ICT for Innovation and Entrepreneurship

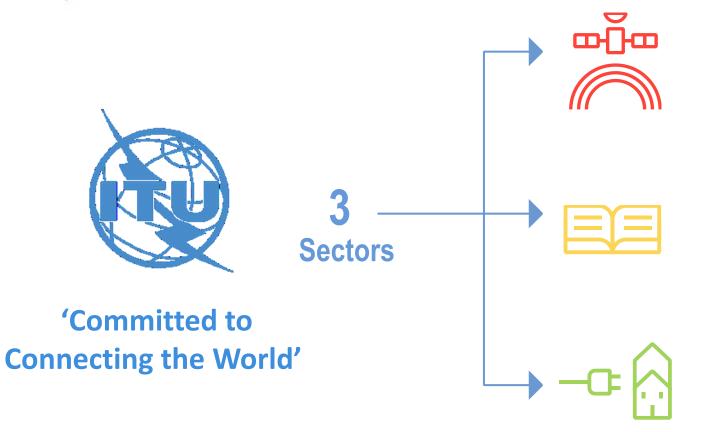
> 12 September 2017 Colombo, Sri Lanka

Sameer Sharma, Senior Advisor ITU

### ITU at a glance

### **03** | *Meet us*

### What we do



### ITU Radiocommunication Coordinating radio-frequency spectrum and assigning orbital

### slots for satellites

### **ITU Standardization**

Establishing global standards

### ITU Development

Bridging the digital divide



ITU at a glance

### **01** | About us

Who are we?

**Our members** 







### **ICTs and the SDGs**

"The spread of information and communication technology and global interconnectedness has great potential to accelerate human progress, to bridge the digital divide and to develop knowledge societies, as does scientific and technological innovation across areas as diverse as medicine and energy". **Agenda for Sustainable Development (Paragraph 15)** 





fast forward together #ICT4SDG

ICTs are catalytic drivers to enable the achievement of all the SDGs

Specifically referenced in the SDG targets:

- SDG4 Quality Education (4b)
- SDG5 Gender Equality (5b)
- SDG9 Industry, innovation and Infrastructure (9c)
- SDG 17 Partnerships for the Goals (17.8, as a means of implementation)
  CELEBRATING







**Evolution of ICT Regulation** 



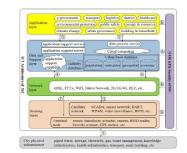


Smart Sustainable City Digital Society



#### **National Broadband Plans**

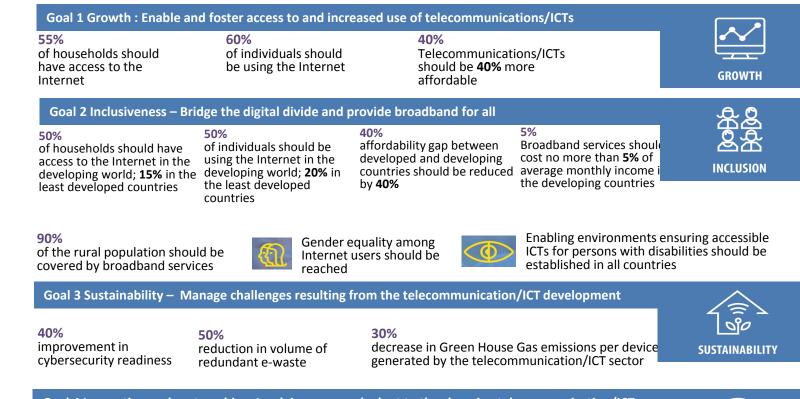






IMT 2020

#### **20** IOT BIG DATA ANALYTICS AI SECURITY



Goal 4 Innovation and partnership – Lead, improve and adapt to the changing telecommunication/ICT environment

Telecommunication/ICT environment conducive to innovation

Effective partnerships of stakeholders in telecommunication/ICT environment



INNOVATION

### **Global ICT Developments Worldwide**

Note: \*Estimates.

Source: ITU.



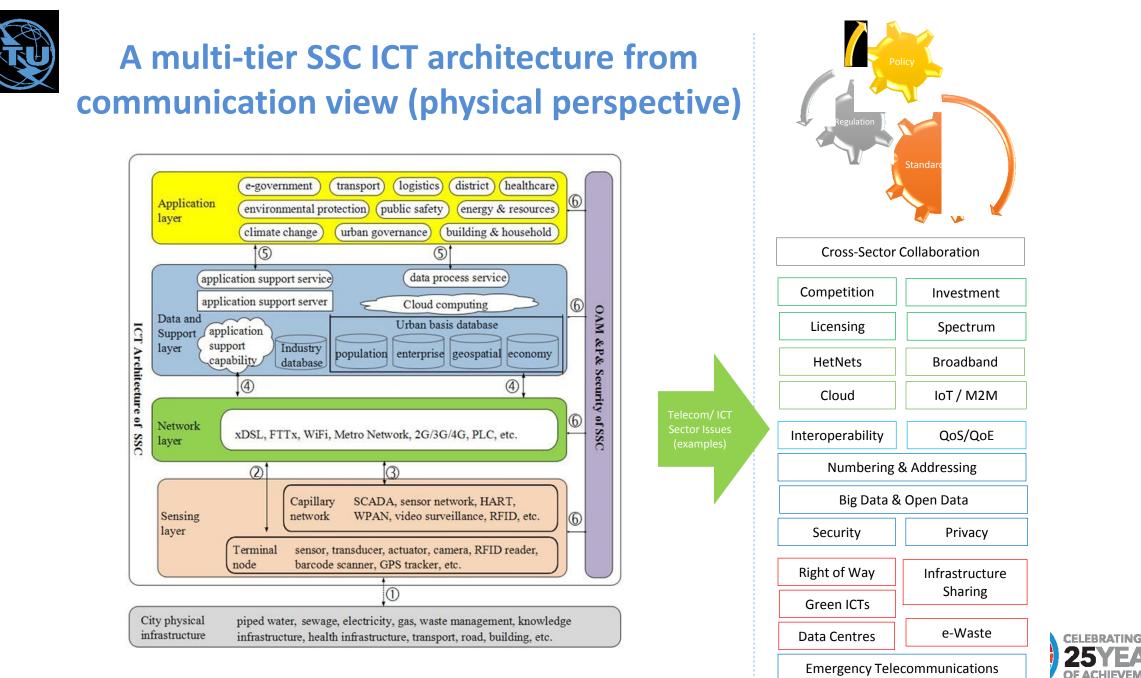


Figure source: ITU-T Focus Group on Smart Sustainable Cities: Overview of smart sustainable cities infrastructure

# **Definitions of Innovation**

- Innovation is the implementation of a new or significantly improved product (good or service), or process, a new marketing method, or a new organizational method in business practices, workplace organization or external relations" –OECD
- Innovation can be new to the world or new to the context
- "ICT affects business model, mindsets, organizational structures, R&D, markets, networks

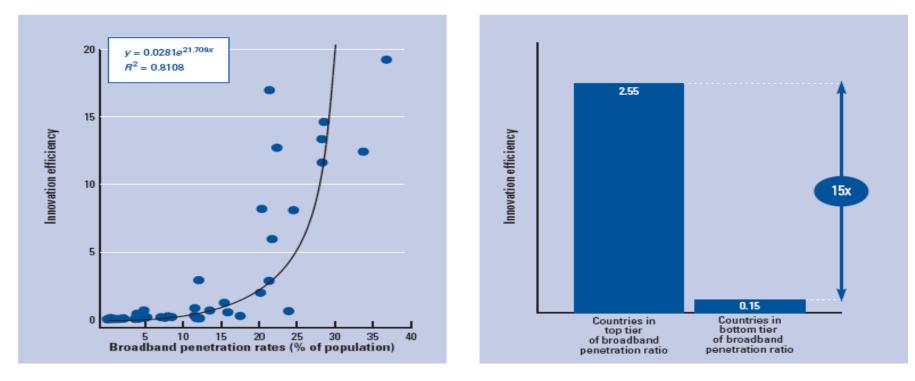




## Impact of Broadband on Innovation

Innovation efficiency vs. broadband penetration

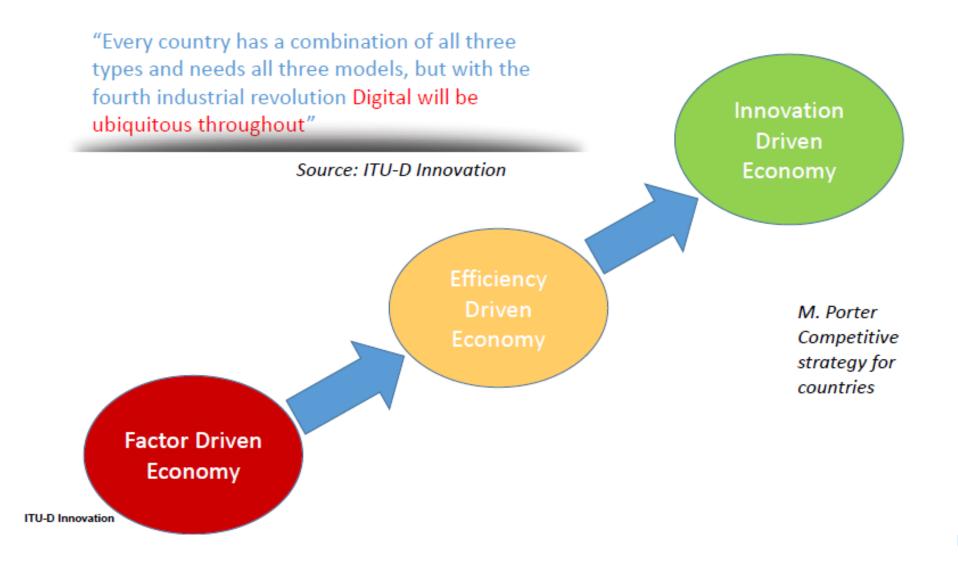
Innovation efficiency vs. broadband penetration ratio



Broadband facilitates innovation and entrepreneurship Countries with a higher penetration see greater innovation Broadband stokes innovation and it does so exponentially



## **Innovation Driven Economy**







## **Economies Don't Move Together**

**High digitization** 

### Low digitization

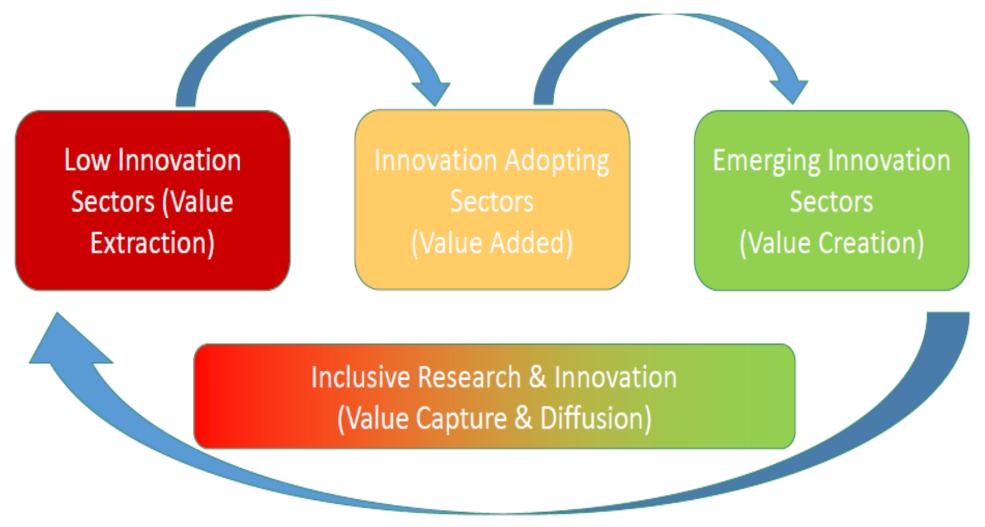
Digitization

Distinction





## **Accelerating Inclusiveness Between Sectors**



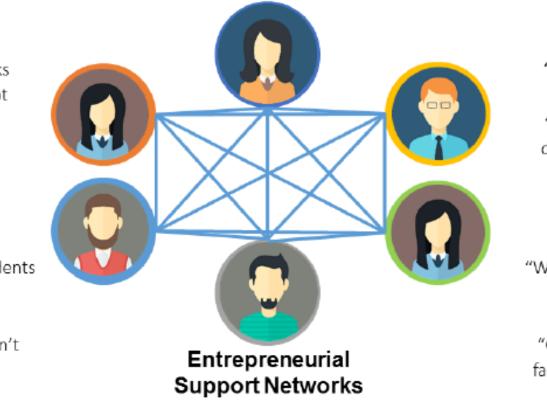




## **Stakeholder Ecosystem**

#### Public Sector

"We need to promote job creation & innovate our Government services!"



"These entrepreneurs are not business thinkers!"

"We need global ecosystem linkages!"

#### **Private Sector**

"We need support to scale and go global." "We need new ideas, demand, and growth"

#### Finance

"We need to find the next Google!"

"Government needs to facilitate an institutional framework



#### Entrepreneurs

"We need room to take risks + Our government does not listen to us"

#### Academia

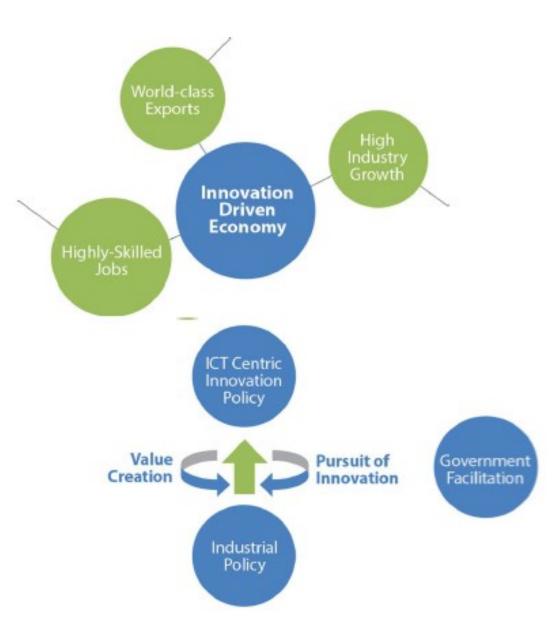
"We need to prepare our students to be entrepreneurs"

"A lot of our innovations don't reach the market"

**ITU-D** Innovation



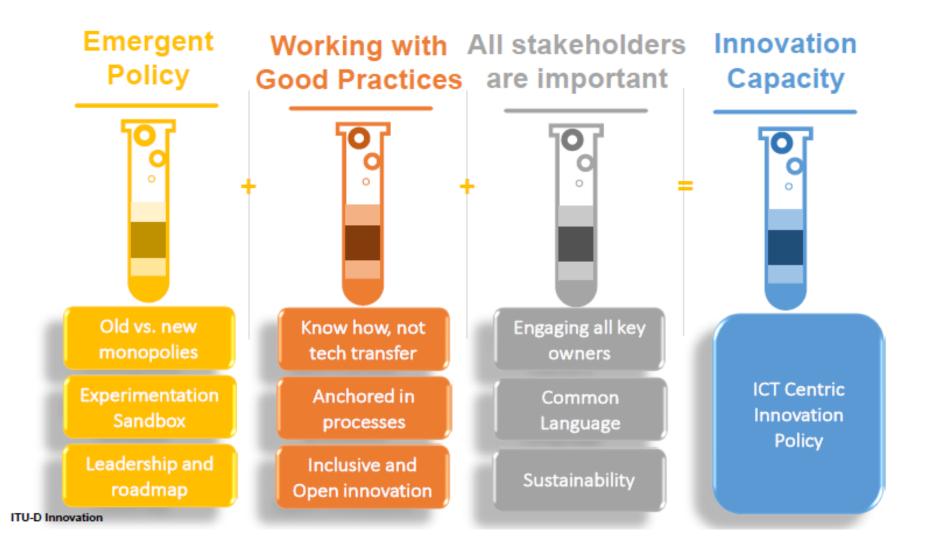
## **Enabling Environment**







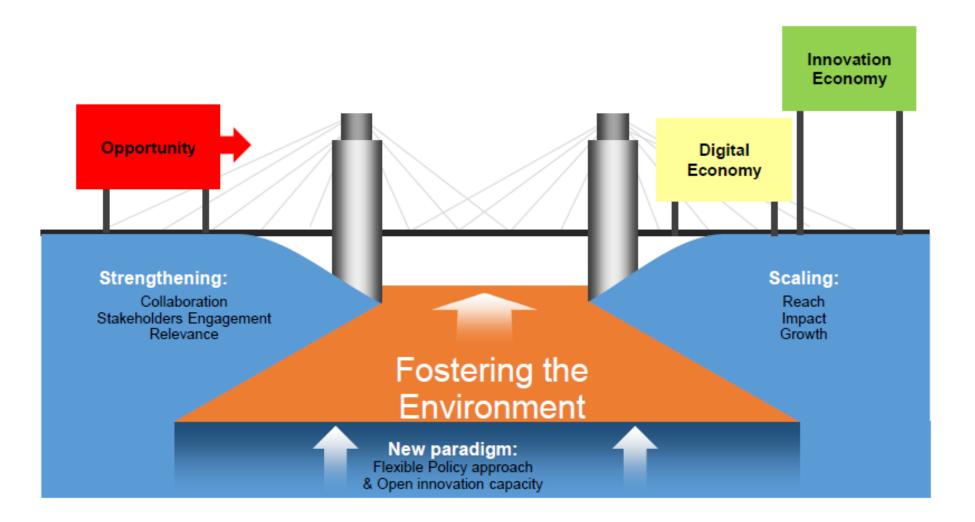
## **Fostering Innovation**







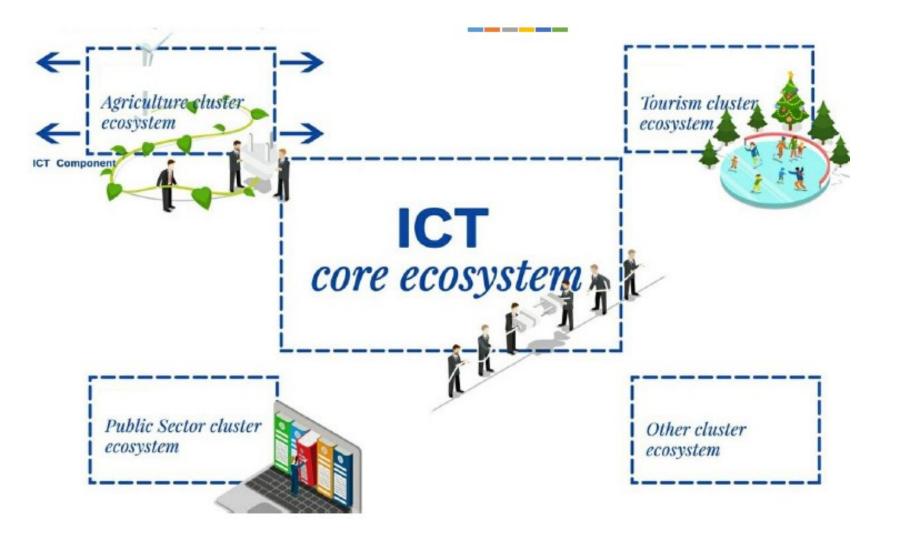
## **Building Bridges**







## **Inclusive Digital Ecosystem**







### **Cross-Sector e-Strategies: Opportunities for Innovation**



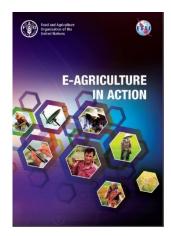
Implementing e-strategies requires some common requirements e.g. Cloud, Security, Privacy, Sensors, Big Data Analysis, Interoperability, Open Data, Applications Development, Digital Literacy etc.





## **Innovation Opportunities : e Agriculture**

- 2015-2016: Bhutan and Sri Lanka
- ICT strategy Lao PDR
- 2016-2017: Philippines, Papua New Guinea, Fiji and Vanuatu





www.fao.org/asiapacific/events/detail-events/en/c/1343/



Food and Agriculture Organization of the United Nations



http://www.fao.org/3/a-i6733e.pdf

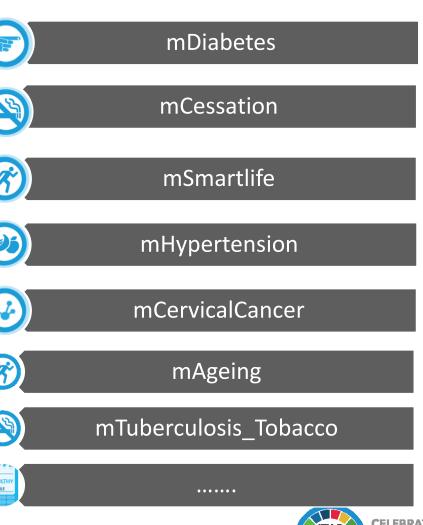


## **Innovation Opportunities : e Health**



*Be He@lthy Be Mobile*: Scaling up Digital Health Globally

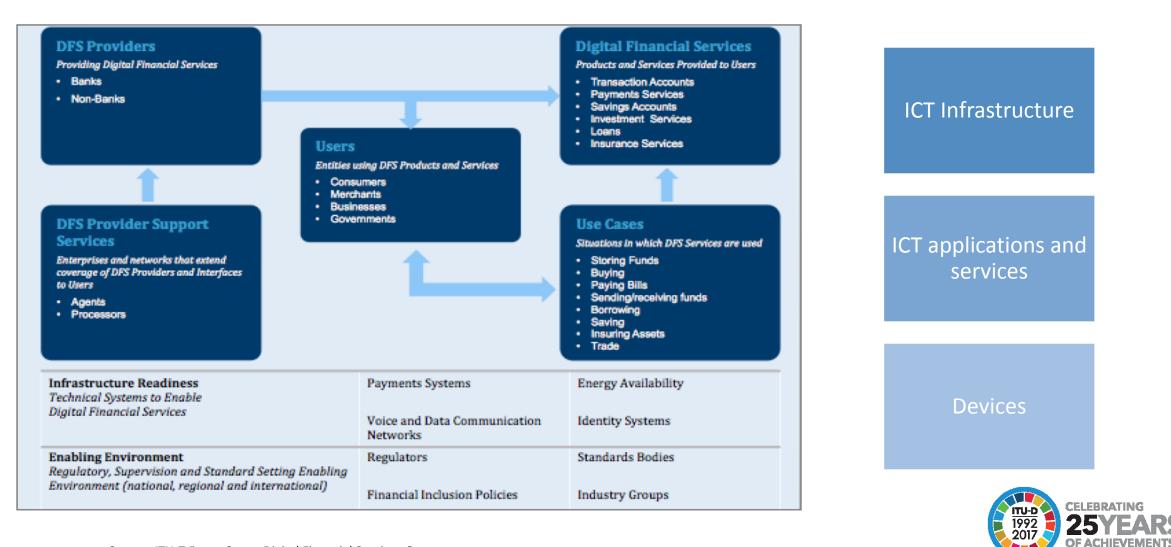








### **Innovation Opportunities : Digital Financial Inclusion**





## **Key Lessons on Innovation**

### Leadership: guiding innovation

Resources: continuum and choice

Talent: quick wins and structural

Enabling Environment: specific laws and policies

Public services and markets: access and growth





## I Thank U (ITU)

