SOURCE: STAT, ITU

TITLE: ITU statistics work

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

ITU statistics

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ITU Statistical work: Why?

- ITU as UN specialized agency, produces and disseminates statistics covering its sector
  - ----> global statistical system of the UN

- PP06 (Antalya): Resolution 131
  "instructs the Director of BDT to promote the adoption and regular reporting to ITU of community connectivity indicators… to promote an index…to cooperate with international bodies particularly the Partnership on Measuring ICT for Development…to work on the development of community connectivity indicators and forward the results on an annual basis"

- WSIS Geneva Plan of Action (para 28)
  called for "A realistic international performance evaluation and benchmarking … through comparable statistical indicators…All countries and regions should develop tools so as to provide statistical information on the Information Society……"
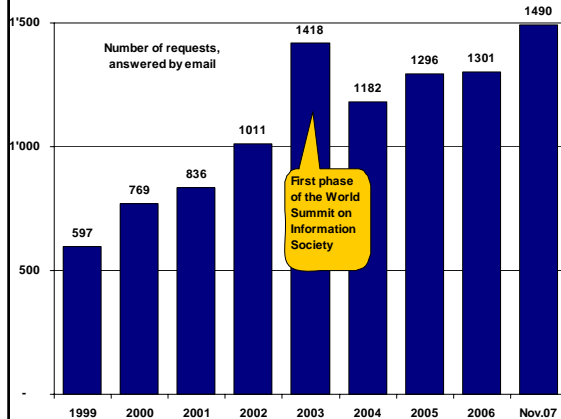
WTDC06 (Rev.Doha): Resolution 8

"resolves to instruct the Director to...

➢ *continue to survey countries and produce world and regional reports*

➢ *encourage countries to collect information illustrating national digital divides*

➢ *further develop and improve benchmarking efforts, including the ICT Opportunity Index*

➢ *participate in the establishment of core indicators to measure efforts to build the information society*

➢ *provide technical assistance for the development of telecom databases containing statistical information*

➢ *develop training material and conduct specialized training courses on information society statistics for developing countries*

➢ *cooperate with relevant international bodies involved in the collection and dissemination of ICT-related information and statistics*

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Demand for ITU statistics

Number of requests, answered by email

| | 597 | 769 | 836 | 1011 | 1418 | 1182 | 1296 | 1301 | 1490 |

1999 2000 2001 2002 2003 2004 2005 2006 Nov.07

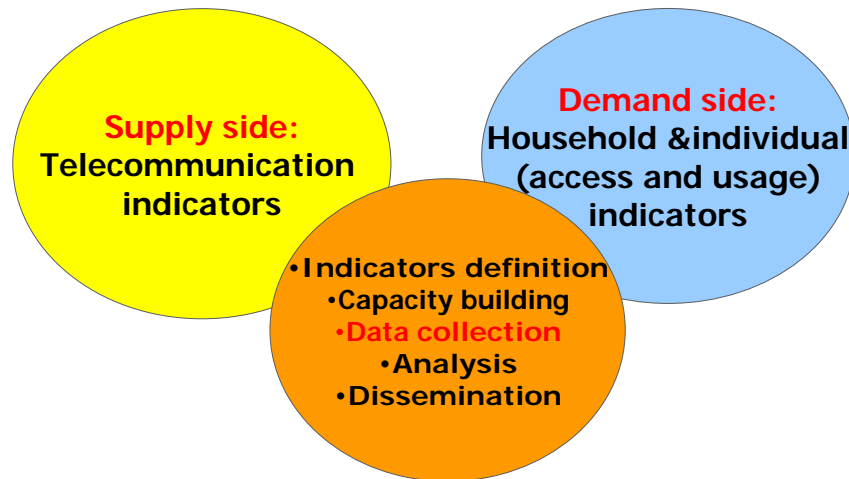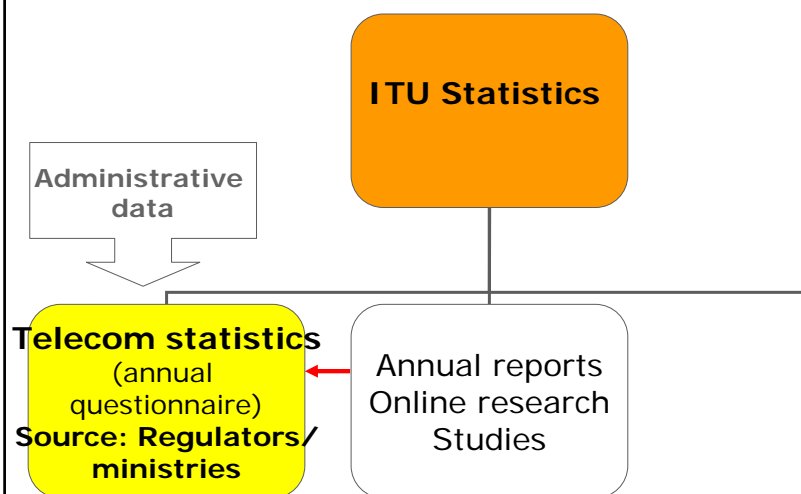First phase of the World Summit on Information Society

Source: ITU

- Requests answered by email only
- Increase in demand
- Request are mainly made by analysts, students and the press
- Average requests for 2007: 135 per month
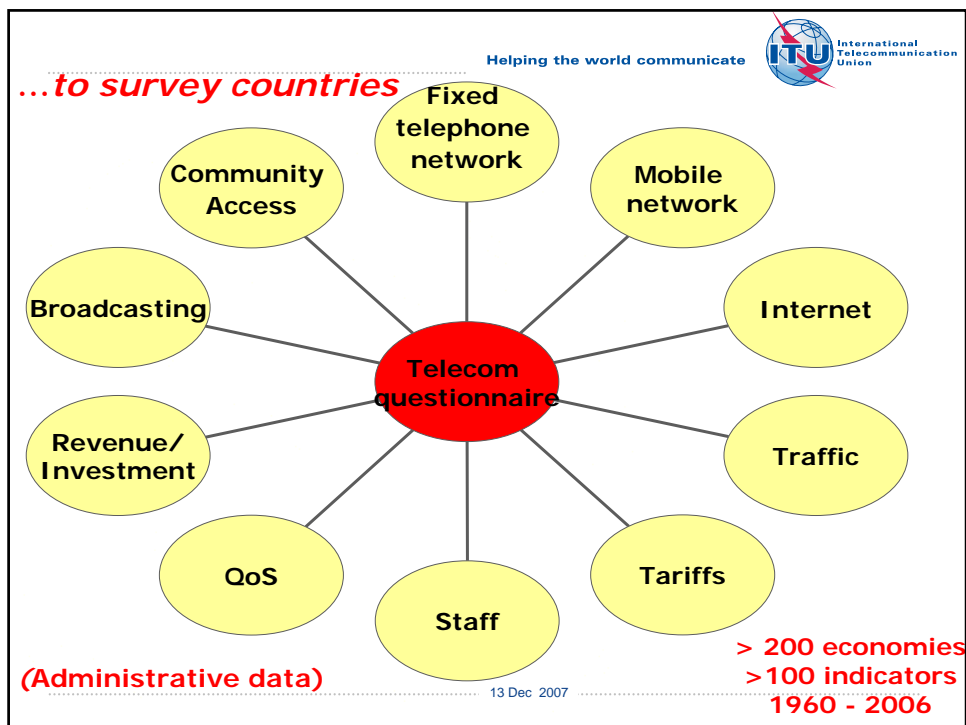- Number of requests is still high despite availability of important statistics on our website

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...*to survey countries*

Fixed telephone network

Community Access

Mobile network

Broadcasting

Internet

Telecom questionnaire

Revenue/ Investment

Traffic

QoS

Tariffs

Staff

(Administrative data)

13 Dec 2007

> 200 economies
>100 indicators
1960 - 2006

Helping the world communicate

International Telecommunication Union

Helping the world communicate

International Telecommunication Union

...to survey countries

1. Data collection tool - online survey

- The <u>ICT "eye"</u> , a unified system that compiles all databases of the ITU Development Bureau that enables users to track the development and use of ICTs, and measures efforts toward the information society.

2. Dissemination:

- A user-friendly website that provides information including ICT <u>indicators and statistics</u>, <u>regulatory and policy profiles</u>, national <u>tariff policies</u>, <u>operator information</u>, <u>financial and scientific institutions.</u>

- Country profiles and indicator reports

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Challenges:

Administrative data - (telecom statistics)

❑ 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 published

❑ Newer telecom/ICT data hard to obtain from developing countries

❑ Some information collected does not meet the ITU definition

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Administrative data: use & limits

CAN

- Track market trends, service uptake and market opportunities
- International benchmarking: ICT Opportunity Index
- Identify and measure the digital divide
- Inform policy makers

CANNOT

- Administrative data are limited mainly to 'access'
- Who is actually using ICTs, where, why (not): = limits to the understanding of the digital divide
- Limits in terms of policy making
- Measure impact of ICTs

...to survey countries

Household/individual survey data

- ITU is expanding from administrative data to survey data and from contacts with Ministries/regulators to National Statistical Offices

- 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

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... Cooperate with relevant international bodies involved in the collection and dissemination
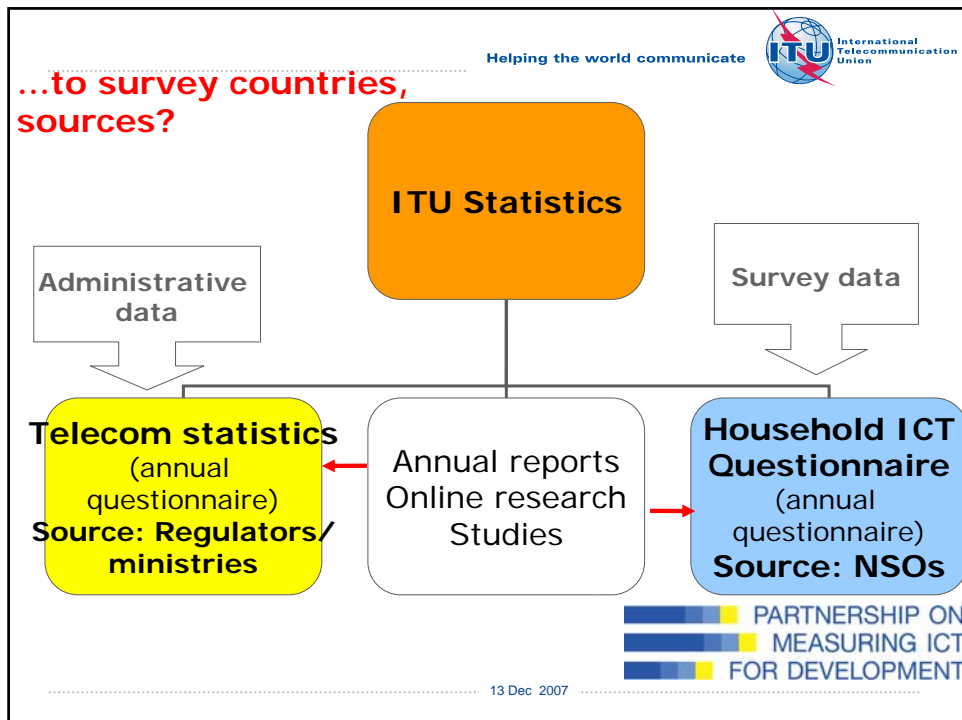*...participate in the establishment of core indicators*

CORE ICT INDICATORS

PARTNERSHIP ON MEASURING ICT FOR DEVELOPMENT

1. Analyse the availability of internationally comparable ICT statistics and identify a common set of ICT indicators

2. Assist developing countries in producing ICT statistics by enhancing capacity of National Statistical Offices and by providing methodologies

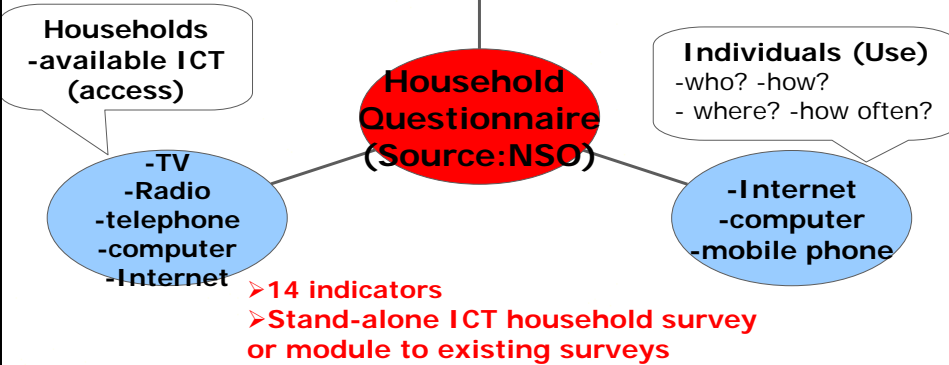3. Set up a global database for ICT indicators

...to survey countries, sources?

ITU Statistics

Administrative data

Survey data

Telecom statistics
(annual questionnaire)
Source: Regulators/ ministries

Annual reports
Online research
Studies

Household ICT Questionnaire
(annual questionnaire)
Source: NSOs

PARTNERSHIP ON
MEASURING ICT
FOR DEVELOPMENT

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Survey data

- Part of the *Partnership on Measuring ICT for Development*
- Annual ICT household and individual questionnaire addressed to all national statistical offices
  - To collect statistics on access to and use of ICTs by households and individuals
  - Data collection started in 2003

- Last data collection February 2007 (results by end 2007)

- Data mainly on <u>availability of ICTs</u> in households

- Also collected data on <u>usage of ICTs</u> by individuals,
  - by age, gender, educational attainment, employment status, etc.

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Challenges – (Survey data)

- Limited availability – not many developing countries collect data using official survey

- Most countries collect access indicators only (availability of computer, Internet and telephone)

- Very few developing countries use the Core List of ICT Indicators

- Limited comparability of data collected
  - ➢ Differences in categories used by different countries

- Lack of continuity of data collection

- Data not representative

- Lack of metadata to support statistics

- Disaggregated data not available

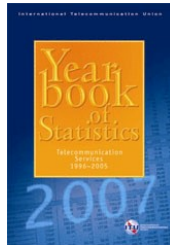*...develop training materials*

...provide technical assistance

- Materials
  - ITU Manual on household and individual ICT statistics (to be available from March 2008)
  - ITU Handbook of Telecommunication indicators
- Country capacity building workshops (Indonesia)
- Regional workshops
- Global meetings
  - World Telecom/ICT Indicators meeting
  - Global meeting of the Partnership on Measuring ICT for Development

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...further develop and improve benchmarking efforts, including the...

ITU's ICT Opportunity Index

- Latest update in February 2007
- 183 countries, five years (2001-2005), 10 indicators:
  - <u>Networks</u>: fixed telephone lines, mobile subscribers, international internet bandwidth
  - <u>Skills</u>: adult literacy, gross school enrolment rates (UNESCO)
  - <u>Uptake</u>: internet users, households with a TV, PCs,
  - <u>Intensity</u>: broadband internet subscribers, international outgoing telephone traffic

- The benchmarking exercise provides cross-country comparisons
- Helps track the digital divide
- Highlights relative movements and progress of countries, over time and in terms of the different ICT areas
- Provides an analytical tool for national/regional/ international analysis and case studies

To be presented and discussed during the Single Index session of the meeting

... *produce world and regional reports*

o **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)
o **Regional Telecommunication Indicators reports** (Africa, Asia-Pacific, Americas), latest 200
o **ICT Eye** – key statistics online and for free (http://www.itu.int/ITU-D/ict/statistics/)
o **Requests** through email, telephone, fax

Main Points:

1. Coordination among agencies dealing with ICT issues (clear definition of roles)

   ✓ Ministry, regulator (identifying indicator needs)

   ✓ National statistics office (survey implementation)

2. Use ITU Indicator manual and handbook in collecting ICT statistics for comparability of results

   • Core list of ICT indicators

   • ITU Telecom Indicators handbook

3. Disseminate timely and transparent telecom/ICT statistics

Thank You

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