





# ASIA-PACIFIC REGIONAL FORUM ON E-GOVERNMENT SMART CITIES AND DIGITAL SOCIETIES FOR SUSTAINABLE DEVELOPMENT



## SESSION 1: ICT AND E-GOVERNMENT FOR SUSTAINABLE DEVELOPMENT

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# Agenda

## ICT AND E-GOVERNMENT FOR SUSTAINABLE DEVELOPMENT

- 1) Leveraging ICTs to support sustainable development : Sustainable Development Goals (SDGs)
- 2) The role of international organizations in promoting sustainable ICT development
- 3) Trends in e-government development framework.



Committed to connecting the world



## ITU Global Telecommunication/ICT Targets - 2020

### Goal 1 Growth – Enable and foster access to and increased use of telecommunications/ICTs



**55%**  
of households should have access to the Internet

**60%**  
of individuals should be using the Internet

**40%**  
Telecommunications/ICTs should be **40%** more affordable

### Goal 2 Inclusiveness – Bridge the digital divide and provide broadband for all



**50%**  
of households should have access to the Internet in the developing world; **15%** in the least developed countries

**50%**  
of individuals should be using the Internet in the developing world; **20%** in the least developed countries

**40%**  
affordability gap between developed and developing countries should be reduced by **40%**

**5%**  
Broadband services should cost no more than **5%** of average monthly income in the developing countries

**90%**  
of the rural population should be covered by broadband services



Gender equality among Internet users should be reached



Enabling environments ensuring accessible ICTs for persons with disabilities should be established in all countries

### Goal 3 Sustainability – Manage challenges resulting from the telecommunication/ICT development



**40%**  
improvement in cybersecurity readiness

**50%**  
reduction in volume of redundant e-waste

**30%**  
decrease in Green House Gas emissions per device generated by the telecommunication/ICT sector

### 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

## ITU BDT : Strategy Plan Objectives (2015-18)

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- 1 Foster international cooperation on telecommunication/ICT development issues
- 2 Foster an enabling environment conducive to ICT development and foster the deployment of telecommunication/ICT networks as well as relevant applications and services, including bridging the standardization gap
- 3 Enhance confidence and security in the use of telecommunications/ICTs, and roll-out of relevant applications and services
- 4 Build human and institutional capacity, provide data and statistics, promote digital inclusion and provide concentrated assistance to countries in special need
- 5 Enhance environmental protection, climate-change adaptation and mitigation, and disaster-management efforts through telecommunications/ICT

## ITU Asia Pacific Regional Initiatives (2015-2018)

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- 1 Special Consideration For LDCs\*, SIDSs\*\*, Including Pacific Island Countries, And Landlocked Developing Countries
- 2 Emergency Telecommunications
- 3 Harnessing The Benefits Of New Technologies
- 4 Development Of Broadband Access And Adoption Of Broadband
- 5 Policy And Regulation

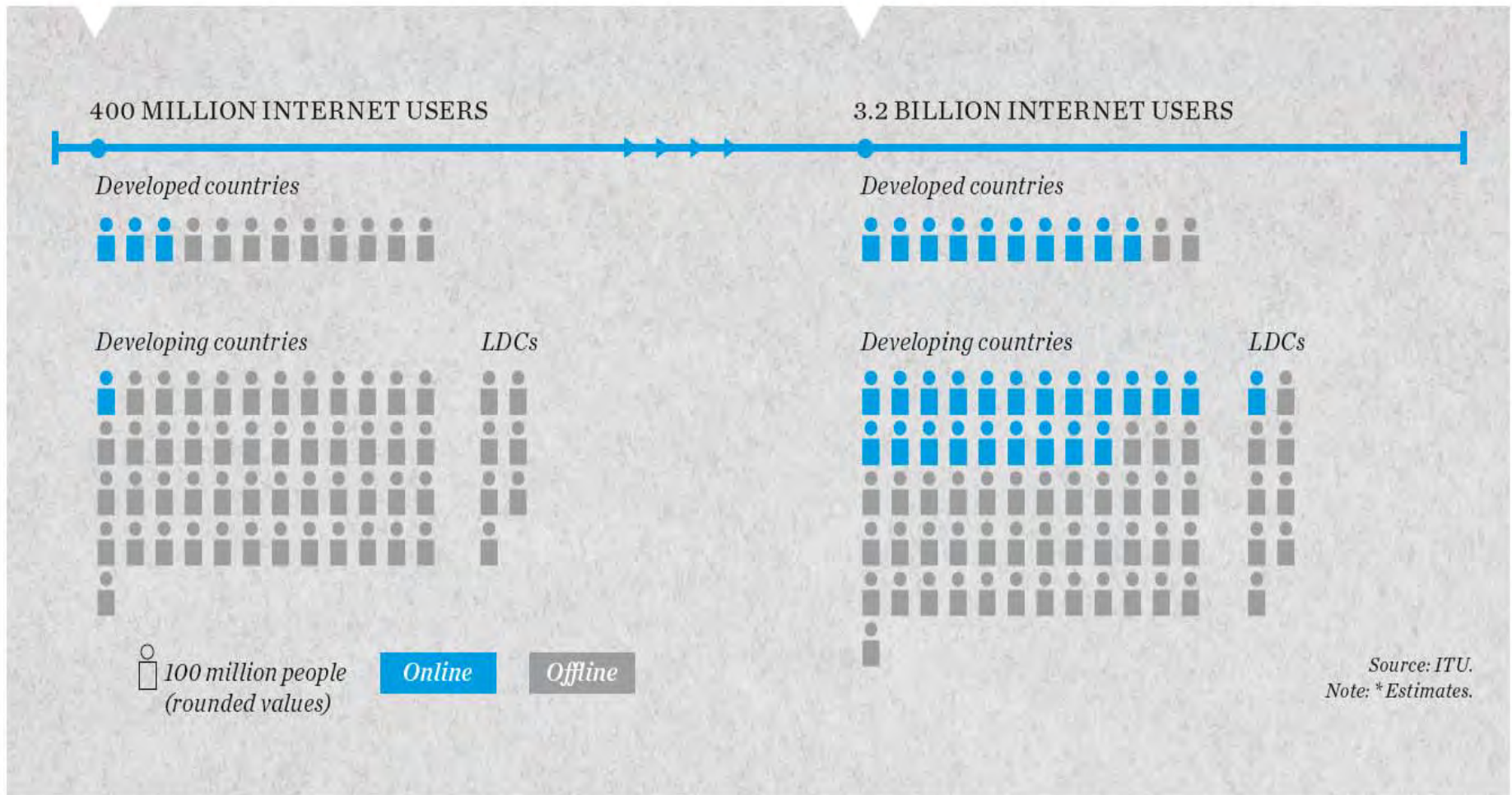
# The Sustainable Development Goals (SDG)



# SINCE MDG : 2000 – 2015

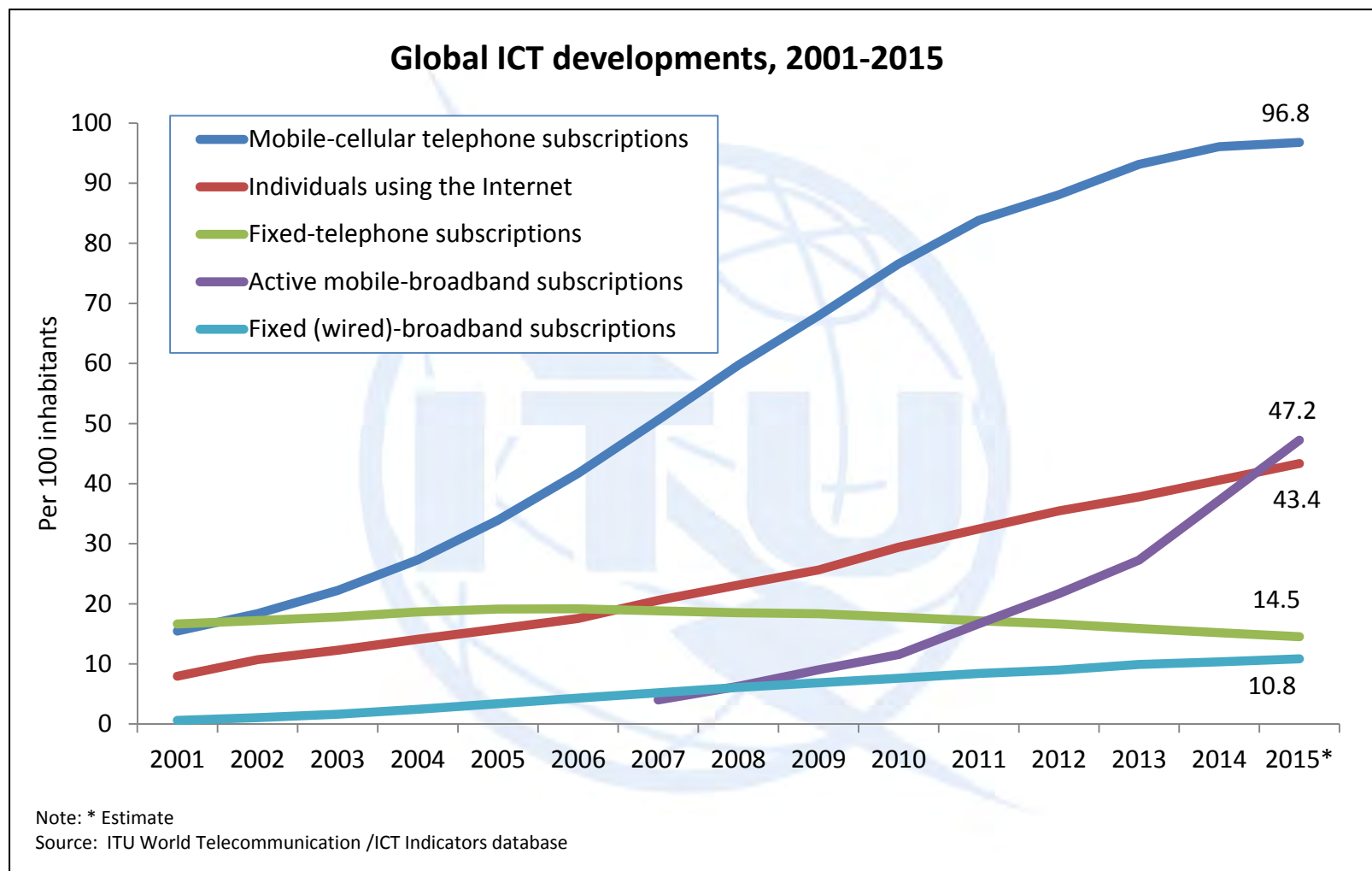
2000

2015\*

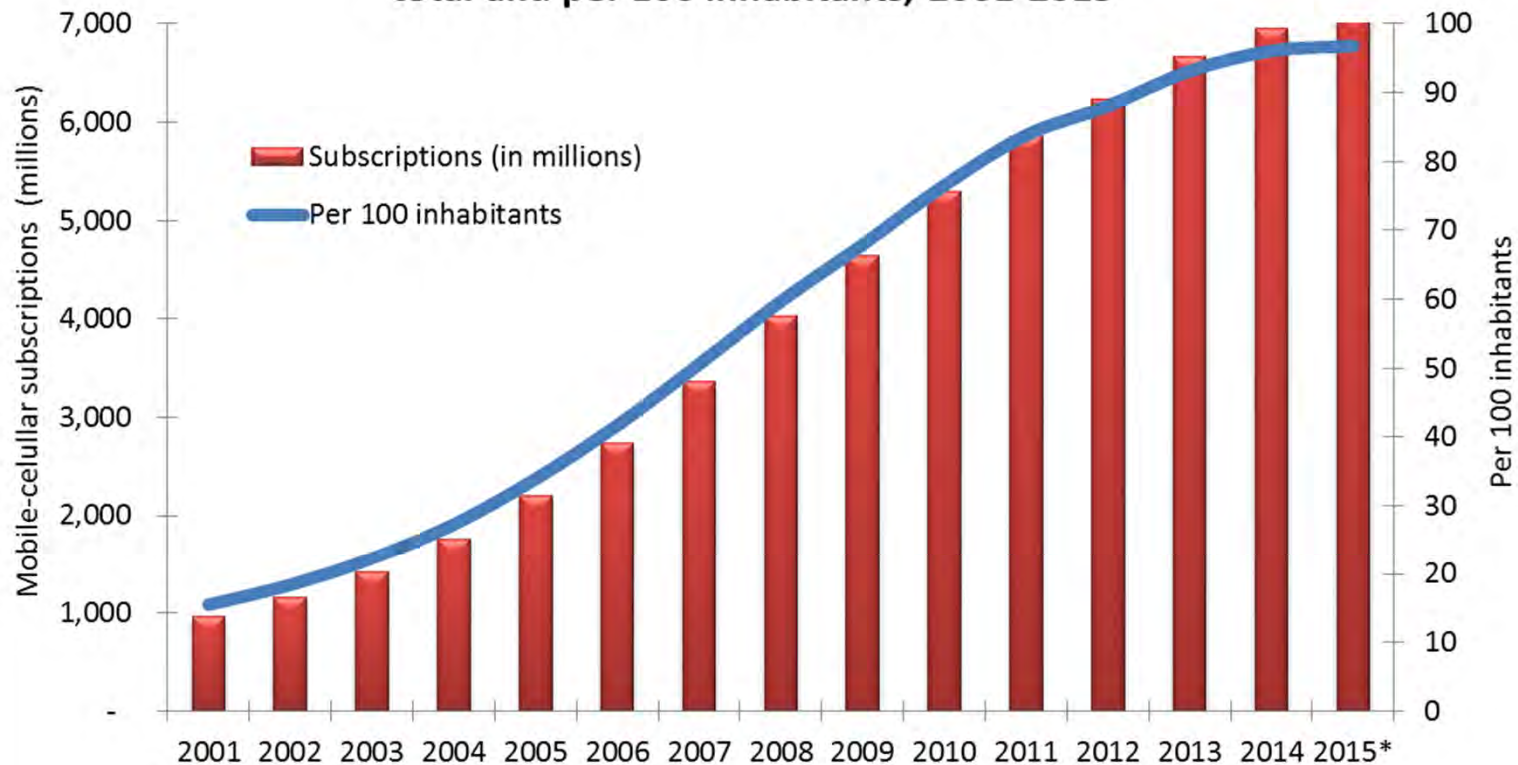




# ICT REVOLUTION FROM MDG to SDG



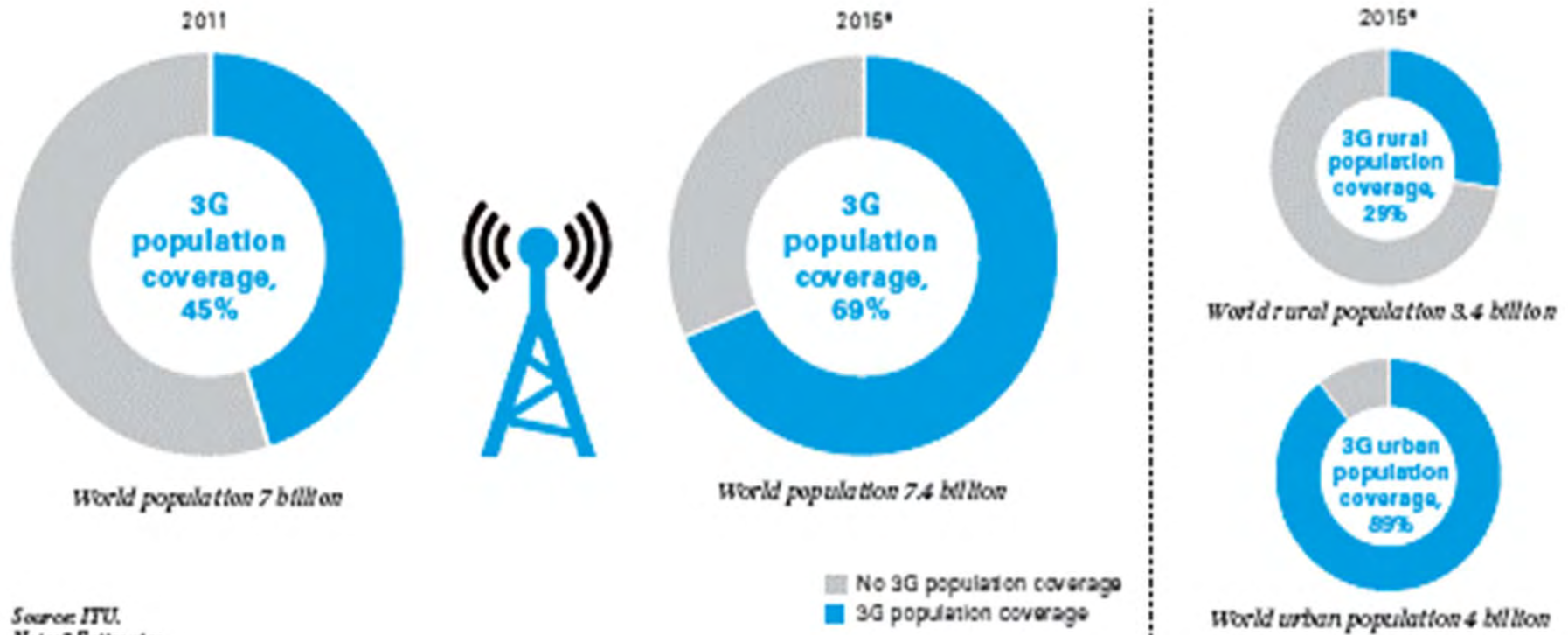
**Global mobile-cellular subscriptions,  
total and per 100 inhabitants, 2001-2015**



Note: \* Estimate

Source: ITU World Telecommunication /ICT Indicators database

# 3G Mobile Coverage : Extending Rural Reach



Source: ITU.  
Note: \* Estimates.

## Wireless Broadband drives IDI progress

Wireless broadband drives IDI progress  
in **dynamic countries**, most of which  
are from the developing world

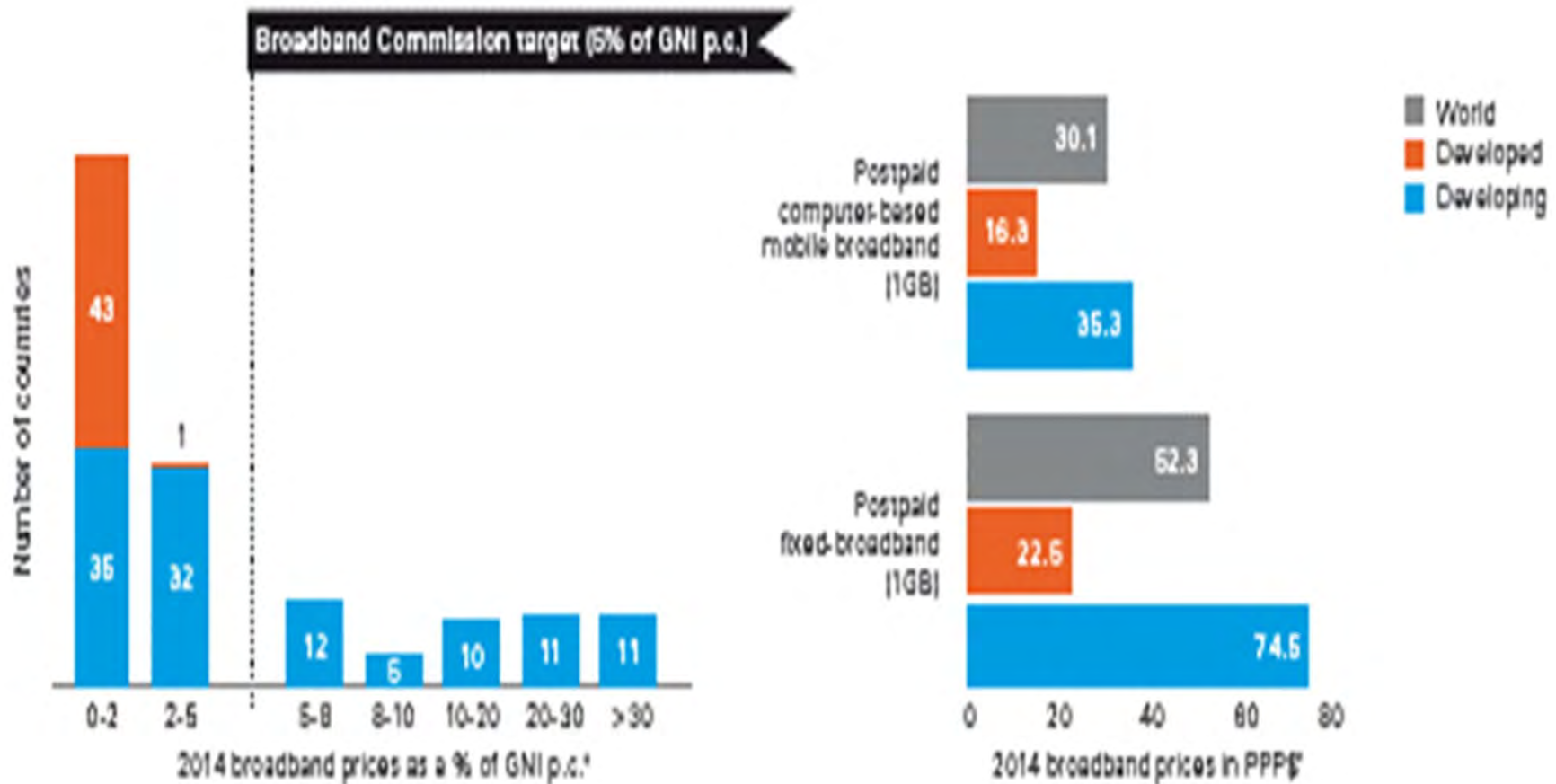
Change in IDI ranking			Change in access ranking			Change in use ranking		
IDI rank 2013	Country	IDI rank change	Access rank 2013	Country	Access rank change	Use rank 2013	Country	Use rank change
32	United Arab Emirates	14	47	Oman	16	71	Thailand	34
91	Fiji	12	101	Cape Verde	7	72	Fiji	24
93	Cape Verde	11	124	Gambia	7	142	Burkina Faso	13
81	Thailand	10	22	Qatar	6	79	Cape Verde	12
52	Oman	9	28	Estonia	5	24	United Arab Emirates	12
34	Qatar	8	64	Seychelles	5	134	Congo (Rep.)	11
38	Belarus	5	97	Albania	4*	111	Bhutan	8
69	Bosnia and Herzegovina	5	38	Belarus	4*	30	Qatar	8
78	Georgia	5	112	Bolivia	4*	61	Antigua & Barbuda	7**

Note: \* In the access sub-index, Mali, Mexico, Nepal, Nigeria, the Russian Federation and Uruguay also went up four places between 2012 and 2013. \*\*In the use sub-index, Belarus and Oman also went up seven places.

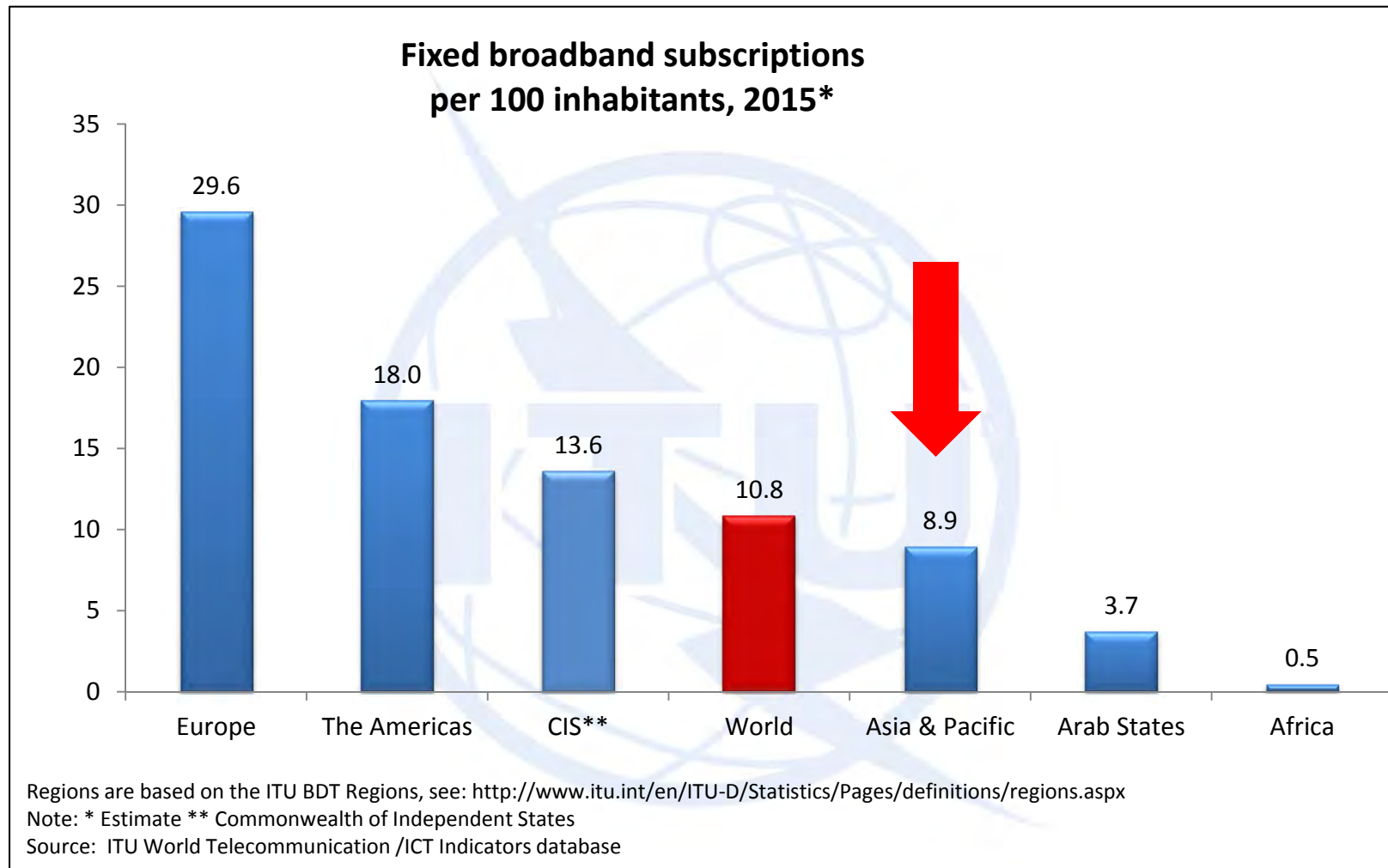
Source: ITU MIS Report 2014

# Broadband now affordable in 111 countries

*Mobile BB cheaper than Fixed BB*

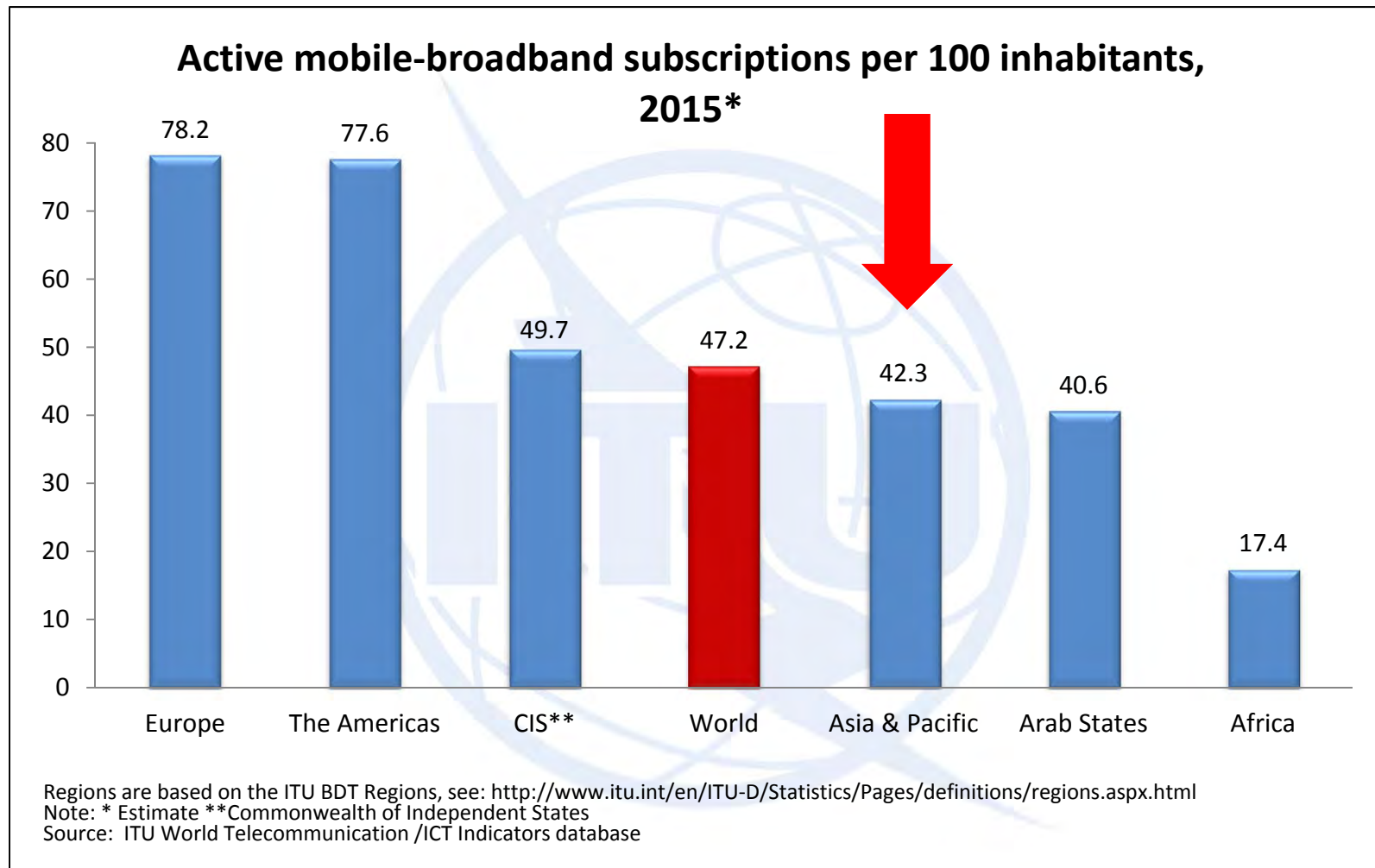


# Fixed BB across regions of the world



## Fixed Broadband subscriptions per 100 inhabitants 2015\*

# Mobile BB across regions of the world



**Active Mobile Broadband subscriptions per 100 inhabitants 2015\***

# The digital divides

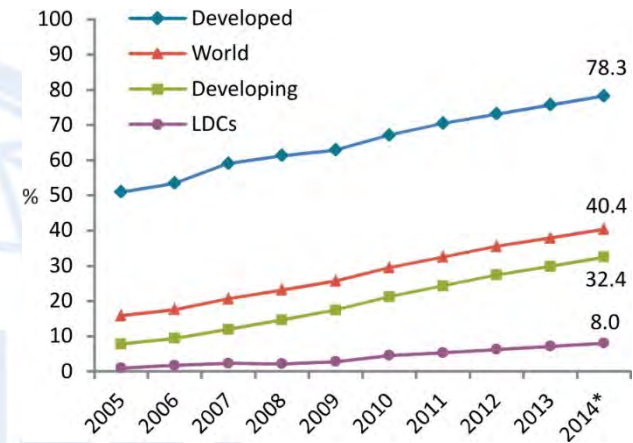
4.3 billion people worldwide are not yet using the Internet, 90% live in the developing world

<1% fixed-broadband penetration in least developed countries (LDCs)

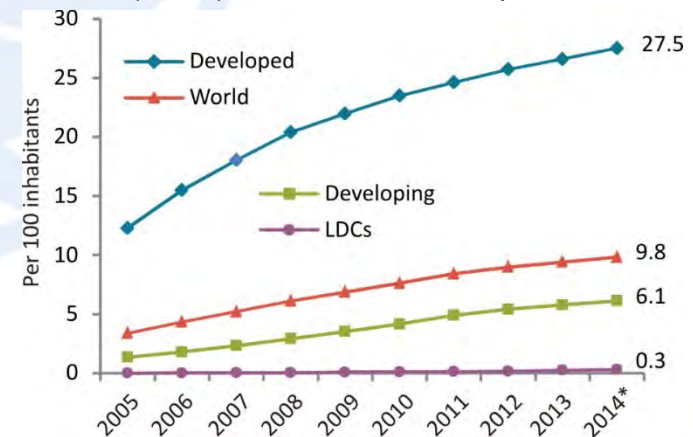
450 million people worldwide without access to mobile services

Rural-urban divide: lower 3G coverage, smaller proportion of households with Internet access and fewer enterprises and schools connected in rural areas.

Individuals using the Internet, 2005-2014\*



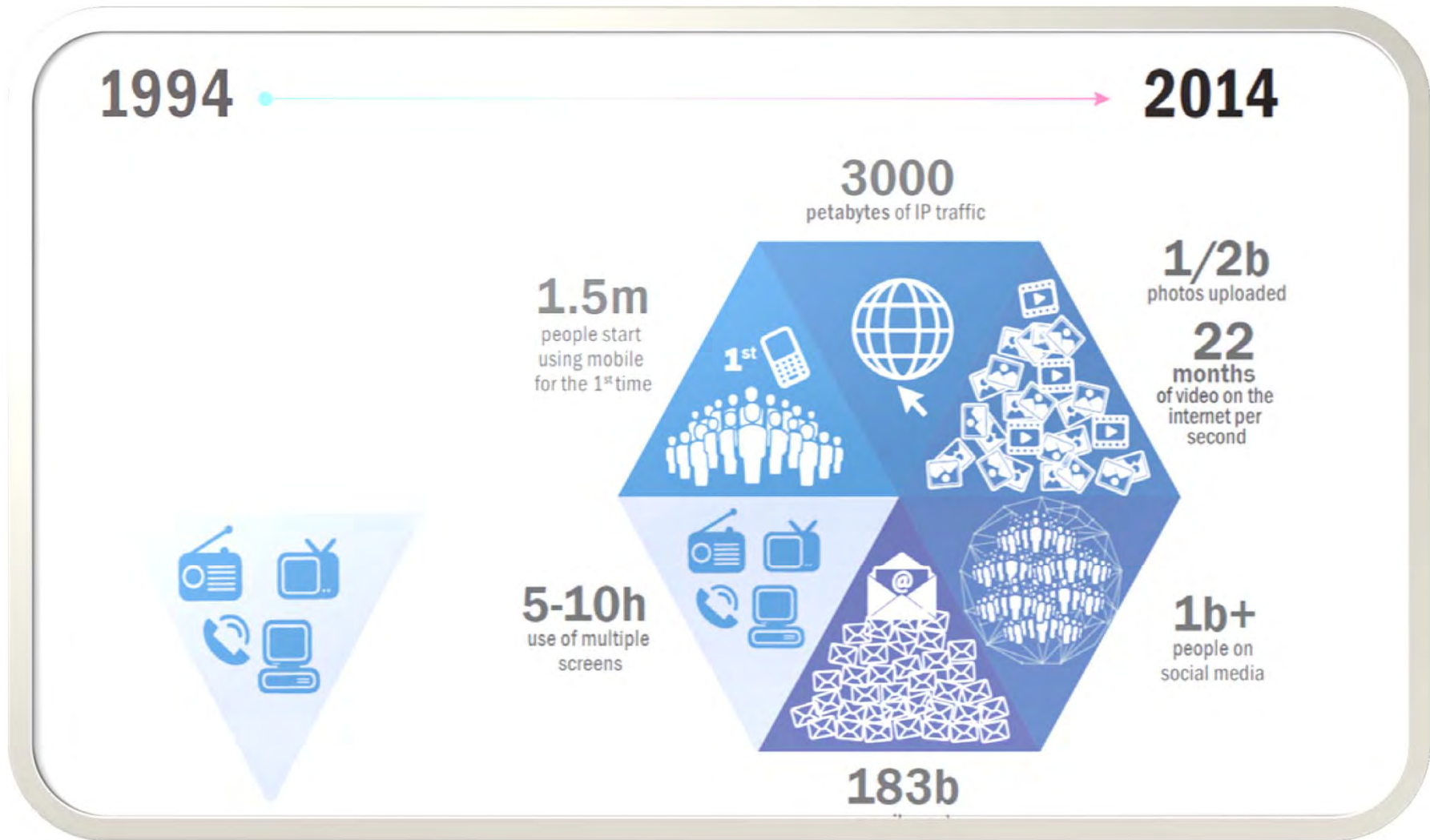
Fixed (wired)-broadband subscriptions, 2005-2014\*



Source: ITU MIS Report 2014, \* Estimate



# A Day in the Digital World



Source: ITU Trends Report 2015



## GSR-15 Best Practice Guidelines

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- **Stimulating demand:** raising awareness about the potential of m-services and applications to achieve socio-economic opportunities by empowering citizens
- **Facilitating use, availability and access:** Identifying policy, regulatory and industry-led measures to lift regulatory and technical barriers and foster access, development and take up of apps and m-services
- **Protecting the users and suppliers:** Identifying measures to ensure ease of use, trust, privacy and confidence as well as basic security in the use of m-services and applications taking into consideration their transnational nature
- **Roles of ICT stakeholders:** identifying the roles and responsibilities of the government, the telecom/ICT regulator, the industry and consumers to facilitate and stimulate uptake and use in a safe and secure manner

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## Prioritising for a Digital Economy

- Digital Inclusion
  - Access to Applications and Services
- Benefit to End-Users & Consumers
  - Policy/Legislation
- Effective & Smart Regulation
  - Empowering Consumers
  - Creating the



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# Thank You

