

### TELECOMMUNICATION DEVELOPMENT BUREAU

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TITLE: Revision of ICT Infrastructure and Access Indicators

7th World Telecommunication/ICT Indicators Meeting Grand Hyatt Hotel, Cairo, Egypt 3-5 March 2009

# Revision of ICT Infrastructure and Access Indicators

Esperanza C. Magpantay
Statistician

Market Information and Statistics Division (STAT)

Telecommunication Development Bureau
International Telecommunication Union

International Telecommunication
Union

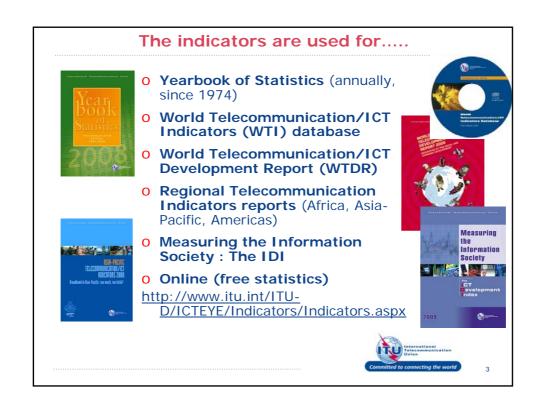
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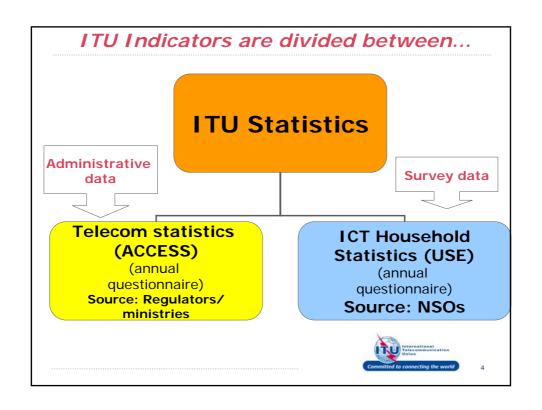
#### **Background**

WTDC06 (Rev.Doha): Resolution 8

- Collection and dissemination of telecom/ICT statistics (infrastructure and access, ICT households)
- Setting standards (<u>definitions</u>, manuals)
- Analysis (global, regional, thematic)
- Cooperation (UNSD, MDG, <u>Partnership</u> on Measuring ICT for Development, etc.)
- Technical assistance (NSOs, regulators/ministries)

International Telecommunication Union





#### **Telecommunication Indicators Handbook**

- Version 1 released in 1996
- Second update in WTI meeting 2005
- Third update in WTI meeting 2007
- Available online
- http://www.itu.int/ITU-D/ict/material/Top50.doc





5

#### **Guidelines**

- International comparability: Trade-off between wish list (everything!) and most important and most likely to collect from most countries
- Telecom/ICT sector mandate: Subscriber, usage and revenue statistics
- Audience: Analysts, governments, statisticians, etc



### **Categories of Telecom Indicators**

- Telephone network
- Mobile cellular services
- Data Services
- Quality of service
- Traffic
- Tariffs
- Staff
- Revenue
- Investment
- Broadcasting



7

### Revisions (2009)

- 1. Indicators renamed
- 2. New indicators added to the list
- 3. Definition of indicators updated
- 4. Other information related to the collection of the data added



### 1. Indicators renamed

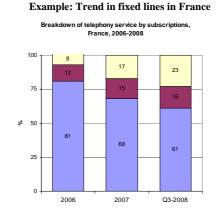
- Indicators: subscribers changed to subscriptions
  - ➤ Mobile cellular telephone subscriptions
    - Mobile cellular subscriptions: Prepaid
  - ➤ Mobile broadband subscriptions
- Reasons:
  - ➤ Operators count SIM cards, NOT subscriber (person)
  - Mobile cellular telephone penetration exceeding 100 (double counting)



9

### Is fixed telephone lines really decreasing...???

- ISDN decreasing
- Public payphones decreasing
- Fixed-to-Mobile substitution
- Unbundling of fixed lines
- DSL subscription increasing
- IP lines increasing
- How these affect fixed telephone lines statistics?



■ Fixed lines ■ Fixed lines and IP □ IP (DSL,cable)



## 2. New indicators to be added: for discussion

- Domestic bandwidth
- (Vo)IP indicators
  - **Subscribers**
  - ➤ Traffic (national, international, calls to mobiles)
  - Revenues (access, subscriptions, calls)



11

### 3. Definition of indicators updated

- <u>Fixed</u> telephone lines indicator (include public payphones)
- <u>Mobile</u> cellular telephone indicators (subscriptions)
- Mobile <u>tariff</u> indicators (on-net, off-net, fixed)
- Fixed <u>broadband</u> indicators (include fttx)
- Mobile broadband indicators (OECD definition)
- Estimated <u>Internet users</u> (use %s as reported in surveys)



#### Internet users: 2 indicators

- 1. Estimated Internet user
  - a. When a country has no ICT survey: estimated based on the number of total fixed Internet subscribers multiplied by a multiplier (usually 3)
  - b. When a country has an ICT survey: use the <u>%</u> of Internet user reported in the survey and apply to population of the country.
    - To be consistent to the Internet penetration reported by the country
    - Should indicate in a note the scope and age group covered by the survey

- 2. (Actual) Internet user
  - Collected using an ICT household survey
  - Reflects the actual usage of Internet in the country
  - ✓ Will eventually replace the "estimated Internet user" indicator mentioned in (1).



13

## 4. Other information related to the collection of the data added

- Whether to include in ITU "Short" or "Long" questionnaire
- Explanation why an indicator is not to be included in the ITU data collection



	Example: MOBILE CELLULAR NETWORK indicators				
	ITU code	Indicator	Definition		
8	271	Mobile cellular telephone subscriptions (post-paid + prepaid)	Refers to users of portable telephones subscribing to an automatic public mobile telephone service that provides access to the Public Switched Telephone Network (PSTN) using cellular technology. This can include analogue and digital cellular systems but should not include non-cellular systems. This should also include subscriptions to IMT-2000 (3G) high-speed mobile networks (i271G). Subscriptions to public mobile data services or radio paging services should not be included. If this service has a name, please indicate in a note as well as the year the service commenced operation.		
8.1	271p	Mobile cellular subscriptions: prepaid	Total number of mobile cellular subscriptions using prepaid cards. These are subscriptions that rather than paying a fixed monthly subscription fee, choose to purchase blocks of usage time. Only active prepaid subscriptions that have used the system within a reasonable period of time should be included. This period (e.g., 3 months) should be indicated in a note.		
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### **Example: Additional information**

ITU code	Revision in definition?	To be collected by ITU?		
		Short Questionnaire	Long Questionnaire	
271	Yes	Yes	Yes	
271p	Yes	Yes	Yes	



### **Challenges**

- Too many indicators to consider for data collection
- Fast changing telecom/ICT services and technologies that need to be reflected regularly in the list and definition of indicators
- Need to harmonize definition that can be used by majority of countries
- Need to know whether countries are collecting or able to collect the data for the indicators
- Whether ITU definitions can be interpreted correctly at country level
- Others.....



17

## Expert Group on ITU Telecommunication/ICT Indicators (EGTI)

- Invitations to join will be sent to all WTI meeting participants and to all member states
- The EGTI should <u>include</u> national experts, engineers, analysts and statisticians who know the technologies and the indicators that need to be collected
- The EGTI should be <u>lead</u> by an individual (chair) who will ensure that the work is done on time and according to ITU requirements
- The EGTI chair <u>will report</u> to every WTI meeting on the progress made by the group. He/she will also make suggestions on revisions necessary to the current list of indicators
- The EGTI may need to meet in person to discuss the work that needs to be done, before each WTI meeting
- The <u>ToR</u> of the EGTI will be discussed and finalized once the group is formed

### **Suggestions:**

- 1. Discuss revisions to ITU Telecom indicators
- Create an Expert Group on ITU Telecom/ICT Indicators
- 3. Create an online discussion forum on ITU Telecom Indicators
- 4. Finalize the list of indicators and definition, during first quarter 2010
- 5. Print the final list of indicators and send to national contacts
- 6. Use the final list of indicators for 2010 ITU "Long" questionnaire/data collection



10

### Thank you.

For further information, contact: <a href="magpantay">magpantay[at]itu.int</a>

visit www.itu.int/ict

