

How to establish an ICT Indicator database in Indonesia 29 October – 2 November 2007 Jakarta, Indonesia

ITU work on ICT Measurement

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ITU Mandate

- As a United Nations agency, ITU has an obligation to produce statistics covering its sector. This is in line with other specialized agencies that publish statistics covering their respective field of operations. This forms part of the global statistical system of the UN.
- Over 30 years of data collection and dissemination: country-, regional- and international data and reports
- World Telecommunication/ICT Indicators (WTI)
 Database



WTI data/sources

HOW?

- Annual telecommunication Indicators questionnaire addressed to government agencies responsible for ICT/telecom (regulators or ministries)or operators
 - Short questionnaire (April)
 - Long questionnaire (Sept)
- Online research
- Annual reports

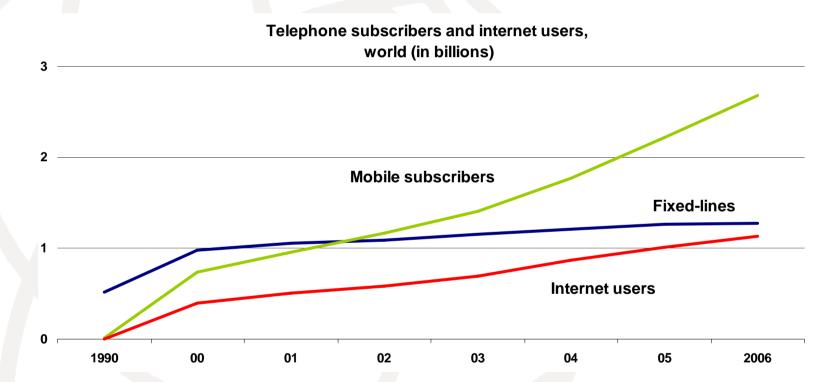
WHAT?

- Covers around 100 indicators since 1960
- Fixed telephone network
- Mobile network
- Text / Data network (internet)
- Traffic
- Tariffs (fixed, mobile, internet)
- Staff
- Quality of Service
- Revenue & Investment
- Community Access
- Broadcasting

ITU data cover more than 200 economies; data provided annually



Despite rapid growth in ICTs...

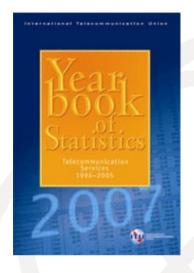


Source: World Telecommunication Indicators Database

Data dissemination

Helping the world communicate





- Yearbook of Statistics (annually, since 1974), latest July 2007.
- O World Telecommunication/ICT Indicators (WTI) database (available online, updated every 3 months), latest 15 October 2007.
- O World Telecommunication/ICT Development Report (WTDR) (last published in March 2006)
- Regional Telecommunication Indicators reports (Africa, Asia-Pacific, Americas), latest 200
- ICT Eye key statistics online and for free (http://www.itu.int/ITU-D/ict/statistics/)
- Requests through email, telephone, fax





Data Collection - Challenges Helping the World communicate



- Not all countries return the questionnaires
- Not all questions get answered
- More work to aggregate operators' data since market is more and more competitive
- Operators data or annual reports sometimes not available
- Newer telecom/ICT data hard to obtain from developing countries
- Some information collected does not meet the ITU definition

ITU Data Reporting: World Telecom/ICT Indications world communicate Database



Strengths:

- ➤ Based on annual questionnaire to national administrations and operators
- > Long time-series (1960 onwards), 2005
- Online updates (3 or 4 times per year)
- > Tracks around 100 indicators for 200+ economies
- ➤ Windows "STARS" based tool allows for easy data selection, mapping, cross-comparisons of data, etc

Weaknesses

- Based on economies NOT companies
- Presence of missing data due to partial reporting





ITU's WTI data are used extensively

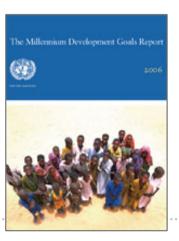


- By ITU member states
- By the UN System (MDG, World Bank)
- By the press, public& researchers



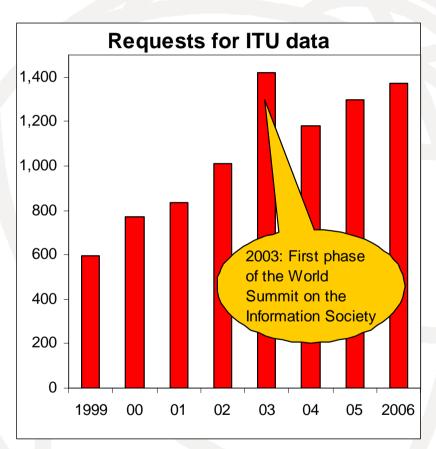


- By the private sector
- By ITU itself (analysis, benchmarking)





Demand for ITU statistics



Source: ITU 2007 ICT Opportunity Index

- Refers to requests received by email, only
- Request are mainly made by analysts, students and the press
- By 2005: 6 requests per (working) day, on average
- Number of requests is high despite availability of important statistics on our website
- Trend: number of requests are increasing
- WSIS raised awareness and increased demand for statistics



Household/individual survey data

- ITU is expanding from administrative data to survey data and from contacts with Ministries/regulators to NSOs
- Produces valuable information for policy makers and regulators: for this reason, regulatory authorities should be involved in the identification of indicators that the NSO could collect
- Annual ICT Household and individual questionnaire addressed to national statistical agencies
 - ➤ To collect statistics on access to and use of ICTs by household and individuals
 - Collection started in 2005
- Last collection February 2007 (results by June 2007)
- Limited availability not many developing countries collect data using official survey
- Part of the Partnership on Measuring ICT for Development project



Events (organize by ITU, or with partners)

- Country capacity building workshops
- Regional workshops
- Global meetings



March 2002 - Indonesia Case Study (ITU)

Recommendations

- 1. BPS and POSTEL jointly develop an online ICT statistical system
 - Including operator level data
 - Country level data
 - Provincial level data
- 2. Recommended that BPS include a number of questions about ICT equipment ownership in HH surveys
- Surveys to obtain information on e-commerce, ICT human resource situation, ICT usage in education, etc.

Benefits - Who gets what? Helping the world communicate



- Operators have access to national and regional telecommunication trends
 - Track market position and potential
 - > International benchmarking exercises
- Regulators/ministries receive (national & regional) overview
 - > Identify trends and benchmark results
 - Make informed policy decisions
 - Make regional/international comparisons
- Public is informed on trends and services
- Investors identify new market opportunities
- ITU fulfills its commitment with regard to monitoring and analysing the digital divide

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World Telecommunication/ICT Indicators meeting

- Has been taking place regularly since 1996
- Intended for Ministries, regulatory agencies, telecom companies and national statistical offices
- To be held in Geneva, 13-15 December 2007
- Themes:
 - community access indicators
 - > new telecommunication/ICT indicators
 - > ITU single index (to measure countries' progress towards becoming information societies)

WEBSITE:

http://www.itu.int/ITU-D/ict/wict07/agenda/index.html



Thank You

For further information, contact: esperanza.magpantay[at]itu.int and visit www.itu.int/ict