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## Key Telecom/ICT Indicators

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## Background



- ITU Constitution, Article 1, Provision 18: Collect and publish information concerning telecommunication matters
- ITU published *Yearbook of Statistics* based on ITU-T Recommendation C.1 until 1996
- Yearbook transferred to BDT and based on *Telecommunication Indicator Handbook*
- Updated last 2003 WTIM in light of latest developments
- Available online  
<http://www.itu.int/ITU-D/ict/material/Top50.doc>



## Guidelines



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

## Categories of Indicators



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

## Legend



- Indicators in Black – Adopted in 2003 WTIM
- *Indicators in Italics* – sub-category
- Indicators in Blue – New indicators
- Indicators in Red – Basic access and Infrastructure core indicators (adopted during 7-9 February meeting)

## Telephone network



1	Main (fixed) telephone lines in operation
1.1	<i>PSTN Access lines</i>
	<i>ISDN voice channel equivalents (see indicator 19.3)</i>
2	Total capacity of local public switching exchanges
3	Percent of main lines connected to digital exchanges
4	Percent of main lines which are for residential use
5	Percent of main lines in urban areas
6	Number of localities with telephone service
7	Public pay phones

## Mobile cellular indicators



8	<b>Mobile cellular telephone subscribers</b>
8.1	Mobile cellular subscribers: prepaid
9	Digital mobile cellular subscribers
9.1	<b>High-speed mobile subscribers</b>
9.1.1	<b>GPRS subscribers</b>
9.1.2	<b>CDMA2000 1x subscribers</b>
9.1.3	<b>WCDMA subscribers</b>
9.1.4	<b>CDMA2000 EV-DO subscribers</b>
9.2	<b>SMS users</b>
10	Mobile <i>multimedia</i> subscribers/users*
10.1	<b>MMS users</b>
10.2	<b>WAP users</b>
10.3	<b>Mobile Internet users (i.e., accessing Internet from PC using mobile network)</b>
11.1	Percent coverage of mobile cellular network (land area)
11.2	<b>Percent coverage of mobile cellular network (population)</b> Disaggregated by network (e.g., 1G, 2G, 3G?)

\* If subscribers, then should only include those using in last month.

## Data services



12	Telex subscriber lines
13	Private leased circuits
14	Total subscribers to public data networks
15	<b>Internet subscribers</b>
15.1	<b>Dial-up subscribers</b>
15.2	<b>Broadband Internet subscribers</b>
15.2.1	<b>DSL subscribers</b>
15.2.2	<b>Cable modem subscribers</b>
15.2.3	<b>Other fixed broadband (FTTH, Fixed wireless, Ethernet LAN, satellite broadband) subscribers</b>
15.2.4	<b>Wireless broadband (Wireless LANs, WiMAX, FWA) subscribers</b>

## Data services (cont..)



16	Internet users
16.1	<i>% female Internet users</i>
16.2	<i>Female Internet users as % of female population</i>
18	Number of PWLAN locations “Hotspots”
19	ISDN subscribers
19.1	<i>Basic rate ISDN subscribers</i>
19.2	<i>Primary rate ISDN subscribers</i>
19.3	ISDN voice channel equivalents
29	<b>International Internet bandwidth</b>
29.1	<i>Outgoing</i>
29.2	<i>Incoming</i>

## Quality of Service



20	Waiting list for main lines
21	Faults per 100 main line per year
22	Percent of telephone faults cleared by next working day

## Traffic (minutes)



23	Local telephone traffic
23.1	<i>Fixed to mobile traffic</i>
23.2	<i>Internet Dial-up traffic</i>
24	National telephone traffic
25	International telephone traffic
25.1	<i>Outgoing</i>
25.2	<i>Incoming</i>
30	Public data traffic (non-Internet)

## Traffic - Mobile cellular indicators



27	Outgoing mobile minutes
27.1.1	<i>Outgoing/originating mobile minutes to same mobile network</i>
27.1.2	<i>Outgoing/originating mobile minutes to other mobile networks</i>
27.1.3	<i>Outgoing/originating mobile minutes to international</i>
27.1.4	<i>Roaming minutes out (own subscribers)</i>
27.1.5	<i>Outgoing mobile minutes to fixed networks</i>
27.2.1	<i>Incoming international minutes to mobile network</i>
27.2.2	<i>Incoming/terminating off-net minutes to mobile network</i>
27.2.4	<i>Roaming minutes in (foreign subscribers)</i>
27.3	SMS sent
27.4	<i>MMS sent</i>

## Tariffs



31	Fixed local telephone service tariffs
31.1	<i>Residential</i>
31.2	<i>Business</i>
32	National telephone call charges
33	International telephone call charges
34	<b>Mobile communications tariffs (pre-paid)</b>
34.1	<i>Mobile termination rate</i>
35	Leased line charges
36	Data communication charges
37	<b>Internet tariffs</b>

Connection, monthly subscription, per minute call charge (peak, off-peak, in local currency).

## Staff



38	Total full-time staff in telecommunication services
38.1	<i>Female staff</i>
38.2	<i>Mobile communications staff</i>

# Revenue



39	Total revenues from all telecommunication services
40	Revenues from telephone service
40.1	<i>Telephone connection charges</i>
40.2	<i>Telephone subscription charges</i>
40.3	<i>Local calls</i>
40.4	<i>National calls</i>
40.5	<i>International calls</i>
41	Revenues from data transmission
42	Revenue from leased lines
43	Revenue from mobile communications
43.1	<i>Mobile data revenues</i>
43.1.1	<i>Text and multimedia messaging revenues</i>
43.1.2	<i>Data transmission revenues</i>
44	Other revenues
45	Value-added from telecommunications

# Investment



46	Total annual telecom investment
46.1	<i>Mobile communications</i>
46.2	<i>Fixed telephone</i>
46.3	<i>Foreign</i>



## Community Access Indicators

47	<b>Percentage of localities with with PIACs by number of inhabitants (rural/urban)</b>
48	<b>Percentage of the population with access to a PIACs</b>
49	Number of villages with PIAC
50	Target population for DCC services
51	Total number of PIACs
51.1	<i>Total number of DCCs</i>
51.2	<i>Total number of other PIACs</i>
52	Total number of computers in DCCs
53	Actual DCC usage percentage

## Other Indicators

54	<b>Number of radio sets</b>
55	<b>Number of TV sets</b>
56	Homes passed by cable television
57	Direct to Home satellite antennas
58	<b>Number of Personal Computers</b>

## Core indicators for household and individuals (Survey data)



HH-1	Proportion of households with a radio :
HH-2	Proportion of households with a TV
HH-3	Proportion of households with a fixed line telephone
HH-4	Proportion of households with a mobile cellular telephone
HH-5	Proportion of households with a computer
HH-6	Proportion of individuals that used a computer
HH-7	Proportion of households with a Internet access at home
HH-8	Proportion of individuals that used the Internet
HH-9	Location of individual use of the Internet
HH-10	Internet activities undertaken by individual

## Value-added



### To Employees

- Salaries

### To Government

- Taxes

### To Suppliers of Capital

- Interest on loans
- Dividends
- Minority interests

### Re-investment

- Depreciation
- Retained profit



Thank you!  
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