Global Perspectives on Bridging the Digital Divide

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History of the Future

One to many to any: ICTs from happy few to the masses

- Mainframe (1 computer, > people)
- PC (1 person, 1 computer)
- Digital native computing (1 person, > screens)
- Internet of everything

Volumes, M


- Artifical intelligence
- Mass wearables
- Cognitive computing
- Connected car
- Social media
- Mobile broadband, smartphones, tablets
- Internet of things
- Internet born
- www

Source: ITU
ICTs today
The interplay of ICT markets and regulation

Generation of Regulation

G1: Regulated public monopolies without an independent regulator
G2: Basic reform, separate regulatory bodies, partial liberalization and privatization
G3: Regulation for enabling investment, innovation and access, stimulating competition
G4: Integrated regulation, the regulator as a partner for development and social inclusion
G5: Collaborative regulation, define the foundation, platforms and mechanisms for working with other sector regulators
Winning formulas for broadband

• Competition in mobile broadband
• Competition in international gateways
• Mobile number portability enabled
• Band migration allowed
• Infrastructure sharing for mobile (either allowed or mandated), including MVNOs
• National broadband plan adopted

Regulatory measures

• Competition in DSL/cable
• Fixed number portability enabled
• Infrastructure sharing for fixed either allowed or mandated
• Converged licensing framework in place
• National broadband plan adopted

Source: ITU
ITU Interactive Transmission Maps – The Database

Broadband Transmission Capacity Indicators

Indicator 1: Transmission network length (Route kilometres)
Indicator 2: Node locations
Indicator 3: Equipment type of terrestrial transmission network
Indicator 4: Network capacity (bit rate)
Indicator 5: Number of optical fibres within the cable
Indicator 6: Operational status of the transmission network
Indicator 7a: Percentage of population within reach of transmission networks
Indicator 7b: Percentage of area within reach of transmission networks

Source: ITU

https://www.itu.int/itu-d/tnd-map-public/
Building Blocks for 5th Generation Collaborative Regulation

Collaborative network of: Policy Makers, Regulators & Market Players
The Telecommunication Development Sector (ITU-D) fosters international cooperation and solidarity in the delivery of technical assistance and in the creation, development and improvement of telecommunication and ICT equipment and networks in developing countries.

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