ITU’s work on ICT measurement

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Martin Schaaper
Senior ICT Analyst
ICT Data and Statistics Division
Telecommunication Development Bureau
International Telecommunication Union
Official ICT Statistics

Infrastructure
Telecom operators
(two annual questionnaires)

Source: Regulators/Ministries

Prices
Telecom operators
(annual questionnaire and directly from operators’ websites)

Source: Regulators/Ministries

Household access and use
Household surveys
(two annual questionnaires)

Source: National Statistical Offices
ICT Infrastructure and Telecommunication

Indicators (examples):

- Mobile network coverage (≈ 130-140 countries)
- Broadband subscriptions (mobile and fixed) (≈ 140-160 countries)
- Fixed broadband by speed (≈ 120 countries)
- Internet traffic (≈ 50-80 countries)

New indicators in 2018:

- Fixed network coverage by technology and residential/non-residential
- Additional speed tiers for measuring the advertised speed of fixed broadband subscriptions (above 10 Mbit/s)
Committed to Connecting the World

Geneva, 3 October 2017

Prices for ICT services

Broadband Commission target 2:

*By 2015, entry-level broadband services should be made affordable in developing countries through adequate regulation and market forces (amounting to less than 5% of average monthly income)*

Prices monitored through five price baskets (≈ 170-175 countries)

- Mobile broadband (Data & voice)
  - Low consumption
  - High consumption
- Mobile broadband (Data only)
- Mobile cellular (Voice)
- Fixed broadband
Access and use of ICTs by households and individuals

Indicators (examples):

- Households’ access to computer and Internet (≈ 110 countries)
- Individuals’ use of the Internet (≈ 100 countries; by activity ≈ 75 countries)
- ICT skills (≈ 60-70 countries)

New indicators in 2018:

- Four new indicators on E-commerce activities
  - Types of goods and services purchased online;
  - Mode of payment;
  - Barriers for not ordering online; and
  - Method of delivery
- New sub-categories on smartphone access, use and ownership
A decade of strong growth in ICTs

Note: * ITU estimates.
Source: ITU

Geneva, 3 October 2017
Mobile as the key driver of access
Mobile network coverage

Source: ITU
Geneva, 3 October 2017
Inequalities between countries

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Mobile broadband prices as a % of GNI p.c., 2016

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ICT divides, and barriers outside the ICT ecosystem

- **Education**
- **Income**
- **Gender**
- **Age**
- **Content**
- **Language**

Proportion of individuals using the Internet, by gender, 2017*

<table>
<thead>
<tr>
<th>Region</th>
<th>Male</th>
<th>Female</th>
</tr>
</thead>
<tbody>
<tr>
<td>Africa</td>
<td>18.6</td>
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<tr>
<td>Arab States</td>
<td>39.4</td>
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<tr>
<td>Asia &amp; Pacific</td>
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<tr>
<td>LDCs</td>
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<td>21.0</td>
</tr>
</tbody>
</table>

Note: * ITU estimates.
Source: ITU

Geneva, 3 October 2017
Big Data for Measuring the Information Society

Indicators (examples):
- Percentage of the Land Area Covered by Mobile-Cellular Network, by Technology
- Percentage of the Population Covered by a Mobile-Cellular Network, by Technology
- Usage of Mobile-Cellular Networks for non-IP Related Activities, by Technology
- Usage of Mobile-Cellular Networks for Internet Access, by Technology
- Number of Subscriptions with Access to Technology
- Active Mobile Voice and Broadband Subscriptions, by Contract Type
- Average Number of Active Mobile Subscriptions per Day, by Contract Type
- Active Mobile Devices
- IMEI Conversion Rate
- Fixed Domestic Broadband Traffic, by Speed, Contract Type
- Mobile Domestic Broadband Traffic, by Contract Type, Technology
- Mobile International Broadband Traffic, by Contract Type
- Inbound Roaming Subscriptions per Foreign Tourist
- Fixed Broadband Subscriptions, by Technology
- Fixed Broadband Subscriptions, by Speed
THANK YOU