



ITU Asia-Pacific Regional Forum on reshaping Policy and Regulatory Landscape for Accelarating Broadband Access

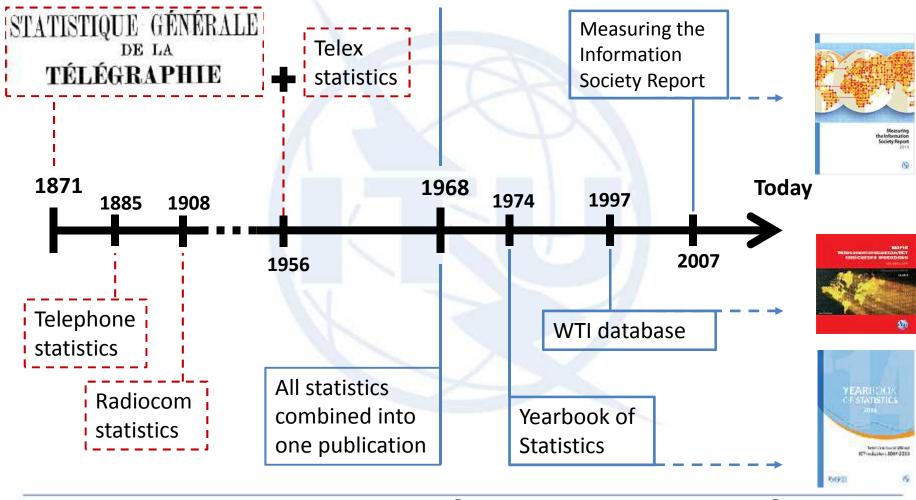
Jakarta, Indonesia 8-10 September 2015

Broadband Indicators

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ITU

History of ITU statistics











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, Post-2015
- Informing private investors (e.g. to attract FDI), international cooperation programmes, donors, the media





Benchmarking ICT developments



- High quality data 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









Sources for ITU statistics

1. Supply-side

data

Official Statistics

2. Demand-side data

Telecom operators

(annual questionnaires)

Source: Regulators/ Ministries ICT surveys

(annual questionnaires)

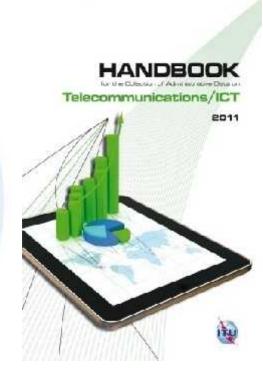
Source: National Statistical Offices





1. Supply Side - ITU Handbook

- Covers 81 indicators on telecommunication/ICT services
- Covers data collected from administrative sources (e.g. telecom operators)
 - Discussed in the ITU Expert Group on Telecom/ICT Indicators (EGTI)



Available at:

http://www.itu.int/pub/D-IND-ITC_IND_HBK-2011







ITU Handbook (cont.)

Groupings:

- Fixed-telephone networks
- Mobile-cellular networks
- Internet
- Traffic
- Prices
- Quality of service
- Persons employed
- Revenue
- Investment
- Public access
- Broadcasting and other indicators

- Definition
- Clarifications and scope
- Method of collection
- Relationship with other indicators
- Methodological issues
- Examples

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Broadband indicators – administrative sources

- 1. Subscriptions
 - a. Fixed-broadband
 - b. Active mobile-broadband
- 2. Traffic
- 3. Prices
 - a. Fixed-broadband
 - b. Active mobile-broadband

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1a. Fixed-broadband subscriptions

Main features:

advertised 256 kbit/s



Breakdowns:



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1b. Active mobile-broadband subscriptions Main features:

advertised 256 kbit/s





GPRS and EDGE excluded

active

- 1. Monthly fee paid only for Internet access
- 2. Accessed the Internet in the previous three months
- allows access to the open Internet

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2. Broadband - Traffic

- Data traffic
 - Fixed-broadband Internet traffic (exabytes)
 - Mobile-broadband Internet traffic (inside country)
 - Mobile-broadband Internet traffic (outside, roaming out)

Measured at the end-user access point Excl. walled-garden, wholesale traffic, IPTV/CATV



3a. Fixed-broadband prices

- Price of broadband entry plan in terms of the minimum speed of 256 kbit/s
- From operator with the largest market share (number of fixedbroadband subscriptions)
- Prices are collected for the fixed-broadband technology with the greatest number of subscriptions in the country (DSL, fibre, cable, etc.)

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Fixed broadband prices

- Fixed-broadband connection charge
- Fixed-broadband monthly subscription charge
- Fixed-broadband speed, in Mbit/s
- Fixed-broadband cap, in GB
- Fixed-broadband price of excess usage

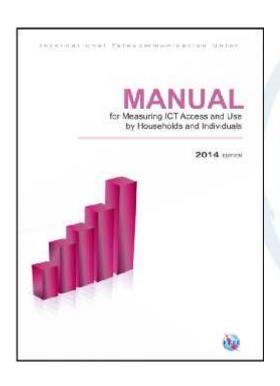


3b. Mobile-broadband prices

- Prices should be collected based on one of the following technologies: UMTS, HSPA family, LTE family, CDMA EV-DO family and mobile WiMAX (IEEE 802.16e and 802.16m)
- From operator with the largest market share (number of mobilebroadband subscriptions)
- Prices should be collected for both:
 - > a) handset-based mobile-broadband subscriptions and
 - b) computer-based mobile-broadband subscriptions
- Price data should be collected for the cheapest plan, with a data volume allowance of a minimum of:
 - > 1 GB for a USB/dongle (computer-based) subscription
 - > 500 MB for a handset-based subscription.

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2. Demand Side ITU Manual for Measuring ICT Access and Use by Households and Individuals, 2014 edition



- Main objective: to assist countries to measure ICT access and use by households and individuals
 - Production of high quality and internationally comparable data
 - Basis for delivery of training courses
 - Includes the revised core ICT household indicators
 - Available in 6 official UN languages





Core indicators on access to, and use of, ICT by households and individuals

HH1	Proportion of households with a radio					
HH2	Proportion of households with a television					
НН3	Proportion of households with telephone					
HH4	Proportion of households with a computer					
HH5	Proportion of individuals using a computer					
нн6	Proportion of households with Internet					
HH7	Proportion of individuals using the Internet					
HH8	Proportion of individuals using the Internet, by location					
НН9	Proportion of individuals using the Internet, by type of activity					
HH10	Proportion of individuals using a mobile cellular telephone					
HH11	Proportion of households with Internet, by type of service					
HH12	Proportion of individuals using the Internet, by frequency					
HH13	Proportion of households with multichannel television, by type					
HH14	Barriers to household Internet access					
HH15	Individuals with ICT skills, by type of skills					
HH16	Household expenditure on ICT					





HH11. Percentage of households with Internet, by type of service

The Internet is a worldwide public computer network. It provides access to a number of communication services including the World Wide Web and carries e-mail, news, entertainment and data files, irrespective of the device used (not assumed to be only via a computer – it may also be by mobile telephone, tablet, PDA, games machine, digital TV etc.). Access can be via a fixed or mobile network.

The broad types of Internet services to be identified are the following:

- Fixed (wired) narrowband network: includes analogue modem (dial-up via standard telephone line), ISDN (Integrated Services Digital Network), DSL (Digital Subscriber Line) at advertised download speeds below 256 kbit/s, and other forms of access with an advertised download speed of less than 256 kbit/s
- Fixed (wired) broadband network: refers to technologies at advertised download speeds of at least 256 kbit/s, such as DSL, cable modem, high speed leased lines, fibre-to-the-home/building, powerline and other fixed (wired) broadband
- Terrestrial fixed (wireless) broadband network: refers to technologies at advertised download speeds of at least 256 kbit/s, such as WiMAX, fixed CDMA
- Satellite broadband network (via a satellite connection) at advertised download speeds of at least 256 kbit/s
- Mobile broadband network (at least 3G, e.g. UMTS) via a handset
- Mobile broadband network via a card (e.g. integrated SIM card in a computer) or USB modem

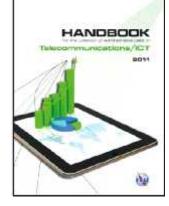






ITU Expert Group on Telecommunication/ICT Indicators (EGTI) – operator data, ITU Handbook

ITU Expert Group on Household Indicators (EGH) – ICT household data, ITU Manual



September 2015

Gunday	Monday	Tuesday	Wednesday		1000	Saturday	
		1	2	3	4	5	
6 7 13 14	7	8	9	10	11	19	EGTI meeting
	14	15					
20	21 22 23 24 25	26	meeting				
27	28	29	30				
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You are invited to participate in EGTI and EGH, information at indicators@itu.int

Invitation to World Telecommunication/ICT Indicators Symposium (WTIS)

- 30 November 2 December 2015,
 Hiroshima, Japan
- 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









THANK YOU

More information

http://www.itu.int/ict



