ITU Multi-Country Workshop for National Focal Points on ICT Indicators and Measurements

Nay Pyi Taw, Myanmar
15-18 March 2016

Overview of ITU work on ICT measurement

Esperanza Magpantay
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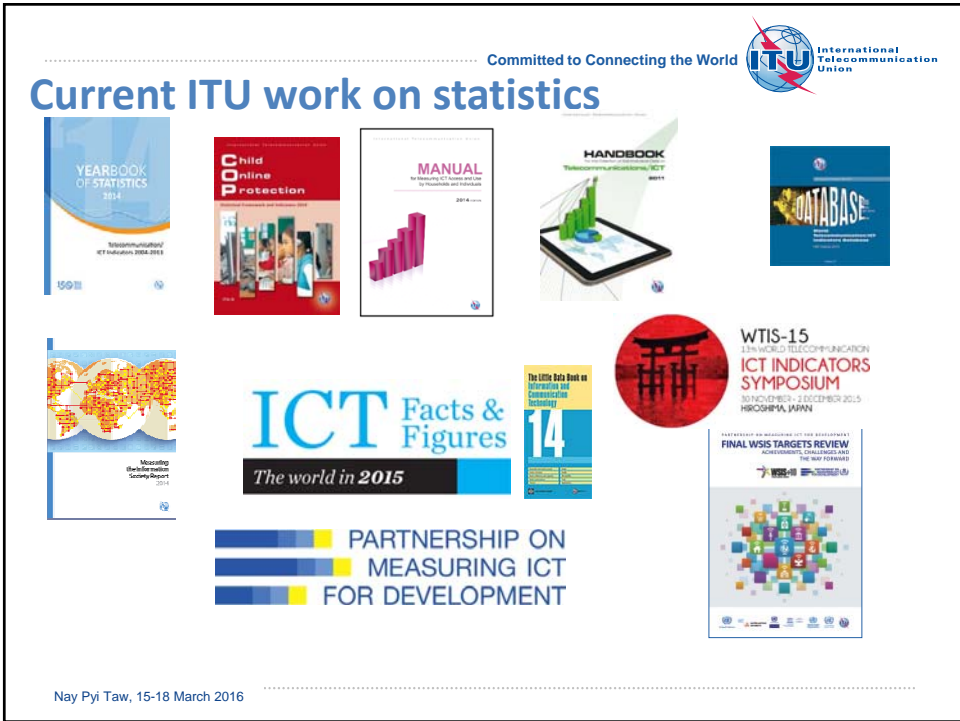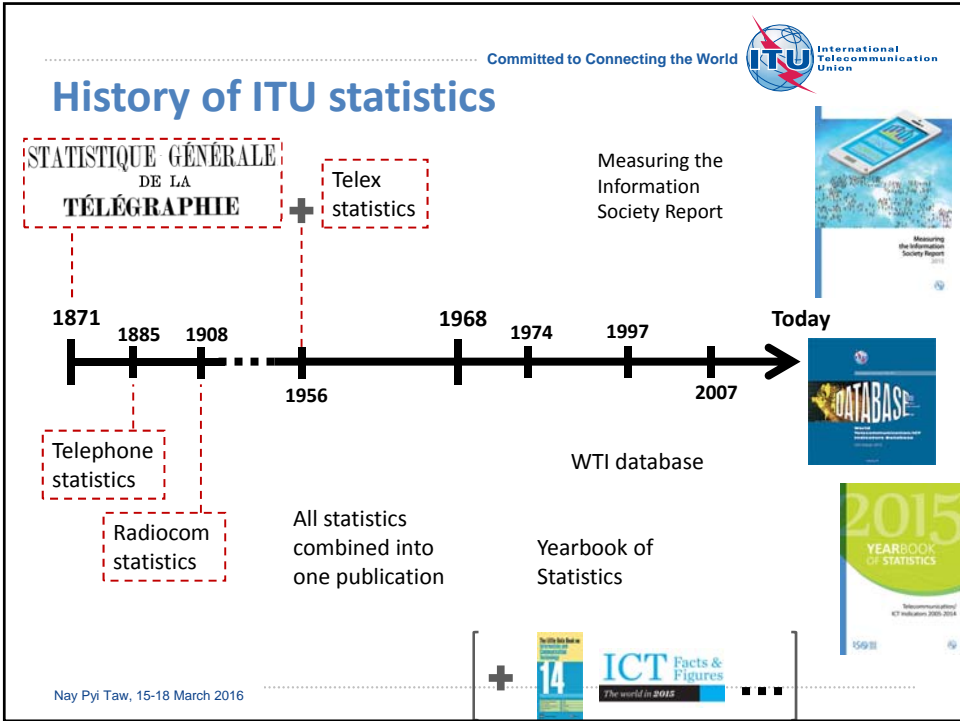International Telecommunication Union
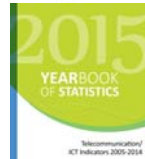

Importance of ICT statistics

National

- ➤ Overall monitoring of ICT developments
- ➤ Market analysis to inform regulatory/policy interventions
- ➤ Tracking of regulatory measures, e.g. licence obligations
- ➤ Monitoring of national ICT goals, e.g. broadband plans

International

- ➤ Benchmarking national vs international ICT developments
- ➤ Monitor global ICT development targets, e.g. Broadband Commission targets, WSIS+10, SDGs
- ➤ Informing private investors (e.g. to attract FDI), international cooperation programmes, donors, the media

History of ITU statistics

STATISTIQUE GÉNÉRALE DE LA **TÉLÉGRAPHIE**

+ Telex statistics

Measuring the Information Society Report

1871	1885	1908		1968	1974	1997	Today

1956

2007

Telephone statistics

Radiocom statistics

All statistics combined into one publication

WTI database

Yearbook of Statistics

+ ICT Facts & Figures The world in 2015

Current ITU work on statistics

YEARBOOK OF STATISTICS 2014

Child Online Protection

MANUAL for Measuring ICT Access and Use by Households and Individuals 2014

HANDBOOK Telecommunications/ICT

DATABASE

WTIS-15
13th WORLD TELECOMMUNICATION
ICT INDICATORS SYMPOSIUM
30 NOVEMBER - 2 DECEMBER 2015
HIROSHIMA, JAPAN

FINAL WSIS TARGETS REVIEW

ICT Facts & Figures The world in 2015

PARTNERSHIP ON MEASURING ICT FOR DEVELOPMENT
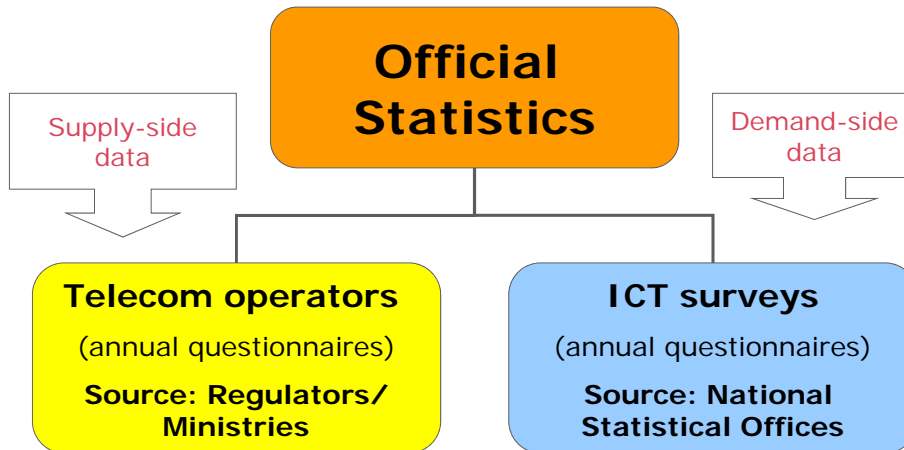
Benchmarking ICT developments

— Data quality – authoritative sources

— Credible methodology
  → Harmonization through Expert Groups

— Only global source of official ICT statistics – about 190 economies

— Historical series – annual data from 1975 - present

— Relied upon by:
  → Private sector
  → Development banks
  → International organizations

Current ITU work on statistics

1. Data collection and dissemination
2. Data analysis and research reports
3. Monitoring global ICT targets
4. Definitions and methodologies for ICT indicators
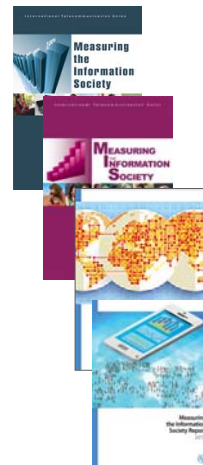5. Capacity development
6. International cooperation

1. Data collection - Sources for ITU statistics

Official Statistics

Supply-side data

Demand-side data

Telecom operators

(annual questionnaires)

Source: Regulators/ Ministries

ICT surveys

(annual questionnaires)

Source: National Statistical Offices

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2. Analysis: Measuring the Information Society Report

— Flagship annual statistical and analytical report on ICT developments

— Includes two key benchmarking tools:
  → ICT Development Index (IDI)
  → ICT Price Basket (IPB)

— For governments/policy makers, analysts, investors, the media

— MIS Report 2015:
  → Launched on **30th November 2015**
  → Featured topics: IDI, IPB, Connect 2020 Targets and the Internet of Things
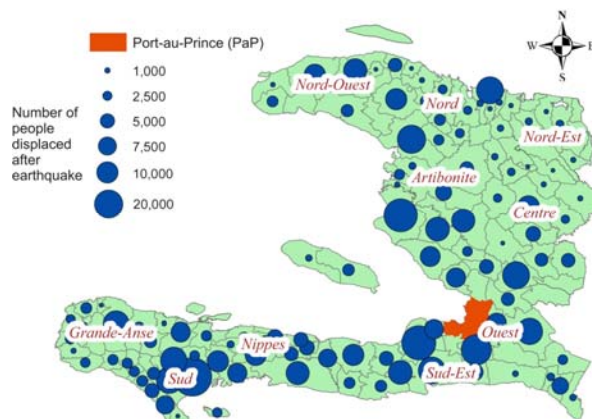
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3. Emerging trend: **Big data**

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- Session in WTIS 2013, 2015
- Comprehensive review of «Big data in telecommunication» in MIS Report 2014
- UNSC Working Group on Big Data for Official Statistics
- Link to post 2015 development agenda and call for *data revolution*
- Development of Big Data Strategy for ITU
- Major topic at WTIS 2015
- In partnership with private sector, etc
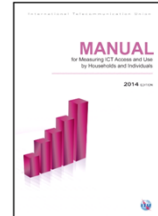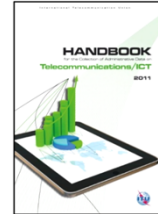
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3. Emerging challenges – Big Data

Example

Mobile data in emergencies

Source: Bengtsson et al. (2011)

Port-au-Prince (PaP)

Number of people displaced after earthquake
- 1,000
- 2,500
- 5,000
- 7,500
- 10,000
- 20,000

4. Defining indicators and developing statistical standards

- ITU Expert Group on Telecommunication/ICT Indicators (EGTI); **ITU Handbook**

- ITU Expert Group on Household Indicators (EGH); **ITU Manual**

- World Telecommunication/ ICT Indicators Symposium (WTIS)

- In cooperation with members of Partnership on Measuring ICT for Development

You are invited to participate in EGTI and EGH, information at indicators@itu.int

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5. Capacity development

- Training course (5 days) on ICT household surveys and indicators (based on Household Manual)

- Training on telecommunication/ICT infrastructure indicators and data collection

- Regional, sub-regional and national workshops – such as this one

- In collaboration with members of the Partnership (e.g. UNCTAD, UN Regional Commissions)

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World Telecommunication/ICT Indicators Symposium (WTIS)

- □ Main global event on ICT measurement – bringing together the ICT policy and ICT data community
- □ Presentation of the work of the statistical Expert Groups (EGH/EGTI)
- □ Launch of the ICT Development Index

- □ 21 - 24 November 2016, Botswana

www.itu.int/en/ITU-D/Statistics/Pages/events/wtis2015

Why is WTIS important?

Regulators
- ➢ Main collectors of data from operators
- ➢ Need to benchmark ICT developments internationally
- ➢ Keep up with emerging trends, *e.g. monitoring IoT*

Policy makers
- ➢ Require ICT data, *e.g. for setting national targets*
- ➢ Evidenced-based policy-making relies on sound statistics
- ➢ Attracting private investment requires authoritative data

National statistical offices
- ➢ Produce ICT data from household surveys
- ➢ Oversee the statistical soundness of national data

National coordination of ICT statistics

6. International cooperation

— Partnership on Measuring ICT for Development

— World Summit for the Information Society (WSIS)

— Inter-agency Expert Group on Sustainable Development Goal Indicators (IAEG-SDGs)

— UN Statistical Commission

— UN Data Managers group

— UN Data Catalog

— Broadband Commission for Digital Development

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Partnership on Measuring ICT for Development

□ Global initiative to improve internationally comparable ICT statistics

□ Main mechanism for the coordination of ICT statistics internationally (Steering Committee, Task Groups)

□ Members: international and regional agencies involved in official ICT statistics

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THANK YOU

More information

http://www.itu.int/ict