

ICT Projects and WSIS Action Line Related Activities in Americas

Regional WSIS Stocktaking Report 2021-2022



Information and
Knowledge Societies for
Sustainable Development Goals
www.wsis.org



World Summit
on the Information Society
Turning targets into action
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WSIS Stocktaking Regional Report 2021-2022

(Zero Draft)

ICT Projects and WSIS Action Line Related Activities

America

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Introduction

The World Summit on the Information Society Forum 2022 represents the world's largest annual gathering of the ICT for development community. The WSIS Forum 2022 started from 15 March onwards in a virtual format with the final week being held physically with enhanced remote participation from 30 May to 3 June 2022 at the ITU Headquarters in Geneva, Switzerland, under the theme of ICTs for Well-Being, Inclusion and Resilience: WSIS Cooperation for Accelerating Progress on the SDGs. The WSIS Forum, co-organized by ITU, UNESCO, UNDP and UNCTAD, in close collaboration with all WSIS Action Line Facilitators/Co-Facilitators, has proven to be an efficient mechanism for coordination of multi-stakeholder implementation activities, information exchange, creation of knowledge, sharing of best practices and continues to provide assistance in developing multi-stakeholder and public/private partnerships to advance development goals. This Forum will provide structured opportunities to network, learn and participate in multi-stakeholder discussions and consultations on WSIS implementation. The Agenda and Programme of the Forum will be built on the basis of the submissions received during the Open Consultation Process.

Furthermore, the 2022 WSIS Forum will provide an opportunity to serve as a platform to track the achievements of WSIS Action Lines in collaboration with the UN Agencies involved and provide information and analyses of the implementation of WSIS Action Lines since 2005.

The outcome document of the UNGA High-level Meeting on the overall review of the implementation of the outcomes of WSIS recognized the importance of reporting and sharing of best practices for the implementation of WSIS outcomes by all stakeholders beyond 2015, recognizing the WSIS Forum as a key platform for doing it. In this context the WSIS Stocktaking process plays a strategic role in supporting WSIS Forum in its endeavor.

Moreover, the WSIS Overall Review called for close alignment between the WSIS process and the 2030 Agenda for Sustainable Development, highlighting the cross-cutting contribution of ICTs to the Sustainable Development Goals. In this context also the WSIS Stocktaking evolves into the unique global process for collection of information on actions carried out in context of WSIS, while underlining their contribution to the implementation of the 2030 Agenda for Sustainable Development.

In the period 2021-2022, WSIS Stocktaking Reports have reviewed 1,620 ICT-related projects and activities carried out by international organizations, governments, the private sector, civil society and other stakeholders around the world. WSIS Stocktaking reports are based on the multi-stakeholder approach, including input from stakeholders from all over the world responding to ITU's official call for stocktaking updates and new entries. The inputs from WSIS action line facilitators and co-facilitators also contribute to the reports.

The WSIS Stocktaking community comprises of more than 200,000 stakeholders who are eager to contribute to the WSIS Process year after year. By identifying trends in implementing WSIS Outcomes, the WSIS Stocktaking Process makes a significant contribution towards building an inclusive Information Society.

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 SDGs.

The WSIS action lines break down into 18 categories:

- 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

Sustainable development goals (SDGs):



Goal 1. End poverty in all its forms everywhere

Goal 2. End hunger, achieve food security and improved nutrition and promote sustainable agriculture

Goal 3. Ensure healthy lives and promote well-being for all at all ages

Goal 4. Ensure inclusive and equitable quality education and promote lifelong learning opportunities for all

Goal 5. Achieve gender equality and empower all women and girls

Goal 6. Ensure availability and sustainable management of water and sanitation for all

Goal 7. Ensure access to affordable, reliable, sustainable and modern energy for all

Goal 8. Promote sustained, inclusive and sustainable economic growth, full and productive employment and decent work for all

Goal 9. Build resilient infrastructure, promote inclusive and sustainable industrialization and foster innovation

Goal 10. Reduce inequality within and among countries

Goal 11. Make cities and human settlements inclusive, safe, resilient and sustainable

Goal 12. Ensure sustainable consumption and production patterns

Goal 13. Take urgent action to combat climate change and its impacts

Goal 14. Conserve and sustainably use the oceans, seas and marine resources for sustainable development

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

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

Goal 17. Strengthen the means of implementation and revitalize the global partnership for sustainable development

We take this opportunity to extend sincere gratitude to all of the stakeholders from the Arab States region who have been engaged in the WSIS Process, sharing their national advances on implementation of the WSIS outcomes since 2004. We would also like to invite all ITU Member States and Sector Members of The Arab States region to continue engaging with the WSIS Stocktaking process by submitting projects relevant to WSIS Action Lines and the newly established SDGs and promote the WSIS Stocktaking process within their communities.

It is important to stress here that ITU has been contributing enormously to WSIS implementation and follow-up from 2005 to the present. The tasks carried out by ITU at the operational and policy level cover all mandates assigned to it relating to the WSIS process, in particular:

Countries in America Region

- Antigua and Barbuda
- Argentine Republic
- Bahamas (Commonwealth of the)
- Barbados
- Belize
- Bolivia (Plurinational State of)
- Brazil (Federative Republic of)
- Canada
- Chile
- Colombia (Republic of)
- Costa Rica
- Cuba
- Dominica (Commonwealth of)
- Dominican Republic
- Ecuador
- El Salvador (Republic of)
- Grenada
- Guatemala (Republic of)
- Guyana
- Haiti (Republic of)
- Honduras (Republic of)
- Jamaica
- Mexico
- Nicaragua
- Panama (Republic of)
- Paraguay (Republic of)
- Peru
- Saint Kitts and Nevis (Federation of)
- Saint Lucia
- Saint Vincent and the Grenadines
- Suriname (Republic of)
- Trinidad and Tobago
- United States of America
- Uruguay (Eastern Republic of)
- Venezuela (Bolivarian Republic of)

ITU contribution to the implementation of the WSIS outcomes: 2021

In 2021, the WSIS Stocktaking Platform has seen the biggest increase in new entries, including the number of stakeholders registered, reaching a total of more than 100,000 stakeholders representing governments, the private sector, international organizations, civil society and others. This has strengthened its position as the major ICT for development (ICT4D) online platform. As of May 2021, over 100, 000 updated entries were registered in the WSIS Stocktaking Database, reflecting all manner of innovative WSIS-related activities.

The WSIS Stocktaking Report will be officially released during the WSIS Forum 2022 (in Geneva, Switzerland). It reflects more than the 1,000 WSIS-related activities that were submitted to the WSIS Stocktaking process for the period April 2020 to September 2021.

About 46 percent of the projects submitted were government initiatives, while 12 percent originated from civil society, 26 percent from the private sector, 6 percent from international organizations, and another 10 percent from academia. Regarding the geographic distribution, 26 percent were from Europe.

The WSIS multi-stakeholder community was invited to participate and cast its vote for one project in each of 18 categories. The list of the 18 most appreciated / voted projects was identified and winning projects were announced officially to the public during the prize ceremony held during the WSIS Forum 2021. The success stories showcased examples of projects on the implementation of WSIS outcomes, emphasizing the achievements of stakeholders working towards achievement of WSIS goals, transferring experience and knowledge at the global level, and spreading and fostering WSIS values.

The successful stories showcased examples of projects on the implementation of WSIS outcomes, emphasizing the achievements of stakeholders working towards achievement of WSIS goals, transferring experience and knowledge at the global level, and spreading and fostering WSIS values.

ITU contribution to the implementation of the WSIS outcomes: 2022

As of May 2022, almost 8,000 updated entries were registered in the WSIS Stocktaking Database, reflecting all manner of innovative WSIS-related activities. The WSIS Stocktaking Report and the Success Stories 2022 will be officially released during the WSIS Forum 2022 (in Geneva, Switzerland).

Following a comprehensive review of the projects submitted, the ITU Expert Group nominated over three hundred projects and posted them online for public appreciation.

The 360 nominated projects break down into 165 projects from the government sector, 93 from private sector, 36 from the academia, 44 from civil society, and 22 from international organizations. As regards regional distribution, 186 from the Asia and Pacific region, 35 from the Latin America and the Caribbean region, 27 from the Eastern Europe, 64 from the Western Europe and North America region, and 48 from the Africa region, while 22 nominated projects come from international organizations.

The success stories will showcase examples of projects for the implementation of WSIS outcomes, emphasizing the achievements of stakeholders working towards the achievement of WSIS goals and SDGs, transferring experience and knowledge at the global level, and spreading and fostering WSIS values.

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

South School on Internet Governance

<https://www.gobernanzainternet.org/ssig2021/en/>

The project is under **South School on Internet Governance** in **Argentina**.

The main objective of the South School on Internet Governance is to train new leaders of opinion in all aspects related with Internet Governance, from a global perspective and with focus on the Latin America and Caribbean Region. The program trains university and postgraduate students from the region and from the rest of the world in understanding the complexity related with Internet Governance and its importance in the future of the Internet. The mission of the South School on Internet Governance is to: Increase the number of representatives of the Latin American and Caribbean region in the international Internet Governance debate spaces. Motivate the new regional leaders of opinion to becoming active participants in Internet Governance meetings and activities, where the future of the Internet is shaped. Make them the future leaders on Internet Governance in their countries and regions. For the second time in its thirteen years of existence, the SSIG has been organized in a completely virtual different way, with the challenge of maintaining the quality and quantity of content and interaction among participating fellows, allowing them to meet Internet leaders through their participation in the program of activities. In this virtual edition, the school broadened its horizons by convening more than one hundred experts from around the world who were connected in a virtual way to an audio and video studio to interact with more than 600 fellows from five continents. The fellows got in contact and interacted during two months prior to the event attending an online self-assisted asynchronous training course, where they were able to meet virtually, receive videos, podcasts, reading material and self-evaluations. This pre-training gave them the knowledge base to profit from the synchronous full five days training from 4 to 8 October.

SSIG has become the most important and largest Internet training event in the Americas and in the world. Sponsors have access to a large network of fellows and experts. It gathers a large remote audience during the 5-day event: more than 25.000 participants from 89 countries. The community has access to all content in two languages during the event and later in the SSIG LAC Youtube channel.

The project contributes to WSIS Action Lines: **1, 2, 3, 5, 6, GOV, BUS, LEA, HEA, EMP, ENV, AGR, SCI, 8, 9, 10, 11**

The project is relevant to **SDG4, SDG5, SDG7, SDG8, SDG9, SDG10, SDG11, SDG12, SDG13, SDG16, SDG17**

Smart Villages, Sustainable well-being

<https://coberturauniversal.gob.mx/aldeas-inteligentes>

The project is under **Ministry of Infrastructure, Communications and Transport in Mexico**.

Smart Villages for the Sustainable Well-being is a free satellite connectivity project promoted by the Ministry of Infrastructure, Communications and Transport of Mexico, 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 the 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.

The impact of the Project is to create digitally empowered communities with sustainable purposes to develop the digital ecosystem that generates an impact on the local economy to improve the quality of life and the level of well-being of the inhabitants of rural communities in Mexico. This initiative is aligned with one of the priority projects of the current federal administration, which is to bring Internet connectivity throughout the national territory.

The project contributes to WSIS Action Lines: **1, 2, 3**

The project is relevant to **SDG1, SDG3, SDG4, SDG5, SDG10**

SDG Data Alliance

<https://alliance.sdg.org/>

The project is under **PUBLIC Foundation in United States of America**.

A long-term universal threat to social and economic development, inequity hampers poverty reduction initiatives, destroys people's sense of fulfilment and self-worth, and stunts every human's potential. In September 2015, world leaders agreed to 17 Sustainable Development Goals (SDGs) that have the power to create a better, more equitable world by 2030. Based on the foundational principle of reducing inequalities of all kinds, the W.K. Kellogg Foundation, Esri, the PUBLIC Foundation, and the United Nations Statistics Division (UNSD) Global Geospatial Information Management (UN-GGIM) Secretariat, have joined forces to form the SDG Data Alliance. SDG Data Alliance will use the power of purpose-driven collaboration, globally recognized geospatial frameworks, and leading GIS technology, to accelerate achievement of the SDGs by creating SDG Data Hubs across developing nations in Latin America, Asia, and Africa. For now, we are aiming at outreach to around 30 countries.

As the project is currently in the development phases, the following impacts are expected: Qualitative impact: It will reveal unexpected outcomes and intersecting inequalities (in this case, policies, gender, social security, etc.). SDG Data Alliance and the SDG Data Hubs will empower governments, leaders and civil society among other relevant actors, to follow, update and showcase significant changes through data accessibility that solve or at least address social injustice and challenges. Through the visualization of critical data and its connection to the SDG's and the 2030 Agenda. It also will facilitate the addressing of current problems of climate change, habitat loss, population growth, pollution etc.

The project contributes to WSIS Action Lines: **1, 2, 3, 4, 5, 6**

The project is relevant to **SDG1, SDG2, SDG3, SDG4, SDG5, SDG10, SDG13, SDG16, SDG17**



Incentive project Community Networks

<https://www.apc.org/en/pubs/policy-brief-and-recommendations-enabling-environment-community-networks-brazil>

The project is under **Telecom National Agency in Brazil**.

The project was developed because of a MoU signed of between the ANATEL and the British Embassy and the first project resulting from this partnership was developed by APC and its results were delivered 25/10/21. The intention was to enable the construction of an environment to encourage community networks in Brazil and the development of concrete projects and studies with a view to contributing positively to the promotion of digital inclusion and the transformation process in the country. The initial projects developed under this partnership were focused on encouraging community networks, supporting small providers, and conducting research aimed at the population of small municipalities to map the demand and gather inputs to contribute to a more assertive public policy improving the agency's performance. Thus, an alternative to traditional investment options was sought, with the possibility of building access networks in regions with low financial returns, particularly in rural and isolated areas with difficult access. We believe that community networks open the way for disconnected communities to build their networks with their own equipment or hire networks and equipment from neighboring locations or even from satellite operators in more remote areas.

We cannot emphasize enough the increasing value of being connected to the internet and other means of communication that enable us to express ourselves and access and search for information, education, training, ideas and opinions which are key to fully exercise rights to information and communications and freedom of expression.

Moreover, as most human activities (economic, transactional, political, recreational, academic and professional, cultural, social, scientific, altruistic and emergency services) migrated to the digital ecosystem at an accelerated pace after the COVID-19 lockdowns, to the point where many interactions demanding a physical presence have been abandoned, for example interacting with government, people and communities that remain with no affordable access to networks will face a double exclusion from society as they might not be able to exercise their civil and political rights in real life or online. They promote innovation and are enablers of other human rights that may become accessible and affordable through digital platforms, for example education and health services.

The project contributes to WSIS Action Lines: **1, 2, 3, 6**

The project is relevant to **SDG1, SDG4, SDG9**



WSIS Action Line C2. **Information and communication infrastructure**

Data Processing Center Vallejo

<http://vallejo-i.mx/>

The project is under **Digital Agency for Public Innovation in Mexico**.

CPD Vallejo was conceived to serve as the main IT infrastructure for the digital transformation process of Mexico City's government, as well as a key partner for academic and business projects by providing specialized IT services.

Additionally, CPD Vallejo will provide solid and modern IT infrastructure for the following years, assuring resources for the development of new IT projects, helping to reduce expenses in the public budget and guaranteeing management autonomy in its processes and decisions.

In the following years CPD Vallejo will host critical digital services related to strategic public policies on issues such as mobility, public safety, environment, government procedures, among others that generate important impacts in citizen's lives by reducing the cost and time invested in public procedures,

increasing the quality of public services, and fostering public information, thus contributing to increase transparency and accountability

The project will reduce idle IT capacity eliminating unnecessary workloads and resources allowing better use of IT infrastructure. Gathering many services in just one consolidated infrastructure will reduce cost energy, disaggregated IT services among other costs hosted or provided by third party companies. The project will increase the number of organizations that use IT services including local and federal government agencies, companies, and research institutions.

The project contributes to WSIS Action Lines: **2**

The project is relevant to **SDG9, SDG10, SDG11**



GoCC4All: Using IT to Provide Access to TV and to National and Local Emergency Information to the Deaf-Blind Community

<https://gocc4all.dicaptafoundation.org>

The project is under **Dicapta Foundation in United States of America.**

We are using our app GoCC4All to deliver information and emergency alerts related to the Coronavirus to people who are deaf-blind. The pandemic created a challenging situation for the deaf-blind community since they rely on touch to communicate and their access to news is limited due to the limited TV accessibility. GoCC4All was created with deaf-blind users in mind and delivers live TV captioning and emergency information through mobile devices and Braille displays. Its users can read the information in different ways: on the screen, on a braille display, or using the voice-over feature of their devices. Users can control the pace, and size of the text and configure the format to fit their needs.

TV Captions section of GoCC4All can be easily adapted to be used in other countries that use ATSC and NTSC standards. The emergency alerts could be adapted to other emergency alert systems that use the Common Alerting Protocol (CAP) developed by the Organization for the Advancement of Structured Information Standards (OASIS). The primary beneficiaries are members of the deaf-blind community, although the emergency alerts are useful for everybody. This project can be sustainable by donations provided by those that want to serve the deaf-blind community.

The project contributes to WSIS Action Lines: **2, 3**

The project is relevant to **SDG4, SDG9, SDG10, SDG11**



Technological Park of São José dos Campos (PqTec)

<http://www.pqtec.org.br/>

The project is under **Technological Park of São José dos Campos (PqTec)** in **Brazil**.

Our mission is to promote science, technology, innovation (C, T & I) and entrepreneurship, aiming at competitive and sustainable development. To do so, we are a synergistic environment that stimulates cooperation between company and company and company-research institution to carry out research, development and innovation (P, D & I) projects. The São José dos Campos Technological Park (PqTec) is aligned with the already proven vocation of the municipality in being an advanced pole of technological development and innovation. The deepest roots of PqTec are in the Aeronautical Technical Center, created in 1946. From the CTA came the Technological Institute of Aeronautics (ITA) in 1950; the Department of Aerospace Science and Technology (DCTA) in 1967; and Embraer in 1969.

The project contributes to WSIS Action Lines: **1, 2, 3, 4, SCI, 11**

The project is relevant to **SDG4, SDG9**



WSIS Action Line C3. Access to knowledge and information

GreenLeaves: Retirement houses heatwave risk reduction

<https://greenleaves.app/>

The project is under **PlaneteGreenLeaves** in **Canada**.

GreenLeaves is a web-based platform designed for reducing heatwave impacts in places with vulnerable residents including retirement house, hospital, etc. using simulation and AI techniques. "The number and duration of heatwaves have increased dramatically in recent years due to rapid urbanization, land-use change, increased GHG emissions, and climate change. Annual average U.S. temperatures are projected to increase by 3°F to 10°F by the end of this century, depending on future emissions of greenhouse gases and other factors. These temperature changes will have direct effects on human health. According to the World Health Organization, more than 166000 people died due to extreme temperatures between 1998-2017. The 1999 heatwave in the US Midwest resulted in more than 1000 deaths. The 2003 European heatwave caused nearly 70,000 deaths during the summer. People aged 65 years and over are at increased risk of heat-related illnesses and need special care in hot weather. Examined the impact of heat wave in 21 different regions found that the number of deaths among people of 75 years of age and older increased by 21.3% during the heat wave with similar mortality rates between men and women. Making cities and human settlements specifically places with vulnerable old people safe, resilient, and sustainable against heatwave is one of the main Sustainable Development Goals (SDG). The objective of this work is to develop an integrated urban simulation + AI forecasting model for finding vulnerable buildings against heatwave, send warning notifications to residents and municipals to be ready for taking required actions to reduce the risk on old people."

The project contributes to WSIS Action Lines: **1, 2, 3, 4**

The project is relevant to **SDG3, SDG9, SDG11, SDG13**



PUNKU, the telecommunications information portal

<https://punku.osiptel.gob.pe/>

The project is under **Telecommunications Regulatory Agency in Peru.**

PUNKU is a tool designed by OSIPTEL that allows people to access various updated information on the telecommunications sector in Peru. By mean of PUNKU, several telecommunications sector indicators can be analyzed, related to lines, connections, traffic, incomes and prices of public telecommunications services. Likewise, information on investments made by telecom operators, financial ratios, claims for service and company, service access data, as well as fixed and mobile number portability data is provided by the tool. Indicators are continuously updated with

different periodicity depending on the kind of information; in consequence, updates can be monthly (such as portability data), quarterly (such as line/connection data) or annually (such as financial data). Indicators shown in PUNKU can be exported to Excel, Word, or PDF format; likewise, the tool also allows downloading information structured in databases ("PUNKU Datasets"), guaranteeing access to open data on telecommunications sector. Finally, it should be noted that PUNKU allows the interactive use of showed indicators, since it makes possible to modify the types of graphs and modify time frame based on scroll buttons.

This project allows to have relevant indicators of Peruvian telecommunications sector available to the public, which are updated periodically. Such information can be used free of charge, for commercial and non-commercial purposes (users, academics, research, etc.). It was estimated that having this tool could generate a benefit for society of US \$ 0.75 million over a 5-year period, mainly because of the benefits of access to information.

The project contributes to WSIS Action Lines: **3, GOV**

The project is relevant to **SDG4, SDG9**



Mobile application "My IFT: Tools for Users"

<http://www.ift.org.mx/usuarios-telefonía-movil/mi-ift-herramientas-para-usuarios>

The project is under **Federal Telecommunications Institute in Mexico**.

It is a mobile application available for Android and iOS devices which allows users of telecommunications services in Mexico to access to six useful informative tools, as well as the most important news and information of the sector. It also provides them direct access to the IFT's media service. The application not only allows users to access and obtain advice for the resolution of their complaints, but also to access to the necessary information in order to hire the best telecommunications services, such as: phone's coverage, Internet speed, data usage and their contract, so that users are able to compare the existing plans and rates without consuming their data, or receiving notifications of their process status while using their mobile's browser. My IFT brings information closer to all consumers, promotes efficient and effective access to information and it seeks the empowerment of their users. It is accessible for people with disabilities, and it is completely free. This app has been available in stores since June 2021 and has been downloaded by more than 100,000 people.

It is the first mobile application in the America's region, which contains all these types of informative and customer service tools for each telecommunications service user. The app has been downloaded through the official App Store and Play Store by more than 100 thousand users since its launch on June 2021. The usage of the web tools designed by the IFT has increased by approximately 47% since its publication and development, which means that a great number of users have access to information that let them know about what is best for them. The app is a

sustainable tool. Therefore, the management and updates does not imply an economic impact, and since it is a digital tool, it does not imply either any damage to the environment.

The project contributes to WSIS Action Lines: **3**

The project is relevant to **SDG4, SDG9**



Easy Track

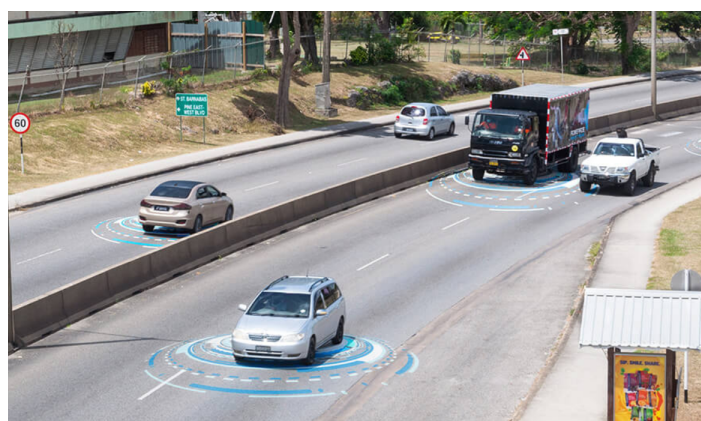
<https://easytrak.co/>

The project is under **Caribbean Transit Solutions in Barbados.**

A fleet and vehicle management platform that enables monitoring, reporting and analytical functionality to administrators and fleet managers. This platform also allows insurers to offer discounts to their customers based on the customers' driving habits. EasyTrak are the authorized resellers within the Caribbean Region for GEOTAB and we are committed to meeting your company's fleet management needs. We understand that the decisions you make are only as good as the information you receive. Learn more about how our GPS tracking solutions help fleet owners reduce fuel costs, improve MPG, and transform the way you manage your business.

The project contributes to WSIS Action Lines: **2, 3, BUS, 11**

The project is relevant to **SDG3, SDG10, SDG11, SDG12**



WSIS Action Line C4.

Support provided by the Omar Dengo Foundation (FOD) to the public educational system in response to the COVID-19 crisis

<http://www.fod.ac.cr>

The project is under **Omar Dengo Foundation (Fundación Omar Dengo)** in **Costa Rica**.

Since March 16, 2020, schools closed in Costa Rica, cancelling in-person classes and moving the educational system to at-home schooling. The Omar Dengo Foundation, in coordination with the National Program of Educational Informatics Ministry of Public Education – Omar Dengo Foundation (PRONIE MEP-FOD), offered the following services: - Teacher training activities through FOD's virtual training campus "Upe" and other online training services such as Cisco Networking Academy. Including the offering of online courses, workshops and tutorials in subjects such as learning with mobile technologies, computational thinking, programming, electronics, cybersecurity, digital citizenship and entrepreneurship. - Encourage the use by teachers of Microsoft Teams through social networks. - Digital resource toolbox "LIE++ from home", to guide online, at-distance and offline educational informatics learning, by primary and secondary school students. - Provision of alternative communication tools, such as Cisco Webex licenses. - Home access to PRONIE MEP-FOD's laptops so that students could continue with their educational processes through at-distance and virtual schooling. - Teacher Help Desk to answer inquiries using WhatsApp messages, Email and phone calls. - Transportation of educational materials to students without Internet access.

The project's activities can be replicated by other public and private educational systems, by following the methodological strategy of training the educators first, and then provide them with continuous advice and support. The use of social media to deliver live broadcasting and educational learning capsules can be useful to reach a majority amount of population.

The project contributes to WSIS Action Lines: **4**

The project is relevant to **SDG4**



WSIS Action Line C5.

Llegamos con TIC

<https://www.llegamoscontic.gov.co/portal/>

The project is under **Ministerio de las Tecnologías de la Información y las Comunicaciones in Colombia.**

"Llegamos con TIC" is the program for the appropriation of Information and Communication Technologies that encourages and promotes the development of digital skills and competencies in the people of the Colombian territory, especially those who are in rural areas. With the use and appropriation of the internet promoted through the initiative Llegamos con TIC, tools are provided so that the inhabitants of the Colombian territory can use technologies meaningfully; that is, positively transforming their lives.

In 2021, Llegamos con TIC program benefited a total of 536,933 people from the 32 departments of the Colombian territory, who participated in the different courses and content made available on the program platform. All the contents of the program Llegamos con TIC, are didactic and easy to learn, given they are made in multiformat such as blogs, videos, infographics, podcasts, and other types of formats made especially for Colombians to learn to use Information Technologies and the internet in a simpler way, being also fully accessible to any population with disabilities.

The project contributes to WSIS Action Lines: **1, 3, 4, 5**

The project is relevant to **SDG4, SDG5, SDG8, SDG9**



Cybersecurity Microsite

<https://ciberseguridad.ift.org.mx/>

The project is under **Federal Telecommunications Institute in Mexico.**

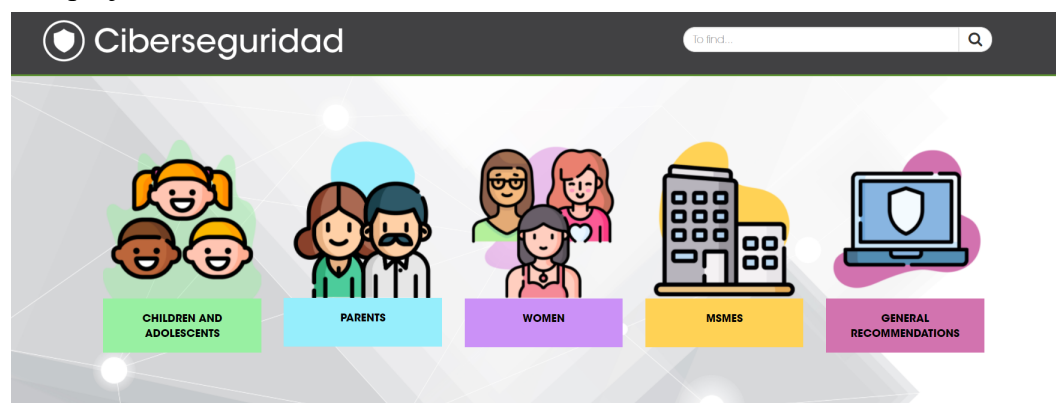
A microsite was developed due to the importance of promoting trust and security in the use of ICTs, considering the large amount of informative material that both the IFT, and other national and international organizations have generated on digital security, as well as, the user's need to have a space that brings together all this information for an easier research. This microsite is aimed to a specific public: children, teenagers, parents, guardians, women, entrepreneurs and MSMEs, in which information and tools are published that seek to promote the responsible and safe use of services, applications and devices. The microsite contains: capsules, infographics, comics, tests, guides, studies, statistics and other resources that exemplify in a simple way the risks that exist in the digital environment and provides specific recommendations to avoid them. Besides, it contains a directory of the country's cyber

police to facilitate the reporting of cybercrime. What makes this microsite unique is the cooperation since it has resources from more than 16 national and international agencies specialized in promoting digital security.

The Microsite is at the leading edge due to its characteristics that differentiates them, such as: the introduction of information by type of user since it shows data and recommendations exclusively aimed at the user who requires it. Also, the collaborative effort, as it introduces resources on digital security shared by more than 16 specialized national and international institutions and organizations.

The project contributes to WSIS Action Lines: **5**

The project is relevant to **SDG4, SDG5, SDG8, SDG9**



En TIC Confío+

<https://www.enticconfio.gov.co/>

The project is under **Ministerio de las Tecnologías de la Información y las Comunicaciones in Colombia.**

It is a program of the ICT Ministry of Colombia, with a 10-year history in the national territory, led by the ICT Appropriation Directorate. It promotes the use and appropriation of internet as an opportunity for activism and positive footprint in digital environments and the development of self-care skills about risks and crimes on the internet. Also, it contributes to the prevention, reporting a zero tolerance of sexual exploitation material for children and adolescents or any other form of violence against children under 18 years of age on the internet and other ICT platforms. En TIC Confío+ strengthens the capacities of the actors to generate a positive, safe, and responsible use of ICTs in the face to the risks associated with them and disseminating multiple tools to prevent them. Through the direct action of the initiative, it contributes to maintaining well-being and digital security, promoting growth opportunities (life projects) and participation in the digital environment. The program has benefited more than 13 million Colombians in its 10-year history. The beneficiaries have participated in promoting the use and appropriation of the Internet as an opportunity for activism and a positive footprint in digital environments, and the development of skills for self-care regarding risks and crimes on the Internet.

The project contributes to WSIS Action Lines: **1, 3, 5, LEA**

The project is relevant to **SDG4, SDG5**



WSIS Action Line C6.

Program to Promote Confidence in the Digital Environment

https://ciberseguridad.ift.org.mx/files/guias_y_estudios/programa_de_confianza_en_el_ecosistema_digital.pdf

The project is under **Federal Telecommunications Institute in Mexico**.

This program aims to promote coordinated actions between different actors and authorities with common objectives that participate in the digital ecosystem, to program and execute activities related to the digital literacy and promote a culture of cybersecurity, trust and the responsible use of Internet access. The following activities were carried out:

- Working meetings where specific actions were defined, for example, the Cybersecurity Virtual Talk "Don't get tangled with networks", held in April 2021.
- Work in a coordinated way in the development of different informative materials in which the different online risks and recommendations are explained, as well as a glossary of terms related to the topic.
- Schedule the joint dissemination of materials with specific themes previously defined by the participants of the program.
- Jointly courses and / or workshops directed to the general public such as the cycle of conferences "Towards a National Cybersecurity Policy" and the Cybersecurity Conference Week 2021.
- Share knowledge, exchange information and best practices, based on the activities that are carried out in the respective competences of each Institution through the signing of agreements.

The implementation of this program has managed to impact a great number of people derived from the activities that have been carried out during the year 2021. During the broadcasts of the presentations and conferences, a visualization was reached in some social networks of at least 30 thousand people.

The project contributes to WSIS Action Lines: **6**

The project is relevant to **SDG4, SDG5, SDG8, SDG9**



Construction of the 2030 Digital Agenda

<https://agendadigital.gob.do/>

The project is under **MINISTERIO DE LA PRESIDENCIA** in **Dominican Republic**.

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.

The 2030 Digital Agenda took into account the urgent need to close the existing digital gap between the different economic and social sectors. That is why it has several objectives and lines of action dedicated to developing digital skills in the population, mainly in the most vulnerable, so that they can improve their income, get better jobs or start a business. It also seeks to promote digital transformation in small companies, currently immersed most in informality, so that they expand their market and businesses. In addition, # AD2030 contemplates the use of technology to face natural disasters and reduce the demand for paper through the digitization of public services. At a quantitative level, and only as a sample, # AD2030 proposes by 2030 to increase by 72% the proportion of low-income inhabitants with basic and medium digital skills; 355% the percentage of high technology exports and 54% the number of institutions that offer their services online.

The project contributes to WSIS Action Lines: **1, 6**

The project is relevant to **SDG1, SDG3, SDG4, SDG5, SDG8, SDG9, SDG10, SDG16, SDG17**



WSIS Action Line C7. ICT Applications: e-government

Financial inclusion ecosystems with Digital neighborhood Banking Agents

<http://idpayer.com/>

The project is under **Proexponente in Ecuador**

We help banks and financial cooperatives to process all their operations from each neighborhood business thanks to our biometric devices that allow people to make any payment or transaction with facial biometric validation without contact and with the highest standards of security for citizens. ICT Tools used: Biometrics as a contactless transaction system beating a card or a cell phone without the need for people to use the internet. Low-cost biometric devices that increase the reach of banks and financial cooperatives, reducing investment in ATMs or physical agencies. We work with Api integration with the Banking Systems.

The main beneficiaries of this project are people in main cities or towns who cannot access to banking services. Especially during the lockdowns, people would face more difficulties in getting into towns and to do banking services in person. This project helps to provide banking services while making sure that it is contactless and COVID-safe.

The project contributes to WSIS Action Lines: **1, 2, 5, BUS**

The project is relevant to **SDG1, SDG4, SDG8, SDG9, SDG10, SDG11, SDG16, SDG17**



Escolas Conectadas

<https://www.escolasconectadas.org.br/>

The project is under **Fundação Telefônica Vivo in Brazil**

Escolas Conectadas is a project designed to promote inclusion in the world of digital culture and the development of 21st century learning. The courses offered are centered on the experience exchange between teachers and the collective construction of knowledge. Escolas Conectadas is an initiative by ProFuturo, a program of the Telefônica Vivo Foundation and "la Caixa" Foundation that, among other strategies, encourages distance learning for teachers. By practicing innovative teaching methodologies, the project, which began in 2015, promotes the inclusion of teachers in the digital culture and encourages the development of 21st century skills in the school community.

In 2020 we had 375,700 vacancies filled in the Escolas Conectadas courses and we reached 142,546 teachers registered in the platform. Of the teachers who used our platform in the period, 42.7% completed two or more courses, and 60% of the most accessed content was related to the use of technology in education, showing that the project helped meet the demand, increased during the pandemic period, for training in the use of digital teaching tools. By August 2021, more than 245,000 people had enrolled in courses and 75,000 teachers had been trained. These figures prove the recognition of Escolas Conectadas by the school community and the program's relevance that has impacted Brazilian education since 2015. Moreover, we were recognized by the UNESCO-Hamdan bin Rashid Al-Maktoum Award for Outstanding Practice and Performance in Improving Teacher Effectiveness, created to support the improvement of teaching and learning quality in meeting the Education for All goals. On the platform trainings are offered on emerging topics in education such as: "Journey in the biomes: biodiversity and conservation in game form"; "Water: drops of awareness"; "Home Vegetable Garden: a healthy future with fruit all year round" in addition to the courses "School for All: Promoting anti-racist education" and "School for All: inclusion of people with disabilities". This training is free and accessible to all teachers who have an Internet connection, which contributes to the construction of a quality education and the reduction of inequalities in teaching and learning. Besides being available online, we have teachers who take courses at the education departments, schools, and by cell phones in the municipalities where they work. The Internet as a means of dialogue with teachers and managers allows us to reach the entire national territory, impacting education even far from major cities. Our partnership with municipal public networks allows us to multiply the impact of social investment and reach those professionals who really need support to perform an essential task for the transformation of the country, the education of our children and young people.

The project contributes to WSIS Action Lines: **3, 4, LEA**

The project is relevant to **SDG4, SDG10, SDG17**

The project is under **WorldQuant University in United States of America**

Established in 2016, and accredited in 2021, WorldQuant University is an accredited global online university offering no-cost master of science degree in quantitative analytics. +5,300 students are enrolled from more than 100 countries; with 600 graduates. A rigorous curriculum ensures that our students graduate with the hard skills demanded by employers large and small. What truly sets students apart is the manner in which they earn their degree. Succeeding in an asynchronous, online learning environment requires a great deal of self-reliance and the ability to collaborate professionally with individuals and teams across the globe. In short, graduates have the autonomy, time management, and communication skills to excel in modern professional environments.

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The project contributes to WSIS Action Lines: **LEA**

The project is relevant to **SDG4**

Educational campaign “J@ online” improving digital safety skills of various social groups

Pesquisador Virtual

<http://www.uci.cu>

The project is under **Universidad de las Ciencias Informáticas in Cuba**

"Pesquisador Virtual" is an IT solution that uses surveys to capture information on the Cuban population's health status, as a complement to the active query process of the Cuban health system, in the context of the epidemiological response to the COVID-19 pandemic. It has a mobile solution and a web solution where people declare their symptoms, among other medical data. The results of the survey (statistical and nominal information) are monitored in real time through graphs and statistics by the different instances of the Ministry of Public Health (national, provincial and municipal levels). As a result of this process, people are treated in less than 24 hours, in their homes, by doctors from the primary health care system, allowing early detection of possible cases of COVID-19. In three months, the system was used by more than 200,000 citizens, of whom more than 28,000 declared at least one symptom of the disease and received timely medical attention. The system has had an impact recognized by the Cuban medical authorities in confronting the pandemic and the good results obtained so far by the country.

"Pesquisador Virtual" is an IT solution that uses surveys to capture information on the Cuban population's health status, as a complement to the active query process of the Cuban health system, in the context of the epidemiological response to the COVID-19 pandemic. It has a mobile solution and a web solution where people declare their symptoms, among other medical data.

The project contributes to WSIS Action Lines: **HEA**

The project is relevant to **SDG3**

Management System for Isolated Patients by Covid-19

<https://www.uci.cu>

The project is under **Universidad de las Ciencias Informáticas (UCI) in Cuba**

The web application Management System for Isolated Patients by Covid-19 consists of 3 fundamental modules: Patients, Travelers, Administration. The system is designed to monitor the patient from their admission to the isolation center, allows planning for the implementation of PCR in real time and taking into account the result of the test the patient can be discharged or referred to a specialized hospital. The primary data of each patient is stored, as well as the necessary medical data such as: last contact date, admission date, contact person and personal pathology history. From the Patients module, data can be filtered for analysis, taking into account race, gender, age, city of origin, among others. During the use of the system in the isolation center, more than 4000 suspicious patients were treated at Covid-19.

The main beneficiaries are the Cuban Ministry of Public Health, government officials, patients and health workers. The main benefit is the security and reliability of the system for data management. In addition, the work time dedicated to the organization and control of information is reduced and human resources can be dedicated to others without having to spend time on information processing

The project contributes to WSIS Action Lines: **1, 2, 4, GOV, HEA**

The project is relevant to **SDG3**

Increase the capacity and upgrade the delivery of dialysis fluids to patients with Technology embedded

<https://www.gpo.or.th/view/215?lang=en>

The project is under **América Móvil in Mexico**

1) MonitorFCS App. Since the start of the pandemic, in América Móvil we have been concerned about the health of our coworkers, therefore, as part of the company's actions to deal with COVID-19, in collaboration with the Carlos Slim Foundation, we developed the MonitorFCS App, in order that our coworkers and their families can carry out daily monitoring of their health status and, in case of presenting symptoms related to COVID, receive the necessary attention and information. 2) COVID-19MX App. Through our subsidiary Telcel in Mexico and in collaboration with two banking institutions, we collaborated in the development of the COVID-19MX App, to help the population to generate a personal and family self-diagnosis. There is no browsing cost for Telcel users, as well as the text messages (SMS) involved in the use of the App. The platform was made available to the authorities for their complete management. ICT Tools used: Now more than ever, we rely on connectivity and the use of our mobile devices to communicate with others, and to make daily transactions. The COVID-19 pandemic and the fact that thousands of people are working, studying or just staying at home as a way of taking care of their health, has increased the use of these devices. With the Apps developed by América Móvil -in collaboration with other institutions- we help people to get a health diagnosis facilitating medical attention if required. By having a previous diagnosis, the Apps also allow doctors to take care of the patient in a faster and more accurate way. These

Apps also provide population with truthful information and combat the spread of fake news. Furthermore, by eliminating navigation costs in the Apps, we make sure that these tools are accessible to the most vulnerable communities.

The main beneficiaries in the first case are our coworkers and their families, while in the second one is the general population. By providing tools that allow them to monitor their health on a daily basis, we contribute to avoid saturation of the health systems, and we offer peace of mind to people who does not have the disease or, where appropriate, we provide the necessary information so that they can get medical assistance.

The project contributes to WSIS Action Lines: **GOV, HEA**

The project is relevant to **SDG3, SDG10, SDG17**

CarePredict

<https://www.carepredict.com/home/>

The project is under **CarePredict in United States of America**

"It is known that changes in activity and behavior patterns of older persons precede changes in their health. Over millennia we relied on frequent human contact to observe older persons as we all lived in communal settings. Over the last century, urbanization and industrialization have led to many older adults being geographically dispersed without frequent human observation. This lack of visibility has led to unrecognized aging-related conditions that decrease longevity and quality of life. This project measures the efficacy of a privacy sensitive continuous machine observation system to observe activity and behaviors and trigger interventions upon changes. The 24-month, retrospective pilot intervention study demonstrated a 39% reduction in hospitalizations and a 69% reduction in falls across a 490 person cohort in 6 congregate living settings in the United States. The project utilized the CarePredict Digital Health system which uses a wearable device to track an older person's activities such as eating, bathing, cooking, sleeping, sitting, standing, as well as presence in specific rooms such as bathroom, dining room, living room and bedrooms. The system does not rely on any self-reporting or additional human input and is worn continuously. Activity and behavior baselines are created over a 14-day period and caregivers alerted to changes such as skipping of meals, skipping bathing/grooming, increased sedentary behaviors and changes in bathroom visit duration and frequencies: all of which are correlated with conditions such as depression, urinary tract infections (UTIs) and risk for falls."

The project has demonstrated that it can reduce hospitalizations by an unprecedented 39% and falls by 69% leading to older persons staying in their existing care setting for longer periods. This is immensely valuable to governments and their financial resources as the number of older persons is estimated to increase dramatically over the next 20 years. An additional benefit of the ICT is that for the very first time, large numbers of older persons have been observed at this granular detail and this data can lead to future research on how to improve health and longevity. For example, it was previously known from limited data that physical and functional activity levels are

tied to reduction in declines of health and death. The ICT here can help caregivers understand an older person's physical and functional activity level and chart trends over time, leading to insights on how to promote healthy aging. Allowing an older person to maximize the time they age in place in their own home preserves their financial resources and allows for a dignified aging process. Being able to prioritize care just to those who need it and when they need it helps an overstretched caregiving system to take care of more people with fewer resources.

The project contributes to WSIS Action Lines: **HEA**

The project is relevant to **SDG3**

WSIS Action Line C7. ICT Applications: e-employment

ServiSenior

<https://servisenior.cl/>

The project is under **ServiSenior in Chile**

We use the gig economy to create flexible job opportunities for Seniors over 50 years, connecting them with companies that need help to improve operational or administrative processes and connect quality services for their customers. Indirectly, we seek to reposition the figure of Seniors in today's society, where their role has been taking a secondary role and where public policies have addressed it in a totally assistant way and not focusing on the great value and experience they can still deliver. We have helped more than 700 Seniors connect with flexible job opportunities, allowing them to generate more than US\$750,000 in total revenue and more than 200,000 hours of activity. This has led them to improve their self esteem, feel more reconnected to society and improve both their physical and mental health.

The project contributes to WSIS Action Lines: **EMP**

The project is relevant to **SDG8**

ICT Training specialists

<https://virtual.ulp.edu.ar/Oferta.aspx?Id=54>

The project is under **Universidad de La Punta in Argentina**

The main objective of this program is the training of people with solid knowledge, so that they can be successfully inserted in the labor field, ensuring the acquisition of the skills required by it, through an adequate sequencing and integration of concepts, the application of methodologies and tools focused on software development, using free platforms and strategies that emphasize intensive experimental practice. The Covid - 19 pandemic accelerated the digital transformation process, and increased the demand for specialized profiles linked to software development and process digitization. While employment at the national level fell by 7% in the last three years, in the field of software it grew by 21%, and there are still some 10,000 unfilled positions. Part of the solution to ending the shortage of specialized profiles lies in the teaching of digital

skills to students from primary to higher education. The creation of new education programs represents an opportunity for the inhabitants of the province of San Luis to have access to free platforms and to get specialization. Since 2017, the Province of San Luis is implementing a process of massive training called "Programadores 4.0" (Programmers 4.0) that aims at helping children, adolescents and adults acquire the necessary skills to be "Technology makers". This initiative was strengthened in 2018 when teachers were offered training in programming. Based on the good results obtained, with a total number of 29,275 trained people, an intensive stage of free, virtual, higher training was projected in 2019. So, the degree of University Technician in Software Development, with a duration of 2 years and a half, started to be offered. There were 2,201 applicants, 651 active students and 94 graduates by 2021. As a concrete result, the province has increased registered employment in software by 27% (2019-2020), leading the growth rate of the entire Argentine Republic, which on average was 11%.

The government of San Luis has been implementing a digital agenda for more than 20 years, with the strong belief that economic and social development can only be achieved with a digitally included society. The scientific and technological revolution has the potential to transform economies and societies and to address some of the most pressing challenges of our time. They not only increase the productivity of the processes in which they are applied, but also act as a vector of social development and transformation by improving access to basic services, boosting connectivity and creating employment opportunities. The Government of San Luis shares this perspective and has the firm conviction that this is a two-way highway in which everyone has the chance to participate. The pandemic confirmed the importance of having modified the Provincial Constitution in 2011 to give the inhabitants of San Luis the fourth generation right to digital inclusion. This laid the foundations for the government agenda: Connectivity, e-Devices and Training. Each year, therefore, the necessary investment was made throughout the whole Province to comply with this agenda. The following are provided free of charge: connectivity, an average device is delivered to each household, teacher training, learning platforms for primary and secondary students, and virtual and blended university training. San Luis has all the conditions for blended and, above all, virtual training to reach its maximum potential thanks to the investment in connectivity that reaches all villages and towns. This makes training possible, regardless of the where a student is. San Luis has all the conditions for blended and, above all, virtual training to reach its maximum potential thanks to the investment in connectivity that reaches all villages and towns. This makes training possible, regardless of the where a student is. The inclusiveness of this project can be estimated by the 29,275 persons trained, among children, adolescents and adults, thanks to the programs "Mini programadores" (Mini Programmers), "Mega programadores" (Mega Programmers) and "Meta programadores" (Meta Programmers), respectively. Besides, many teachers had also access to training, apart from the 2,201 entrance students, 651 active students and 94 graduates in the University Technical Qualification in Software Development. It is important to highlight the fundamental role of women, managing to train 48.8% in

Mini programmers (children), 49.5% in Mega programmers (adolescents), 49.5% in Meta programmers (adults) and 29 % in university students training in Software. From the good results obtained since the launch of the Programadores 4.0 program, until the opening of distance university training, the growth of employment in the software area has been perceived since 2019. As a concrete result, the Province has increased registered employment in software by 27% (2019-2020), leading the growth rate of the entire Argentine Republic, which on average was 11%. Although the definitive figures for 2021 are not yet available, employment has continued to grow, and proof of this is that there are practically no unemployed trained people in the Province. Furthermore, not only have the companies based in the Province expanded their workforce (some of them are Mercado Libre Libre, Raona, Artware, Unitech) but also programmers living in the province are being remotely employed by companies from other cities in Argentina or abroad. By the end of 2021, there were no registered trained people who intended to work, without a formal job in the software production activity.

The project contributes to WSIS Action Lines: **3, 4, LEA, EMP**

The project is relevant to **SDG4, SDG5, SDG8, SDG10, SDG16**

Empowering unemployed women to become strong technology creators

<https://www.facebook.com/ReprogramaBr/>

The project is under **Reprograma in Brazil**

Reprograma is a social impact startup focused on teaching programming to cisgender and transgender women who are unemployed and haven't had the resources, opportunities or support to learn how to code. We offer an 18-week bootcamp course that teaches our students how to program. Female role models from top tech companies (IBM, Google Campus, ThoughtWorks, etc.) offer them mentorship throughout the program, and we also organize visits to startups and tech companies (Nubank, Microsoft, LinkedIn, etc.) to help our students understand first-hand what it means to work in this sector. Throughout the course we also teach them methodologies such as UX Design, Agile Thinking and Design Sprint helping them develop a different way of problem solving and solution thinking. We want to make sure that our students have the necessary skills and tools to put their own ideas into paper, and then use technology to develop them. The program also prepares them for the market by helping them create a work portfolio and LinkedIn profile, draft their CVs, train on interviews and, more importantly, believe in their capacity to become powerful creators of technology. We reprogram the way in which they see themselves as strong contributors of the tech sector.

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The project contributes to WSIS Action Lines: **2, 3, LEA, EMP**

The project is relevant to **SDG4**

WSIS Action Line C7. ICT Applications: e-environment

Digital Approaches to Resilience and Adaptation in Jamaica (DARAJA Project)

<http://www.caribbeancic.org/>

The project is under **Caribbean Climate Innovation Center in Jamaica**

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.

This project is a piloted project currently in Jamaica that will be replicated for the rest of the Caribbean. Through the creating an opening Data Compass for Climate Resilience. A second aspect of the project will focus on the creation of a Climate Resilience Sandbox, to support the development of innovative solutions for early-warning systems & risk reduction systems utilizing open data from searchable online database of all key international (NASA, ESA, Caribbean Scientific Institutions), as well as the national datasets on climate hazards and exposure data related to climate risk in Jamaica. 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. 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.

The project contributes to WSIS Action Lines: **1, 2, 3, ENV, 9, 11**

The project is relevant to **SDG1, SDG3, SDG9, SDG11, SDG12, SDG13, SDG17**

The project is under **Plan4All, z.s. in Czech Republic**

The objective of Open Land Use for Africa (OLU4Africa) is to build an open seamless harmonized vector multipurpose and multilayer land use and land cover map of Africa from available open data sources. Land cover and land use themes are

important for many human activities and actions, while their availability and up-to-date validity is a very important aspect. OLU4Africa is being populated by datasets from African regions such as the Africover project and CCI Land Cover 2016 and newer, which has done the land cover mapping of particular African countries. Then, it was possible to use other tags from OpenStreetMap to identify land use except for the 'landuse' tag. For example, 'natural', 'amenity', 'leisure' tags, and so on. ESA CCI LAND COVER map and classification of images from Earth observation satellite data are being incorporated into the process of creating the OLU4Africa as well. The OLU4Africa will be enriched with other available thematic datasets in the next development; especially focused on current LULC on medium and large scales. Availability and accessibility of this product can help for example detect changes in ecosystems at the area of interest from LULC and climatic perspective as well. OLU4Africa is being incorporated into the SmartAfriHub platform (www.smartafrihub.com).

OLU4Africa is bringing new quality to the seamless mapping of Africa and is a good opportunity for a number of different analyses. We plan to diversify our business strategy, there are more possibilities how to make a profit from our data: - The first is to offer our services to international map-making initiatives in Africa. An example could be FAO, GEO, UNEP ESA, Bill & Melinda Gates Foundation, etc. - The second possible model is to offer this service to countries, where we plan to also use sources from developing programs. We are now analyzing existing developing programs for single countries. For example, now we are analyzing possibilities of Czech development Funds. - As the last possibility is to offer services to private investors who are interested in data from certain regions in Africa.

The project contributes to WSIS Action Lines: **3, GOV, BUS, ENV, AGR, 10, 11**
The project is relevant to **SDG2, SDG3, SDG4, SDG6, SDG9, SDG10, SDG11, SDG13, SDG15, SDG17**

WSIS Action Line C7. **ICT Applications: e-science**

Improving brain proteostasis as a strategy to reduce the adverse effects of aging on the cognitive decline of the elderly.

<http://www.gerochile.org>

The project is under **Biomedical Neuroscience Institute (BNI), University of Chile in Chile**

Prolonged exposure to stress may result in deleterious effects to brain function, reducing our cognitive functions, a central aspect required for our daily life. Exposure to stress has been implicated in the acceleration and/or exacerbation of cognitive deficits in elderly subjects, impacting our capacity to learn and remember. A tight control of protein homeostasis (termed proteostasis) is a central factor driving molecular events linked to higher cognitive functions, a process seriously affected during aging. Studies in different model organism point to a decay in the buffering

capacity of the proteostasis network as one of the “hallmarks of aging”. Moreover, exacerbated proteostasis dysfunction during aging is suggested as a main driver linked to neurodegenerative diseases such as Alzheimer’s disease. Our group have developed a gene therapy strategy to restore proteostasis in the brain by delivering active transcription factors of the unfolded protein response (UPR) to artificially preserve neuronal function. We hypothesize that chronic stress impairs the proteostasis capacity of the brain, accelerating the cognitive decline associated with aging. We aim to determine the consequences of improving brain proteostasis to aging animals exposed to stressful situations as a strategy to reduce the adverse effect on cognition. This project acquires a central relevance due to the COVID-19 pandemics because of the stress generated by the confinement. Overall, this proposal is the first international attempt to associate environmental stress with brain aging and proteostasis control, aiming to define a novel point of intervention to preserve cognitive function of the elderly and extend healthspan.

The progressive decline of cognitive functions of the elderly are a major public health issue because it negotiably impact quality of life and is the main risk factor to develop devastating neurodegenerative disease such as Alzheimer’s disease. All the elderly population, people affected by the stress of the COVID-19 pandemics, aging people at risk to develop Alzheimer's disease and other dementias. Our group have developed a gene therapy strategy to restore proteostasis in the brain by delivering active transcription factors of the unfolded protein response (UPR) to artificially preserve neuronal function.

The project contributes to WSIS Action Lines: **SCI**

The project is relevant to **SDG3**

Technology applied to sport 2021

<http://www.ulp.edu.ar/paginas/campus-abierto-ulp.php>

The project is under **Universidad de La Punta in Argentina**

The ULP Open Campus has its own biomechanics department, whose purpose is the constant evaluation of athletes. It has national and international level equipment that allows the execution of high quality protocols for all athletes. Before, only the athletes chosen to integrate the different national teams had the possibility of accessing an evaluation of this magnitude at CeNARD, Buenos Aires. With the creation of the Biomechanics Department, all San Luis athletes can be evaluated and enhance their performance, without having to travel hundreds of kilometers or pay high costs for the execution of evaluations of similar characteristics. Due to the Covid 19 pandemic that we have to go through, an evaluation protocol was created, adapting them to the suggestions issued by the Provincial Crisis Committee, in order to continue providing this service to athletes. The main objectives of the Biomechanics Department are:

- 1- Comprehensive evaluation of all athletes in the province: The success of any sports process lies in planning and periodizing training sessions, having "evaluations" as a starting point.
- 2 - Creation of a database: it is the first at the national level, since there are no background records of such magnitude. All the results of the evaluations

are treated statistically in order to establish standards or criteria, and in this way help athletes and/or coaches to interpret the data, improve their sports planning. 3- Scientific research based on the data collected: In the sports field, constant research is essential for the generation of new knowledge. 4- Accessibility to the results of the tests: Connectivity and inclusion are priority policies at the provincial level. The next objective is to incorporate the results to the San Luis portal where the evaluated athletes and their coaches will have access to the information online, counting for this with CIPE 3.0 and Internet access. This puts athletes on the outskirts of the city on equal terms with those who live in it.

As of 2018, the creation of the biomechanics laboratory made state-of-the-art technology, in terms of sports evaluations, available to all federations, associations and sports institutions in the province, marking an unprecedented before and after. Until then, athletes were evaluated only in the capital, 800 km from their place of residence. The implementation of "comprehensive protocols" of evaluation, allowed to enhance the performance and improve the health of athletes, substantially lowering injury rates. All tests, re-tests, reports and training plans are easily accessible, totally free, and of great quality, because they are carried out by specialists, this positively influences the economy of the benefited institutions. In turn, technology helps to reduce much of the contamination with the tools it has, taking into account this concept, all test reports are sent online, thus supplanting ink and paper. Since its foundation, 2,697 athletes have passed through the laboratory, of both genders and various ages, belonging to 27 sports disciplines, and 68 provincial and national institutions. Of which 470 athletes have been tested in 2020, and 850 in 2021 despite the difficult situation that we had to go through with the global Covid-19 pandemic. To carry out the evaluations, the protocols recommended by government entities are strictly complied with. In addition, more than 300 professionals have been trained in the subject "assessment of physical aptitude in the school, sports and health environment" with a resolution approved by the Ministry of Education of the Province.

The project contributes to WSIS Action Lines: **4, HEA, SCI**

The project is relevant to **SDG5, SDG9, SDG10**

WSIS Action Line C7. **ICT Applications: e-agriculture**

TLAYOLCHIKAWALIS (ACTIONS TO PROTECT THE HEARTS) CAMPAIGN

<http://tayolchikawalis.org/>

The project is under **Redes por la Diversidad Equidad y Sustentabilidad AC in Mexico**

The TLAYOLCHIKAWALIS (ACTIONS TO PROTECT THE HEARTS)

CAMPAIGN is aimed at making effective the right to know of the masehual people of

Cuetzalan in order for them to help each other. With very scarce access to infrastructure, services and information in their own language, there has been a worrisome trend of misleading information and fake news, and the need for a campaign which not only provides reliable information but enables the community to organize themselves to help and see for each other. In order to mobilize and organize community members for the provision of supplies and other economic relief in this economic crisis in Cuetzalan, the campaign is absolutely necessary. The campaign is being led by a long established local “Union of Cooperatives Tosepan” that brings together 395 Indigenous communities of the Sierra Norte of Puebla, but we need help for the campaign costs in Cuetzalan del Progreso and surrounding communities. Currently, TOSEPAN is being accompanied by the Mexican NGO Redes por la Diversidad, Equidad y Sustentabilidad A.C. in a very important indigenous telecommunications network project together with Telecomunicaciones Indígenas Comunitarias A.C. and Rhizomatica. ICT Tools used: broadcasting, internet, dissemination via social networks of the campaign.

The main beneficiaries of this project are the members of “Union of Cooperatives Tosepan” that brings together 395 Indigenous communities of the Sierra Norte of Puebla. We hope to build a strong information and communication infrastructure than can better connect these people in a more reliable way.

The project contributes to WSIS Action Lines: **3, 4, 5, 6, HEA, AGR, 8**

The project is relevant to **SDG2, SDG3, SDG8, SDG16**

WSIS Action Line C7. **ICT Applications: e-learning**

SoCCs Buddies

<https://asiainitiatives.groupment.com/>

The project is under **Asia Initiatives in United States of America**

In response to the COVID-19 pandemic, Asia Initiatives has launched an innovative program known as SoCCs Buddies, aimed at bettering learning outcomes for the students in under-served communities in India. SoCCs Buddies blends our award winning SoCC (Social Capital Credits) system with a pool of mentors to deliver individualized teaching and English Language instruction. Fluency in English is considered an essential skill in India that influences both employability and wages. Our program also helps address the learning attrition during the Covid 19 lockdown and other disasters. An additional benefit includes developing their skills and preparing them to access global online resources from sites such as Khan Academy and Byju. Our mobile app will allow both teachers and students to login in and track their progress, and earn and redeem “SoCCs” within the app for various goods, services and recognition offered. Redemption items range from reusable menstrual pads, digital skills sessions, digital devices, and scholarships.

The concept of combining Zoom and SoCCs for imparting virtual lessons can be replicated anywhere provided the students have digital devices and internet. The learning modules developed by Asia Initiative experts are simple and easy to implement with no special training requirements. Flexibility has been built into the modules to ensure that the lessons can be modified depending on the level of interaction between the students and mentors. Mentors from any part of the world can be onboarded easily and training can be imparted through the Zoom platform. A commitment to the cause and time dedication of a couple of hours a week is all that is required. This open set-up is perfect for a diversity of views to be incorporated into the lessons which will prove to be enriching for both mentors and students alike. The modules are being currently field-tested in Lucknow and will be expanded to our sites in Odisha and Maharashtra.

The project contributes to WSIS Action Lines: **2, 3, 4, LEA, 8, 11**

The project is relevant to **SDG1, SDG4, SDG5, SDG10**

WSIS Action Line C7. **ICT Applications: e-business**

Tainacan and Museums Project

<https://www.revistamuseu.com.br/site/br/artigos/18-de-maio/18-maio-2018/4751-museus-brasileiros-e-a-hiperconectividade-a-experiencia-com-a-plataforma-tainacan-no-acesso-ao-patrimonio-afro-digital.html>

The project is under **Ministry of Culture in Brazil**

Tainacan is a digital platform baptized from an indigenous legend originating from the Carajás peoples. The Ministry of Culture, the Brazilian Institute of Museums (Ibram) and the Federal University of Goiás have developed the Tainacan platform for the management of digital collections of Culture, with the novelty of covering different types of collections and the categorization and indexing of data. The aforementioned digital repository is free software and presents itself as an interesting possibility of hyperconnectivity, not only for its ability to gather multiple Brazilian museums, with its diversity of collections, in the same portal, but also to make the user participant active in the process. This creates a new relationship between the museums and the users of their digital collections, even if they are not currently in exhibition at the institution's headquarters. This opens new possibilities in the relationship of the "virtual visitor" with the cultural institution. It allows innovative experience, with the interaction of the collections, contribution of the visitor with comments in the accessed registry and the alternative of sharing it in the social networks most used in the virtual world. To produce intense connectivity.

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The project contributes to WSIS Action Lines: **8**

The project is relevant to **SDG4, SDG16**

WSIS Action Line C9

Rendever

<https://www.rendever.com>

The project is under **Rendever in United States of America**

"Rendever offers a virtual reality platform built specifically for seniors to help combat the effects of social isolation through the power of shared experiences. Once seniors put on the VR headset, a world of endless possibilities opens up to them. They can check off bucket list items like skydiving, tour famous cities and landmarks such as the Eiffel Tower in Paris, bring family memories to life with a nostalgic visit to their hometown, and much more. The idea for Rendever came to fruition after CEO

and Founder Kyle Rand witnessed first-hand the effects of social isolation on seniors when his family made the difficult decision to move his grandmother into a senior living community. After noticing the cognitive decline of his grandmother and other residents, Rendever's team began researching the effects of social isolation, only to find that prolonged social isolation is as detrimental to one's health as smoking 15 cigarettes per day. A prototype for Rendever's platform was quickly developed by leading VR developer - Tom Neumann - and initial research with the MIT AgeLab and Benchmark Senior Living was conducted. Results indicated that residents showed significant improvements in depression scores and social health within two weeks of using Rendever daily. While VR is a powerful tool, Rendever's real magic

happens after the headsets are removed. Through these unique shared experiences, seniors are having lively discussions, creating memories, and building community in a way that directly combats social isolation - the very heart of Rendever's mission."

"Since its launch in 2016, Rendever has made its way into more than 250 senior living communities and hospice organizations worldwide. Rendever creates magical moments for residents every day, with over 13,000 sessions delivered; the platform has seen users spend a combined total of more than 2 years of time in VR, and is quickly approaching a major milestone of delivering 1,000,000 moments to paying clients. Rendever's platform not only helps seniors experience things they've

never done or seen, but it also allows them to reminisce by revisiting their favorite places or doing activities they enjoyed throughout their life. For example, during a visit to a senior living community in Connecticut, a caregiver for a woman named Mickey let the team know that her bright personality had dimmed as a result of her dementia. She shut down and hadn't smiled or spoken in months. The team put one of the Rendever headsets on her, transporting her immediately to a room of golden retriever puppies. Instantly, Mickey lit up with a huge smile on her face. She started laughing, reaching out to pet the puppies, and she started communicating for the first time in a long time. The Rendever team hears stories like Mickey's every single day. Seeing and feeling the impact that the Rendever platform has had on people is

incredibly motivating for the continuous development of programs. Just before the pandemic started, the National Institute on Aging (NIA), a division of the National Institutes of Health (NIH), awarded Rendever a Phase I grant to test the potential for impact of their virtual reality (VR) platform with residents experiencing some form of

cognitive decline and their adult children who live at a distance. Although only half of data collection was completed before the COVID-19 pandemic began, the results were overwhelmingly positive, showing a statistically significant increase in emotional closeness in the relationship, decrease in isolation, and increase in relationship satisfaction. The team was given the green light to fast-track and apply for a Phase II Clinical Trial, expanding the research to 12 sites across the country, and recently received the official notice of intent to fund the application from the NIA. Now, Rendeever is looking to delve more into providing various therapies for residents at senior living communities. For example, they just released MultiBrush - a multiplayer version of Tilt Brush, a popular VR art design tool - to the larger VR ecosystem. The team is now looking to connect artists to seniors through art tutorials, walkthroughs of famous art exhibits, collaborative sessions, and potentially art therapy. The team is also diving into wide-ranging forms of reminiscence therapy, music therapy, and physical therapy."

The project contributes to WSIS Action Lines: **3, BUS, HEA, 8, 9**

The project is relevant to **SDG3, SDG4**

COVID-19 Radio Response

<https://farmradio.org/our-work-on-covid-19-so-far/>

The project is under **Farm Radio International in Canada**

At a time of physical distancing, radio is often the only source of information for marginalized communities. We are working with our network of more than 1000 radio stations across Africa on supporting communities with COVID-19. We are providing critical information to journalists across 41 countries to allow them to combat misinformation, answer frequently asked questions, and stay safe while reporting. We have also rolled out an emergency IVR hotline and a companion chatbot on Telegram and Facebook Messenger to arm journalists with the correct, up-to-date information on the pandemic. We have facilitated more than 50 social media discussions on WhatsApp and Facebook so far across ten countries where we work. We have moderated 19 five-day discussions with health, gender and nutrition specialists, allowing broadcasters to ask questions freely to inform their COVID-19 programming. Lastly, we launched a COVID-19 Support Fund for radio stations. The fund can cover fuel for generators, protective equipment, internet and phone costs for remote work, or other relevant needs. Broadcasters in twelve countries (Burkina Faso, Cameroon, Democratic Republic of Congo, Ethiopia, Ghana, Kenya, Mali, Malawi, Nigeria, Senegal, Tanzania, and Uganda) have been able to apply for the funding. All of this work with broadcasters is amplified by radio programs that reach out to tens of millions of listeners in both rural and urban geographies across the continent. At a time of physical distancing, radio is often the only source of information for marginalized communities. You can learn more here: <https://farmradio.org/our-work-on-covid-19-so-far/>

FRI is definitely looking for partners. First, we are looking for funding partners to invest in robust communication services in the countries we work in. Second, we are

looking to partner with NGOs and other civil society groups that may need help in delivering their work during the pandemic. Due to the nature of our work being largely at a distance already, we are able to offer connections to communities that have largely been cut off from the development community during COVID-19. We are looking for partners in the agriculture, health, education and gender equality sectors. These partnerships would focus mainly in the countries FRI maintains physical operations: <https://farmradio.org/our-work/#where-we-work> There is a major need for programs that support communication services even outside of the context of the COVID-19 pandemic. But right now it is even more critical to replicate this kind of approach, as the world moves on to recovery from the pandemic. The major issue right now is simply funding. Large numbers of radio stations in our network could feasibly launch more targeted COVID-19 recovery content in the coming months if the right funders were willing to work with organizations such as FRI on this kind of work.

The project contributes to WSIS Action Lines: **1, 3, 4, 5, AGR, 9**

The project is relevant to **SDG2, SDG3, SDG5, SDG13, SDG15, SDG17**

TDRA Digital Awareness Program

Hay Mujeres

<http://haymujeres.cl/>

The project is under **Hay Mujeres in Chile**

Based on the platform and the information resources therein, Hay Mujeres has installed three annual permanent initiatives: media training with TVN experts (public television network), the annual Hay Mujeres convention and the nomination of Hay Mujeres Ambassadors. The objective of Hay Mujeres is to promote female visibility as a fundamental aspect of a public sphere that is yet to fully integrate it, despite having broken down the barriers of the professional and educational world in Chile. Today the issue is highly problematic, with women and men complaining about the absence of email voices on debate panels in the media. Hay mujeres has over 410 women experts registered and available for consultation.

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The project contributes to WSIS Action Lines: **9**

The project is relevant to **SDG5, SDG16**

WSIS Action Line C10

Pursuing Wealthspan

<https://mywealthspan.com/>

The project is under **Wealthspan Financial Partners / Lapetus Solutions, Inc. in United States of America**

"In a rapidly aging world with more people living longer, planning for one's financial future is essential at every age – young and old. Most people today do not develop

such plans, and for those that do, financial planning tools are generic, outdated, or both. The rise of Covid-19 means that financial planning, like life underwriting, must be done using tools of science involving remote personalized assessments of prospective healthspan, lifespan, and the linkages between these attributes and accumulated wealth – referred to as Wealthspan. We have developed science-based assessment tools that combine current aging biology, epidemiology, genetics, the actuarial sciences, and engineering involving facial analytics, with wealth management, in order to create hyper-personalized financial planning assessments that can be completed remotely -- in a matter of minutes. We have created the telemedicine version of financial planning with the goal of revolutionizing financial services industries. The purpose of this new technology extends well beyond traditional wealth management -- our goal is to enhance the probability of achieving a Positive Wealthspan among current and future generations, thereby securing and extending healthy lifespan for those that avail themselves of these new science-based wealth management tools. Maintaining health throughout life is our primary goal; wealth management based on scientific approaches to lifespan and healthspan assessment are the tools that bring this technology to life."

The extension of healthy life is the primary goal of Wealthspan Financial Partners / Lapetus Solutions and the technology we've created for rapid personalized assessments. Financial resources represents one of the most powerful tools that exists today to help ensure that health is maintained for as long as possible. The pursuit of a Positive Wealthspan is, by definition, what is required to influence independence, health, safety, and security in people aged 60+, but keep in mind that people age 30-60 today will be those aged 60+ during the next three decades. As such, our goal is to positively influence the Wealthspan of current and future generations of older people across the globe by simultaneously encouraging sound planning among both older and younger generations today.

The project contributes to WSIS Action Lines: **1, 3, 6, BUS, HEA, SCI, 10**

The project is relevant to **SDG3, SDG5, SDG8, SDG9, SDG10**

Open Data Portal

<https://datos.cdmx.gob.mx/>

The project is under **Digital Agency for Public Innovation in Mexico**

The Open Data agenda is vital to provide socially useful public information and thereby solve public problems. Since the publication of the Digital Operation and Innovation Law for Mexico City in December 2018, the Government of Mexico City, through the Digital Agency for Public Innovation, has carried out various actions in order to implement an Open Government policy in Mexico City. Since January 2019 and uninterruptedly, the Agency, in coordination with the Public Administration Entities of Mexico City, has made available to the citizens the Open Data Portal (available at <https://datos.cdmx.gob.mx/>), where anyone can consult, use and download the databases generated by the Government of Mexico City.

Visits data Since January 2021, the open data portal has been visited 2,579,588 times. Currently, it has 241 datasets distributed across 31 City agencies (including the Secretariat of Mobility and the Secretariat of Environment) and 17 different

categories (including Women, Covid-19, as well as Administration and Finance).

Social impact The objective of having an open data portal is, first of all, to bring people closer to the involvement of public life, which is, indeed, a mandatory tool for any democratic society, allowing the citizen to access, demand and, to us, serve.

To achieve this objective, information must necessarily be in a digital format and accessible to any user. We are convinced that this strategy must be through the Internet.

The data supporting this hypothesis come from the National Survey on ICT Availability and Use in Households 2020 (ENDUTIH). This survey indicates that 84.4% of the population of the CDMX is an Internet user. It is important to mention that Mexico City is the second entity in the country with the highest percentage of the population using the Internet.

The project contributes to WSIS Action Lines: **1, 2, 3, GOV, 10**

The project is relevant to **SDG4, SDG11, SDG16**

Genecoin e-health

<https://www.genecoin.co/covid19>

The project is under **Genecoin in Brazil**

Genecoin is a tech startup developing blockchain based solutions to maximize social and environmental sustainability of biodiversity supply chains. As response to the pandemic, we adapted our biodiversity projects so we could further develop them virtually and we created an e-health project to help fight the disease. For the e-health project, we have partnered with the biotech startup Bio Bureau, who is developing technology for massive COVID-19 testing, and the Brazilian research center in telecommunication, CPqD. The goal of the partnership is to develop a blockchain application to safely store COVID-19 test results, guaranteeing both confidence in the information for all stakeholders and ownership and privacy for the patients. We foresee that the platform could later be used as an immunity passport, allowing people return from isolation without endangering others and enabling the resume of some social and economic activities that would benefit all.

The blockchain platform could be used on the background to support different user facing applications, with different regional reach and characteristics. On financial sustainability: we understand that the users data is valuable to different stakeholders that are willing to pay for it. The platform provides a channel for users to monetize their data and retains a fee in case they decide to do it.

The project contributes to WSIS Action Lines: **HEA, 10**

The project is relevant to **SDG3, SDG8**

Alto al Ciberacoso

<https://www.altoalciberacoso.com/>

The project is under **Telefónica del Perú in Peru**

In Peru, 52.5% of girls, boys and adolescents between 6 and 17 years old constantly access the Internet (GFK and CHS Alternativo, 2019). Today, the generation of

digital natives has multiple development opportunities thanks to technology: from improving learning with innovative methodologies, to having immediate access to information and communication. However, just as digitization opens up many opportunities, it can also expose girls, boys and adolescents (NNA) to various risks. According to a study carried out by GFK and CHS Alternativo (2019), 55% of children and adolescents claim to have had contact on the Internet with strangers and 47% to have made a meeting. In addition, between 2018 and 2019, the High Technology Crime Division of the National Police of Peru registered 425 cases of online material of sexual abuse of girls, boys and adolescents between 6 and 17 years old. We established a strategic alliance with the NGO Capital Humano y Social Alternativo (CHS Alternativo) and the international organization End Violence Against Children for the management and development of “Stop Cyberbullying”, seeking the protection of minors in digital environments. The Stop Cyberbullying strategy aims to train and empower girls, boys and adolescents in risk prevention in digital environments through the online course "Stop Cyberbullying" and the use of high-impact didactic tools. Seeks that children and adolescents can identify common forms of bullying, such as grooming, sextortion and cyberbullying, and have tools for its prevention and reporting. In addition, it seeks to train teachers with pedagogical materials to accompany their students in risk prevention and to identify if any of them are facing a situation of online bullying; as well as sensitize parents in relation to safety and protection in the most popular social networks for their sons and daughters. For the development of the project, the following activities were consolidated in alliance:

- Alliance with alternative CHS and EVAC
- Alliance with Fundación Romero for the dissemination of the Alto Al Ciberacoso (Stop Cyberbullying) course.
- Technical table representing NGOs for children and sustainability leaders from the private sector.
- Focus group on content validation with adolescent leaders of the I.E. Tupac Amaru from Villa María del Triunfo.

To date, Alto Al Ciberacoso has had the following results:

- The online course Alto al Ciberacoso (www.altoalcibeacoso.com) has had 27,037 unique users since October 30, 2019
- Guaranteeing an extension of the scope to the entire educational system Peruvian regular, the platforms Aprendo en Casa (remote education system implemented by the Ministry of Education in the context of COVID-19) and SISEVE (anti-bullying observatory of the Ministry of Education) included the course Stop Cyberbullying within their content for adolescents . Likewise, the course and its materials were included in the High Performance Schools Program (COAR) for home education and specialists in School Coexistence.
- Through Educared, Fundación Telefónica's Teachers Network, we provided information on bullying prevention and made the course available to 5,283 teachers. In addition, we reached 703 teachers and academic monitors through the High Performance Colleges (COAR).
- We trained the staff of 17 Movistar points of sale in the prevention of online harassment, in addition to providing support material, to be delivered to the user public (potentially, caregivers and parents).
- We reached 28 impacts in the media from the launch date of the strategy in October 2019 to date.

Relevant information on the problem of online

bullying and the importance of guiding minors to prevent, detect and report these cases was published in press releases and interviews.

The project contributes to WSIS Action Lines: **3, 5, 10**

The project is relevant to **SDG4, SDG16, SDG17**

Senior Journey Guide

<https://www.nationalchurchresidences.org>

The project is under **National Church Residences in United States of America**

"The problem we are solving is that seniors and their families need help navigating the complex senior living journey. The senior living journey requires many choices related to housing, healthcare, finances, social activities and personal growth. Because seniors and their families do not know who to trust for advice and information related to these decisions and choices, they often rely on themselves or friends or wait until here is a crisis and settle for sub-optimal outcomes. Our solution (currently named Stella) is a web-based solution providing trusted advice enabling seniors and their families to prepare for all the realities of aging. Stella offers seniors and their families a DIY approach as well as support from a licensed social worker. By using Stella, seniors and their families will be able to prepare a senior living plan that covers all areas of the senior life as well as find access to the local resources they need for support. Stella distinguishes itself from other solutions by providing the capability to build a holistic senior living plan online using an array of assessments, questionnaires and algorithms based on years of experience serving seniors. Another key feature is what we call Scenario Planning. Scenarios in Stella are those future events that seniors or their family members may not be thinking of now but by planning ahead for applicable scenarios, a crisis can be averted giving the senior some peace of mind knowing they are prepared for the future realities associated with aging."

As we have tested our current solution with seniors and their families, they have told us that Journey Guide gives them confidence that they are prepared for the future events that come with aging. They are able to get connected to local resources that they were previously unaware of. They also said they benefited from the increased communication and collaboration that comes as a result of discussing and planning for future events (scenarios).

The project contributes to WSIS Action Lines: **3, 5, 6, BUS, LEA, HEA, 10**

The project is relevant to **SDG3**

WSIS Action Line C11

English.pdf

The project is under **Pacific Disaster Center in United States of America**

PDC leverages global UN and NGO partnerships and use of mapping, GIS, Satellite imagery, AI and Open Data for the COVID19 response - <https://www.pdc.org/major->

hazard/covid-19/ . PDC's National Disaster Preparedness Baseline Assessment (NDPBA) is more than just an assessment, it's a sustainable system for accessing, understanding, updating, and applying critical risk information in decision making. The NDPBA provides the necessary tools, scientific data, and evidence-based practices to effectively reduce disaster risk—informing decisions at the national, subnational, and local level. Using a collaborative, stakeholder-driven approach, PDC integrates national priorities and stakeholder feedback throughout every step of the process. Our process includes a Risk and Vulnerability Assessment (RVA) which examines several components of risk including exposure to hazards, vulnerability, coping capacity, and existing disaster management capabilities. These findings are further reviewed through the lens of PDC's unique Disaster Management Analysis (DMA). The DMA contextualizes the RVA and guides recommendations designed to increase resilience and reduce disaster risk. Findings of this analysis are compiled into a Disaster Risk Reduction (DRR) Plan offering practical actions to be taken over a five-year period. ICT Tools used The objective is data-driven situational awareness for government, UN and NGO partners via our DisasterAWARE application - <https://disasteralert.pdc.org/disasteralert/> . The main beneficiaries for this project include UN and NGO partners, local, provincial and national health stakeholders and the general public who leverages our DisasterAlert mobile app (with approximately 1.5 million downloads) <https://www.pdc.org/apps/disaster-alert/> The project contributes to WSIS Action Lines: **1, 3, 4, LEA, 11** The project is relevant to **SDG3, SDG9, SDG17**

Remote surveying of child caretakers in Rwanda

<https://www.savethechildren.org>

The project is under **Save the Children US in United States of America**

Rwanda, like most countries in the world, has taken different prevention measures including “lockdown” (mandatory sheltering in place within citizen's homes), social distancing, travel restrictions, closure of schools and other activities to manage the spread of the pandemic. Schools tend to be the safest places for children around the world because they are the primary conduits for recognizing and reporting child neglect and abuse, so their closures in particular put children at risk. Save the Children Rwanda is working to ensure that girls and boys (with or without disabilities) are safe in their homes and are able to exercise their rights to learn, survive and be protected. As a key part of that effort, Save the Children has teamed with GeoPoll to use that company's software platform to conduct a 2-way SMS survey of adults caring for children in Rwanda. The goal of the survey is to establish the extent of caretakers' support for their children's learning and well-being while schools are closed due to the pandemic in order to respond with appropriate services and interventions.

The primary beneficiaries of this data will be Rwandan children, ages 0 to 12, who have been displaced from school due to the COVID-19 outbreak, along with their

families, schools, community-based child services organizations and the Ministry of Education. The survey will allow Save the Children, community-based organizations and the Rwandan government to identify the difficulties that caretakers face when caring for children in their homes during the day and to address any resulting child welfare issues by tailoring services to meet those needs.

The project contributes to WSIS Action Lines: **3, HEA, 11**

The project is relevant to **SDG3, SDG4, SDG5, SDG14, SDG16**

The project is under **Electronic Government Network of Latin America and the Caribbean in Uruguay**

The Electronic Government Network of Latin America and the Caribbean, GEALC Network, is the creation of a group formed by e-government authorities from the countries of Latin America and the Caribbean. This composition is transformed into a unique instrument to promote horizontal cooperation, support for the elaboration of citizen-centred e-government policies, the training of public officials, knowledge of key aspects of the construction of a national strategy for e-government, and the exchange of solutions and experts among the countries of the region. The general objective of the GEALC network is to support e-government policies that put the citizen and specially the most vulnerable population in the centre. Stand out, among other achievements: A reference environment for more than 60 high public officials responsible for boosting the e-government in the countries of the region. Annual meetings to establish priorities and to know experiences Repository of information and documents updated daily and available online, with public access, through this platform, which, at the moment, has become the main online reference in the region in this subject (www.redgealc.net). It includes a subportal for each country in the region with its strategies, state of the art, legislation and news in e-government A database with almost 300 experts on electronic government. Leadership of the eLAC process-working group on e-government driven by the countries of the region that conform it.

Through the Gealc Network, it has been possible to consolidate the work that different countries of the region are carrying out in matter of digital government. In this line, the Network promotes work in different themes and among them are: Measurement: Knowing what state the evolution of electronic government is in is a central tool for digital public policies in each country. To be able to measure it in several countries allows refining horizontal cooperation actions. That is why the Gealc Network Measurement work group designed indicators for their countries to gather and analyse these key inputs. Open Data: The Open Data Work Group of Gealc Network, formed by Argentina, Chile, Colombia, Costa Rica, Mexico and Uruguay. In addition to supporting digital government agencies in the region in government data opening policies, Gealc Network is part of the governance scheme of the International Conference on Open Data (Condatos) and Abrelatam deconference. Public software: a diagnosed of the situation in Deep, a regional model agreed upon all the countries of Latin America, a digital platform and the co creation of four softwares evolved to

version LAT, are some of the results of the public software axis of the work of Gealc Network, promoted with the support of the Initiative of Regional Public Goods of the Inter-American Development Bank (IDB). Innovation: the work group of Innovation has the purpose of exchanging good practices to deepen the innovation in the public sector of the region. Knowledge: the excelGOB awards identify, every two years, the solutions developed in the region, they are systematised in a catalogue and allow that the winners know the best practices of electronic government in a technical mission to Corea. Along with the IDB, studies are carried out about procedures, mobile government, e-shopping and other priority areas. Additionally, the network holds annual and ministerial electronic Government meetings where annual work plans and country declarations are established. Recently the Ministerial Meeting was held in Buenos Aires and from there the “Declaration of Buenos Aires” emerges. Country declarations are documents generated within the framework of the Ministerial Meetings of Electronic Government of Latin America and the Caribbean, which express the commitments and guidelines agreed during the instance.

Results/projects in common As a result of the teamwork promoted from the Gealc Network, stand out projects that are carried out in different countries. Among them: “The first regional digital signature workshop for the strengthening of the cross border electronic transactions in Latin America and the Caribbean” was held in Santiago de Chile on June 27 and 28, 2019. Organised by the Gealc Network with the support from the Chile’s Digital government Division, is part of the initiative of the Regional Public Goods Initiative of the Interamerican Development Bank (IDB)

Participated delegations from Argentina, Bahamas, Chile, Ecuador, Guyana, Jamaica, Panamá, Paraguay, Perú, República Dominicana, Uruguay and Venezuela. The aim of the activity was to initiate a discussion to reach an acceptable common minimum of digital signature recognition among countries, as a basis for moving towards cross-border digital services in the region.

Public software workshops Within the framework of the Regional Public Software Mechanism, financed by the Public Goods Initiative of the Inter-American Development Bank (IDB), seven workshops were developed, the penultimate of them subdivided into four co-creation meetings, which totalled ten face-to-face instances that involved more than 120 officials from about twenty countries.

Open Data GobCamps Gobcamps are an innovative and decontracted format in which the countries of Gealc Network analyse background issues. Those focused on open data are carried out as part of the Condatos / Abrelatam series of events and represent the reflection space of the governmental actors of the open data ecosystem.

Interoperability Workshops Interoperability has been one of the recurring themes on the digital government agenda of the countries of the region. In order to share experiences and knowledge, the Interoperability Workshop was held in Mexico City.

The project contributes to WSIS Action Lines: **1, 2, 3, 4, 5, GOV, BUS, LEA, HEA, EMP, ENV, AGR, 8, 10, 11**

The project is relevant to **SDG17**

Conclusion

The International Telecommunication Union (ITU) remains committed to the World Summit on the Information Society (WSIS) process, and to implementation of the WSIS goals beyond 2021. ITU recognizes and highly appreciates the extremely valuable contributions made by stakeholders to enable the continuation of WSIS monitoring and reporting. There can be no doubt whatsoever that, in today's fastmoving world, innovation and efficiency are vital to success. Accordingly, the WSIS Stocktaking 2021 Report shares with you the most recent updates and success stories in the WSIS stocktaking process.

The Web 2.0 WSIS Stocktaking Platform continues to foster implementation of the WSIS outcomes and to facilitate exchange of information among more than 300 000 members representing governments, the private sector, international organizations, civil society, and other stakeholders. As the Web 2.0 platform continues to flourish, so does the promotion of social development and economic growth through ICTs. We continue to maintain and improve the WSIS Stocktaking Database, which contains close to 800 entries this year. This encouraging outcome reinforces stakeholders' belief in and commitment to the WSIS Stocktaking process and their desire to share best practices.

Regular reporting on WSIS Stocktaking is the outcome of the Tunis phase of the Summit, launched to serve as a valuable tool for assisting with the WSIS follow-up. Since 2005, regular reporting has been a key tool for monitoring the progress of ICT initiatives and projects.

WSIS stocktaking has been evolving to be the unique global process for collecting information on actions implemented within WSIS framework, aligning the WSIS process with the 2030 Agenda for Sustainable Development, highlighting the crosscutting contribution of ICTs to the SDGs. The United Nations Economic and Social Council (ECOSOC) resolution 2015/26 on "Assessment of the progress made in the implementation of and follow-up to the outcomes of the World Summit on the

Information Society", which reiterates the importance of sharing best practices at the global level and recognizes excellence in the implementation of the projects and initiatives that further the goals of the World Summit, encourages all stakeholders to nominate their projects for the annual World Summit project prizes, as an integral part of the WSIS Stocktaking process, while noting the report on the WSIS success stories.

We are also pleased to announce the launch of a new and innovative interface, which will make it easier to search all WSIS-related activities. All stakeholders benefit from the sharing of interesting case studies, by the undoubtedly facilitation of the transfer of knowledge, experiences, and models for project implementation. The WSIS platform helps to create partnerships, provide greater visibility, and add value to ICT projects all around the world. The many and varied stakeholders who have implemented innovative projects and contributed to the success of the WSIS Stocktaking process deserve our sincere gratitude. ITU announces an official call for updates and new entries and urges these stakeholders, along with all Member States, international organizations, the private sector, and civil society, to continue submitting such contributions in the future as WSIS pursues the ongoing stocktaking process. We trust that readers will find this report insightful, and sincerely hope that it will inspire them to participate in the construction of a broader and more inclusive information society for all.