



INTERNATIONAL TELECOMMUNICATION UNION

**TELECOMMUNICATION
DEVELOPMENT BUREAU**

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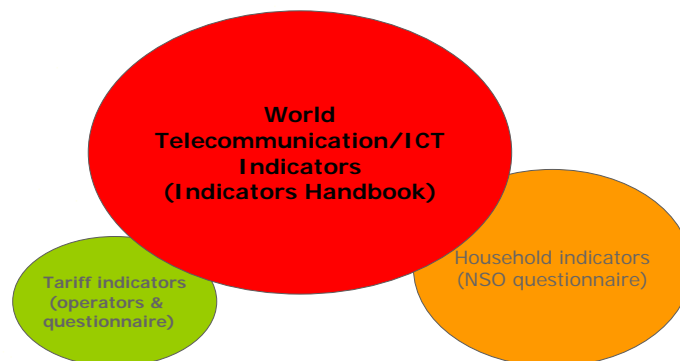
TITLE: Review of existing indicators

6th World Telecommunication/ICT Indicators Meeting
Geneva, Switzerland
December 13-15, 2007

Review of existing indicators

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Types of ICT indicators



WTI: Indicators Handbook

- Fixed & Mobile network
- Internet/broadband
- Tariffs
- Traffic
- Staff
- Revenue & Investment
- Community Access
- Broadcasting

World Telecommunication/ICT Indicators Meeting 2006 saw revision of ITU Indicators Handbook
Information Document Nr 12



Revised/new indicators

Traffic	i132t: International outgoing total telephone traffic (minutes): includes fixed and mobile minutes
Mobile	i271L: Number of mobile cellular subscribers with access to data communications at low speeds (below 256kbit/s). Typically referred to as 2.5G.
Mobile broadband	i271mb: Number of mobile cellular subscribers with access to data communications at broadband speeds (defined as greater than or equal to 256 kbit/s in one or both directions). Typically referred to as 3G.
Fixed broadband	Total fixed broadband Internet subscribers: high speed access to the public Internet at speeds equal to, or greater than, 256kbit/s, in one or both directions.



Adapting/revising indicators

- To reflect technological changes and new services
 - NGN
 - Convergence
 - VoIP
 - Mobile broadband
 - Cybersecurity
- In response to
 - Requests from ITU Member States
 - Market trends
 - National data collections
 - Work carried out by international and regional organizations

Household & individual survey indicators

- To measure the Information Society, access/network data are not sufficient
- Measure ICT use (who? where? why?) through household and individual surveys
 - Collection started in 2005
- Part of the Partnership on Measuring ICT for Development
 - ITU's expansion from administrative to survey data
 - Cooperation of National Statistical Offices (NSOs) with regulatory authority!

ICT household/individual indicators

- HH-1 Households with a radio
- HH-2 Households with a TV
- HH-3 Households with a fixed line telephone
- HH-4 Households with a mobile cellular telephone
- HH-5 Households with a computer
- HH-6 Individuals that used a computer (from any location) in the last 12 months
- HH-7 Households with Internet access at home
- HH-8 Individuals that used the Internet (from any location) in the last 12 months
- HH-9 Location of individual use of the Internet in the last 12 months:
 - Home
 - Work
 - Place of education
 - Another person's home
 - **Community access (subsidized, or free)**
 - **Commercial Internet access**

Household indicators
(NSO questionnaire)

To access list of indicators and definitions: <http://www.itu.int/ITU-D/ict/partnership/index.html>

ICT household/individual indicators

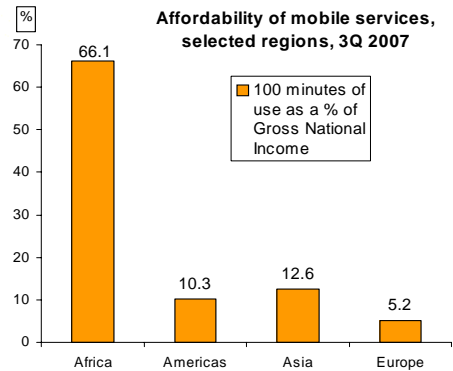
- HH-10 Internet activities undertaken by individuals
 - Getting information
 - Communicating
 - Purchasing or ordering goods or services
 - Internet banking
 - Education
 - E-government services
 - Leisure activities
- HH-11 Proportion of individuals with use of a mobile telephone
- HH-12 Proportion of households with access to the Internet by type of access from home
 - Narrowband (dial-up, ISDN)
 - Broadband (>256kbit/s)
- HH-13 Frequency of individual access to the Internet
 - 4 options (once a day, once a week, once a month, less than once a month)

Household indicators
(NSO questionnaire)

To access list of indicators and definitions: <http://www.itu.int/ITU-D/ict/partnership/index.html>

Tariff indicators

- Measure of affordability of ICT services
- Important information to understand barriers to ICT use/uptake
- Tariff data collected through research (from operators)
 - Mobile services
 - Internet/broadband



Tariff indicators
(operators & questionnaire)

Mobile tariffs - rules

- Dominant operator (in terms of subscriber numbers)
 - Prepaid or postpaid, depending on dominant payment method (in terms of subscribers) within the country
- Average of peak and off-peak minutes
- Average of calls to same network, off-net, and fixed network

Tariff indicators
(operators & questionnaire)

Internet tariffs - rules

- Both, dial-up and broadband tariffs are collected
- 1. Cheapest price commercially available for 20hours use per month (dial-up or broadband)
 - Average of peak and off-peak minutes (for dial-up)
- 2. Broadband: Low-speed and high-speed broadband offers are collected and made comparable (lowest sample cost of 100 kbit/s per month)

Tariff Indicators
(operators &
questionnaire)

Reality check

- Are ITU indicators reflecting market trends and helping countries measure their progress in terms of adopting ICTs?
- Are data available from countries?
 - Example: Community access indicators
- Are data available from operators?
 - Example: Mobile broadband

Thank you

For questions or comments, please
contact indicators@itu.int
