



International Seminar on Information and Communication Technology Statistics 19-21 July 2010, Seoul, Korea

Session 4: ICT Infrastructure and households statistics

Esperanza Magpantay
Statistician

Market Information and Statistics Division
Telecommunication Development Bureau
International Telecommunication Union

1. Two groups of statistics

1. ICT Infrastructure statistics
2. ICT households statistics

2. Common topics

- Data collection
- Standards/definitions
- Challenges
- Capacity building
- Data dissemination
- Conclusions

World Telecom/ICT Indicators (WTI)

- International comparability:
 - Wish list (everything!) **VS.** most important and most likely to collect from most countries
- Telecom/ICT sector mandate:
 - subscriptions, revenues, investment, traffic, tariffs, ICT households statistics, etc.
- Users:
 - UN, governments, analysts, statisticians, press, students, etc.

1. ICT Infrastructure Statistics (Supply side)

Data collection

- World Telecommunication/ICT Indicators (WTI) Questionnaires
 - Contact: Ministry or regulatory authority
 - Short (12 indicators) – March to April
 - Long (68 indicators) – June to July
 - Tariffs (35 indicators) – July to August
 - Using ICT Eye (online questionnaire)

Considerations...

- **Quantity:** Too many indicators to consider for data collection
- **Relevance:** Fast changing telecom/ICT services and technologies that need to be reflected regularly in the list and definition of indicators
- **Comparability:** Need to harmonize definition that can be used by majority of countries
- **Availability:** Need to know whether countries are collecting or able to collect the data for the indicators

Expert Group on Telecommunication/ICT Indicators (EGTI)

- One of the recommendations of the WTI meeting, Cairo, Egypt, 3-5 March 2009
- Invited: ICT experts and ITU member states
- Chaired by NITA, Denmark
- Online discussion forum
- Met in March 2010, Geneva
- Telecom/ICT Indicators March 2010 version
- Indicators included in Long 2010 questionnaire

World Telecom/ICT Indicators Definitions March 2010

- Fixed telephone network (11)
- Mobile cellular services (6)
- Internet (6)
- Fixed (wired) broadband (8)
- Wireless broadband (6)
- Quality of service (2)
- Traffic (13)
- Tariffs: fixed, mobile, Internet (35)
- Staff (2)
- Revenue (4)
- Investment (5)
- Community access indicators (2)
- Broadcasting (2)
- Other (1)
- <http://www.itu.int/ITU-D/ict/handbook.html>

Challenges – Infrastructure Indicators

- Fixed telephone:
 - PSTN subscriptions
 - VoIP subscriptions
- Mobile cellular subscriptions: Multiple/Inactive SIM
- Mobile broadband subscriptions: access vs. use
- Next Generation Access Networks: Convergence
 - Tariffs
 - Revenue
 - Quality of Service
- ✓ EGTI further discussions (ongoing)

2. ICT Households Statistics (Demand side)

Data collection

- ICT Household questionnaire
 - Contact: National Statistics Office
 - Collection: March to April
 - Core ICT households and individuals indicators

ICT Households statistics

- Collected using ICT household survey
- ICT access and use by households and individuals (telephone, Internet, computer)
- Classificatory variables (income, urban-rural, HH size, gender, employment, age, etc.)
- More detailed analyses and comparisons - help formulate focused policies

Standards:

Core list of ICT indicators

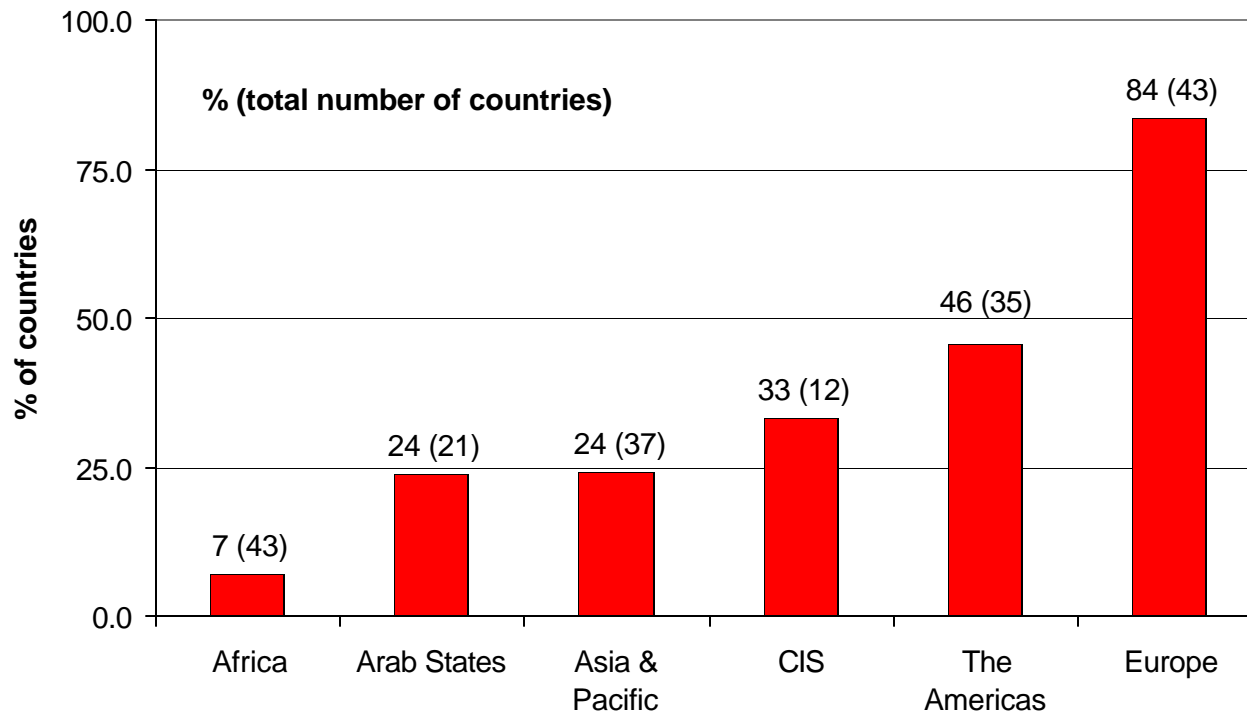


- Endorsed by UN Statistical Commission in 2007
- **Launched during the UN Statistics Commission, New York, February 2010**
- Revised and extended list
- Definitions, statistical standards, classifications, model survey questions
- Covering: ICT infrastructure, ICT in households, ICT in businesses, ICT sector and trade, ICT in education
- Available in six languages

www.itu.int/ict

ICT Household Statistics: Availability

Percentage of countries where data on the
"proportion of households with Internet access at home"
are available, by region, 2005-2009



Source: ITU.

ITU Manual

Target audience:

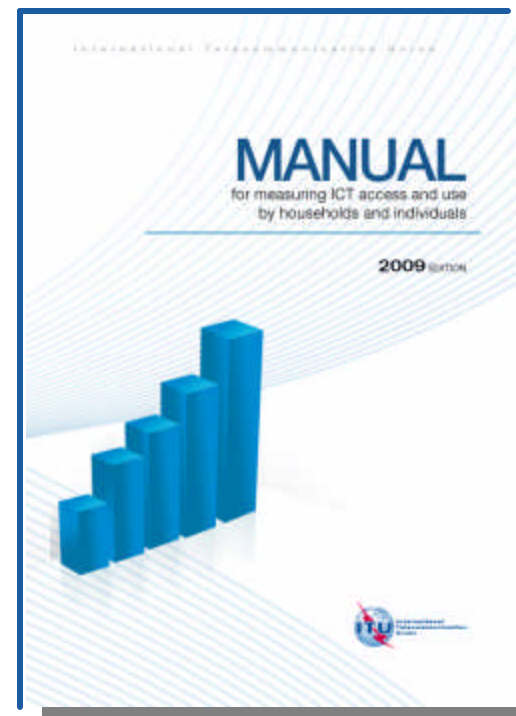
Official ICT data producers,
statisticians, National Statistical Offices

Broad content

- Introduction to ICT household statistics and core indicators
- **Steps to conduct an ICT households survey**
- Steps for data processing and dissemination

Available online:

<http://www.itu.int/ITU-D/ict/publications/hhmanual/2009/index.html>



Technical assistance and reference materials

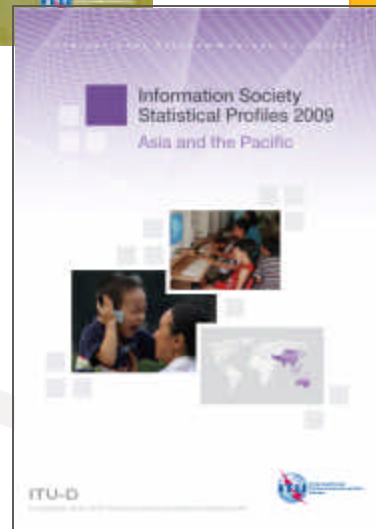
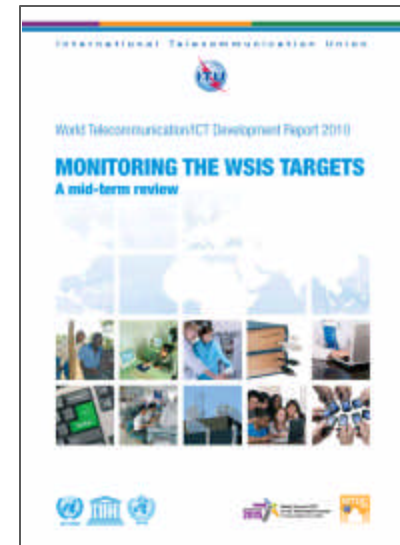
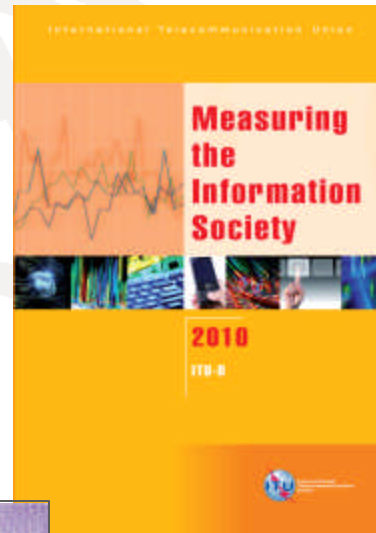
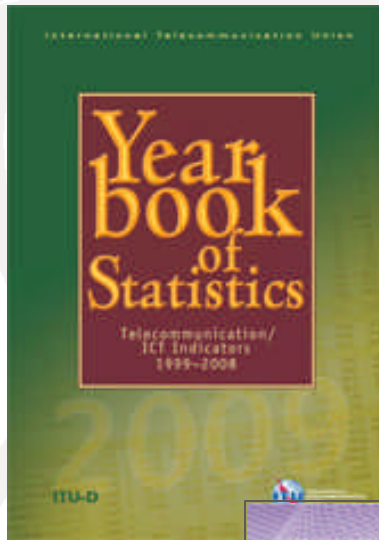
- Capacity building training/workshops
- Reference Materials
 - ITU World Telecommunication/ICT indicators
 - Core ICT Indicators
 - ITU Manual on household and individual ICT statistics
 - Training materials on households ICT statistics
- Upcoming Training: French-speaking Africa (October 2010)

8th World Telecom/ICT Indicators Meeting

- 24-26 November 2010, Geneva, Switzerland
- Topics to be addressed:
 - Results of the work carried out by the Expert Group on Telecommunication/ICT Indicators (EGTI)
 - Recent developments in defining and measuring broadband
 - Finalizing core indicators on e-government and the WSIS targets
 - Measuring the social and economic impacts of ICTs using survey data
 - Emerging issues related to measuring online security and safety and green ICTs
 - <http://www.itu.int/ITU-D/ict/wict10/index.html>

Dissemination

Data dissemination



ITU World
Telecommunication/ICT
Indicators database

ICT Eye

- **Dual Purpose:** Data collection and dissemination tool
- **Unified system:** compiles several databases - enables users to track the development and use of ICTs
- **Comprehensive:** Provides information including ICT statistics, regulatory and policy profiles, national tariff policies, financial and scientific institutions
 - Country profiles and indicator reports
- **Website:** <http://www.itu.int/ITU-D/ICTEYE/Indicators/Indicators.aspx>

Conclusions: Importance of....

- cooperation of all ICT stakeholders at national level (policymakers, regulators, NSO, etc)
- using internationally agreed indicators (WTI and ICT Household indicators) for national data collections
- using available materials/manuals that are based on international consultation and consensus

Thank you

Contact: [indicators\[at\]itu.int](mailto:indicators@itu.int)