

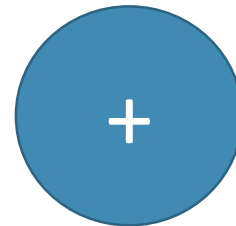
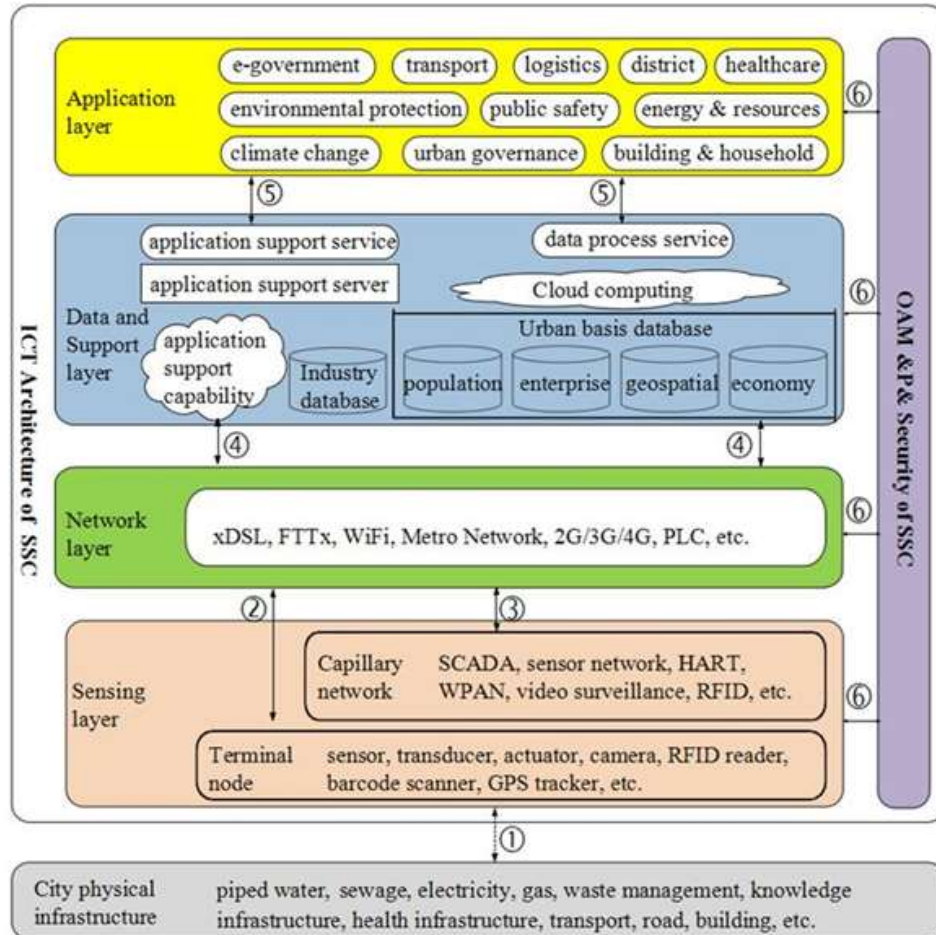


ITU-APT-PITA Sub-regional Workshop on Enabling policies and regulations for Catalyzing e-application in the Pacific

30 Nov 2018, Apia, Samoa



We are sitting on an opportunity curve in this digital society.....



Enabling Environment, Digital Inclusion

Skills and capacity Building

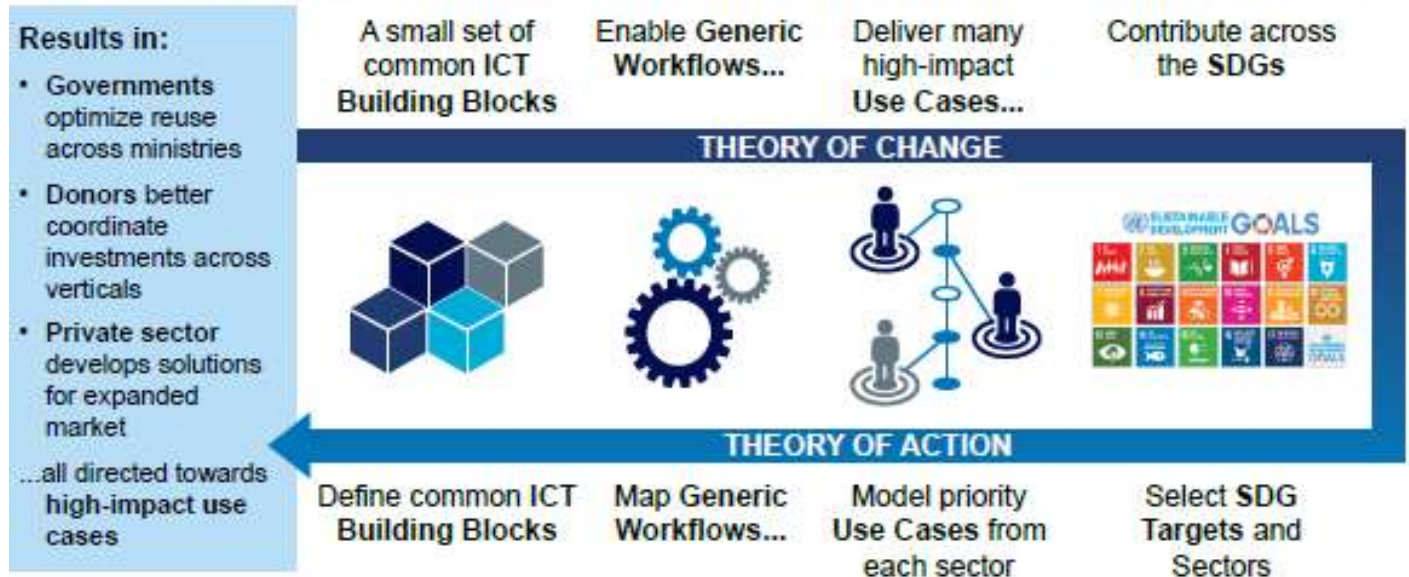
Innovation



Digital transformation in the Pacific



SDG Digital Investment Framework Theory of Change



.. the journey has begun



Catalyzing e-applications in the Pacific – Next Step

Policies, regulations, legislations, strategies

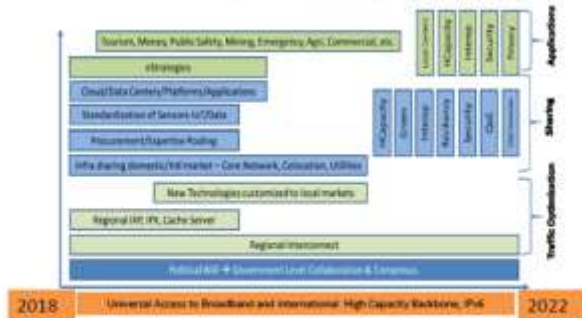
Network planning, traffic engineering

Commercial agreements

International cooperation

Capacity building

Data protection, security



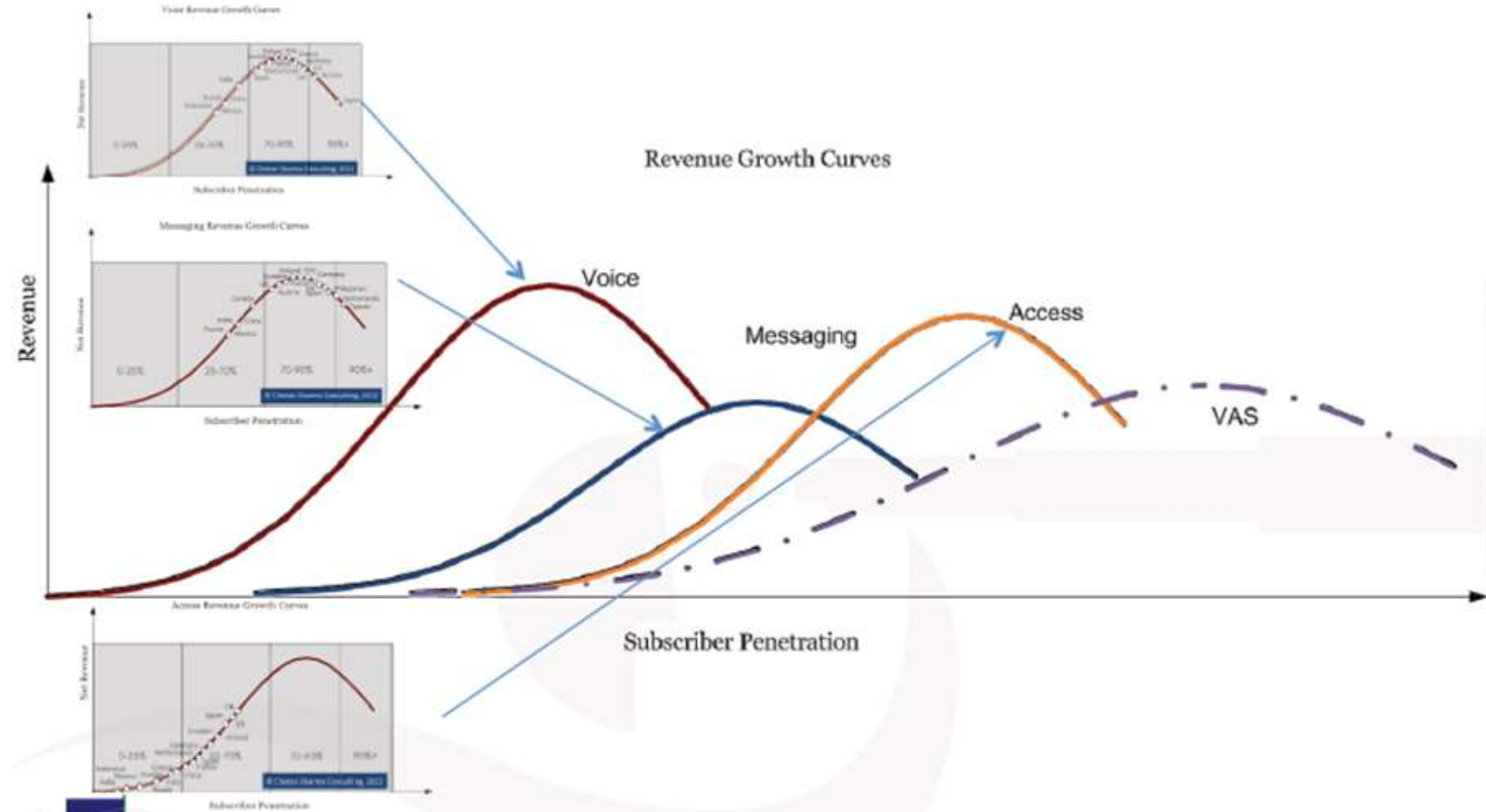
Source: Implementing e-application strategy for telecom sector in the Pacific, 23-24 November 2017 at Nadi, Fiji.



The 4th Wave: We are about to enter the golden age of mobile



4th Wave



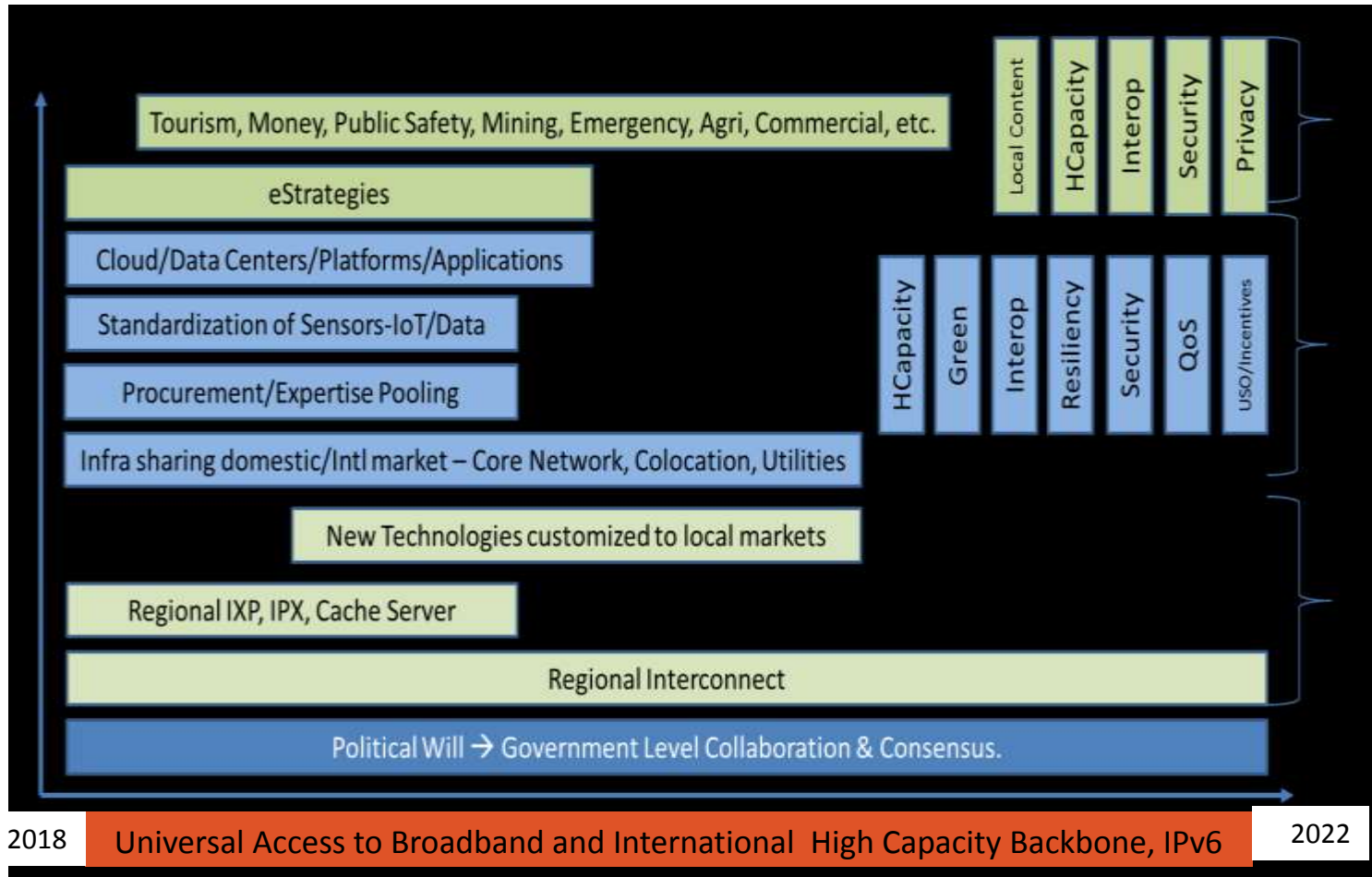
© Chetan Sharma Consulting, 2012

Source: Operator's Dilemma (Opportunity): The Fourth Wave





Improved international connectivity will improve network performance and help e-applications scale out in the Pacific



Fostering applications ecosystem

Promoting sharing of resources

Optimizing regional traffic

Universal access to broadband and international high capacity backbone

Collaborative G5 Regulation

Source: ITU Asia-Pacific CoE training workshop on "Implementing E-application strategies for telecom sector growth in the Pacific", revised in 2017 jointly organized with PITA with support from DoCA (Australia) and DoC (Fiji) under COE MDES (Thailand)



Catalyzing e-applications in the Pacific – Next Step



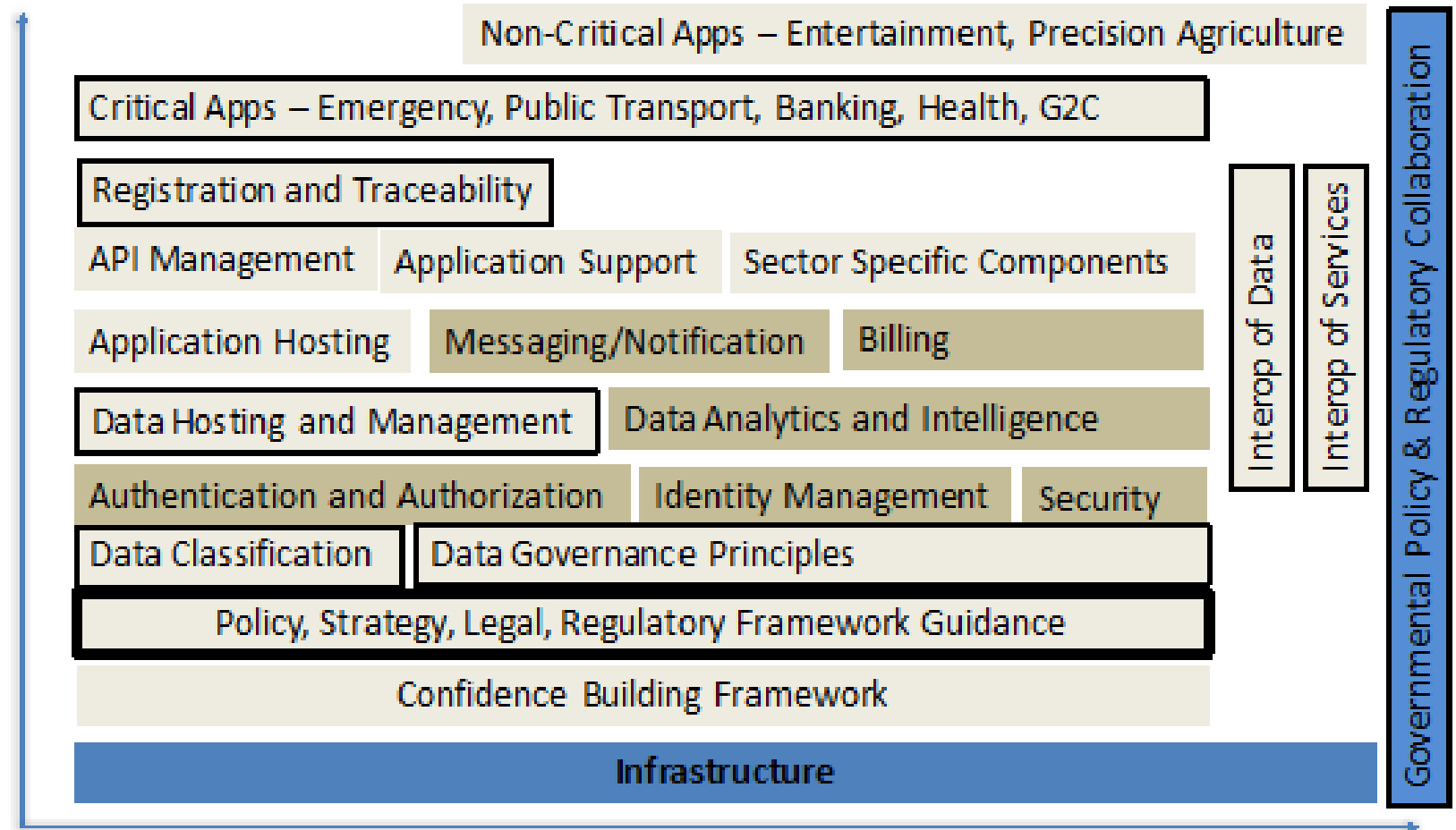
The basic thesis of the framework is that to scale applications and services in the Pacific, there is a need for countries to share applications across the countries.

With inter islands connectivity and its affordability improving with the advent of submarine cables, the framework can now be realized.

- **Pure commercial services**
- **Commercial services requiring access to public data:**
- **Public services delivery using non-resident applications and platforms**



Catalyzing e-applications in the Pacific – Next Step

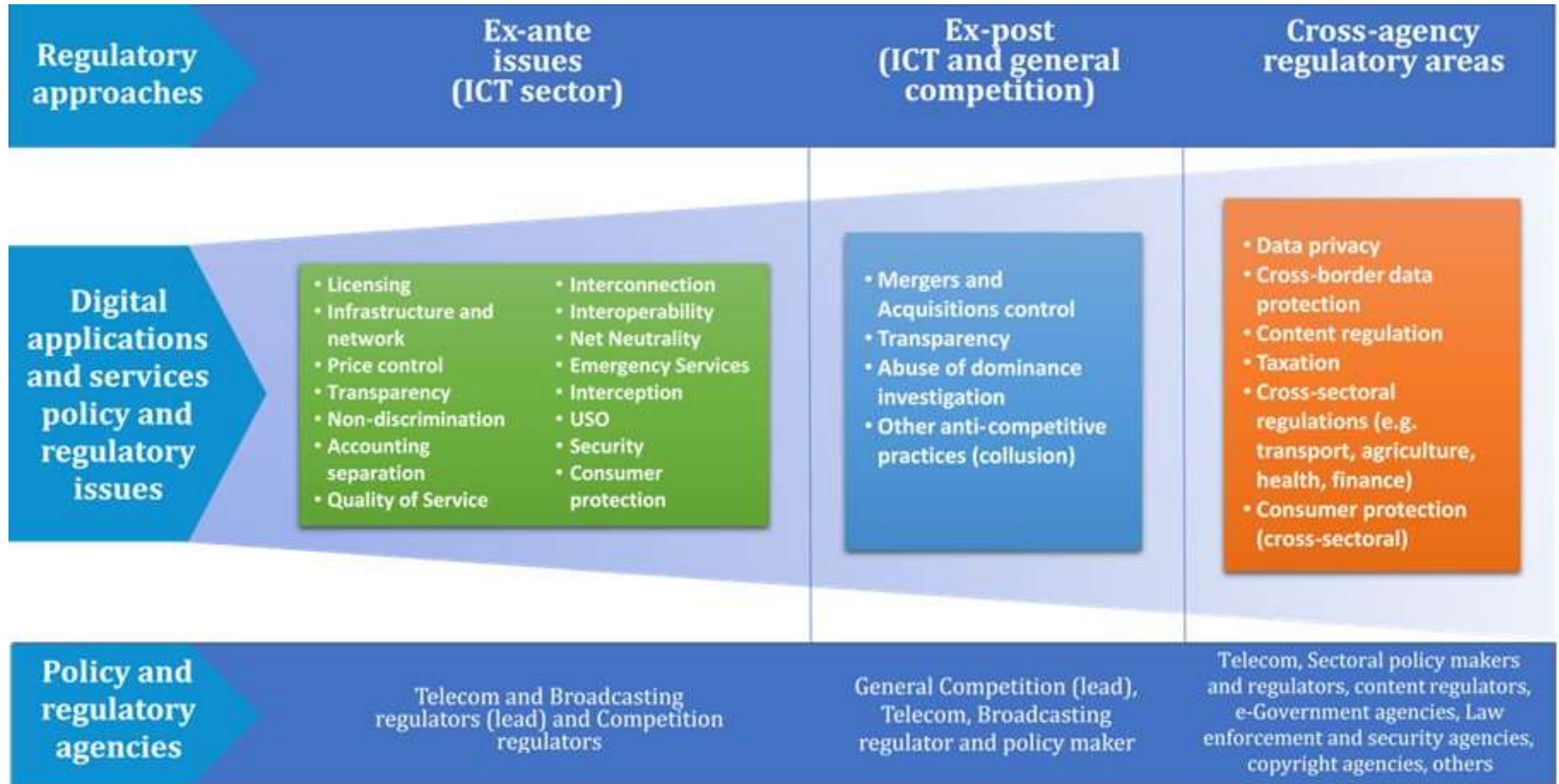


Operator Roadmap Cross-Operator Collaboration Required
 Govt Roadmap Requires Regional Collaboration

Source: ITU Asia-Pacific CoE training workshop on "Implementing E-application strategies for telecom sector growth in the Pacific", revised in 2017 jointly organized with PITA with support from DoCA (Australia) and DoC (Fiji) under COE MDES (Thailand)



Policy and regulatory issues in digital applications (sample)





*enabling environment for digital
transformation journey in the Pacific*



ITU-WHO : ICTs for better health outcomes : e Health (SDG 3)





ITU-ILO : Digital Skills for Decent Jobs for Youth Campaign to train 5 million youth with job-ready digital skills

Digital Skills Toolkit



ILO and ITU are leading the Digital Skills for Decent Jobs Campaign as part of the Global Initiative on Decent Jobs for Youth in order to foster decent and inclusive employment and entrepreneurship opportunities in line with the Sustainable Development Goals.

Advanced digital skills: related to technology development such as coding, software and app development, network management, machine learning, big data analysis, IoT, cybersecurity or blockchain technology;

Basic digital skills: related to the effective use of technology, necessary in most professions. They include web research, online communication, use of professional online platforms and digital financial services;

Soft skills: skills necessary to all professionals to ensure collaborative and effective work in the digital economy. They include leadership, communication and teamwork skills, client-orientation, among others.

Digital entrepreneurship: digital skills required by entrepreneurs, including online market research, strategic planning and business analysis, using financing and crowdfunding platforms, online marketing, and online networking and establishing mentoring relationships



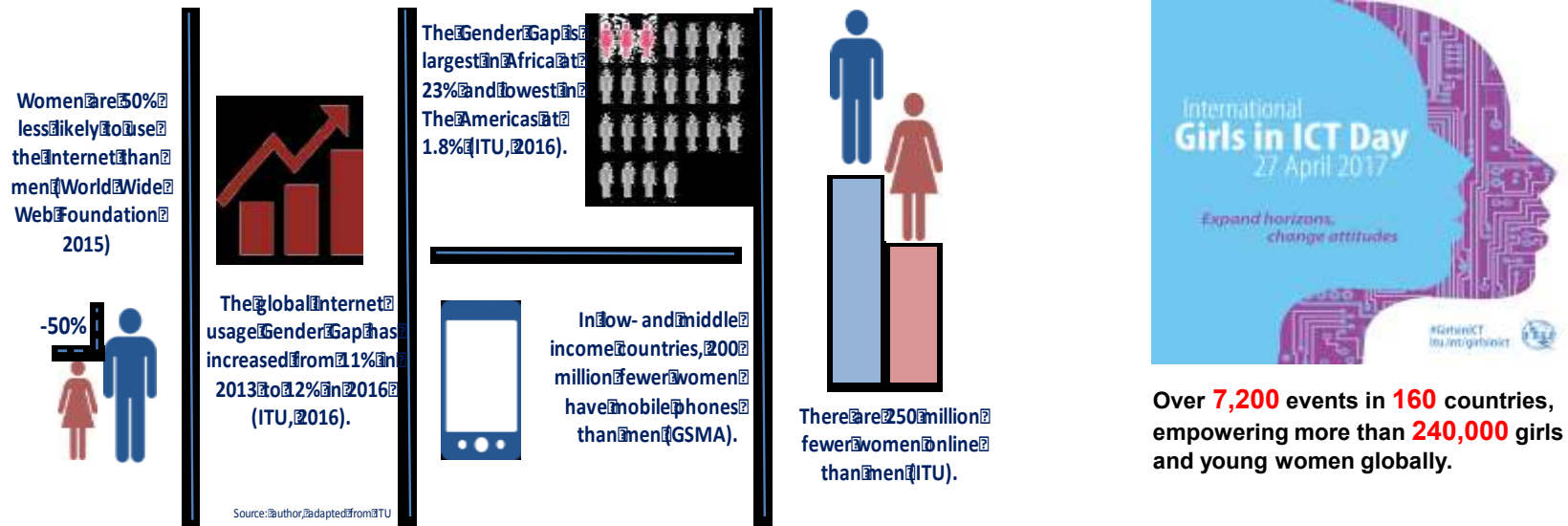
Ministers of ICT, Labour and Education, national governments, the private sector, training providers, Academia, NGOs, other members of the UN family as well as other interested parties are actively encouraged to participate



SDG5 Gender Equality



- Gender gap in mobile phone ownership and use is higher in lower-income and less connected countries



Source: Discussion paper for Davos, Connecting the Unconnected – Working together to achieve Connect 2020 Agenda Targets ITU data



MDES (Thailand) and ITU in partnership with FAO and CISCO trained more than 200 girls in Thailand on digital skills



International
Girls in ICT Day
Expand horizons,
change attitudes

Training on
"Agritech using ICTs"

26 April 2018
UNESCO Building,
Bangkok, Thailand



#GirlsinICT
itu.int/Girlsinict

Launched by ITU and MDES
(Thailand) in 2017 with partners
(FAO, CISCO, Microsoft)

Key objective: Enhance
employment opportunities for
girls and young women in
Thailand by imparting
employable digital skills
relevant for the local job market

2018

International
Girls in ICT Day
Expand horizons,
change attitudes



Training on
"Agritech using ICTs"

9-10 July 2018
@FAO, Bangkok, Thailand



#GirlsinICT
itu.int/Girlsinict



2017 – 2018 (Aug)

- Around 300 girls trained
- 6 trainings held
- Next training planned in 2018
- More partners have joined



ITU-UN WOMEN : Global Partnership for Gender Equality in the Digital Age

- The Global Partnership for Gender Equality in the Digital Age (the Partnership) is a multi-stakeholder initiative implemented by ITU and UN Women to promote awareness; build political commitment, leveraging knowledge, efforts, and resources for the greatest possible impact to achieve digital gender equality at both the global and national levels. It aims at creating an unstoppable global movement where women and girls are equal participants in the technology revolution.
- Through gathering of data, sharing of knowledge, and direct action, the Partnership will focus on addressing Sustainable Development Goal 5b, "Enhance the use of enabling technology, in particular information and communications technology (ICTs), to promote the empowerment of women" through three areas of action:
 - ACCESS – Achieve equal access to digital technologies;
 - SKILLS – Empower women and girls with skills to become ICT creators;
 - LEADERS – Promote women as ICT leaders and entrepreneurs.

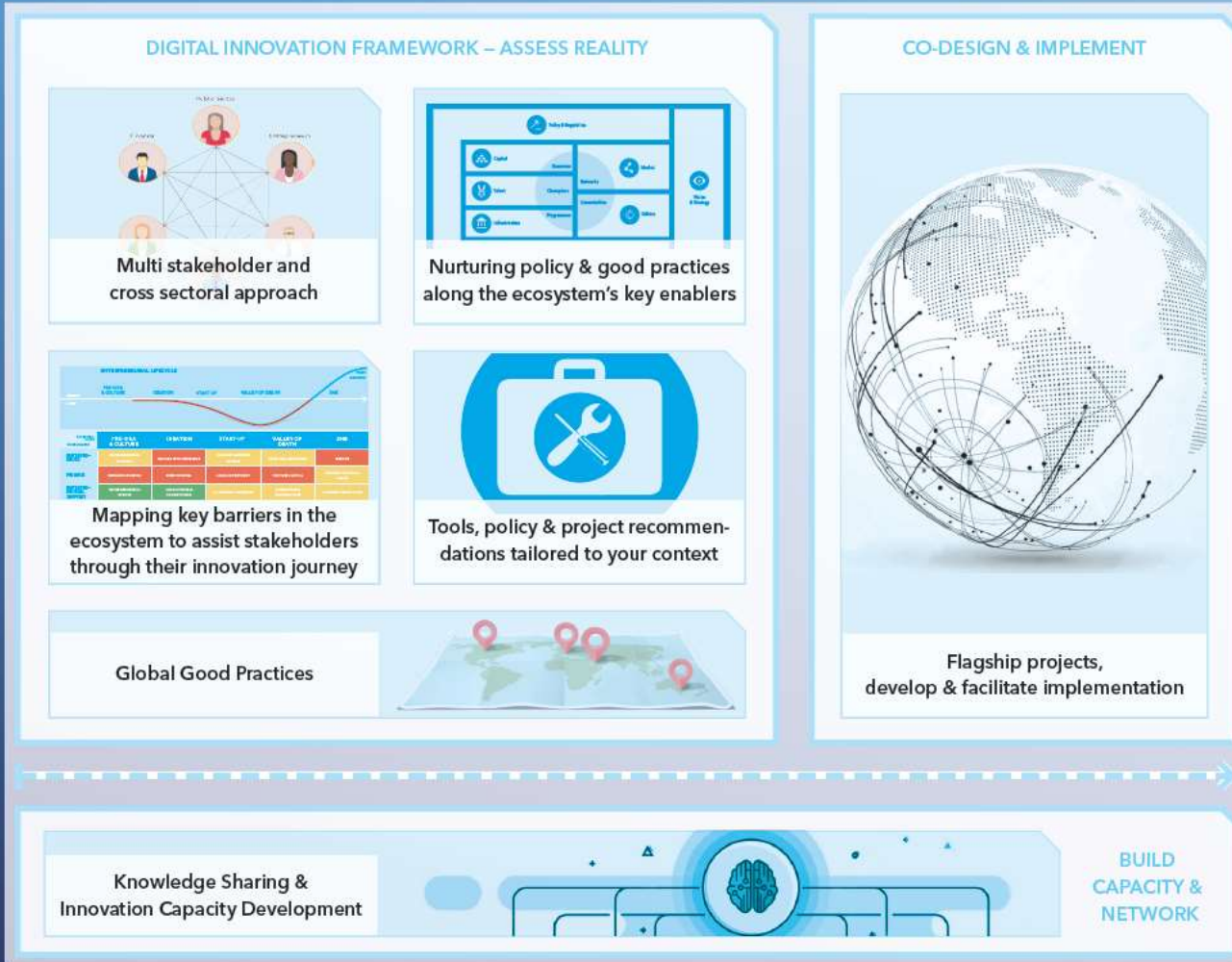


In the perspective of the promotion of The Global Partnership for Gender Equality in the Digital Age, ITU and UN Women launched in September 2016 the EQUALS campaign to promote together Gender Equality in the Digital Age. This campaign works closely to the achievement of Goal 5 of the Sustainable Development Agenda, 'Achieve gender equality and empower all women and girls'.





DIGITAL INNOVATION FRAMEWORK AND COMPREHENSIVE APPROACH OF THE ITU INNOVATION PLATFORM



'HOW DO WE GET STARTED, AND HOW DO WE KNOW WE ARE HEADING IN THE RIGHT DIRECTION?'

These are the questions ITU Members often ask as they embark on a programme to transform their ICT infrastructure into the innovative powerhouse it could be and indeed should be – one that will drive outstanding economic growth and place them squarely at the centre of the 21st century digital opportunity. While the questions can appear daunting, there is a solution – and a step-by-step process that leads the way.

ITU Innovation Platform

Through its range of powerful products, services and tools that make up the ITU Innovation Platform, ITU supports its members in fostering vibrant innovation ecosystems and in accelerating digital transformation for sustainable growth in the digital economy. The goal is to place ICT innovation front and centre in a country's national development planning.

The ITU Innovation Platform offers four powerful elements:

- **Digital Innovation Framework:** a scalable approach mapping enablers and blockers in potentially vibrant ICT centric ecosystems and assessing a country's capabilities in progressing towards an accelerated digital transformation.
- **Country assessments:** powerful and high-value analyses of a country's digital ecosystems and its potential for digital transformation – such as country reviews, digital innovation profiles, and more.
- **Co-development of country level bankable projects.**
- **Knowledge sharing and capacity building:** including dialogues on innovation at regional and global level – and scaling of work through national and regional capacity building.

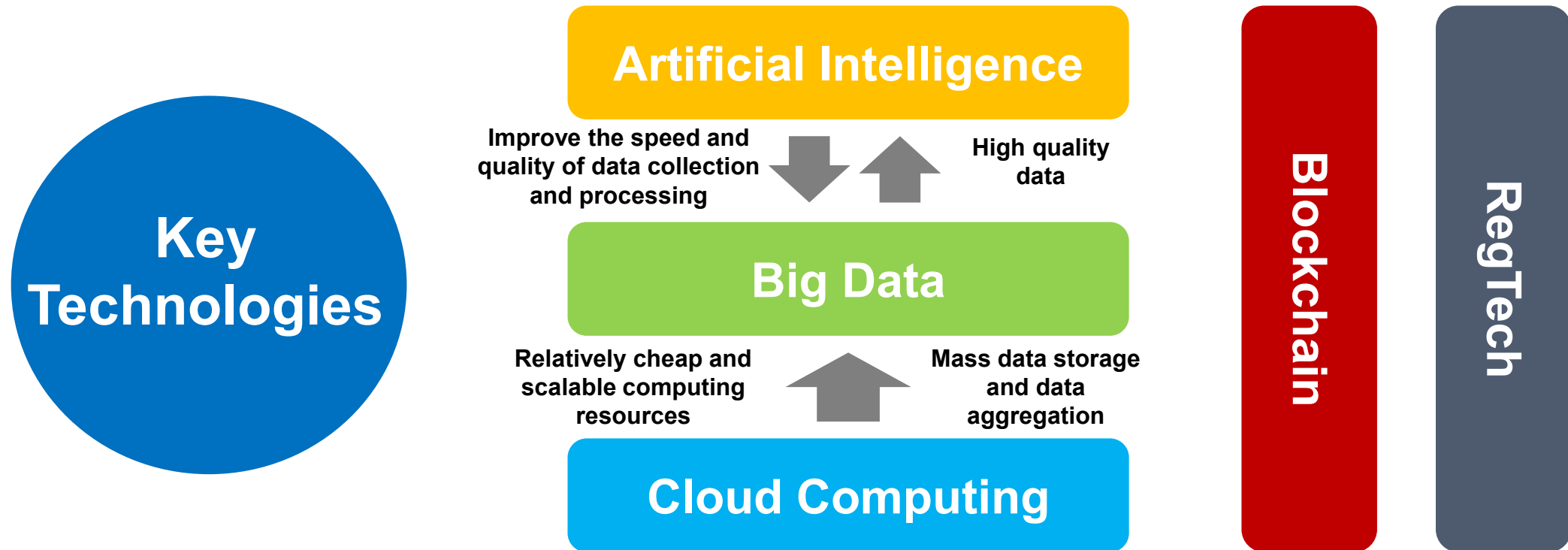
For more information about our services, activities and technical assistance visit us at innovation.itu.int or contact us via innovation@itu.int

ITU INNOVATION



Cloud computing, Big data, AI and Blockchain are the key technologies of FinTech

The development and application of emerging technologies such as cloud computing, big data, artificial intelligence, and blockchain have had a major impact on the business service model of financial institutions. They have gradually become the key technology driver for the development of the financial industry.



Source: Dr. Han Han, Senior Engineer, China Academy of ICT

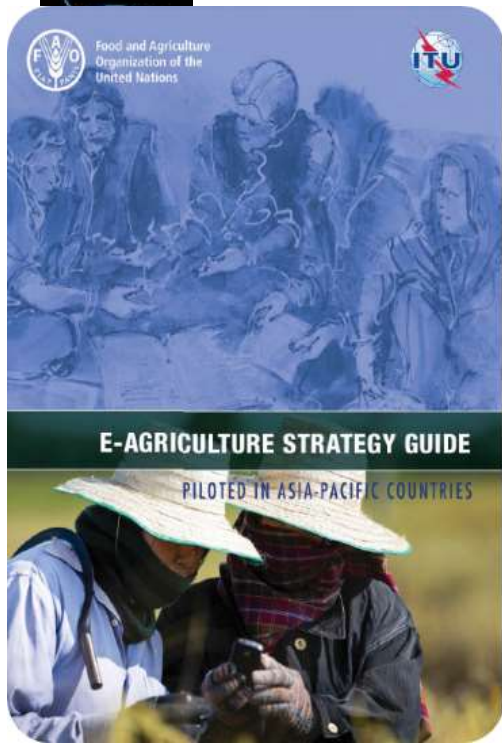


Soft- Infrastructure
ICT for Better Health Outcomes



ITU-WHO Partnership

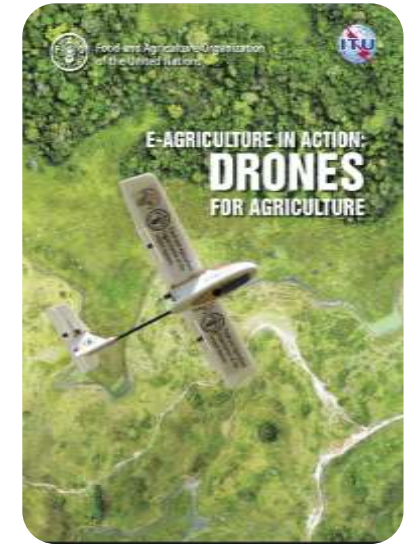
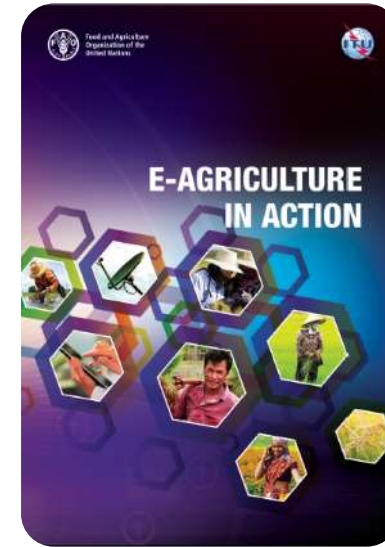
e.g. in ASP Philippines, India



Country Assistances

Afghanistan
Bhutan
Fiji
Papua New Guinea
Philippines
Sri Lanka

Case studies



Coming up: Special edition on Blockchain

Strategy Guide

Solutions Forum



Food and Agriculture Organization of the United Nations



E-agriculture – Asia-Pacific

United 4 Smart Sustainable Cities (U4SSC)



U4SSC is a United Nations Initiative coordinated by ITU and UNECE that advocates for public policy to encourage the use of ICTs to facilitate and ease the transition to smart sustainable cities.

U4SSC was launched by ITU and UNECE to respond to the Sustainable Development Goal 11: "Make cities and human settlements inclusive, safe, resilient and sustainable"

Supported by:





Digital Financial Services – Asia-Pacific

ITU activities global (examples)

Mongolia (2017)

Digital Financial Services (DFS) and Digital Financial Inclusion (DFI) Ecosystem in Mongolia: A study with focus on cross-sectoral policy and regulatory collaboration



China (2018-2020)

Cooperation with World Bank as well as Bill & Melinda Gates Foundation as part of FIGI project

India (2018)

Capacity building on Understanding Digital Payments

Thailand (2018)

Regional training on Distributed Ledger Technologies

Ongoing discussions during various regional forums, e.g. ITU Regional Development Forum 2018 (Bangkok)- Thank UNCDF to share experience in 2018

[Best Practice Guidelines on Collaborative Regulation for Digital Financial Inclusion \(2016\)](#)

[Focus Group Digital Financial Services \(FG DFS\) \(2014-2016\)](#)

[Focus Group on Digital Currency including Digital Fiat Currency \(FG DFC\)](#)

[Focus Group on Application of Distributed Ledger Technology \(FG DLT\)](#)

[FIGI Project \(ITU, World Bank, Bill & Melinda Gates Foundation\)](#)

U4SSC publications



Available for free on the U4SSC website:

<http://itu.int/go/U4SSC>

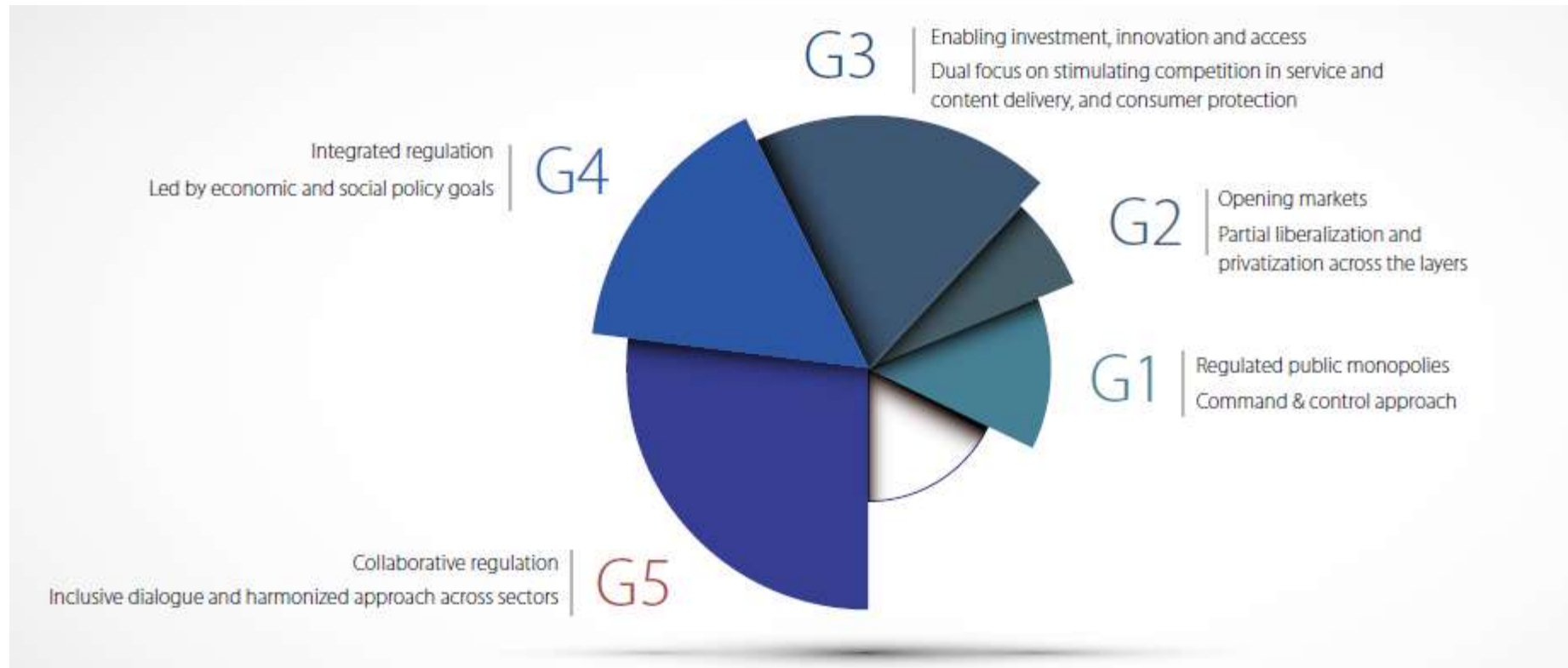
Implementing Key performance indicators for Smart Sustainable Cities Worldwide



The U4SSC welcome all cities that would like to start their SSC journey!

For more information contact: u4ssc@itu.int

Evolution of ICT Regulation



GLOBAL ICT REGULATORY
OUTLOOK
2017