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**Next Generation Access Networks (NGAN):  
New challenges for IS measurement**

Esperanza Magpantay  
Senior Statistician  
Market Information and Statistics Division  
Telecommunication Development Bureau  
International Telecommunication Union

# Topics

- Definition
- Subscriptions
- Household and business indicators
- Other indicators
  - VoIP lines
  - Prices
  - Quality of Service
  - Revenue

## Next Generation Access Networks

- IP broadband infrastructures
- covers both the fixed (wired), wireless and mobile infrastructures
- can be used with the term “broadband” interchangeably
  - higher capacity networks
  - always ‘on’ provision model
  - the flat rate business model

Source: ICT Regulation Toolkit

■ For measurement purposes: broadband is  $\geq 256$  kbit/s downstream speeds

## INDICATORS

### Fixed (wired) broadband subscriptions

- **By technology**

- DSL
- Cable
- Fibre-to-the-home/building
- Fibre-to-the-node/cabinet

- **By speed**

- 256 kbps to <2 Mbps
- 2Mbps to <10 Mbps
- Above 10 Mbps

## Wireless broadband subscriptions

- Total wireless broadband subscriptions
  - Satellite subscriptions
  - Terrestrial fixed wireless subscriptions
  - Terrestrial mobile wireless subscriptions
    - Standard mobile subscriptions with use of data communications at broadband speeds
    - Dedicated mobile data subscriptions

## Household and business ICT indicators

- Proportion of households with access to the Internet by type of access:
  - Narrowband
  - Fixed broadband
  - Wireless (mobile) broadband
- Proportion of businesses using the Internet by type of access:
  - Narrowband
  - Fixed broadband
  - Wireless (mobile) broadband

## Other indicators

- VoIP subscriptions (its share/contribution to fixed telephone lines)
- Prices
  - Fixed (wired) broadband (bundled)
  - Wireless broadband
- Quality of service indicators
  - Fixed telephone lines
  - Wireless broadband
  - Fixed (wired) broadband
- Revenue
  - Wireless broadband
  - Fixed (wired) broadband

## ITU Expert Group on Telecommunication/ICT Indicators

- Online discussion – May 2009 to March 2010
- Meeting - Geneva, 29-31 March 2010
- Discussed indicators including NGAN indicators
- New Indicators (Prices, QoS, FTTx subscriptions)
  - for discussion in EGTI online forum
- World Telecommunication/ICT indicators meeting – Geneva, November 2010

# For further information

indicators[at]itu.int

[www.itu.int/ict](http://www.itu.int/ict)