



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

Session 4: ICT Infrastructure and households statistics

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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

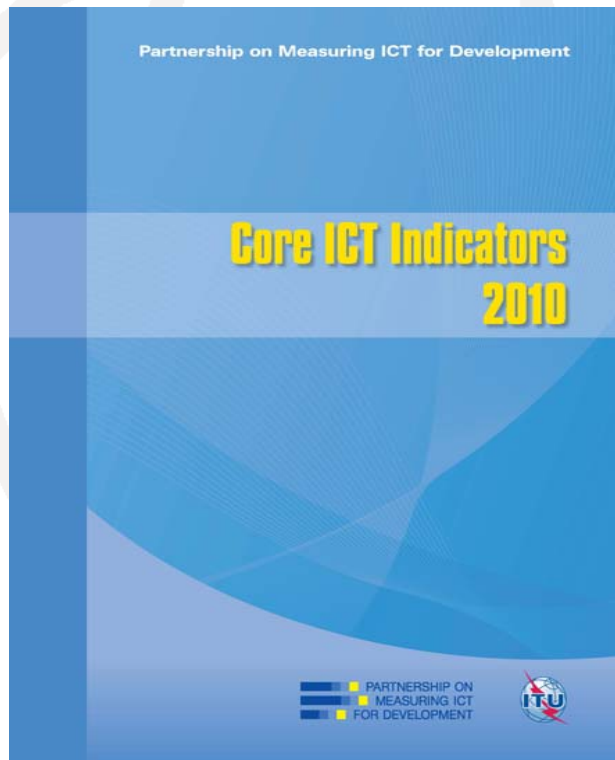
- ICT Household questionnaire
 - Contact: National Statistics Office
 - Collection: March to April
 - Core ICT households and individuals indicators

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

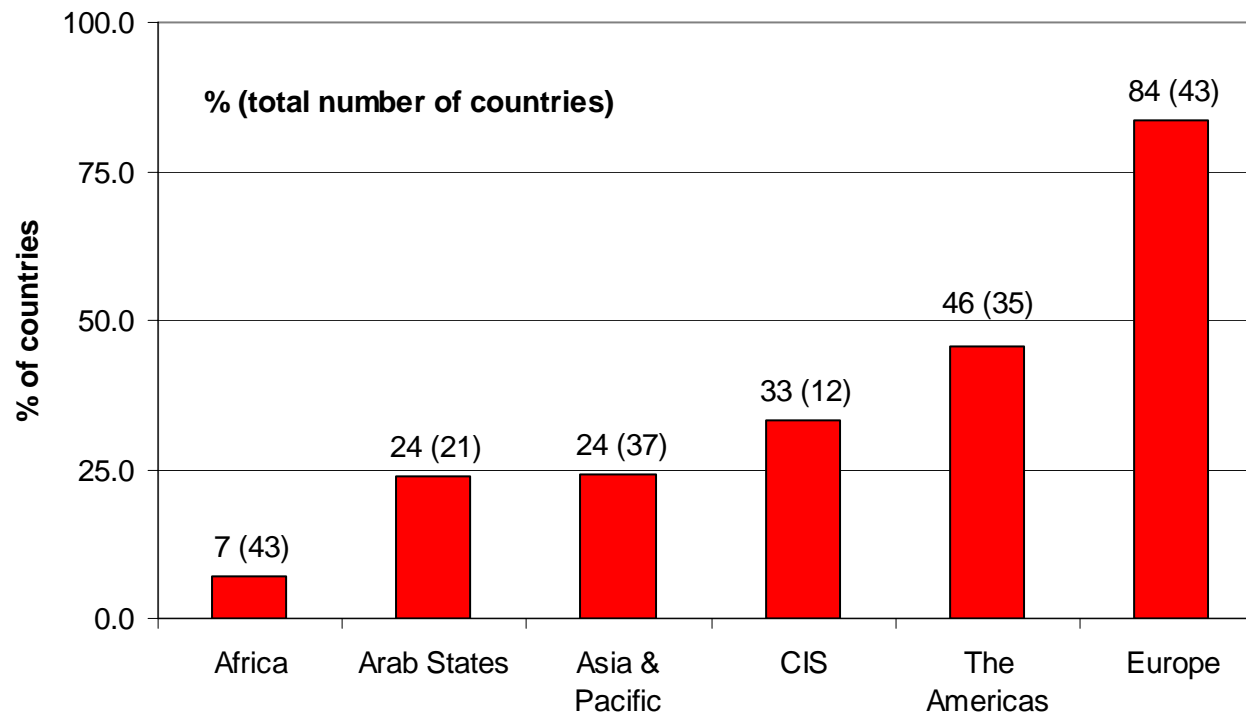


- Endorsed by UN Statistical Commission in 2007
- **Launched during the UN Statistics Commission, New York, February 2010**
- Revised and extended list
- Definitions, statistical standards, classifications, model survey questions
- Covering: ICT infrastructure, ICT in households, ICT in businesses, ICT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

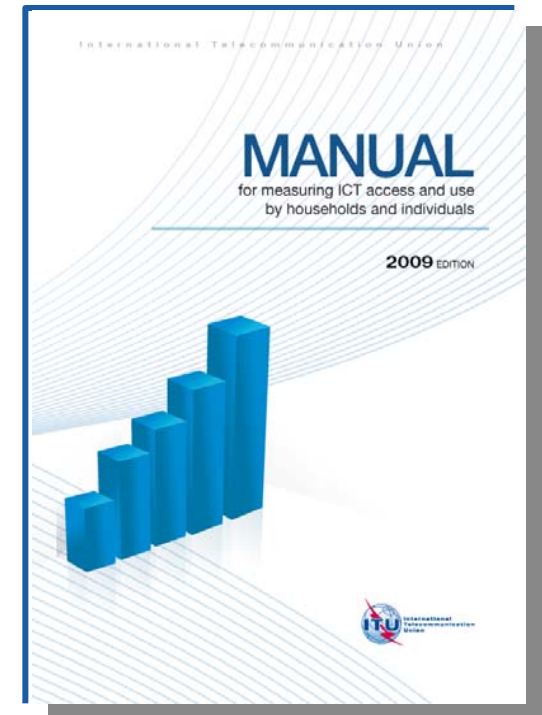
Official ICT data producers,
statisticians, National Statistical Offices

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)

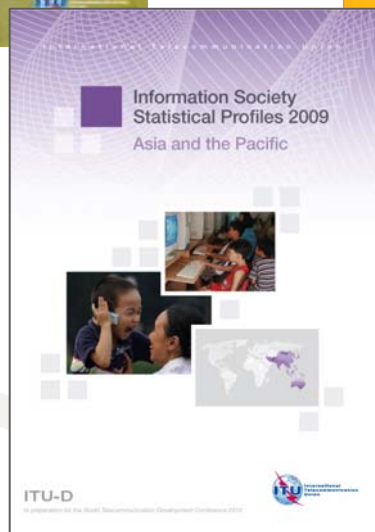
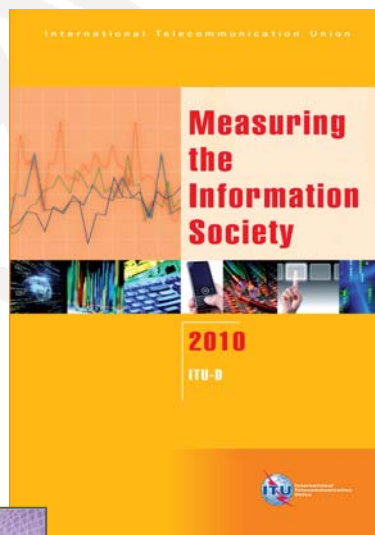
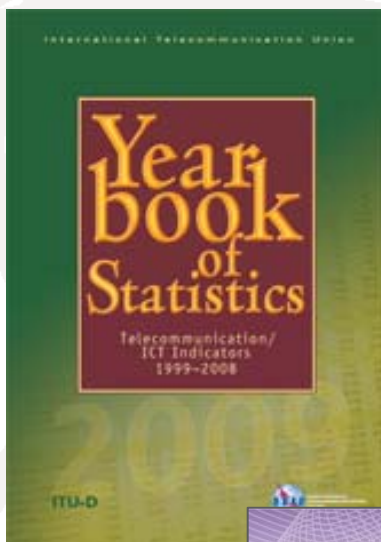
8th World Telecom/ICT Indicators Meeting

- 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)