

Committed to connecting the world

### ITU Regional Office for Asia and the Pacific

Contact e-mail: <a href="mailto:ituasiapacificregion@itu.int">ituasiapacificregion@itu.int</a>

Website: <a href="https://www.itu.int/itu-d/sites/asiapacific">www.itu.int/itu-d/sites/asiapacific</a>





@ITUAsiaPacific (in) ITU Regional Office for Asia and the Pacific



# ITU is the United Nations specialized agency for information and communication technologies (ICTs)



### **Our sectors**

Each sector has a separate mandate, but all work towards connecting the world

### **ITU Radiocommunication**

Coordinating radio-frequency spectrum and assigning orbital slots for satellites

### **ITU Standardization**

Establishing international standards

### **ITU Development**

Bridging the digital divide





ITU Won the 2023 Engineering, Science and Technology Emmy Award for its recommendation on High-Dynamic-Range Television or HDR-TV



### **ITU Development Work**

















Digital services & applications











### Achieving universal and meaningful digital connectivity in the decade of action

### Aspirational targets for 2030

Achieving universal and meaningful digital connectivity -the possibility for everyone to enjoy a safe, satisfying, enriching, productive and affordable online experienceis key for enabling digital transformation and meeting the Sustainable Development Goals.

As part of the implementation of the UN Secretary-General's Roadmap for Digital Cooperation the International Telecommunication Union and the Office of the UN Secretary-General's Envoy on Technology have established a set of aspirational targets for 2030 to help prioritize interventions, monitor progress, evaluate policy effectiveness, and galvanize efforts around achieving universal and meaningful connectivity by the end of the decade.

#### More information: www.itu.int/umc2030

Notes 1 Mobile network of the latest technology is the most ble in the country with at least 40% of the population already vered. | 2 Parity is deemed women using the Internet owning a mobile phone/using mobile phone/with specific digital skills, among the female population is equal to the share of men. 12 Download speed. Mb/s = megabits per second. 4 kb/s = kilobits per second



### Universality targets

of population aged 15+ uses the Internet

of households have Internet access

of businesses use the Internet

100%

of schools are connected to the Internet

of population is covered by a mobile network of the latest technology 1

of population aged 15+ owns a mobile

of population aged 15+ has basic digital >70%

of population aged 15+ has intermediate >50%

Gender is achieved for Internet use, mobile phone parity ownership and use, and digital skills2



### **Technology targets**

of fixed-broadband subscriptions are 10 Mb/s or faster3

20 Mb/s Minimum download speed at every school

Minimum download speed available **50** kb/s per student4

200 GB Minimum data allowance for every school



### Affordability targets

Entry-level broadband subscription costs less than 2% of gross national income per capita

Entry-level broadband subscription costs less than 2% of average income of the bottom 40% of population



#### United Nations Office of the Secretary-General's Envoy on Technology



### **Network and Digital Infrastructure**

Spectrum Management

- NTFA updates
- Spectrum Master plan
- Spectrum capacity building study

Broadcasting

Regional event Future of TV in ASP

**Next Generation Networks** 

- IXP related engagements
- Multiple engagements on 5G related issues e.g. **EMF**

Broadband networks

• ICT connectivity and Policy Gap assessments

Rural-Communications,

- GIGA
- LMC toolkit launch

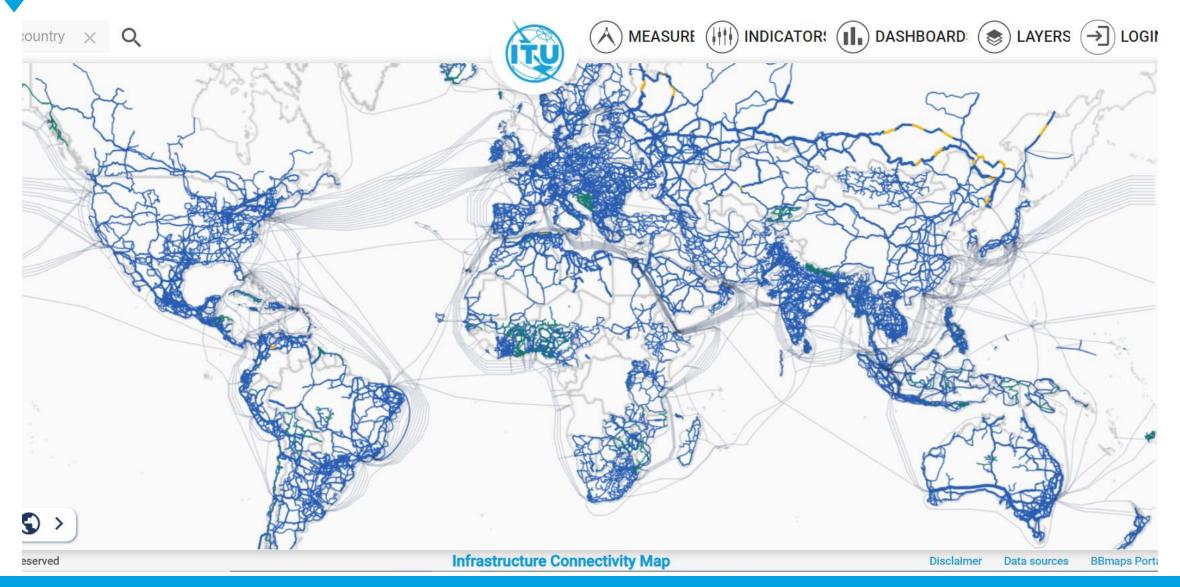
Bridging the Standardization Gap and C&I

CoE events

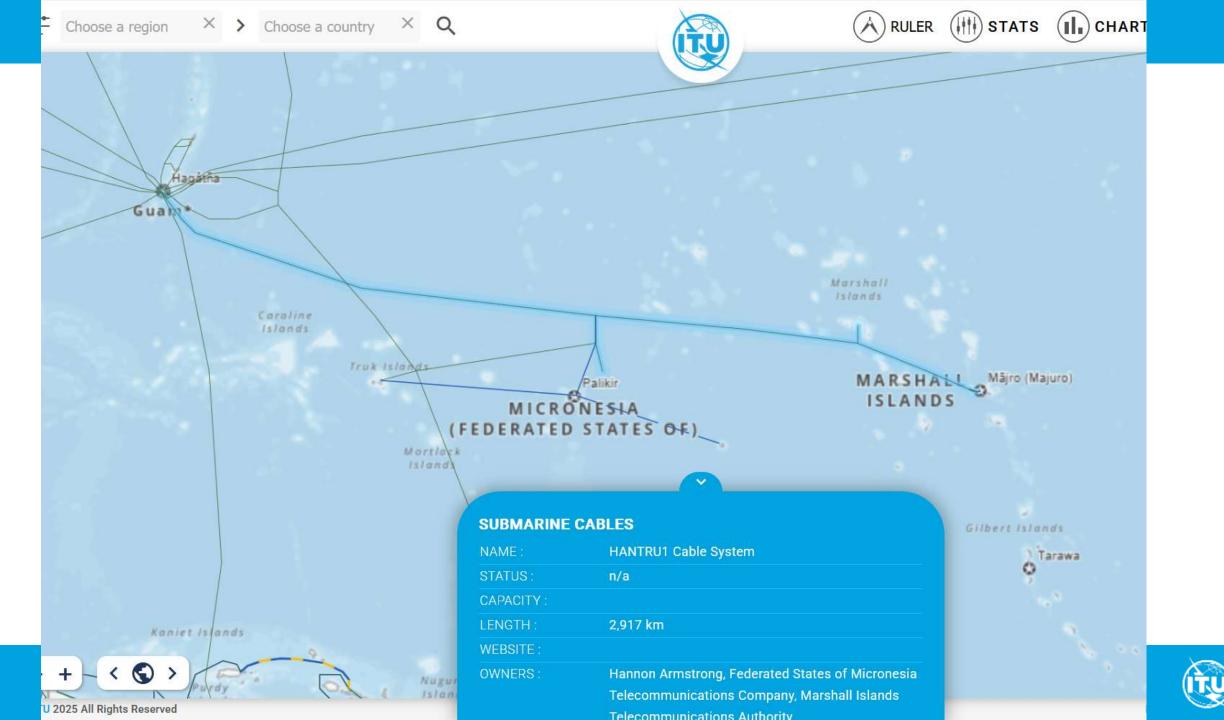
International Connectivity

- ITU BB Maps update
- Study on National mapping system

### **ITU interactive transmission map**









### 4 Pillars of Early Warning Systems



Pillar 1: UNDRR



### Disaster risk knowledge

Systematically collect data and undertake risk assessments

- Are the hazards and the vulnerabilities well known by the communities?
- What are the patterns and trends in these factors?
- Are risk maps and data widely available?

### Pillar 2: WMO



### Detection, observations, monitoring, analysis and forecasting of hazards

Develop hazard monitoring and early warning services

- Are the right parameters being monitored?
- Is there a sound scientific basis for making forecasts?
- Can accurate and timely warnings be generated?



### Preparedness and response capabilities

Build national and community response capabilities

- Are response plans up to date and tested?
- Are local capacities and knowledge made use of?
- Are people prespred and ready to react to warnings?



### Warning dissemination and communication

Communicate risk information and early warnings

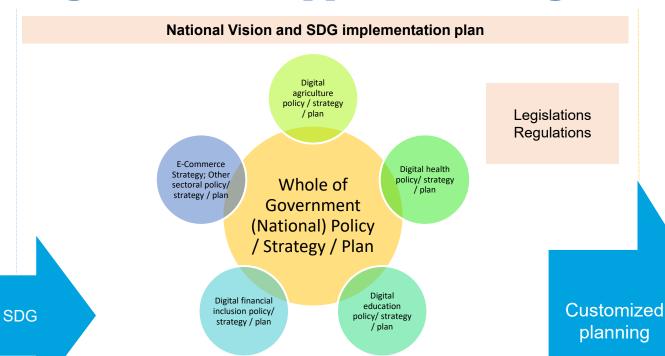
- Do warnings reach all of those at risk?
- Are the risks and warnings understood?
- Is the warning information clear and usable?

Pillar 4: IFRC

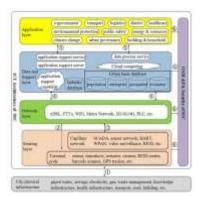
Pillar 3: ITU



### Whole-of-government approach for digital development







Smart village

A possibili model



**Smart Islands** 





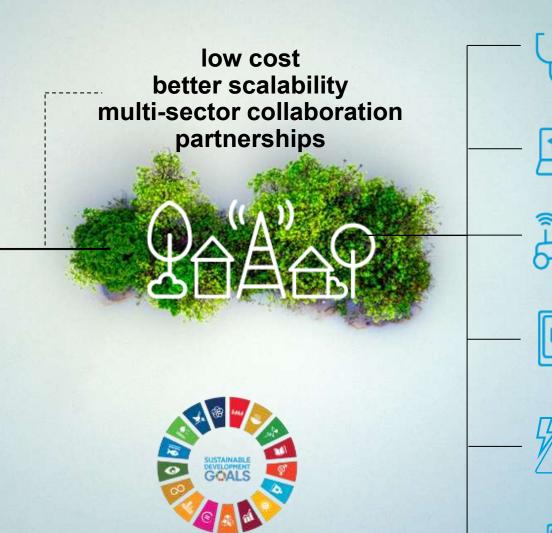
### Concept of Smart Villages and Smart Islands



whole-of-government approach



common ICT building-blocks



e-healthcare

e-education

e-agriculture

e-governance

management

digital finance

disaster

### **Smart Islands in the Pacific – Ongoing projects**

	COUNTRY	Nauru	FSM	RMI	Palau	Tonga	Vanuatu	Samoa	PNG	; Fiji
	Location	Nauru	Tanoas Island	Jabwor– Jaluit,	Babeldaob	Ovaka and Hunga	South Malekula	Manono-Tai	Mapri	k Rotuma
	Government partners	DoC, Nauru	MCIT, Samoa	MOFAT, MOTCIT, RMI	MPII	MEIDECC, Tonga	OGCIO, Vanuatu	MCIT, Samoa	DICT at NICTA PNG	۸,
NEEDS	Improved connectivit y (quality, coverage, resilience)	Programme focused on digital inlcusion center	V	V	V	V	V	V	V	V
	Digital skills		V	V	V	V	V	V	V	V
<b>∠</b>	Digital education		V	V	V	V	V	V	V	V
PRIORITY	Digital finance		V	V	V		V	V		V
	Digital government		V		V	V			V	V
	Digital health		V	V	V	V	V	V	V	V
IDENTIFIED	Digital agriculture		V	V	V	V		V	V	V
◘	Disaster management		V						V	
	Funding sources	Joint SDG Fund	Joint SDG Fund	Joint SDG Fund	Joint SDG Fund	Joint SDG Fund	Joint SDG Fund, Government of Australia (DITRDCA), ITU, UNCDF, ADB	Joint SDG Fund, Gov. of Australia (DITRDCA), Government of Japan (MIC), ITU, FAO	ADB, ITU	Joint SDG Fund, Asian Development Bank (ADB),

### Governments struggle with online provisioning of public services due to several reasons



### **CAPACITY**

Challenges in terms of limited capacity across design, technical, technological, infrastructural and programmatic in nature



### **SILOES**

Siloed systems and duplicative efforts promote fragmented digital governance and resultantly fragmented citizen experience.



### **ARCHITECTURE FOR SCALING**

Challenges exist in adapting and investing in projects at scale, particularly around the rollout of physical ICT infrastructure, the deployment and use of common data platforms



### **COORDINATION AND COLLABORATION**

Problems in coordination commonly occur in aligning ICT ministry work with that of other agencies.



### **FUNDING**

Challenges in procuring and implementing affordable IT solutions persist, as do challenges in creating the necessary capital to invest in ICT infrastructure projects



### **POLICIES**

Limited policies to enable crosssectoral collaboration and sharing of data and infrastructure

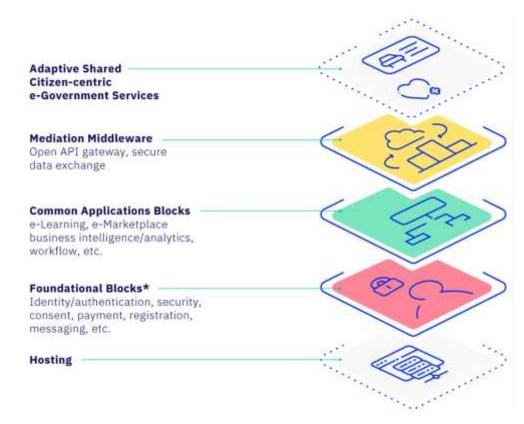
### GovStack

### GovStack's Whole-of-Government approach

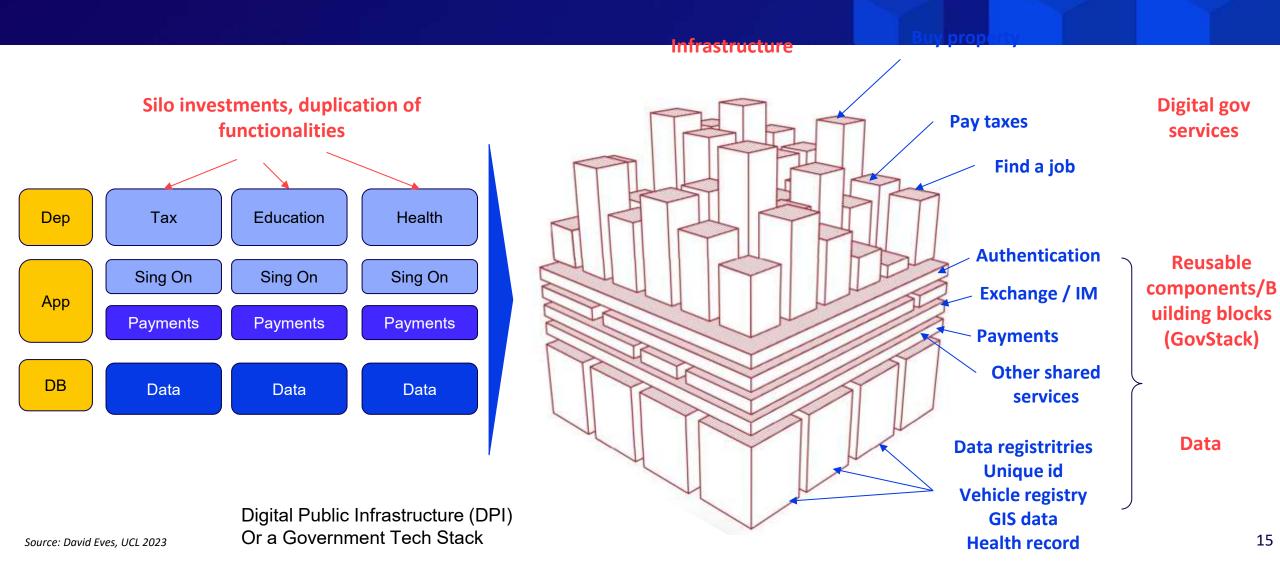
There is growing evidence that a whole-of-government approach to digital infrastructure investment can deliver reusable digital services at scale with a greater return on investment.

Instead of creating unique and disparate solutions, use a common reusable stack of Building Blocks to form the core platform engine and contextualize various e-government services on top.

The approach takes advantage of economies of scale that are not available when taking a piece-meal approach.



### WGA shifts focus of government digital transformation from silo ICT investments to reusable GovStack



### Whole of Government approach helps all stakeholders realize benefits through more responsive, relevant, and citizen centric services





#### **SPEED**

Increases speed of delivery by facilitating reuse of core service elements and redirecting resources towards improving citizen outcomes.



#### **COST-EFFICIENCY**

Provides common capabilities crossdepartments / -agencies which avoids duplication of efforts, reduces cost to develop new e-gov. services.



### **Real Economic Return**

Provides socioeconomic ROI by enabling faster and closer connections from government to addressing needs of citizens and businesses.



### **ONE GOVERNMENT**

Enables service delivery that links and invokes different parts of government, providing a connected, consistent and seamless user experience.



### **AGILITY + RESPONSIVENESS**

Enable governments to design and deliver new services quickly to respond to needs and unexpected circumstances (e.g. global pandemic and disasters).



### **INTEGRATION + EXCHANGE**

Enables integrated transactions and exchange of information across other equivalent stacks and systems through standards and open APIs.



### **HARMONIZED POLICIES**

Opens possibilities for aggregation of big data for richer insights that would help develop better nonconflicting policies and monitor operations.



### MINIMIZED VENDOR LOCK-IN

Minimizes product 'lock-in' and allows independent services to run where modular Building Blocks could be replaced without impacting overall exp.

# Designing e-government services with generic Building Blocks



### What are Building Blocks?

Generically-defined **software components** that in combination provide key functionalities to facilitate generic workflows common across multiple sectors.

### What are their characteristics?

- Reusable software components
- Open-source, commercial off-the-shelf (COTS), or freely available with open access to data
- Facilitate one or more generic op. workflows
- Applicable to use cases across multiple sectors
- Interoperable with other Building Blocks
- Secure by design, standards-based and interoperable

Registration	Q Messaging	Scheduling	Security
\$ Payments	Information Mediator	eMarketplace	<b>⊘</b> GIS
Identification & Authentication	Client Case Management	Collaboration Management	Analytics & Business Intelligence
<b>e</b> Learning	Reporting & Dashboards	Content Management	Data Collection
Shared Data Repositories	Digital Registries	Terminology	Artificial Intelligence
. Consent  Management	Mobility Management	Workflow and Algorithm	

[refer to: Building Blocks section of Govstack.global]

### **E-waste**

# Creating a Circular Economy

E-waste





### What is E-waste

Electronic waste, or e-waste, refers to electrical and electronic equipment (EEE) that is waste, including all components, sub-assemblies and consumables that are part of the equipment at the time the equipment becomes waste

- This includes a broad range of products with circuitry or electrical components with power or battery supply that have been discarded without the intent of reuse
- E-waste, also known as Waste Electrical and Electronic Equipment (WEEE), is one of the fastest-growing waste streams in the world
- A substantial amount of e-waste includes waste derived from discarded ICT equipment such as mobile phones, personal computers, printers, telephones, laptops and routers. At the same time, a growing number of other types of products such as temperature exchange equipment and white goods are functioning as 'smart technologies', relying on sensors and connectivity to other devices

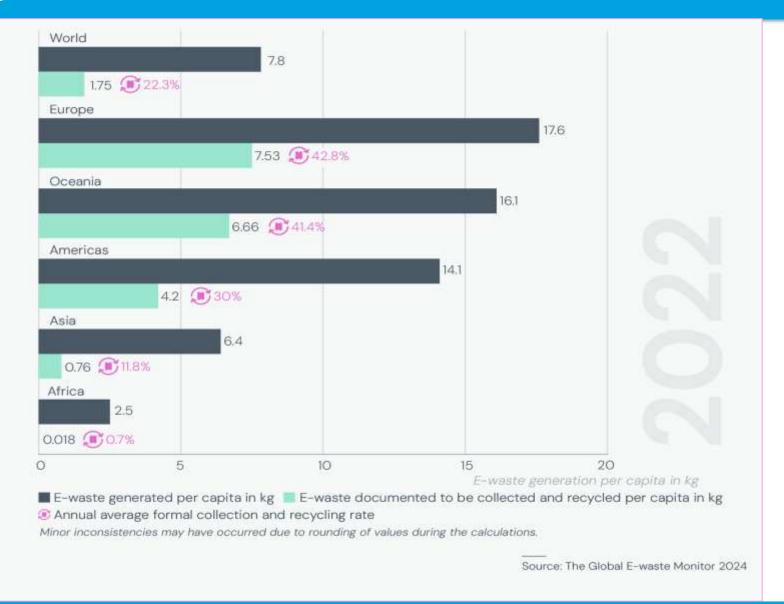




### **Status of E-waste Management**

# E-waste Generated and Documented as Formally Collected and Recycled by Region







### **Capacity Development**







# ITU Capacity Development Partnerships: Closing the Digital Skills Gap

Capacity and Digital Skills Development Division Telecommunication Development Bureau (BDT) International Telecommunication Union

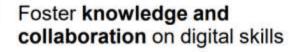


### **Capacity Development Programme**

The ITU-D Capacity Development programme aims at achieving a digitally competent society and improve livelihoods by boosting knowledge and skills on digital technologies. Its efforts are focused in the following areas:

Its efforts are focused in the following areas:









### Develop the capacity of ICT policy-makers and professionals

# Discover the ITUAcademy

ITU's online learning platform offers a diverse range of courses to bolster skills and advance career in the field of ICTs and digital development.



**45'000+** users\* from the entire digital sector:

- Policymakers, regulators, government officials
- ICT professionals
- Professionals from academia and civil society

67% of participants are from developing countries



### Digital Inclusion: Generation Connect Asia and the Pacific



# From Youth Strategy to GC-ASP Action Plan 2022-2025



Vision (Youth Strategy)

Expected Outcome

**Priorities** 

Challenges

Actions taken

- > Engage in the work of ITU-ASP
- > Contribute to the decision-making processes
- Promote ICT youth-related policies within ITU Member States
- > Regular dialogue and consultations
- ➤ Incorporate a youth perspective in the implementation of the ITU strategic plan

- ① Cybersecurity
- ② Digital Services and Applications
- ③ Digital Inclusion
- 4 Capacity Development

### Engagements including:

- ✓ Smart villages and smart islands
- ✓ Girls in ICT Day
- ✓ Child Online Protection
- ✓ E-waste
- ✓ EU-STREIT PNG Programme
- ✓ WTDC, TDAG, Council, PP, GCY, RDF...



### Generation Connect Asia and the Pacific Youth Envoys' Engagements (2021-2023)













**Establishment of GC ASP** 

GC ASP at WTDC &Youth Summit

GC ASP at ITU PP

GC ASP at GICT











GC ASP at TDAG













**GC-ASP:** 

Walk into ICT Industry

Partnership with Huawei: Seeds for the Future 2022-2023



### **Digital inclusion: Gender**





Available now at:

https://www.itu.int/hub/publication/dhdb-gender-2023-01/









### **Network of Women in ITU-D**

Visit the website at itu.int/NOW4WTDC







### **EQUALS Global Partnerships**

Visit the website at equalsintech.org

### **Pacific Girls in ICT Day 2023**

1000+ girls and young women raise awareness and skills

# Sin ICT Sin

http://itu.int/go/ZJVV

### **Pacific Girls in ICT Day 2024**

2200 girls and young women raise awareness and skills



http://itu.int/go/gict-pacific24







# Digital inclusion: Gender Girls in ICT Day 2024: "Leadership"



Girls in ICT Networking event by Forum Global at the 10th Asia-Pacific Spectrum Management Conference, Indonesia 24 April 2024.

 Participants: 30 delegates of the conference including women and young women from Indonesia and Asia-Pacific region.



International Girls in ICT Day

Manila, Philippines, (hybrid mode), 25 April 2024

Participants: approximately 800 girls, boys, and women worldwide.





### Opening ceremony of the Girls in ICT Day Thailand 2024

Bangkok, Thailand, (hybrid mode), 25 April 2024

 Participants: over 650 girls, boys, young women, and teachers from across the country.





### **Pacific Girls in ICT Day**

Port Villa, Vanuatu (hybrid mode), 2 May 2024
• Participants: 150 girls, boys, and women from

Australia, FSM, Kiribati, Papua New Guinea, Samoa, Tonga, Tuvalu, Vanuatu



Girls in ICT Day Samoa Apia, Samoa, 7 May 2024

Participants: 100 girls, boys, and women from across the country





### **Girls in ICT Day India**

New Delhi, India, 15 May 2024

Participants: 1000 girls, boys, and women from across the country

### ITU Girls in ICT portal

### itu.int/GirlsinICT



### Girls in ICT celebrations across the world on 25 April and throughout the year

Asia & Pacific Afghanistan	25/04/2024 Technology for Good Online Innovation Challenge
Asia & Pacific Bangladesh	24/04/2024 Luna Shamsuddoha Girls in ICT Day Celebration
Asia & Pacific Bangladesh	25/04/2024 Nation Wide Coding Camp on "Blockchain, Cyber Security and e-commerce"
Asia & Pacific Bangladesh	28/04/2024 Promoting Digital Skills for Life on Girls in ICT Day*
Asia & Pacific Bhutan	25/04/2024 Girls in ICT
Asia & Pacific Cambodia	20/04/2024 Girls in ICT Day 2024
Asia & Pacific India	25/04/2024 DolTBetter Bootcamp
	International Girls in ICT Day 2024 - Digital Skills for Life International Women Achiever's Award & Indian
Asia & Pacific India	25/04/2024 Women in ICT Awards along with SDG 5 - Gender equality and the empowerment of women and girls to recognize the achievements of women and inspire others to act for gender equality.
Asia & Pacific Republic of)	26/05/2024 Leadership role of girls in IT and ICT
Asia & Pacific Kiribati	02/05/2024 Pacific Girls in ICT 2024
Asia & Pacific Korea (Rep. of)	25/04/2024 E-mentorship for Ethical Leadership development: Decision-making Processes for Sustainable Development Projects.
Asia & Pacific Malaysia	30/03/2024 Axiata Digital Leaders Programme (ADLP) For Girls 2024
Asia & Pacific Malaysia	27/04/2024 CodeMaven 4.0: Girls2Code 2024

17/04/2024 Girl's Leadership even

The designations employed and the presentation of material on this [map/infographic] do not imply the expression of any opinion whatsoever on the part of ITU and of the Secretariat of the ITU concerning the legal status of the country, tetritory, city or area or its authorities, or concerning the delimitation of its frontiers or boundaries.

Once, you have finalized your **Girls in ICT** events, please **submit** and **share** the details on the event portal in the <u>following link</u> or **scan** the QR code at:



https://www.itu.int/women-and-girls/girls-in-ict/international-girls-in-ict-day-2024/girls-in-ict-2024-events-worldwide/

Asia & Pacific Mongolia

### Why does ICT accessibility matter: facts and figures?

### 9.8 billion is the estimated World Population in 2050

- 1.1 billion **people with disabilities** are excluded if the digital environment is not accessible.
- 1.1 billion young people are at risk of losing their hearing because of unsafe listening practices and systems.
- 2.1 billion people over the age of 60 by 2050 face age-related disabilities
- 0.47 billion **Indigenous people**
- 0.77 billion illiterates
- 0.28 billion migrants

4,3 to 5,82 billion people

About half of the world's population will need accessible ICTs in the next 30 years!







### ITU Area Office for South Asia and Innovation Centre



- The ITU Area Office for South Asia and Innovation Centre was inaugurated at the highest levels by ITU's Secretary General and the PM of India on 22nd March 2023.
- It is fully funded and hosted by the Government of India.
- The objectives of the area office are:
  - Promoting the introduction of advanced technologies
  - Contributing to the development of ICT/telecommunication networks and services
  - Providing TA to infrastructure, e-governance, and cross-sectoral ICT applications
  - Assisting with human resources and capacity development
  - Conducting other activities related to ITU's mandate to connect the world





# The Global Technology Acceleration Center will be a critical enabler for countries and will accelerate Digital Development



Mainstreaming emerging technologies and digital innovation in critical aspects of inclusive and sustainable digital transformation regionally and globally to reduce technological inequities

FINANCE

ENTREPRENEURIAL SUPPORT

PUBLIC SECTOR

ACADEMIA

PRIVATE SECTOR

- A global center to reduce technological inequities
- 2. Spotlight the Indian ecosystem
- 3. Support ITU's mission with new capabilities
- 4. Accelerate Digital Development

### ITU's role in providing capacity building and technical assistance







Areas of intervention

Areas of developing impact

**Incident Response** 

**CIRTs** 

CyberDrills

Guides and

Frameworks

NCS Development

Cybersecurity

Strategy

Action Plan Development

Benchmarking

Cybersecurity Inclusion

Child Online Protection

Women in Cyber

Youth for Cyber

**Data and Advocacy** 

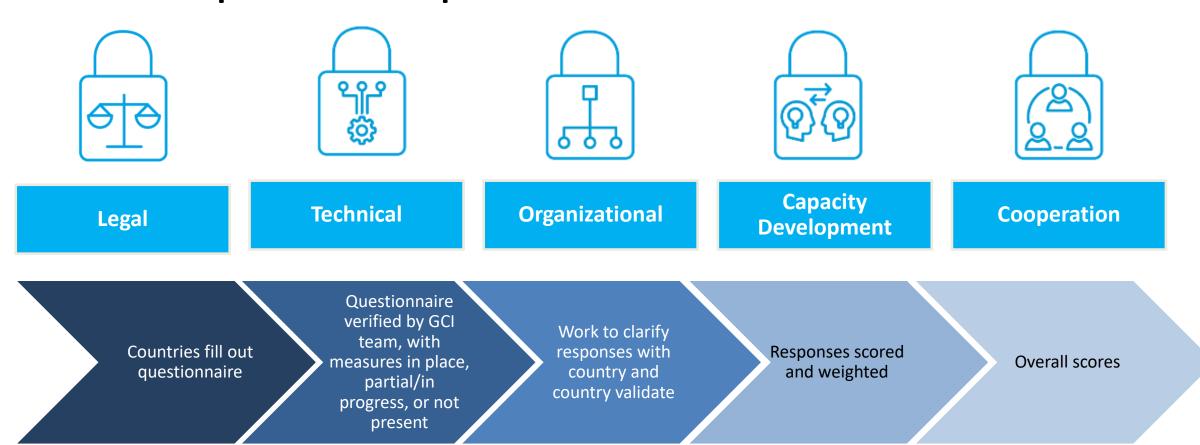
GCI

Global Partnerships

Reports



# Cybersecurity is multifaceted – the GCI measures if countries have 83 measures in place across 5 pillars





### GCI 2024: Asia and the Pacific Tier Performance

E F E N N N S	Suilding  Afghanistan  Dem. People's Rep. of Korea)  Alaldives  Aarshall Islands  Aicronesia  Bolomon Islands  Timor-Leste	T4 Evolving  Cambodia Fiji Lao P.D.R. Nauru Samoa Tonga Tuvalu	T3 Establishing  Bhutan Brunei Darussalam Iran (Islamic Republic of) Kiribati Mongolia Myanmar Nepal (Republic of) New Zealand Papua New Guinea Vanuatu	T2 Advancing  China Philippines Sri Lanka	T1 Role-Modelling  Australia Bangladesh India Indonesia Japan Malaysia Pakistan The Philippines Singapore Thailand Viet Nam
51		3 3 7	8		
Number of countries		9	10 4		20
En 2	-1		10	4 3	8
(	T5 - Building	16 T4 - Evolving	15  T3 - Establishing	4 4 T2 - Advancing	<b>2</b> <b>5</b> T1 - Role-modelling



### ITU's Child Online Protection Initiative



In 2020, ITU has released a new set of COP Guidelines: updated, re-thought and re-written by an expert multistakeholder working group.

### The new Guidelines include:

- The special situation of children with disabilities
- Issues around new technological developments

### 4 sets of guidelines for

- Policy-makers
- Industry
- Parents and educators
- Children

www.itu-cop-guidelines.com



### **Child Online Protection for Asia and the Pacific**

COP ASP website

### 2023-2024 COP Movements



- Translated versions of the ITU COP Guidelines (Bahasa Indonesian, Mongolian and Thai). Bhutan localized version of the ITU COP Guidelines.
- 3 **UN2UN Agreements** on COP with UNICEF Thailand, Bhutan and Mongolia deployed COP in the countries.
- Organized a series of national COP conferences, focus group discussions, workshops and trainings.
- 4 COP National Assessment Reports with policy recommendations for Bhutan, Mongolia, Pakistan and Thailand. Support the development of the presidential COP Roadmap in Indonesia.

Bhutan, Thailand, Mongolia, Indonesia,
Pakistan, Cambodia, Timor-Leste
Ongoing: India, Nepal



**COP ASP Regional Concluding Workshop 2023** 

- Strengthened capability of stakeholders in building safety and security for protecting children online.
- Increased awareness at regional and national level on the importance of child online protection in the digital economy.
- Improved engagement of stakeholders and cooperation amongst the government and academia, international organizations, industry and media, civil society, and parents and educators

**ASEAN Regional Conference on COP** 

### **Statistics: Resources**



ICT Development Index:

d/reports/statistics/idi2024/

https://www.itu.int/itu-



https://www.itu.int/itud/reports/statistics/factsfigures-2023/

# DetaHub Since regions: Sedemonate States, and States Stat

Dashboard for
Universal and
Meaningful
Connectivity (UMC):
Tracking progress
towards the UMC targets
<a href="https://www.itu.int/umcda">https://www.itu.int/umcda</a>
shboard



# The world's richest source of ICT statistics and regulatory information

Track the digital transformation with the ITU DataHub, featuring hundreds of ICT indicators on connectivity, markets, affordability, trust governance, and sustainability. Find, compare, and download data for nearly 200 economies.

DataHub

Select an indicator or dashboard

https://datahub.itu.int/

Data explorer Indicator catalogue Data guery About Login

Select a comparison



### Facts and Figures SIDS:

https://www.itu.int/itud/reports/statistics/factsfigures-for-sids/



Select an economy

### **Facts and Figures LLDCs:**

https://www.itu.int/itud/reports/statistics/factsfigures-for-lldc/

### **World Telecommunication Development Conference**



### **Next WTDC:**

17-28 November 2025, in Azerbaijan

Leading quadrennial policy conference to shape the future of digital development.

Setting strategies & objectives.

Developing innovative models of collaboration.





### Thank You





ITU Regional Office for Asia and

the Pacific:

ituasiapacificregion@itu.int



X URL:

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