesia: More Digitally Competent). Since its launch in May 2021, IMCD's activities have run massively and simultaneously in 34 Provinces and 514 cities/regions in Indonesia. Until November 2022, more than 15 million people in Indonesia have been digitally literate by joining more than 22 thousand IMCD movements (activities). As an achievement, IMCD participants accounted for 75% of the total Digital Literacy Program participants (or 20 million people) from 2021 to November 2022.

Website: http://literasidigital.id/

Target Beneficiary Groups: YOUTH, OLDP, WOMN, INDG, DISB, UNEMP, POOR, MIGR, REFG, RURL

Replicable Description: This program is replicable as part of the National Digital Literacy Program since the IMCD provides free-of-charge programs. Moreover, the MCI has provided free learning materials that can be accessed online through literasidigital.id.

Sustainable Description: To ensure the IMCD program's sustainability, the MCI collaborates with SIBERKREASI as the frontline in providing digital literacy to the community. This program also engages 125 multi-stakeholder partners and focuses on the pentahelix collaboration by engaging various stakeholders, such as the government, private sector, academia, media, civil society, and communities. With the collaboration strategy, our partners can extend our programs' arms with the needed support of the MCI.

WSIS Values Promotion: The IMCD National Digital Literacy Program ensures that all people acquire the knowledge and skill needed through digital literacy to promote sustainable development. The designed curriculum for IMCD also aims to educate Indonesian internet users on how to utilize the internet positively and responsibly to create a safe and valuable digital platform for all. Through this event, the MCI vigorously promotes and supports online safety (safeguard), fulfilment of rights, and human empowerment on the internet. The framework of IMCD serves as the foundation for educating people about personal risks, ethical imperatives, and online safety and ensuring that everyone has the same rights, freedoms, and access to the internet.

WSIS Action Lines: 10

SDGs: SDG4, SDG9

Stakeholder Type: Government

Country, Region: Indonesia, Asia and Pacific



Inclusive Digital Literacy to Empower People with Disabilities

The Inclusive Digital Literacy Program provides education for people with disabilities through seminars, webinars, and hands-on activities. In its implementation, the substances are designed according to the target's needs based on the four pillars of digital literacy: digital skills, digital security, digital ethics, and digital culture. These classes include the "Podcast for our Friends with visual impairment", which was held in 2020, 9 inclusive digital literacy webinars in 2021 with topics ranging from safety and culture in the digital space to distance learning strategies for our friends with disability, as well as 12 classes of Podcast for Friends for people with disabilities and two inclusive digital literacy webinars in 2022.

Website: https://siberkreasi.id/

Target Beneficiary Groups: DISB

Replicable Description: The project is highly replicable since we provide free documentation of learning material through the YouTube channel (Siberkreasi) and a free digital literacy e-book at literasidigital.id. Our YouTube channel will help our friends with visual impairment access digital literacy materials, whereas digital literacy e-books are dedicated to our friends with hearing impairments. Hence, all people possess equal access to digital literacy materials, not only Indonesians but also our friends with disability worldwide. Similarly, the Podcast Class is also replicable as we used affordable technology during the class. Thus, our friends with disabilities can easily practice anywhere and anytime to sharpen their talents.

Sustainable Description: The initiative is outlined in the 2020-2024 Roadmap of the National Digital Literacy Program to ensure the project's sustainability. By doing so, the program will be continuously implemented and facilitated by the Indonesian government, in this case, the Ministry of Communication and Informatics (MCI) of Indonesia. Besides, maintaining partnerships also becomes our strategy to sustain the project. In this regard, we create local championship (local movement or project that contributes to local digital development) and work for hand in hand with them and other multi-stakeholders to open broad access to digital literacy education, particularly for people with disabilities.

WSIS Values Promotion: The Inclusive Digital Literacy Program promotes equality, solidarity, and shared responsibility within our communities. Regarding equality, the Inclusive Digital Literacy Program provides equal opportunities for people with disabilities to access and receive ICTs education and training. Therefore, they see themselves as similar to others, and the willingness to learn and grow can ignite within them. Moreover, our program also ignites the feeling and value of solidarity among organizations and communities with the same interest. It built up their awareness that inclusive ICTs education is a shared responsibility and not merely the responsibility of a particular party. Hence, they feel inspired to start the same movement for people with disabilities in their regions.

WSIS Action Lines: 3, 8, 10

SDGs: SDG4, SDG10

Stakeholder Type: Civil Society

Country, Region: Indonesia, Asia and Pacific



Crimebot

Crimebot limited is a Jamaican startup focused on using technology to solve crime. It is a mobile application that allows users to anonymously report crimes and criminals. It pinpoints crime hotspots and uses push alerts to notify users of crimes near their current location. CrimeBot is a mobile app which alerts users by using crime reports, giving users a live view of what's happening around them by the minute. Crimebot uses notifications, crime hot-spot illustrations and even allows the submission of completely anonymous crime reports. With CrimeBot, we are trying to reduce crimes and criminal activities in the Caribbean and beyond by giving a voice to the voiceless.

Website: https://www.facebook.com/pg/Crimebotjm/about/?ref=page_internal

WSIS Values Promotion: Use of ICTs for security

WSIS Action Lines: 5, GOV, 10

SDGs: SDG11, SDG16, SDG17

Stakeholder Type: Civil Society

Country, Region: Jamaica, Latin America and the Caribbean



ICT Village Education and Development Initiative

Youth Business Movement a leading youth community-based organization under Chiponde Business Group working for the capacity development of youths and women that turns job seekers to job creators. It was also established in order to create a resourceful networking database for those with a strong interest in entrepreneurship and introducing business startup, Innovation and Good Governance in the capacity of youth in Malawi for developing positive leadership skills and to espouse an honest work ethic. Youth business Movement Initiative was established in 2016 serving vulnerable Youths and women affected by education and promoting youth and women entrepreneurship and enterprises through the provision of business incubation services and innovation programs. Broadly, the empowering youths for improved employability in decent work and sustainable entrepreneurship in Malawi project is designed to offer youths development service in the area of entrepreneurship and enterprises through provision of business incubation services in the key focus areas of Agriculture, innovation, interior designing and ICT. Our vision is to improve youth, student's achievement by using ICT in new and creative ways, encouraging variety in the way the curriculum is delivered to inspire wonder and awe in our students. We hope to provide a curriculum which prepares students for the demands of the technological world of the future. We want to use ICT in innovative ways to enhance attainment in our students and to support the development of a more tailored and diverse curriculum which enhances students' creativity and exploits opportunities to inspire wonder and awe within them. We want to use ICT to engage students in the concept of the global village and challenge how they see themselves within this world. We want to be open to experimentation with new technological developments and working styles which could enhance the service we provide.

Website:
https://www.facebook.com/pg/chipondebusinessgroup/community/?mt_nav=0&msite_tab_async=0

Target Beneficiary Groups: WOMN

WSIS Values Promotion: Each person should have the opportunity to acquire the necessary skills and knowledge in order to understand, participate actively in, and benefit fully from, the Information Society and the knowledge economy. Literacy and universal primary education are key factors for building a fully inclusive information society, paying particular attention to the special needs of girls and women. Given the wide range of ICT and information specialists required at all levels, building institutional capacity deserves special attention. Continuous and adult education, re-training, life-long learning, distance-learning and other special services, such as telemedicine, can make an essential contribution to employability and help people benefit from the new opportunities offered by ICTs for traditional jobs, self-employment and new professions. Awareness and literacy in ICTs are an essential foundation in this regard. To achieve a sustainable development of the Information Society, national capability in ICT research and development should be enhanced. Furthermore, partnerships, in particular between and among developed and developing countries, including countries with economies in transition, in research and development, technology transfer, manufacturing and utilization of ICT products and services are crucial for promoting capacity building and global participation in the Information Society. The manufacture of ICTs presents a significant opportunity for creation of wealth. The attainment of our shared aspirations, in particular for developing countries and countries with economies in transition, to become fully-fledged members of the Information Society, and their positive integration into the knowledge economy, depends largely on increased capacity building in the areas of education, technology know-how and access to information, which are major factors in determining development and competitiveness.

WSIS Action Lines: 4, BUS, 10

SDGs: SDG5, SDG16

Stakeholder Type: Civil Society

Country, Region: Malawi, Africa



Klik Dengan Bijak (Click Wisely)

Klik Dengan Bijak (Click Wisely) takes a holistic approach on awareness and education on Internet safety and security by promoting a shared culture or responsibility with families, schools, industry, government, and others in the community, all playing their part in promoting positive use of the Internet. The programme hopes to:-a) Generate literate users of technology and new media content (Internet savvy);b) Create a sense of responsibility among Internet users to be ethical and sensitive to other users;c) Educate Internet users about the importance of self-regulation; and) Create a safe environment for the users of the Internet. The programme incorporates the values enshrined in Malaysia's Rukun Negara (National Principles), and its main themes are to promote safety, security and responsibility amongst Internet users. This campaign has been strengthened during COVID-19 pandemic as more people are going online for work, study, entertainment and even connection with friends and family. Thus, digital and Internet safety issues are increasingly important across Malaysia and around the world. Malaysian Communications and Multimedia Commission (MCMC) also collaborated with various agencies to provide a platform for strategic partners to raise media literacy awareness as an alternative measure to content restriction by a government body.

Website: https://klikdenganbijak.my

Target Beneficiary Groups: YOUTH, OLDP, WOMN, INDG, DISB, UNEMP, POOR, MIGR, REFG, RURL

Replicable Description: Klik Dengan Bijak (Click Wisely) can be replicated by any stakeholders that aims to promote safety, security and responsibility amongst Internet users. One of the methods that has been developed was the Train of Trainers (ToT) workshop, which is intended to engage and train local advocators among the community. A ToT workshop can build a pool of competent advocators who can deliver advocacy and awareness messages to the local community.

Sustainable Description: Klik Dengan Bijak (Click Wisely) is continuing its mission by promoting a shared culture or responsibility in the community for them to play their part in promoting positive use of the Internet.

WSIS Values Promotion: Klik Dengan Bijak (Click Wisely) aspires to create a much safer and more rewarding online experience for our future generation where the information society should respect the peace and uphold the fundamental values of freedom, equality, solidarity, tolerance, and shared responsibility.

WSIS Action Lines: 10

SDGs: SDG3, SDG4, SDG5, SDG8, SDG11, SDG16

Stakeholder Type: Government

Country, Region: Malaysia,
Asia and Pacific



Centro i para la Sociedad del Futuro

Centro-i is a think-and-do tank that produces high-quality research and convenes citizens and agents of change to build a sustainable future, where the digital and technological ecosystem is at the service of humanity, based on the principles of inclusion, ethics, responsibility and the full use of the gender bonus. Centro-i promotes informed, diverse and participatory public debate through public forums, publications, podcasts and permanent outreach campaigns. We take a systemic approach to produce structural change, which reflects on our actions: • promoting before the legislature the right to culture, plurality and access to information within the possibility of regulation of cinematographic creation and digital platforms. • defending through legal actions that in Mexico the right to digital inclusion be maintained without conditioning it on people exposing their biometric data. • developing principles to build smart cities that are digital, feminist/inclusive, resilient and efficient. • calling students for a competition on economic regulation of the digital and technological ecosystem. • launching a platform to promote Mexico's digital transformation and calling for collaboration among citizens, public and private entities on efforts that are currently uncoordinated, where inclusion should be a central element of innovation. • and collaborating with UNESCO to promote the ethical use of artificial intelligence.

Website: http://www.centroi.org

Target Beneficiary Groups: YOUTH, OLDP, WOMN, INDG, DISB, UNEMP, POOR, MIGR, REFG, RURL

Replicable Description: The model and approach of Centro-i can be adopted by other organisations. Our principles and methodological approach are public in our sites and everything is public. We also welcome collaboration with other organisations in order to disseminate our focus on ethics, responsibility and inclusion, as well as systemic analysis and proposals.

Sustainable Description: We look for public and private funding of our projects, as well as public donations. We have been successful and thus sustainable up to this date, though we need to continue searching for new donors and sources of funds.

WSIS Values Promotion: Centro i is founded on an understanding of ICTs as inextricably related with sustainable future development, justice, and the advancement of human rights. We focus on issues like inclusion, gender equality and technological adoption investment, while recognizing each of these challenges as part of an interwoven system. Our purpose is to produce and promote research, policy, and interdisciplinary, multi-party discussions which contribute to a future Information Society.

WSIS Action Lines: 1, 2, 3, 4, 6, 8, 10

SDGs: SDG5, SDG8, SDG9, SDG11, SDG16

Stakeholder Type: Civil Society

Country, Region: Mexico, Latin America and the Caribbean

Nabheni App for Deaf People

We are students at Secondary School for Girls, Grade 11, 10the idea of Nabheni App lit up at our mind while we walk on street after back from school time. The car started a honking then we jump at safe side but someone did't show any reaction and People called him to pay attention, he didn't appear any response after that we realized he were a deaf people.The Deafness or hearing loss is the inability to hear partially or completely. According to the World Health Organization, 5% of the world's as Over of 430 million people population suffers from hearing problems, especially in Palestine Regarding to Palestinian Central of Statistics data. More than 28,950 people suffer from hearing problems "deaf" in the West Bank and Gaza Strip. The sounds divided into two types :- Dangerous sound detect:-such as Fire Alarm, Car Horn, Dog Barking- Normal sound detect:-such as Doorbell, Door Knock, Baby Crying, Laughter, Cat MeowWith this issue we start work on solution by using new technology we created Nabheni mobile app based AI such as sound recognition to help deaf people to know the sound event surrounded of them the app will detect the sound then will show image of sound type and mobile will vibrate, for example Baby cry App will detect sound of baby crying then will show image related to baby cry and vibrate to notify user another sample car start honking on the street Nabheni app will detect of sound Car Horn then show image of car horn and Vibrate also when Fire Alarm started the Nabheni app will detect the sound of Fire Alarm then show image of Fire Alarm and Vibrate. Also Nabheni app send signal to Bluetooth device contain some led with different colors such as blue for Baby cry and Red for fire alarm sound Our app have a good value that work offline & Support different languages Future work :We prepare to create a smart bracelet contain led with different colors related to different sounds detection. Add Chat system at app.

Website: https://play.google.com/store/apps/details?id=com.deaf.sounddetect

Target Beneficiary Groups: OLDP, DISB

Replicable Description: We applied Nabheni app and tested it locally at deaf people in our country then replicate and distribute app to other country by uploaded it into google play then many deaf people from different country downloaded it. Nabheni app run sound detect offline & Support different languages. Also, Nabheni able to enhancement and add more features such as chat system that will keep people contact with friends and share sound that the detected using app also we are looking to add more sound detection algorithm for many sound type, another things we will make smart bracelet contain led with different colors for different sounds type detection.

Sustainable Description: Nabheni Mobile App will helps to remove the communication barriers that divide deaf people and sound event surrounded them, Nabheni App long-term future and is it capable of sustaining itself by add chat system and make future work as Smart Bracelet / Smart watch.

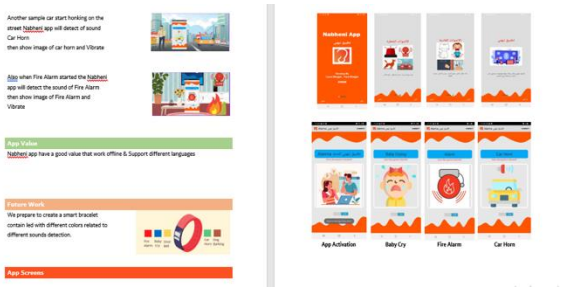
WSIS Values Promotion: Nabheni App will promote WSIS values such as Enabling environment, Sustainable development, ensure that everyone deaf people or other who want to know the sound detection can benefit from the opportunities that Nabheni App provide it.

WSIS Action Lines: 6, HEA, 10

SDGs: SDG3, SDG11, SDG13, SDG16

Stakeholder Type: Academia

Country, Region: Palestine,
Western Europe and North America



National Volunteers Portal

A pioneering Saudi incubator for volunteer work that contributes to providing a stimulating environment and regulating the relationship between the providers of volunteer opportunities and volunteers. It aims to support government and non-profit sectors in the Kingdom by facilitating the opportunities to attract cadres of volunteers to practice their volunteer work in a safe environment. Objectives: 1. Protecting volunteer work from misuse. 2. An interactive platform between volunteers and entities. 3. Reducing costs and contributing to improving services for the sectors. 4. Documenting the voluntary efforts of individuals and entities. 5. Facilitate volunteers' access to volunteer opportunities of all kinds. 6. Providing volunteers for different sectors with different specializations. 7. Monitoring indicators of volunteer work. Most important Platform Features and Benefits: Linking (integration) to the National Information CenterEasy and easy access for volunteers to volunteer opportunities get notifications about volunteer opportunities according to the volunteer's interests monitor and document volunteer hours providing specialized volunteer opportunities with a social and economic impact

Website: https://nvg.gov.sa/

Target Beneficiary Groups: YOUTH, OLDP, WOMN, INDG, DISB, UNEMP, POOR, MIGR, REFG, RURL

Replicable Description: Yes, the main features and services provided, was developed based on best practices and experts in volunteering field, this feature should be taken as a benchmark for any project in the same field. NVG could compete best portals regionally and worldwide.

Sustainable Description: Yes, by creating products within the platform, subscriptions for entities, and sponsorships.

WSIS Values Promotion: The project Objectives: 1. Protecting volunteer work from misuse. 2. An interactive platform between volunteers and entities. 3. Reducing costs and contributing to improving services for the sectors. 4. Documenting the voluntary efforts of individuals and entities. 5. Facilitate volunteers' access to volunteer opportunities of all kinds. 6. Providing volunteers for different sectors with different specializations. 7. Monitoring indicators of volunteer work.

WSIS Action Lines: 1, 2, 3, 4, 5, 6, GOV, LEA, HEA, EMP, ENV, AGR, SCI, 8, 9, 10

SDGs: SDG1, SDG2, SDG3, SDG4, SDG5, SDG6, SDG7, SDG8, SDG9, SDG10, SDG13, SDG14, SDG15, SDG16, SDG17

Stakeholder Type: Government

Country, Region: Saudi Arabia, Asia and Pacific



m-Women

Launched by Orange in 2015 the m-Women programme promotes women's self-sufficiency through the use of digital technology offering essential services tailored to their needs, with support from local stakeholders. Digital inclusion for women aims to boost their contribution to sustained social and economic growth. In Africa, women are the core of the family. Women manage most aspects of everyday life, from healthcare to food, agriculture, schooling, management of the family finances, and trading. Regardless of their status they are an essential part of the social apparatus. This is why the digital inclusion of these millions of informal "micro-entrepreneurs" constitutes a formidable growth driver for social and economic development. Providing women with access to the essential services that will facilitate and improve their daily lives through an ordinary mobile phone is part of a broader approach driving progress and shared value-creation. Activities: challenges on ICT, leadership and self-confidence workshop, road show. Objectives: 20% of women in Senegal use digital to improve their activities

Website: https://www.orange.com/content/download/47127/1371289/version/2/file/M-Women_2018+GB.PDF

Target Beneficiary Groups: WOMN

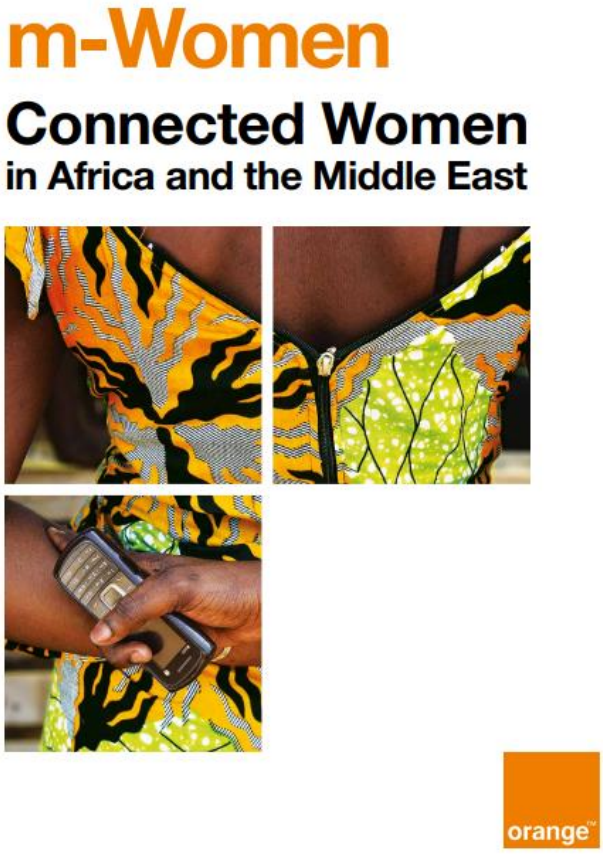
WSIS Values Promotion: The m-Women programme promotes women's self-sufficiency through the use of digital technology.

WSIS Action Lines: 1, 2, 4, 10

SDGs: SDG5, SDG16

Stakeholder Type: Private Sector

Country, Region: Senegal, Africa



Gender Based Violence

The iSchool Press Team programme gives young people the opportunity to voice your opinions on issues and subjects important to them. This is a unique platform where you use recording devices to learn more, do more and say more. Viewpoints are captured in two-minute videos where you brainstorm, script, film and edit your 'masterpieces' which are then shared through a multitude of platforms for the world to see. iSchoolAfrica Educational Trust's key vehicle to invest in the lives of our youth is its successful iSchool Press Team programme (iSPT).It is iSchool Press Team's aim is to give young South Africa a voice by allowing them to share their opinions on critical issues that affect them so that they become vehicles of positive social change. This is why, we partnered with the United Nations Children's Fund (UNICEF), South Africa, to launch a campaign to give the youth an impactful and inspirational platform to speak out and be the voice of children too afraid to speak against GBV.

Website: http://www.ischoolpressteam.co.za/contact/

Target Beneficiary Groups: YOUTH

WSIS Values Promotion: By giving the youth an impactful and inspirational platform to speak out.

WSIS Action Lines: 3, 4, 10

SDGs: SDG4, SDG16

Stakeholder Type: Civil Society

Country, Region: South Africa, Africa



Tunisian government analyzes emergency call data to understand COVID-19 spread and provide more effective emergency response

`Established in 2004, the Ministry of Communication Technologies and Digital Economy (MTCEN) is an agency of the Tunisian government focused on improving Tunisia's communications sector and acquiring new technology to serve the country's 11 million people. With the onset of the COVID-19 pandemic, the Tunisian emergency services saw a sudden, dramatic spike in incoming phone calls. They received more than 450,000 calls in the first month of the pandemic — the equivalent of two years' worth in pre-pandemic times. Unable to reach an operator, citizens were calling up to 10 times each. While some calls were placed to a dedicated COVID-19 hotline, many were placed to 1-9-0, the country's general emergency number. The volume of calls put a strain on emergency services, restricting their ability to provide fast, effective care to those who needed it most. The number of virus-related calls to 1-9-0, rather than to the hotline, limited MTCEN's efforts to track the spread of the virus. Greater understanding of their call data was key to organizing a consistent, effective response to the virus. MTCEN worked alongside Targa Consult and Ooredoo, Tunisia's largest telecommunications provider, to create dashboards that provide critical insights into call volumes, times, and geographical variation. Operational in just 24 hours, the dashboards allowed Emergency Doctors to explore and interact with the call data, and make necessary operational changes. MTCEN also discovered that 57% of calls to the emergency number were under 30 seconds, indicating callers were hanging up before reaching an operator. By visualizing average call length and average number of calls per person, operators can now call people back who were unable to reach the emergency number, ensuring citizens receive the critical response they need.

Website: http://www.targa-consult.com

Target Beneficiary Groups: YOUTH, OLDP, WOMN, INDG, DISB, UNEMP, POOR, MIGR, REFG, RURL

Replicable Description: The concept can be replicated in any country provided we have access to the data either thru Telecom or call center companies.

Sustainable Description: The Tunisian Medical Emergency Organisation (SAMU) has expressed interest to have access to the tool after the COVID19 to analyse calls and discover patterns.

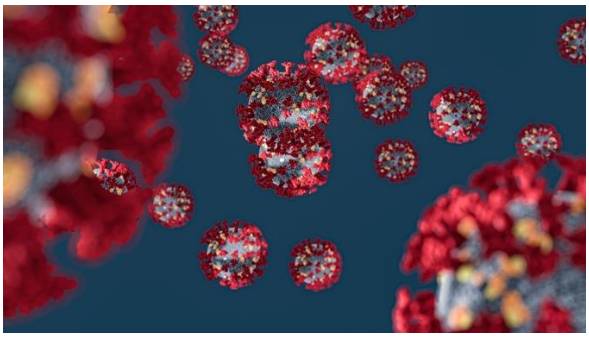
WSIS Values Promotion: Data Anaylsis and Data Visualisation dashboards that provide critical insights into call volumes, times, and geographical variation. Operational in just 24 hours, the dashboards allowed Emergency Doctors to explore and interact with the call data and make necessary operational changes.

WSIS Action Lines: 1, 3, 4, 6, HEA, 10

SDGs: SDG3, SDG10

Stakeholder Type: Private Sector

Country, Region: Tunisia, Africa



Günışığı (Sunshine) Project

Günışığı (Sunshine) corporate social responsibility project provides early intervention education to visually impaired children who are legally accepted as “blind”. The project stands out as the only example of its kind in Turkey and in the World in terms of addressing the problem. Thanks to Sunshine Project, the tailored trainings enable children with 1% to 10% vision, who are considered to be totally blind, to lead their lives without the help of others and continue inclusive education instead of a school for the visually impaired with early intervention. In order to support the education of those visually impaired children, Turk Telekom broke new ground with the technological developments it carried out within the scope of the project. Türk Telekom’s R&D unit designed the Günışığı Games, the world’s first smartphone application in this field. Designed to help children with low vision to improve their visual skills and their hand-eye coordination functionally, the Günışığı Games can also be used by the elderly with weakened vision. In addition, Türk Telekom launched the "Sunshine in My School" trainings in classrooms in order to support the inclusive education of the children involved in the Günışığı project, enabling thousands of educators to receive awareness seminars. Developed by Türk Telekom’s R&D unit, the “TahtApp” application offers an innovative solution which facilitates the follow up of in-class education for Günışığı children, who study in the same classes with their peers without disabilities.

Website: http://www.turkiyeyedeger.com.tr/gun-isigi/

Target Beneficiary Groups: DISB

Replicable Description: In 2021-2022, the project extend its scope and start a series of online education. Online educations were provided to individuals of all ages with visual impairments, including children with low vision and their parents, veterans with visual impairment, the elderly, and adults who were diagnosed as blind but had visual remnants. With these programs, which set out with the target of 5000 online participants, approximately 7000 participants were reached. The project has been carried out by distanced education, almost 8 years in Turkey 7 provinces and 81 cities. The project is updated every year according to the needs. For example, Türk Telekom launched the Okulumda Günışığı (Sunshine in My School) trainings in classrooms in order to support the inclusive education of the children involved in the Günışığı project, enabling thousands of educators to receive awareness seminars. Developed by Türk Telekom’s R&D unit, the “TahtApp” software offers an innovative solution which facilitates the follow up of in-class education for Günışığı children, who study in the same classes with their peers without disabilities. The Günışığı Open Learning Platform was established in April 2020 for children with low vision, considering the pandemic conditions. In this way, children with low vision and their families were supported with the live-broadcast training given by different branch teachers every weekday. In 2021, the goal of expanding the project to 81 provinces was achieved, and the low vision awareness trainings provided to 70 Günışığı Children and their families were completed through distance learning. The Sunshine of Art Education Programme, conducted by Türk Telekom and Istanbul Modern in cooperation, brought the children of Company employees and children of Günışığı together with art. In 2021, 10 art workshops and 4 online museum tours were held as part of programme.

Sustainable Description: Türk Telekom offers information technologies, which are the main driving force for sustainable economic growth and social development, to use in every corner of Turkey, and considers it its corporate responsibility to contribute to the access to information of all segments who cannot participate in social life due to economic, social or physical difficulties, in addition to the products and services it develops. Türk Telekom supports the United Nations Sustainable Development goals with its projects. In our country, since all eye-related problems are defined under the name of visual disability in the reports of

the health board diagnosing the disability, a separate data on those with low vision could not be brought about. However, with the Sunshine Project, the term "low vision" has been used in some reports, albeit a little. According to the data of the Disabled and Elderly Statistics Report published by the Ministry of Family and Social Services in April 2021, the number of people with visual difficulties is 1,039,000. The World Health Organization defines 80% of the visually impaired as low vision. Based on this data, it is estimated that 831,000 people in Turkey have low vision. In addition, the concept of "low vision" in our country and all CSR studies in this field were launched after the leadership of the Sunshine Project. Therefore, there is much to be done and a long way to go in this field for the people with "low vision" in our country.

WSIS Values Promotion: Equality: It helps children with low vision to participate in life as independent individuals by eliminating the inequalities they experience in education life in Turkey. It enables them to continue their inclusive education with their peers without disabilities. The project, which was a first in the world in order to offer the same opportunity to the each part of the country, made it possible to provide the said early intervention trainings remotely. The previously mentioned TahtApp application was developed so that children with low vision who share the same classrooms with their peers without disabilities can follow the lesson under equal conditions, and the quality of in-class education has been increased for the whole class. In schools where Sunshine children attend, awareness seminars were provided to educators for the education of low vision.

WSIS Action Lines: 3, 4, LEA, 10

SDGs: SDG4

Stakeholder Type: Private Sector

Country, Region: Turkey, Western Europe and North America



Barrier-Free Presidency Communication Centre

Presidency Communication Centre has been made accessible for people with visual, hearing and speech disabilities to exercise their right to information, under the name of “Barrier-Free CIMER”. In line with the goal of "New mechanisms will be created to strengthen the nation-state relationship in order to raise the standards of democracy", which is included in the "Good Governance" title of the 2022 Presidential Annual Program, it is aimed to implement the "Barrier-Free CİMER" project in order to ensure the accessibility of our hearing, speech and visually impaired citizens to CIMER. In this context: As a result of the work carried out with the Ministry of Family and Social Services, CIMER has been made accessible to our visually impaired citizens since the beginning of 2022.As a result of the joint efforts with the 112 Emergency Call Center of the Ministry of Interior, the visual application of our citizens with hearing and speech disabilities to CIMER and the translation of the answer to them by sign language interpreters after the response to their applications were completed.

Website: https://www.cimer.gov.tr

Target Beneficiary Groups: DISB

Replicable Description: This project can be developed within the context of emerging information technologies and emerging social needs.

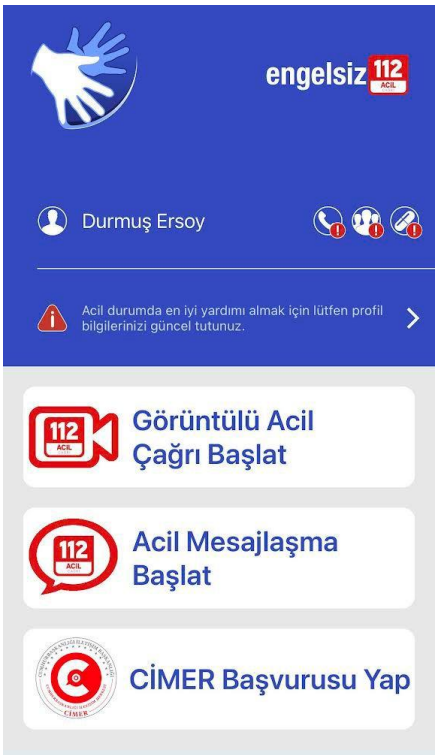
WSIS Values Promotion: Established in 2018, the Presidency Communication Centre (CIMER) is an electronic public service tool created for Turkish citizens and foreigners residing in Türkiye to exercise their right to information from public institutions. www.cimer.gov.tr and e-government via internet; via telephone by calling 150 or via mail and fax; applications can be made to CIMER. Hearing and speech-impaired people can easily apply with the mobile application provided to them. CIMER, where approximately 25 thousand applications are made throughout the country every day, is a great communication platform where people from all segments of the society can easily apply and convey their opinions, criticisms and requests for information on any subject. Considering that there are nearly 3 million visually, hearing and speech impaired people across the country; accessibility of people with disabilities to the state is ensured.

WSIS Action Lines: 2, 10

SDGs: SDG16

Stakeholder Type: Government

Country, Region: Turkey,
Western Europe and North America



UAE Cyber Pulse

The UAE Government Cyber Security Council has launched the "Cyber Pulse" initiative, which aims to ensure a safe digital transformation for individuals and sectors in the country. The initiative is designed to enable the use of digital technology in a safer environment and contribute to the country's goals of sustainable development. The UAECSC seek to transform cybersecurity into a common and permanent concern for society. This is because securing the country's cyberspace is the responsibility of all individuals and society. The first phase of the initiative, called the "Women's Cyber Pulse Initiative," in cooperation with the General Women's Union. The initiative included a training workshop for 50 female participants to provide them with advanced knowledge and expertise in cybersecurity. The goal of the workshop, which will be followed by additional workshops, is to have each trainee become a channel for spreading cyber awareness to as many members of society as possible and to train other groups of women. By continuing to provide training and increasing awareness, the initiative aims to extend the reach of cybersecurity to all segments and regions of society. The Project has 3 Components:1- Cyber Preventive Shield: which focuses on building capacity and increase the technical expertise of employees to reduce cyber threats and attacks.2- Cyber Pulse: Community focused program that provides awareness to all community segments.3- Cyber Future Leaders: A program that focuses on the organizational leadership of all UAE entities starting with CXOs all the way down to managers and directors.

Website: https://twitter.com/cscgovae

Target Beneficiary Groups: YOUTH, OLDP, WOMN, DISB

Replicable Description: The project is replicable as it has a clear and straightforward plan that can be easily followed by others. This plan includes all the necessary steps and resources needed to successfully implement the cyber pulse project. Cyber Pulse is designed in a way that allows it to be adapted to different environments and situations including countries at different levels of technological maturity. while still achieving its intended goals. Additionally, the project is well documented and include detailed instructions, so that others can easily replicate it. The project has a diverse group of stakeholders in its development and planning. additionally, all materials, outputs, documents, training guides will be shared with the ITU for further implementation.

Sustainable Description: The project has a diverse group of stakeholders in its development and planning. This can help to identify potential challenges and obstacles and ensure that the project is designed in a way that considers the long-term impacts of its activities. Additionally, it is regularly monitored and evaluated to ensure that it is achieving its intended goals and making progress towards sustainability. The project can is designed and implemented in a way that is sustainable over the long-term.

WSIS Values Promotion: To promote WSIS values, UAE CSC is conducting the following steps: Educate the community about the WSIS values and their importance. Advocate for the WSIS values the community and among decision-makers. Support organizations and initiatives that are working to promote the WSIS values. Encourage the adoption of policies and practices that are consistent with the WSIS values.

WSIS Action Lines: 1, 10

SDGs: SDG3, SDG4, SDG5, SDG8, SDG9, SDG10, SDG17

Stakeholder Type: Government

Country, Region: United Arab Emirates, Asia and Pacific



Digital Grassroots Ambassadors Program

Digital Grassroots (DIGRA) is a youth and female led initiative aimed at promoting internet governance awareness in order to promote digital inclusion in underserved communities. We work with young people between the ages of 14 and 29 through the Digital Grassroots Ambassadors program. The program enables young people to learn about digital rights and Internet governance issues and how they can be part of the solution. THE AMBASSADORS PROGRAM in 2018, we hosted three cohorts of the DIGRA Ambassadors program. The third cohort was hosted in French to reach to the Francophone youth. In 2018 alone, we reached over 1000 people in 40 communities, trained over 300 youth in digital literacy, mentored at least 100 young people by matching them to experts in Internet Governance. Through capacity building from our program, our ambassadors hosted at least 10 Internet Governance workshops/trainings with support from partners. COMMUNITY LEADERS in 2019, we created a Community Leaders program to train our Ambassadors on Community Leadership in Internet Governance. In our pilot cohort, we focused on countries where young people are facing digital rights abuses. This June, we are training more Ambassadors in cohort 4 of our program, where we received more than 800 applications for 100 slots. OBJECTIVES Digital grassroots responds to the existing gap of youth participation in issues related to Internet Governance. Through our ambassador's program, we build the capacity of youth to be internet leaders in their communities. ACTIVITIES Our activities include: - Digital Grassroots Ambassadors program (4 weeks internet literacy training. 4 weeks mentorship) - Community Leaders program (4 weeks leadership study and community engagement. 4-week mentorship.) - Research and reports including Communique: Youth Resolutions in Internet Governance - Edutainment Games including Digital Rights Monopoly - Youth in Internet Governance events including Schools of Internet Governance, and Youth Coalitions in Internet Governance.

Website: https://www.digitalgrassroots.org

Target Beneficiary Groups: YOUTH, WOMN

Replicable Description: Digital Grassroots offers the Ambassadors program in English. This course was fully replicated in French for the Francophone youth across the globe – this included translation of the Internet Literacy Course, training and mentorship in French. Our ambassadors have replicated the Digital Grassroots Internet Literacy trainings through workshops in their university in Ghana and Congo DR respectively. Two of our ambassadors also joined Digital Grassroots board as we work open, our ambassadors also take ownership of the project.

Sustainable Description: All our programs are gender responsive, and we ensure 50-50 gender disparity is achieved in all our activities. Our aim is to: - Build the capacity of youth leaders serving their communities in internet related spaces - Create a strong support network of young people working towards influencing healthier internet policies, research, and community engagement in internet issues - Create effective programs to introduce young people to the space of internet governance - Build more youth leaders in the internet space

WSIS Values Promotion: • Common good • Ethics • Preventing abusive uses of ICTs • Values • Basic literacy • E-literacy • Gender • Training ICT professionals • Youth

WSIS Action Lines: 4, LEA, 10

SDGs: SDG5, SDG16

Stakeholder Type: Civil Society

Country, Region: Zambia, Africa



WSIS Action Line C11. International and regional cooperation

South School on Internet Governance

Mission and objectives of the South School on Internet Governance Increase the number of representatives of the region in the Internet ecosystem train the future Internet governance leaders of the region offer fellowships to all participants SSIG is the only training event that addresses all Internet-related topics and is the largest in the world. It rotates among countries in order to raise awareness in the community and to promote new Internet governance leaders. SSIG informs governments and the Internet ecosystem of each country about the relevant Internet issues, in order to achieve an active participation of the region in spaces where Internet rules are defined. All editions have simultaneous English-Spanish translation by interpreters, in order to generate inclusion and break down barriers. All editions have remote participation and are broadcasted in the SSIG LAC YouTube channel in two languages, where all the content is available later. All participants receive fellowships that include online and onsite training with accommodation, meals and social activities. For those fellows who have completed all three stages of training, a university diploma will be awarded by University of Mendoza, Argentina.

Website: https://www.gobernanzainternet.org/ssig2022/

Target Beneficiary Groups: YOUTH, OLDP, WOMN, INDG, DISB, UNEMP, POOR, MIGR, REFG, RURL

Replicable Description: This project has been replicated in Argentina at the national level with a similar format with fellows and free training for all the participants with the most important experts of Argentina and the region. It started in 2017 with lots of success and has been organized every year since then in several cities of Argentina.

Sustainable Description: This project is based on a public private partnership as every year different organizations, governments and companies contribute with funds or goods or services that allow to organize it every year since 2009 granting fellowships for 200 fellows every year, with free access to the training.

WSIS Values Promotion: The SSIG promotes the WSIS values in the community: Peace: All the SSIG program promotes awareness to protect environment and infrastructure against all kind of aggressions. Freedom: SSIG promotes an open and interoperable Internet and freedom of expression. Equality: SSIG helps understand the use of ICT and Internet to reduce inequalities. Solidarity: the SSIG grants fellows to all participants and allows training of high quality at no cost. Tolerance: The SSIG includes all the groups: women, young, old, disabled person and other vulnerable groups. Shared responsibility: SSIG brings together all the stakeholders both in the experts who teach and the group of fellows, to promote the importance of the multistakeholder activities Respect for nature: Program always includes perspective of the use of ICT to care for the environment.

WSIS Action Lines: 1, 2, 3, 4, 5, 6, GOV, BUS, LEA, HEA, EMP, ENV, AGR, SCI, 8, 9, 10, 11

SDGs: SDG1, SDG3, SDG4, SDG5, SDG8, SDG9, SDG10, SDG11, SDG12, SDG13, SDG16, SDG17

Stakeholder Type: Academia

Country, Region: Argentina, Latin America and the Caribbean



Space and new generation of information technology help east Malaysia's intelligent city construction

The project of "Space and New Generation Information Technology to Help Build Smart Cities in East Malaysia" is an ongoing project in which CAICT, under the guidance of the Chinese National Space Administration and in cooperation with the state governments of Labuan Federally Administered State and Sabah in East Malaysia, plans to help the East Malaysia region develop information network infrastructure, satellite applications, smart transportation, smart healthcare, smart tourism, smart government, smart ocean, e-payment and other smart city projects through China's leading satellite technology and new generation information and communication technologies such as 5G, artificial intelligence, big data and cloud computing. The project can help develop the local digital economy, enhance the local business environment through digital means, improve the management and dispatching efficiency of the government, improve the local tourism reception, facilitate the life of indigenous residents, stimulate economic growth and create employment opportunities, and help the local sustainable development.

Website: https://www.caict.cn/

Target Beneficiary Groups: INDG, UNEMP, POOR

Replicable Description: After taking Labuan as a case, the project team was invited by the Sabah state government to design a smart tourism project plan. Digital solutions are highly replicable and scalable. Relevant solutions and successful experiences can be popularized in Southeast Asia, a region with similar political, economic and cultural characteristics. We strive to spread the benefits of the new generation of information technology to a wider region, eliminate the digital divide, and let more people enjoy the dividends of the digital economy, and provide a more convenient digital living environment for local residents.

Sustainable Description: Smart city construction projects can create an inclusive, safe, resilient and sustainable city. Empowering local tourism, enhancing port capacity and improving transportation through next-generation information technology can foster innovation in local industries, provide inclusive and sustainable economic growth, and provide more jobs for indigenous people.

WSIS Values Promotion: The project promotes the values of WSIS in Southeast Asia, tapping into the potential of ICT to create a people-centered, inclusive information society that bridges the digital divide and provides digital opportunities for all, especially those at risk of lagging behind and marginalization. The project empowers indigenous islanders to access information and use ICTs to lift themselves out of poverty and enjoy a more convenient life. For example, satellite communication technology will being used to easily and quickly establish inter-island communication networks, eliminating the negative effects of the digital divide. Using 5G, big data, AI and other new generation information technologies to help local industries to digitally upgrade and transform, helping local communities to develop digital economies by promoting smart tourism, smart healthcare, smart transportation, smart ocean, smart ports and other projects, improving the local business environment through digital means, helping local governments and residents to attract more tourists and investment, thus raising the income levels of indigenous people and helping local communities to sustainable development.

WSIS Action Lines: GOV, BUS, 11

SDGs: SDG8, SDG9, SDG11, SDG12, SDG17

Stakeholder Type: Academia

Country, Region: China, Asia and Pacific



SDG Integrated Planning and Reporting Toolkit

The Integrated Planning and Reporting Toolkit (IPRT) is a software sponsored by the ECA and developed in response to the needs of the African Member States to simultaneously adopt and integrate both the 2030 Agenda for Sustainable Development and Agenda 2063 into their national development and be able to report progress in a harmonized way. With the goals, targets, and indicators of the two Agendas already in-built into the software, users can visually assess the level and strength of alignment between the two Agendas at the click of a button. The in-built dashboards allow for visualization of summary information on the alignment of the two Agendas as well as country performance regarding alignment with the two agendas and progress in implementation of the national goals and targets as aligned as well as progress reporting towards achieving national, regional, and global development commitments.

Website: https://iprt.uneca.org

Replicable Description: While the tool was developed for the African Member States, the tools, modules, and capabilities in the tool can easily be adjusted to work with any region.

Sustainable Description: Various funding sources have been secured to ensure the sustainability of the project. These include RB, DA, and other types of funding arrangements.

WSIS Values Promotion: Promote the use of technology solutions with the aim of ensuring that national planning is a shared responsibility that includes provisions for the respect for nature, and other WSIS values embodied in the SDGs.

WSIS Action Lines: 3, GOV, 11

SDGs: SDG1, SDG2, SDG3, SDG4, SDG5, SDG6, SDG7, SDG8, SDG9, SDG10, SDG11, SDG12, SDG13, SDG14, SDG15, SDG16, SDG17

Stakeholder Type: International Organization

Country, Region: Ethiopia, Africa



Africa UN Knowledge Hub on COVID-19

The Africa UN Knowledge Hub for COVID19 is a portal developed by the UN Development System in Africa to act as a one-stop-shop on information and resources relevant to Africa on the COVID-19 pandemic. The Hub harnesses information and resources from credible sources including WHO, regional UN agencies, Ministries of Health of African governments, and credible news channels amongst other reliable information sources. The portal also provides intelligent data dashboards and an intelligent, contextualized federated search engine to provide up-to-date and trusted information on the pandemic in a user-friendly manner.

Website: https://knowledge.uneca.org/covid19

Target Beneficiary Groups: YOUTH, OLDP, WOMN, INDG, DISB, UNEMP, POOR, REFG, RURL

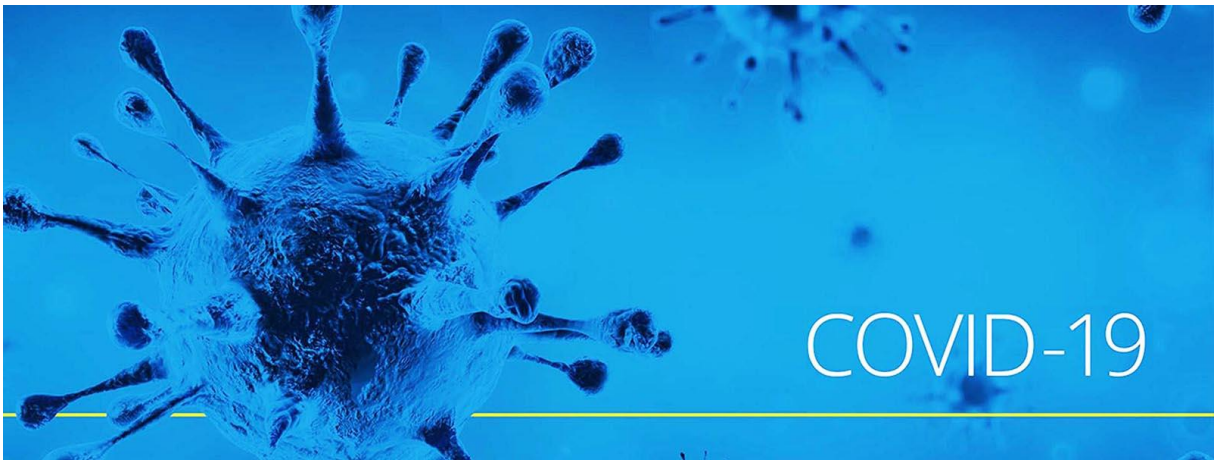
WSIS Values Promotion: AI/ML, data visualization, Drupal CMS, Federated Search Engine technology with advanced algorithms, information harvesting - these technologies and the portal are part of the overall digital transformation process taking place within the UN system to improve regional coordination and responses to common issues affecting the Member States served by the different UN agencies in the region.

WSIS Action Lines: 3, 6, GOV, 9, 11

SDGs: SDG1, SDG3, SDG8, SDG16, SDG17

Stakeholder Type: International Organization

Country, Region: Ethiopia, Africa



Blockchain technologies and the digital financial services

Creation of new Innovative ideologies product solutions based on the subject areas and the conceptual frameworks of the blockchain technologies and the food systems and the food value chains via the e-commerce solutions based platform channels. The information and communication technologies based product solutions in the research areas of the blockchain technologies is introduced into the platform channels of the digital agriculture. The agricultural goods and services that are produced via the system of the digital agriculture is outsourced to the ecommerce platform channels for the objective of enabling the features of the supply chain initiatives of these goods and services to the outcomes of enabling the features of the mass consumption patterns in the society.

Website: https://climatechange612.wordpress.com/2021/06/17/small-holder-farmers-and-the-online-marketplaces/

Target Beneficiary Groups: RURL

Replicable Description: Scale up opportunities creation.

Sustainable Description: Zero Hunger

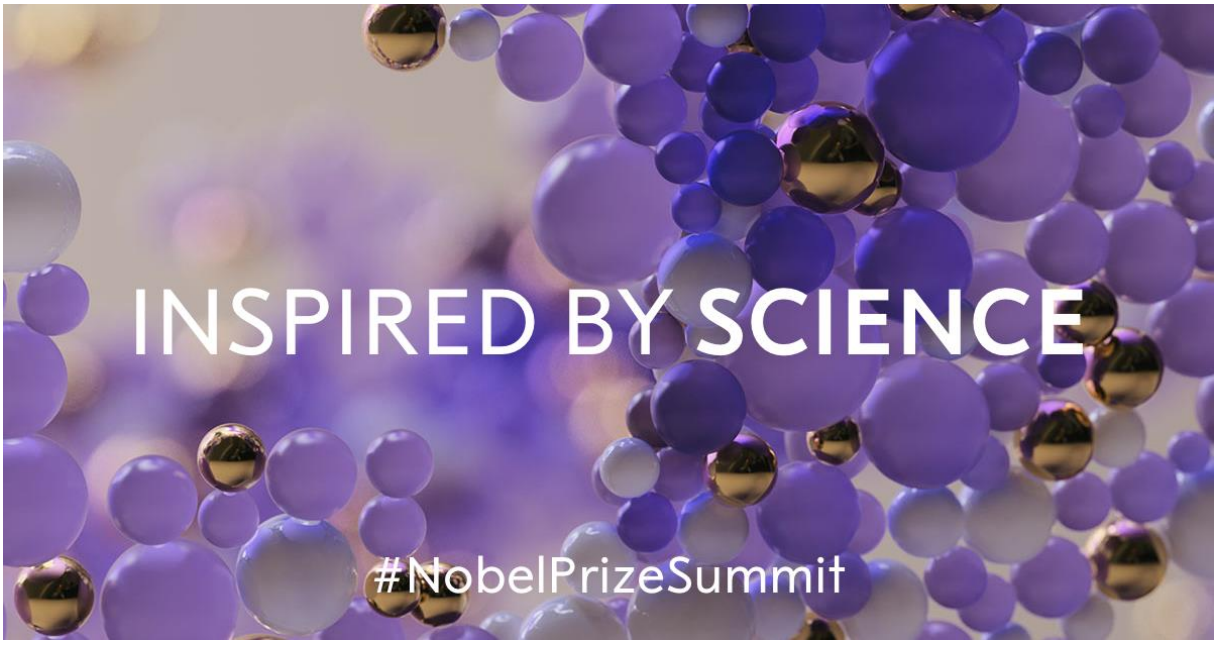
WSIS Values Promotion: Innovations culture

WSIS Action Lines: 2, 3, 4, 5, BUS, AGR, SCI, 11

SDGs: SDG2

Stakeholder Type: International Organization

Country, Region: India, Asia and Pacific



Smart Change: Collaboration for Sustainable Urban Development

Increasing collaboration between countries, Jakarta has collaborated with several countries, one of which is Berlin, Germany. The collaboration aims to develop networked, intelligent and holistic solutions to address future challenges. The cooperation between DKI Jakarta and the City of Berlin is the implementation of international cooperation. As the nation's capital, Jakarta has important roles and functions, such as the center in terms of government, economy, banking and financial services, and is the main gateway for tourists coming from abroad. Apart from that, the role of the capital city has made Jakarta also a seat for embassies and delegations of foreign countries. The cooperation between the two cities in a progressive development effort will continue until 2020 where this year run a joint program called Smart Change. The Smart Change program is implemented to create good government and sustainable development through cooperation between Jakarta and Berlin. Smart Change has the goal of creating an organization with an efficient framework in Jakarta. Through this program, Jakarta and Berlin collaborate and improve to promote sustainable economic growth. It is hoped that the innovations resulting from this sister city collaboration will later become an example and have an impact on sustainable development for other cities throughout Indonesia. Project Smart Change aims to promote good governance and sustainable urban development in the City of Jakarta following the 2030 Agenda for sustainable development through the Local Government partnership between Jakarta and Berlin and the triangular partnership with Bangkok. The Smart Change Project is organized into two pillars designed to complement each other. One pillar is about empowering local authorities in the urban sector, the other pillar is about the underlying macro structure and entrepreneurial ecosystem by increasing the growth and development of startups for sustainable development.

Website: https://smartchange.jakarta.go.id/id/beranda

Target Beneficiary Groups: YOUTH, WOMN, DISB, UNEMP, RURL

Replicable Description: It is very possible to be replicated regionally and internationally. This program is part of the spirit of partnership and collaboration between the two countries in creating a smart city ecosystem. One form of smart city implementation in encouraging citizen and community participation, the Berlin City Government has a City Lab as a "Smart Cities Model Project" program which is more or less the same as Jakarta Smart City.

Sustainable Description: Southeast Asia’s megacities show great potential to become more sustainable urban areas and to develop into important partners for European cities in times of rapid urbanization, digitalization and increasing awareness for sustainable development. Berlin and Jakarta are teaming up in the project Smart Change in order to address challenges connected to this potential thereby opening a new chapter in their sister city partnership. Fostering also a triangular cooperation with Bangkok, the project supports the 2030 Agenda for Sustainable Development by accelerating digital transformation and the Smart City 4.0 transformation strategy of Jakarta. The Smart Change project focuses on two areas: On the one hand, the further development of the city administration’s smart city and urban innovation strategy and, on the other hand, the support of a sustainable entrepreneurial ecosystem.

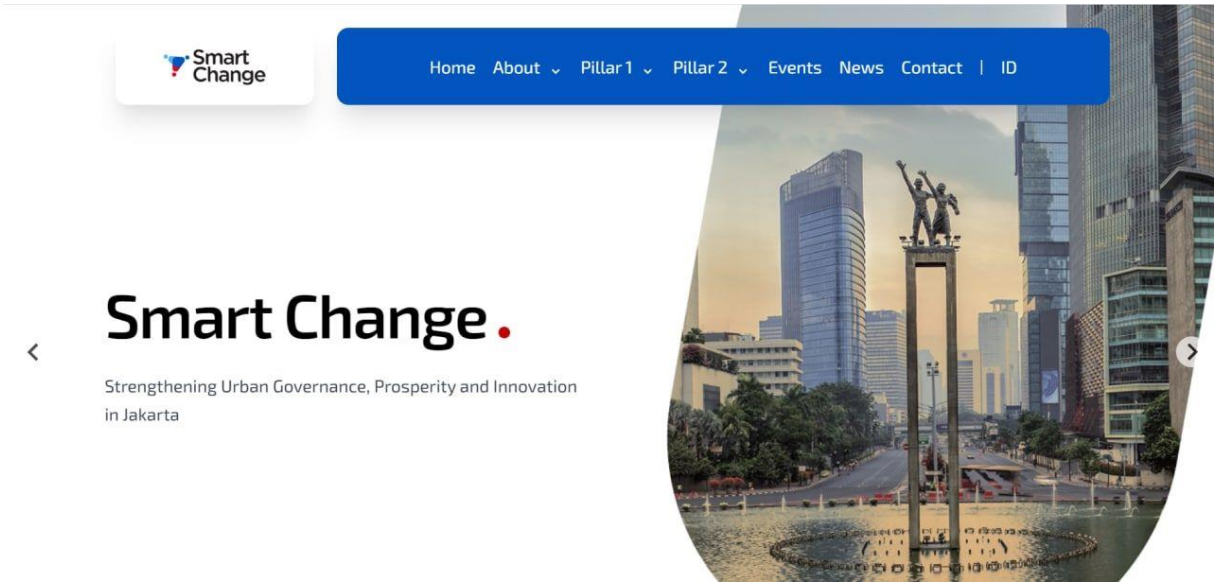
WSIS Values Promotion: The Smart Change Project is a partnership between Jakarta and Berlin for Smart Innovation. This will improve city governance and services for residents in Jakarta and will lead to a sustainable living environment for residents. Making cities Smart and Sustainable includes promoting the role of women. So this is in line with WSIS's mission, namely the values of freedom, equity, solidarity, tolerance, shared responsibility, and respect for nature.

WSIS Action Lines: 11

SDGs: SDG8, SDG9, SDG11, SDG17

Stakeholder Type: Government

Country, Region: Indonesia, Asia and Pacific



Millicom Connected Women

Launched in August 2017, Khabrona.Info (Khabrona or خبرونا means "inform us" in Arabic) harnesses the potential of digital tools and mobile connectivity to increase the security and self-reliance of refugees, particularly female refugees. It is a website and mobile application that links vulnerable populations with reliable and trustworthy information about all aspects of life as a refugee. The audience for Khabrona.Info is Syrian refuges and vulnerable Jordanian host community members. Multi-channel engagement allows users to connect with Mercy Corps Program Officers from the safety of their own homes. The two goals of the Khabrona.info are to deliver credible and accurate information to as large a group of target beneficiaries as possible and to provide a convenient two-way communication channel to receive and respond to feedback from beneficiaries. To date, Khabrona.Info has over 700 app downloads and more than 30000 active followers on social media. In the coming months, Khabrona.Info will expand its scope to include information provision and service mapping from peer organizations and governmental institutions, transforming Khabrona.Info into a primary hub for vulnerable populations in Jordan.

Website: https://www.khabrona.info/

Target Beneficiary Groups: WOMN, REFG

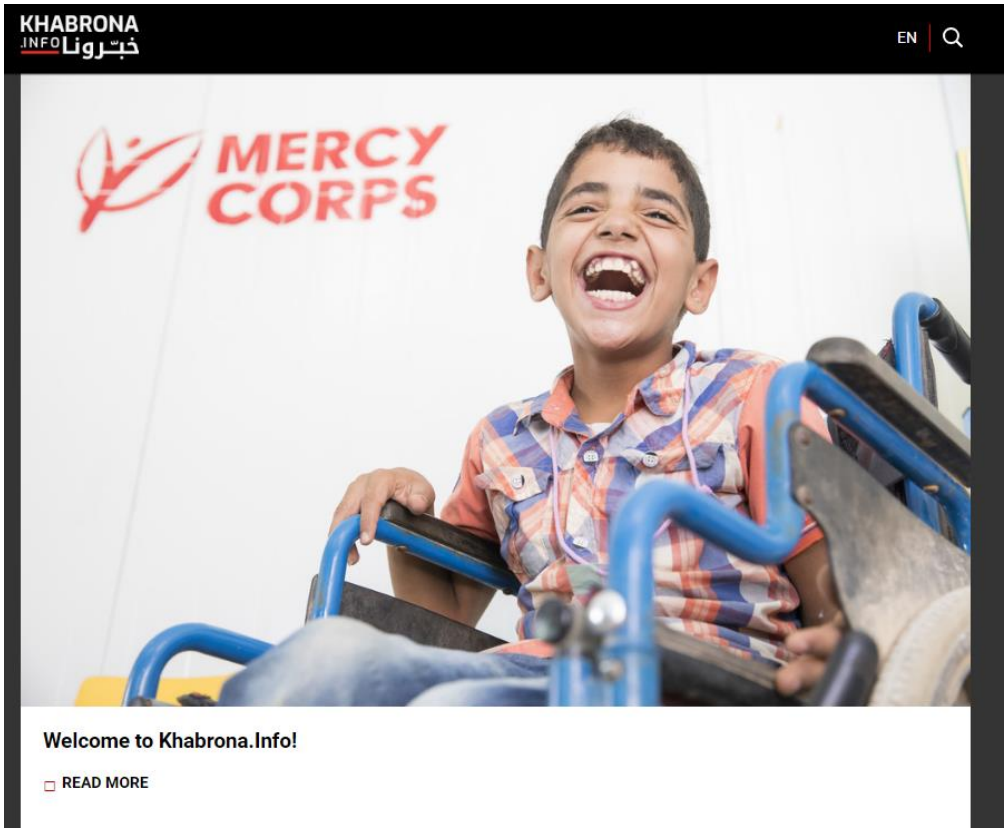
WSIS Values Promotion: It uses the potential of digital tools and mobile connectivity to increase the security and self-reliance of refugees, particularly female refugees.

WSIS Action Lines: 8, 10, 11

SDGs: SDG1, SDG3, SDG5, SDG16

Stakeholder Type: Civil Society

Country, Region: Jordan, Asia and Pacific



Inclusive Design in Africa webinar series

As the global COVID19 pandemic continues, the lives of the global population have been dramatically altered, bringing into sharp focus just how much we rely on digital systems and products for essential services in our day-to-day existence. Sadly across Africa, many people with disabilities are experiencing a secondary source of isolation — digital isolation. To address this digital accessibility gap in Africa, we at inABLE quickly launched a monthly Inclusive Design in Africa webinar series that investigates how Africa can prepare to move forward in improving digital access for all people, as a matter of priority. The first-ever Inclusive Design in Africa webinar on the topic about ``Inclusive Design in Africa: Why Equal Access is Imperative and How to Achieve it` had 180 registered attendees from around the world. Attendees from Africa made up the largest attendee group with webinar registrants from Kenya, Nigeria, Rwanda, South Africa, and Uganda.

Website: http://inclusiveafrica.org/webinar/april-30-2020

Target Beneficiary Groups: YOUTH, WOMN, RURL

Replicable Description: Yes, inABLE is working on a production play book that could accelerate the speed of webinar set up and advertising to respond to relevant digital accessibility topics, innovations and advancements in Africa. The online global reach is limited by cultural or technology barriers, including language (English) Internet and computer assistive technology access at this time. Hopefully, in time, digital isolation as a result of a lack of Internet, computer technology, digital accessibility will be addressed by governments so that EVERYONE can be included if they choose.

Sustainable Description: With support from charitable and business partners, as well as digital accessibility champions, tech-innovators and advocates this webinar series is very sustainable. Post webinar recorded viewings can be scheduled at live or remote digital accessibility events.

WSIS Values Promotion: The first-ever Inclusive Africa Conference 2020 brought together a speaker faculty of 38 global and local knowledgeable experts, from 11 different countries representing different sectors to feature panel discussions about accessibility in; ICT Policies in Africa, financial services, Mobile accessibility, Inclusive Design, social media, and Higher, Primary and High School Education.

WSIS Action Lines: 1, 11

SDGs: SDG4

Stakeholder Type: Private Sector

Country, Region: Kenya, Africa



Women ICT Training & Innovation Project

African Advanced Level Telecommunications Institute (AFRALTI) is an Inter-Governmental Institute established in 1992 to supplement and spearhead ICT development efforts mainly in English-speaking Africa. Currently the member States that have ratified the Intergovernmental Agreement (IGA) include Lesotho, Kenya, Malawi, Mozambique, Kingdom of Eswatini, Tanzania, Uganda and Zimbabwe, out of the 23 eligible members. The institute offers a wide range of workshops and courses in the area of Digital Technology & Management Information Systems, Telecommunication Engineering and Management. With our team of highly experienced facilitators who hold qualifications and relevant industry certifications, we provide unrivaled training solutions in the region. Vision: "To be a leading and self-sustaining Centre of Excellence for ICT capacity building in Africa". Mission Statement: "To provide quality training, consultancy and advisory services to the ICT Sector in Africa". AFRALTI's Core Values: i. Good Corporate Governance, ii. Professionalism, iii. Teamwork, iv. Quality and Excellence, v. Equal opportunities, vi. Creativity and innovation. AFRALTI has engaged in activities that aim to build capacity among different stakeholders in the community such as: Postal and Courier Workshop AFRALTI runs a 10- module program in the postal and courier industry across Africa that runs from January to March each year. Child Online Protection Workshop AFRALTI runs a workshop on Child Online protection which aims to build capacity in parents, teachers and caregivers on children's online activities. AFRALTI Incubation Hub the AFRALTI Start-up Incubation Program aims to help in creating and growing young businesses by providing them with necessary technical, entrepreneurial, leadership and financial support.

Website: https://www.afralti.org/

Target Beneficiary Groups: YOUTH, WOMN, UNEMP

Replicable Description: This project will be replicated to all the Counties in the country and then to the seven AFRALTI member countries in Africa.

Sustainable Description: Through this program, we will equip the public with appropriate practical skills and knowledge for addressing today's socio-economic challenges. This will contribute to the achievement of United Nations Sustainable Development Goals (SDGs) namely: 1. No poverty (goal 1), 2. Quality Education (goal 4), 3. Industry Innovation and Infrastructure (goal 9), 4. Sustainable cities and communities (goal 11)

WSIS Values Promotion: It provides quality training, consultancy and advisory services to the ICT Sector in Africa.

WSIS Action Lines: 3, LEA, 11

SDGs: SDG1, SDG4, SDG9, SDG11

Stakeholder Type: International Organization

Country, Region: Kenya, Africa



Arab Women in Computing Lebanon Chapter

The Arab Women in Computing Association (ArabWIC) mission is to support, inspire, retain, encourage collaboration among, increase visibility of and help elevate the status of Arab women in computing from the various computing/technology sectors (academia, industry and entrepreneurship), and allow them to achieve their career goals. Also, to create linkage with international women-in-CS organizations.Arab women in computing (ArabWIC) aims to bridge the gender divide in technology-related domains by raising awareness of the problem, highlighting success stories and role models, providing scholarship and mentoring opportunities for Arab females in technology on all levels, creating networking opportunities, and offering hands-on workshops and competitions for Arab women in technology.

Website: http://arabwic.org

Target Beneficiary Groups: WOMN

Replicable Description: As ArabWIC is an international organization, many of the initiatives launched by ArabWIC Lebanon chapter will scale to other chapters due to the strong connection between the various chapters and the unified vision within the whole organization. The best example is the replication of the She Develops hackathon in many other Arab countries under the other national ArabWIC chapters. Girls got IT event is also being replicated in Lebanon (in different capacities and regions) where there will be multiple editions per year. Moreover, there are plans to expand Girls got IT to the Arab region in the near future. Moreover, focus on empowering professional women in STEM careers will continue by providing workshops on newest technologies, more awareness sessions of exchange programs, networking events, and scholarship opportunities.

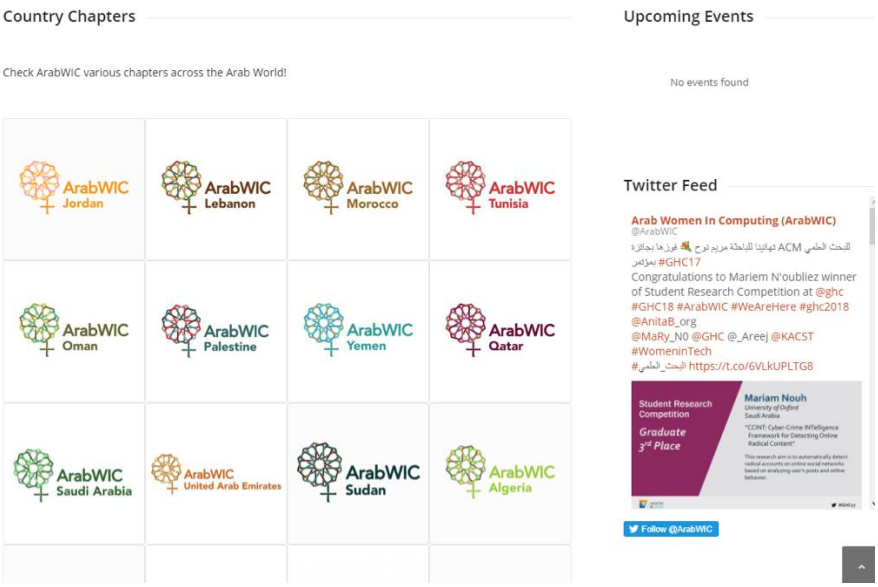
WSIS Values Promotion: The Arab Women In Computing Association (ArabWIC) mission is to support, inspire, retain, encourage collaboration among, increase visibility of and help elevate the status of Arab women in computing from the various computing/technology sectors(academia, industry and entrepreneurship), and allow them to achieve their career goals. Also, to create linkage with international women-in-CS organizations.

WSIS Action Lines: 4, 6, 11

SDGs: SDG5, SDG8

Stakeholder Type: International Organization

Country, Region: Lebanon, Asia and Pacific



Online Cultural Networking (ACAN)

ACAN is an independent organization established in 2020 during the Corona pandemic crisis on the initiative of cultural activists with the aim of networking individuals and cultural and artistic institutions, for cultural solidarity as well as opening a link and channels to bridge between countries. ACAN now has in its European network all the cultural organizations in 44 European countries and all the cultural associations, theatres, cinemas, museums, and festivals in all 22 Arab countries in its Arabian network. The impact relies upon the fact that ACAN has 348 organizations members and 72 individual members from all over the world and contributed to enabling cultural communities among themselves to network and cooperation, supporting creativity, encouraging exchange and grants for creative works, improving policies supporting culture and arts in the Arab region, and activating the role of art and culture in changing societies through free expression in the field of theatre, cinema, music, literature, research, studies, exhibitions and performing arts.

Website: https://cultureartsnetwork.com/

Target Beneficiary Groups: YOUTH, OLDP, WOMN, INDG, DISB, UNEMP, POOR, RURL

Replicable Description: The project has goals, activities, and programs implemented daily.

Sustainable Description: Because this project programs are: publishing productions, events, as well as artistic and cultural grants through ACAN's website and social media platforms, providing grants to institutions and individuals and supporting emerging experiences, directing technical programs through the website and an online radio (a platform open to all), releasing a monthly electronic newspaper to highlight the cultural scene in the Arab region, establishing training programs for institutions and volunteers to gain experience in organizing festivals, cultural events and training workshops, having partnerships in organizing and supporting newly emerging festivals, upholding annual organization of seminars, conferences and regional meetings, and upholding weekly organization of online sessions and seminars.

WSIS Values Promotion: The program has principles to follow throughout the implemented activities and program in order to achieve the main goal of networking and connecting between and within countries through culture, ability to freely express, and equalizing between different areas in one country and between different countries. This is while taking into consideration the aspect of nature and elaborating a well-mannered relationship between countries and people despite all of the differences. Thus, this project promotes freedom of expression, equality, solidarity, tolerance, shared responsibility, and respect for nature.

WSIS Action Lines: 8, 9, 10, 11

SDGs: SDG4, SDG5, SDG7, SDG8, SDG10, SDG16, SDG17

Stakeholder Type: International Organization

Country, Region: Lebanon, Asia and Pacific



The Organization of the Islamic Cooperation - Computer Emergency Response Team 5G Security Framework

The Organization of the Islamic Cooperation-Computer Emergency Response Team (OIC-CERT) recognizes that the 5G technology marks the beginning of a new era, and at the same time bringing in new cybersecurity challenges. With the cybersecurity capability disparity among the member states, the OIC-CERT recognize the need for a 5G Security Framework that can be use by the authorities as guidance in rolling out the 5G networks in their respective countries. A multi-national working group was established consisting of information security organizations from Bangladesh, Brunei, Indonesia, Kazakhstan, Malaysia, Morocco, Oman, Pakistan, Somalia, UAE, and Tunisia, together with the OIC-CERT Industry Members to develop the framework. This framework will serve as a reference document by multiple member states, thus it gave emphasis on a unique aspect of cross-recognition assurance methodology, to guarantee harmonized 5G cybersecurity certification schemes and cross-recognized certification results among the member states. Other aspects of the project are identifying existing 5G cybersecurity threats and having a 5G cyber baseline security technical specification. These three aspects provide the fundamental requirements and references for the purpose of effectively mitigating identified and upcoming risks in rolling out the 5G network. The 3 main documents developed are as follows. i. OIC-CERT 5G Security Framework Part 1: Cybersecurity Repository, ii. OIC-CERT 5G Security Framework Part 2: Baseline Security Technical Specification, iii. OIC-CERT 5G Security Framework Part 3: Cross-Recognition Assurance Methodology

Website: https://www.oic-cert.org/en

Replicable Description: The project can be replicated by other international ICT collaborative platforms to come up with a common framework for the members.

Sustainable Description: This is a multinational project leveraging on the collaborative efforts of the OIC-CERT Member States. The outcome will be utilized by the various member countries thus a multinational team will provide multinational feedbacks on project requirements and expectations. International partnership will assist is getting buy-ins and acceptance on the project outputs.

WSIS Values Promotion: The OIC-CERT 5G Security WG is to increase awareness on the importance of 5G security, develop a common 5G security framework for risk assessment and management, and develop an open standard that can be used to mitigate any technical difficulties in rolling out the 5G network mainly for the OIC member states. The project is to develop an OIC-CERT 5G Security Framework involving the authorities of multiple OIC states and the industry players in the spirit of cybersecurity public private cooperation. The governments have a leading role in developing and implementing comprehensive, forward looking, and sustainable national strategies while the private sector has the important consultative role to play in devising these strategies. The OIC-CERT 5G Security Framework allows members the opportunity to acquire the necessary knowledge in rolling out the 5G network. These include members with marginalized capacities and capabilities to access information and to have 5G technology to keep up with the global society. The relevant stakeholders worked together so the framework will provide requirements on 5G infrastructure and technologies as well as information and knowledge in the use of 5G. The framework unique feature of cross-recognition assurance will foster and respect diversity; address the different concerns of the member states from their perspective but at the same time bringing everyone onto a same baseline. Finally, with a 5G Information Sharing and Analysis Centre that will be formed subsequently, it allows an economies of scale approach to provide proactive threat intelligence and response capability to member states that have implemented the framework and joining the ISAC with the necessary information sharing.

This collaborative approach aims to provide best practices, guidance, and promote standardization in an open and transparent platform for 5G Security among OIC member states in a seamless and cost-effective manner. It shall contribute to the global 5G development by forming a trusted global ecosystem.

WSIS Action Lines: 1, 2, 4, 11

SDGs: SDG9, SDG10

Stakeholder Type: Government

Country, Region: Malaysia, Asia and Pacific

teletimes

The OIC-CERT 5G Security Framework: Bracing for what's coming

Ts Mohd Shamir bin Hashim, Cybersecurity Malaysia, Permanent Secretariat of the OIC-CERT Co-chair, OIC-CERT 5G Security Working Group

The fifth-generation (5G) wireless technology represents a complete transformation of the telecommunication networks that will be able to cater for the demand from emerging and disruptive technologies such as Artificial Intelligence (AI), Internet of Things (IoT), and Cloud computing, to name a few. These technologies require extensive bandwidth to enable new applications usage where 5G will tra[illegible] the digital landscape and serve as a catalyst for innovation, n[illegible]kets, and economic growth. In fact, 5G will be critical towa[illegible]ing the objectives of the Fourth Industrial Revolution (4IR). [illegible]llions of devices will be connected to the Internet throug[illegible]nology. It is estimated that there will be more than 1.7 b[illegible]ubscribers worldwide by 2025.

Societies toda[illegible]e a choice when it comes to these emerging techn[illegible]ey must embrace and adopt them or risk being left behin[illegible]st of the world. Countries that are slow in adopting the tec[illegible] will move to the bottom of the food chain and be left at the [illegible] others. In a world that is moving towards ubiquitous interc[illegible]ivity, security risks lie at the weakest link in which it would be [illegible] interest of all parties to ensure every link incorporates minimum security standards to protect, in this case, digital data transmission and management.

The 5G digital transformation will continue to introduce new dimensions of attack vectors, surfaces, and vulnerabilities through the connected digital systems. IoT, for example, will bring a new set of challenges, such as the security, safety, and robustness of cyber and physical systems. Novel types of attack will inevitably catch the industry by surprise. As such, more and more touchpoints will become attractive and easy targets for cybercriminals. Therefore, there's the need to enhance cybersecurity measures proportionate to the threats emerging from digital technology advances.
Since the dawn of cybersecurity, cross-border collaboration has always been a pillar in mitigating cyber threats. One of these collaborations is the Organization of the Islamic Cooperation-Computer Emergency Response Team (OIC-CERT), a platform for information sharing and developing cybersecurity capabilities for members. The OIC-CERT is an affiliate institution of the Organization of the Islamic Cooperation (OIC).

The OIC is said to be the second-largest global organization after the UN with 57 member countries. These many countries under one umbrella offer an excellent opportunity for digital interconnectivity. Still, weak cybersecurity is a significant concern and might hamper the rollout of technologies such as 5G to accommodate future development. Based on the International Telecommunication Union Global Cybersecurity Index (ITU GCI) 2020, which measures the cybersecurity commitment of 194 countries, only four OIC Member Countries (OMC) are ranked in the global top 20 while 27 fall below 100.



This raises the question of how to elevate cybersecurity and digital technology capability and capacity among the OMC. How will these members embrace emerging technologies such as the 5G?

The OIC-CERT was formed in 2009 to offer cybersecurity assistance to the OMC. Presently 28 of the OMC are members of the OIC-CERT. The ITU GCI 2020 report shows that the four OMC ranked in the global top 20 are also members of the OIC-CERT. Focusing just on the OIC community, 18 OMC in the top 20 OIC members are OIC-CERT members. Thus, the OIC-CERT can be an avenue for the OIC to elevate the cybersecurity capability and capacity of OMC to prepare them for 5G and other disruptive digital technologies.

The OIC-CERT recognizes that 5G marks the beginning of a new era, albeit with serious cybersecurity challenges that could hamper its progress. Thus, to address some of these challenges, the OIC-CERT has established the OIC-CERT 5G Security Working Group (WG), led by CyberSecurity Malaysia and Huawei UAE, who are the OIC-CERT Secretariat and a Commercial Member respectively. The WG will look at formulating a 5G cybersecurity framework that is systematic and effective to accelerate ICT development. This framework is mainly intended for the regulatory authorities of the OMC to assist them in making policies on regulating 5G equipment vendors, mobile

Mauritius Cyber Threat Information Sharing Platform

MAUSHIELD is an automated platform for sharing cyber threat intelligence in a real-time and in a secure and confidential manner. It was launched in September 2022. The aim of MAUSHIELD is to facilitate cyber threat information sharing and develop a better understanding of the different techniques that cybercriminals are using to carry out cyber-attacks. This will help organisations to improve on their defense capability and stay on top of current trends and emerging threats. MAUSHIELD has 2 facets - first one is a public facing portal, where cyber threat information is publicly available. The second one is a restricted zone where it is accessible to members only. The functions of MAUSHIELD are: • To provide a collaborative platform for sharing information and to give a better visibility of cyber threats. • To facilitate cyber threat information sharing in a secure and confidential environment. • To develop a better understanding of the different techniques that cybercriminals are using to carry out cyber-attacks. • To help organisations to improve their cyber defence capability and stay ahead of emerging threats. • To increase the outreach of information availability to all organisations. • To build contacts in case of an incident or crisis requiring collaboration with other organisations. MAUSHIELD is open to the national, regional and international organisations on free of charge. It is open to public, private and critical sectors, SMEs, academia and non-profit organisations. Members must agree to a set terms and conditions, which are the primary means by which information sharing, handling, confidentiality, liability and acceptable behaviour are established on the platform.

Website: https://maushield.govmu.org

Replicable Description: This project may be replicated by countries which would like to set up their own national cyber threat information sharing platform. MAUSHIELD has been developed using open-source tools, which is regularly updated by the GIThub community. The experiences and best practices can share, and the community is available to support both setup and operations.

Sustainable Description: The MAUSHIELD platform is sustainable as it was developed using in the open source tool, allowing for regular new updates and upgrades to take place, on the basis of the community. Its sustainability will depend on the continued support of its community, its ability to innovate and provide an efficient tool for cyber security incidents and first-line practitioner actions.

WSIS Values Promotion: Information Sharing is essential for organisations to be able to be prepared for, identify, detect and react on a cyber security incident. MAUSHIELD facilitates the technical environment to connect and collect intelligence amongst computer incident response teams, security vendors and research teams. It creates a form of trust, a relationship whereby the platform itself becomes knowledgeable on the basis of the information provided by the collective, whereby the information in there will be less questionable. The platform allows for a near real time reaction to an incident. In some cases, information will be delivered for organisations to act, prior to an incident taking place. MAUSHIELD will help organisations to take proactive measures to prevent cybercriminal behaviour or to gather forensic evidence. The platform also allows investigators to collect evidence for forensic analysis. The information shared is in the first place to support the computer incident, but can also be used for cybercriminal behaviour investigations, attribution and identifying the link to organized crime activities.

WSIS Action Lines: 1, 3, 5, 11

SDGs: SDG9

Stakeholder Type: Government

Country, Region: Mauritius, Africa



Centro de Estudios Avanzados en Banda Ancha para el Desarrollo

CEABAD was inaugurated on June 9, 2014, in Managua, Nicaragua. The main goal of CEABAD is to increase the capacity of government officials in Central American countries (Guatemala, Honduras, El Salvador, Nicaragua, Costa Rica, and Panama), the Dominican Republic and Mexico to identify solutions to address regulatory and competition problems in the broadband arena. This goal can be achieved by developing the adequate content and operations to train government officials about specific issues that make up the digital agenda and foster investment in infrastructure. Thus, the CEABAD is a platform for regional dialogue on topics related to broadband and ICT where specific worldwide experiences and lessons learned are presented and discussed. Over the last four years of operations, the Center has impacted all beneficiary institutions by training government officials from various fields regarding broadband and ICT. Currently, more than 3,500 government officials from countries of Central America, the Dominican Republic and Mexico have been trained by the programs of CEABAD.

Website: http://ceabad.com/

Target Beneficiary Groups: YOUTH, OLDP, WOMN, INDG, DISB, UNEMP, POOR, MIGR, REFG, RURL

Replicable Description: YES

Sustainable Description: CEABAD has a sustainability model that was considered at the beginning. Thus, we are focused on two binomials; Income – Costs, Quality – Prestige The Center has increased income by monetizing our services. We have implemented our events, like regional forums based on sponsorship from private companies in Nicaragua. The Center also has generated income by selling online courses. Moreover, we reduced the overall cost by developing alliances with various partners like GSMA to provide experts to local workshops without hiring any others.

WSIS Values Promotion: While many officials in government agencies focused on telecommunications in the Latin-American and the Caribbean Region (LAC) region are aware of the significance of broadband for the development of countries, their capability to diagnose problems and to provide appropriate solutions related to various obstacles (e.g. lack of investment, poor coverage, low competition, and reduced demand for broadband services) in the field is quite insufficient. This is more apparent in the countries of Central America considering their current broadband developments status. Thus, there is a need to make capacity building for government officials in the region is a priority. This focus corresponds to the World Summit on the Information Society (WSIS) Action Line #4 regarding the training of ICT professionals.

WSIS Action Lines: 1, 2, 4, 5, BUS, LEA, 11

SDGs: SDG1, SDG4, SDG8, SDG9, SDG10, SDG11, SDG17

Stakeholder Type: Government

Country, Region: Nicaragua, Latin America and the Caribbean



Enhance VR

A) Enhance VR offers a library of mini-games for cognitive training and assessment: Enhance VR (Virtuleap, virtuleap.com) is a commercial cognitive training and assessment system consisting of short cognitive exercises (hereafter, mini-games) that engage specific cognitive abilities (i.e., memory, task flexibility, information processing, orientation, attention, or problem-solving) and motor control. Using virtual reality (VR) as means to present these cognitive exercises, the Enhance VR app provides a more naturalistic interaction with an ecologically valid, controlled environment 1. Each mini-game is motivated by the mechanics of existing validated neuropsychological tests (e.g., Stroop task, n-back) and designed in cooperation with neuroscientists and game designers to create cognitive exercises that are gamified to maximize user engagement. The mini-games are presented in the form of daily, short (~10 minutes/session), and cognitively demanding workouts, with each session consisting of a selection of three mini-games. Enhance VR is designed to be used both in clinical and at-home settings, allowing for remote monitoring of the patients by formal and informal caretakers outside hospitals or research facilities. B) Longitudinal, regular cognitive training using Enhance VR could provide a dynamic, sensitive digital biomarker for cognitive decline: Brief cognitive tests, such as the Mini-Mental State Examination (MMSE) and the Montreal Cognitive Assessment (MoCA), are short evaluations to screen for cognitive impairment. While these are reliable to distinguish cognitively impaired individuals from those with healthy cognitive status, they present some shortcomings.

Website: https://virtuleap.com/

Replicable Description: Our application is readily available on virtual reality consumer app stores, with over 36,000 early registered users and a 4.4 satisfaction rating.

Sustainable Description: This project is aligned with SDG goal 3 and SDG goal 4.

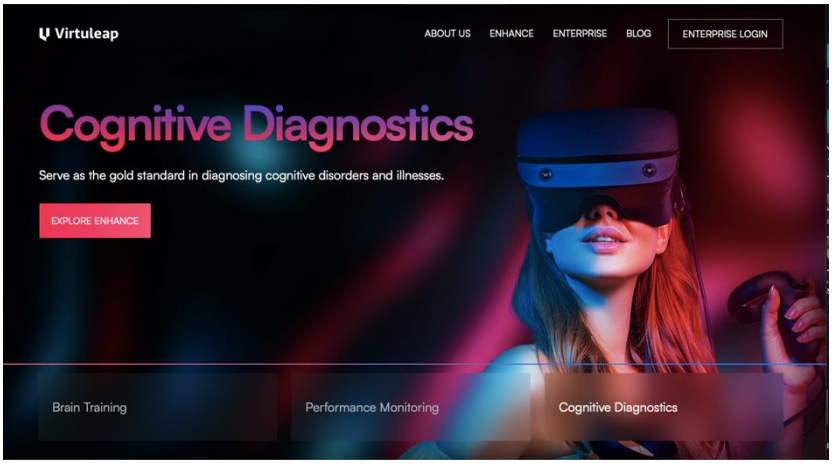
WSIS Values Promotion: This project connects scientific and research centres with ICTs. They have two initial clinical studies in the motion. 1) United States (NIH-SBIR) focused on mapping the gaming patterns of users suffering from Alzheimer's disease in order to create digital phenotypes that can detect the early onset of cognitive decline. 2) Spain (la Caixa Foundation) to validate whether our solution can slow down cognitive deterioration in those suffering from Type 2 Diabetes Mellitus.

WSIS Action Lines: HEA, 11

SDGs: SDG3, SDG4

Stakeholder Type: Private Sector

Country, Region: Portugal, Western Europe and North America



The ITU Youth Model

ITU Youth Model is an absolutely new format of the multidisciplinary event for students, the purpose of which is to form among young people a deep understanding of the activities and prospects for the development of the information and telecommunications technology industry, the importance of international cooperation in this field. The ITU Youth Model program included an introduction to the history, structure, activities of the oldest international organization, lectures and master classes by leading experts in the field of telecommunications, educational simulation in which students could learn about multilateral diplomacy and international relations in ICT, study of the process of drafting technical contributions for ITU-T. The participants assigned roles, listened to the draft contribution and discussed it. Another activity was devoted to regional initiatives (RI) adopted within the framework of ITU activities in the CIS countries. Students divided into teams, prepared and defended projects on the topics of RI.

Website: https://www.sut.ru/eng/events/01-08-2022-ITU-Youth-Model-will-be-held-on-October-18-20-at-SPbSUT

Replicable Description: The ITU Youth Model is capable of being replicated elsewhere. SPbSUT welcomes partners from CIS countries and other ITU Regions to cooperate and organize a joint event. One of the goals of the project is to hold The ITU Youth Model at the organization's headquarters in Geneva with youth delegates from all over the world.

Sustainable Description: The project is funded by the university's own resources. In the future, it is planned to attract grant funding for youth projects, federal funding, as well as financial assistance from leading telecom companies. The ITU Youth Model contributes to the promotion of youth ideas and scientific initiatives in the real sector of the economy, the formation of practical skills and abilities, further internships and employment of its participants.

WSIS Values Promotion: The project's goal of providing high quality information about the telecommunication industry through education is in line with the 4 WSIS values: ensuring inclusive and equitable quality education and promoting lifelong learning opportunities for all. The ITU Youth Model allows participants to widen the scope of international cooperation in the field of information and radio technologies, telecommunications and cybersecurity, as well as to form skills such as the design and presentation of initiatives in the field of IT, to express their position in international negotiations, to get a better understanding of international, regional and regional issues. The project helps both STEM and humanities to improve their hard and soft skills.

WSIS Action Lines: 4, 11

SDGs: SDG4

Stakeholder Type: Academia

Country, Region: Russian Federation, Eastern Europe



E-COMMERCE MOBILE APPLICATION AFRICAN AWARDS

ECMAAAA is a project run by the African Civil Society on Information Society and a non for profit project. The award project offers a platform opportunity to young innovators in Africa in the mobile application space to present creative ideas to develop ecommerce in African states description and also contributing to the achievement of the global Sustainable Development Goals (SDGs). For now the Projects submitted as part of the competition must target one or more of the sectors categories but not limited to: Agritech, Banking finance and insurance, Health, energy, Industry, TIC, education and environment. The impact of African youths in ecommerce space has improved because many youths in Africa can now afford low-cost phones, which have become increasingly popular in the developing world. Because of this market niche and need of innovative solutions in African societies that address the fundamental material and existential problems that these countries face, each year the ECMAAA.ECMAAA aims to facilitate the integration of young start-ups in the continent in the ecommerce through innovations in mobile applications three winners are selected in each edition. In the spirit of pan Africanism, this Project seeks to engage more African countries, partners and sponsors into the award project.

Website: http://ecmaaa.acsis-scasi.org

Target Beneficiary Groups: YOUTH, WOMN, DISB, UNEMP

Replicable Description: The ecmaaa concept and project has been proven to work so far in two African countries that the 1st and 2nd Edition happened in the African region. The first edition happened at the ecommerce week in Nairobi, Kenya in December 2018 and the second edition happened in the Africup Summit in Tunis, Tunisia in September 2019. Ecmaaa project so far has been able to be exported to two different countries in the African region. While there are, of course, vast differences between countries and even between different parts of the same country, Ecmaaa project will always and often be capable of being replicated elsewhere. Replicating this project in different African countries, also avoids the need to reinvent the wheel. If the ecmaaa approach has been proven to work in two African countries, there should be no need for anyone to reinvent it in another African country instead adapt to the already existing Ecmaaa model. We're always happy to hear from strategic partnering organisations that have thought about this aspect of our project and even as partners invite us as members to participate in their related events. UNCTAD through the E-Trade for all initiative is one such organisation that invited and welcomed Ecmaaa 1st edition to participate in the Africa ecommerce week at UN in Nairobi Kenya, the month of December. In this edition we had a total of 15 African start ups make it to the final pitching phase out of 50 received submissions from all over the continent with a total of 1000 attendees. In the second edition of Ecmaaa happened at the Africup Summit in Tunis, Tunisia the month of September. With a total of 10 African start ups making it to the final pitching out of 80 received submissions from Sub Saharan Africa with a total of 1500 attendees. In each edition 3 winners were chosen. Even as we head to the ecmaaa 3rd edition in the spirit of pan Africanism, we still welcome more African countries to replicate this concept as our strategic partners.

Sustainable Description: Ecmaaa project offers an opportunity to young innovators in Africa to present creative ideas to develop e-commerce in African states description and contribute to the achievement of the SDGs. To ensure ecmaaa funded projects create a positive lasting impact and has to be foremost in the minds of young African Innovators; we have respected the following Components of Sustainability: 1. High level planning and strategic partnerships. Being an initiative endorsed by high level bodies like the African Union Commission E-commerce Conference and a ACSIS is a member of the e-trade for all ecommerce initiative by UNCTAD. From the first and second edition, where the panelists favoured re-investing in

three key projects in each edition to ensure they are more sustainable, through where grants have been made to develop support for social enterprise organisations in the mobile application space through pitching. 2.Financial planning, with most projects having finite funding Ecmaaa has come up with possible funding solutions which include looking for sponsors, increased use of volunteers or planning to decrease service provision towards the end of a project. Operational and financial level support to the projects has been made possible through small grants from the strategic partners and sponsors 3. Learning and developing Disseminating knowledge about the economic framework is at the core mission of the competition to young startups, Local African innovators can play a key role in ensuring that greater sustainability is achieved in Ecmaaa goals. Project participants need to know the status of the regional and continental economic ecosystem is and how they are affected. 4. Management, ability and capacity, Ecmaaa project team understands sustainability through strategic partnerships with educational institutions and sponsorship. This is done through Encouraging inclusive cross-panel discussions, peer-to-peer support and providing professional training support online sessions to enhance the skills.

WSIS Values Promotion: Today, the rapid and aggressive spread of market economies and communication technologies under the influence of Western multinationals has brought new impediments to African small businesses, and most vulnerable actors in African economies to exist and prosper; That's mainly one of the issues that ecmaaa aims to address through its competition; Reaching these goals will not only empower them to make changes in their communities and economies, but also to establish their national and local identities, preserve their dignity and secure better living conditions, fight poverty in some African communities and eventually ensuring the sustainability of their businesses and ideas, hence creating a more prosperous, healthy and safe economic environment in African continent. Furthermore, because women represent major actors, especially in African economies, the competition endeavours to give more space for female startups and special training sessions for small female enterprises who envisage to promote their business and introduce ICT in their project plans. And in more advanced phases of this ecmaaa project we intend to organise an exclusive female edition of the competition. In line with the principle of recognising education, knowledge exchange and communication are at the core of human and work development; Acsis ecmaaa team has created and designed specific content of online training offered mainly to ecmaaa targeted communities and offered them the access to a platform of startup community. Because developing own business and building healthy environment can only efficiently ensured by knowledge exchange, sharing best practises and cooperation between all stakeholders, ecmaaa mentors and staff offered to provide startups with solutions to promote partnership through developing regional and continental partnerships and alliance between them so as to create solutions, suitable framework able to face the challenges they may encounter in the African ecosystem.

WSIS Action Lines: 4, 6, GOV, BUS, LEA, HEA, EMP, ENV, AGR, SCI, 11

SDGs: SDG1, SDG4, SDG5, SDG10, SDG11, SDG13, SDG16, SDG17

Stakeholder Type: International Organization

Country, Region: Senegal, Africa



Solar treatment of biomass for power generation using carbon slurries in hybrid renewable energy systems

Electricity demand across the continent is expected to double between 2012 and 2035. Several African countries have significant fossil fuel resources in the form of coal and gas that could be used for power generation. However, Africa's vulnerability to the impacts of climate change suggests that new electricity generation capacity should preferentially be from low carbon sources. This project aims to tackle the challenge of universal access to clean modern energy in sub-Saharan Africa, using two readily available energy sources: sunshine and biomass. This project is novel because it seeks to overcome the major renewable energy constraint of storage of solar power through solar treatment of biomass and using the stored treated biomass as a fuel for electricity generation. The project is designed primarily for capacity building, containing a major element of training through PhD student development and research exchange. It also seeks to enhance gender-balance in renewable energy capacity. Objectives: Using biomass as the primary energy source storing solar energy by using concentrated solar power to treat biomass converting solar treated biomass into a fuel that can be used directly in modified electricity generators developing a scalable hybrid renewable electric energy system for rural electrification in order to integrate the mix of renewable energies Integrating different sources of electricity in hybrid renewable energy systems equipment to build the Micro-grid Lab has been approved by The Royal Society. Apart from the Micro-grid lab installation, we have ordered purchases of the wind-solar hybrid system. We are waiting for the equipment to be shipped from China to Tanzania, and once they are in Dar es Salaam, we will conduct the training on: "Design and installation of Wind-Solar Hybrid system- installation of a working hybrid system. The system will be used as a pilot system to demonstrate the potentials of the hybrid system to small scale business (SMEs), who can scale up the production."

Website: https://cera.leeds.ac.uk

Sustainable Description: 1) Facilitation of sustainable multidisciplinary partnerships between research groups in sub-Saharan Africa and the UK. 2) Strengthening research and training capacity in sub-Saharan African Institutions of Higher Education through the skill transfer between partner organizations of the research consortia. 3) Provision of support to a cohort of young, talented researchers through integrated Ph.D. scholarships and shared supervision of post-graduate students between the UK-based and African consortia members. 4) Evaluation of the contributions of the Africa Initiative for supporting universities and institutions in Africa to develop sustainable research and research training capacity. Where females/girls are concerned, the program had encouraged female applicants to apply, as a result, this project has two female co-Principal investigators: Ms Mary Susan Abbo from Makerere University, Uganda, and Dr. Consalva Msigwa from Dar es Salaam Institute of Technology, Tanzania.

WSIS Values Promotion: The project as a concert of efforts of partners shows the importance of international and regional cooperation to achieve sustainable development. It contributes to capacity building, empowering female participation in research and commits to building infrastructure much needed for obtaining energy from the natural and renewable resources.

WSIS Action Lines: 2, 4, ENV, 11

SDGs: SDG7, SDG9, SDG17

Stakeholder Type: Academia

Country, Region: United Republic of Tanzania, Africa

DIT
Dar Es Salaam Institute of Technology

Designing and Deploying Computer Networks: Enhancing Women's Employment in Tech

Significant gaps keep citizens from taking advantage of the Internet. In addition to the digital divide, there is a significant gender gap between who benefits from Internet access, and who is employed in the growing and lucrative technology sector. In this context, the Internet Society has developed a new training program targeted to women: Designing and Deploying Computer Networks (DDCN). This program equips learners with practical, employable skills that are in demand, especially in developing economies. Through its combination of classroom instruction, hands-on practice through internship programs, and professional networking support, the program has a real impact in learners' lives in just six months. The pilot phase took place in Nairobi, Kenya, from March to October 2022, with 25 learners enrolled into classes and instructional labs on how to plan, design, deploy, and maintain small cabled or Wi-Fi Local Area Networks (LANs) in residential and small business settings. Subsequently, participants were assigned to internships with local companies to practice their skills and receive personal on-the-job mentorship. Through three months of internship, participants gained confidence, built their professional references and many of them were offered job opportunities. The project will be implemented in at least 4 new countries in 2023.

Website: https://www.internetsociety.org/learning/

Target Beneficiary Groups: YOUTH, WOMN, UNEMP

Replicable Description: The technical training, matched with an internship opportunity supporting the employability of the learner can be replicated in any country.

Sustainable Description: The implementation is done within local communities according to their needs, involving local resources such as local trainers and facilities, and local enterprises employing the learners. These are huge values making the project sustainable.

WSIS Values Promotion: As Internet Society, and with this project in particular, we work to reduce barriers to Internet access, so that people around the world can take equal advantage of the opportunities the Internet offers. We also see the Internet as a great employment opportunity, and therefore we work to build inclusiveness into the Internet workforce, as bridging the digital and gender divide is a priority. This is fully in line with WSIS core values in our communities, more specifically in line with actions C2, C3, C4, C5 and C6.

WSIS Action Lines: 2, 3, 4, 5, 6, 8, 11

SDGs: SDG4, SDG5, SDG8, SDG17

Stakeholder Type: Civil Society

Country, Region: United States of America, Western Europe and North America



Best m-Government Service Award

The mGovAward is a wide-scale competition for the development of mobile applications in government services among students of educational institutions with a $100,000 prize fund. Digitalization has become an integral part of the daily lives of humans in the modern world. The aim of the project is to involve students in implementing new technologies and adopting new ideas to significantly improve citizens' lives and obtain a positive impact in the future. The mGovAward aimed to trigger and assist in the creation, development, and launch of mobile application services and products mediating government services G2B and G2C in a transparent and accountable way for daily lives, and thus teach a knowledge culture of innovation and problem solving among students.

Website: https://mgovaward.uz/

Target Beneficiary Groups: YOUTH

Replicable Description: In other government's organizations. They can replicate it in order to create startup projects for implementation to the ecosystem of e-government.

Sustainable Description: One of the main directions of competition is providing solutions for ecological sustainability. One of the winners of the 2nd wave of the competition is Eco Portal. Eco Portal - The app helps people lead a healthy, eco-friendly lifestyle. For example: - To go out for joint cleaning of environmental violations - Find the nearest waste recycling points - Find the nearest places for ecotourism - Be aware of the latest environmental news in the country.

WSIS Values Promotion: The mGovAward helps its participants develop and strengthen their skills, instincts, abilities, processes, and resources that they need to improve their projects, adapt, and thrive in a fast-changing world. It aligns with the WSIS values, specifically with Action Line C4 - Capacity Building.

WSIS Action Lines: 4, GOV, 11

SDGs: SDG9

Stakeholder Type: Government

Country, Region: Uzbekistan, Asia and Pacific

