

TELECOM DATA COLLECTION BY PTA

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Pakistan ICT Indicators Symposium

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Structure of the Presentation

- Importance of ICT indicators
- PTA's Role
- ICT indicators requirements and data sources
- ICT data Collection Methodology
 - ▣ PTA's ICT Indicators
- ICT data dissemination
- Challenges
- Way Forward

Importance of ICT indicators



- Accurate, meaningful and objective analysis of ICT indicators help governments to:
 - ▣ Design and evaluate ICT policies and strategies
 - ▣ *Country vs. region vs. world* comparison of ICT development
 - ▣ Devise means and ways to bridge the digital divide
- ICT data is the key parameter for investors to make their business decisions
- ICT indicators help monitor the progress towards becoming information societies.
- The growth and development of ICT require a continuous review of existing ICT indicators and their definitions.

ICT Data Collection Agencies in Pakistan



Ministry of Information Technology
& Telecom



Ministry of Planning
Development & Reform



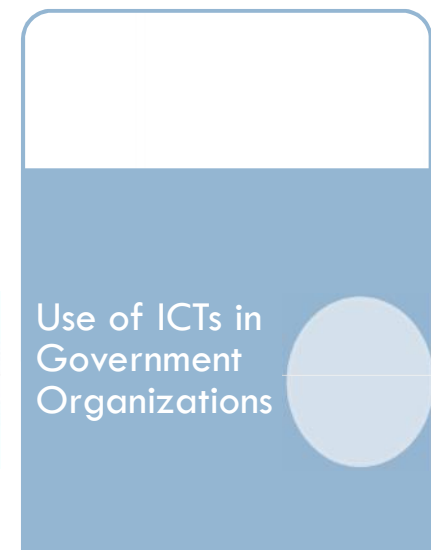
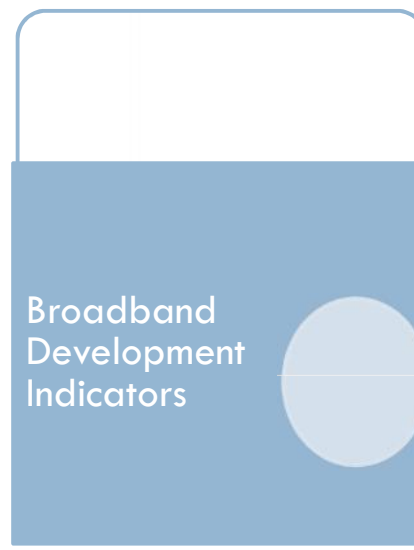
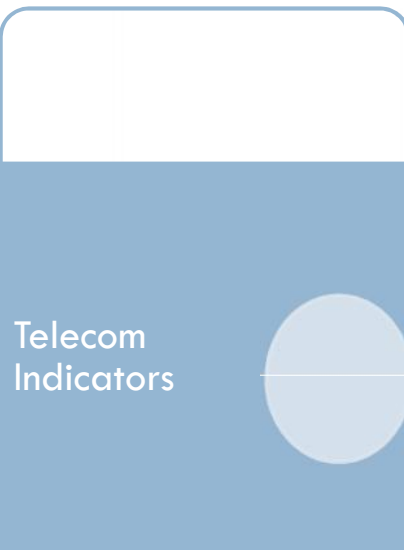
PEMRA
Pakistan Electronic Media
Regulatory Authority

- Market Research Organizations (BMI, Gallup, Ericsson Research Lab, etc)
- International organizations (ITU, GSMA, World Bank, etc.)

PTA's role

- PTA is the only Government entity for **primary** telecom data/indicators from telecom operators in Pakistan
- PTA collects data from various sources and disseminates compiled information to national and international bodies.
- To improve data collection, PTA coordinates with relevant stakeholders (MoIT, PBS, ITU, etc.)
- Reports/Publications
 - ▣ PTA Annual Report, Telecom Quarterly Review, Analytical reports on need basis
- Research and Market Analysis

ICT Data Requirements



Data Sources

Telecom Operators	Government Bodies	International Sources	Media reports
<ul style="list-style-type: none">• Cellular• Local Loop• LDIs• VAS	<ul style="list-style-type: none">• PBS• SBP• FBR• FAB• PEMRA• BOI• USF• PSEB	<ul style="list-style-type: none">• ITU• GSMA• International research firms (e.g. Dellote)	<ul style="list-style-type: none">• News• Blogs• Articles• Magazines

PTA's Data Collection Methodology

Indicators Collection

Regular data collection

- Quarterly and monthly data collection

On need basis

Indicators Review

Periodic review of existing data/indicators

- Requirement Analysis of new indicators

Industry Consultation

Assessment of local and international data requirements

- ITU Indicators
- National Assembly, Senate Questions
- SBP, PBS, Ministry of Finance

Consultation with PTA Divisions (In-house)

PTA Indicators

By Frequency

- Monthly (subscribers and data usage)
- Quarterly (detailed Prescribed format)
- As required

By Type of Data

- General Information
- Network Information
- Financial Information
- Traffic Information
- Quality of Service Information
- Mobile Financial Services Information
- Economic Indicators (investment, employment, revenues, contributions etc)
- Need based indicators

PTA Indicators (cont.)

- By Type of Operators

- For each CMO

- 57 indicators are collected at the end of each quarter

- For each FLL Operator

- 37 indicators are collected at the end of each quarter

- For each WLL Operator

- 26 indicators are collected at the end of each quarter

- For each BB Operator

- 30 indicators are collected at the end of each quarter

- For each LDI operator

- 30 indicators are collected at the end of each quarter

Example: General information from Mobile Operators

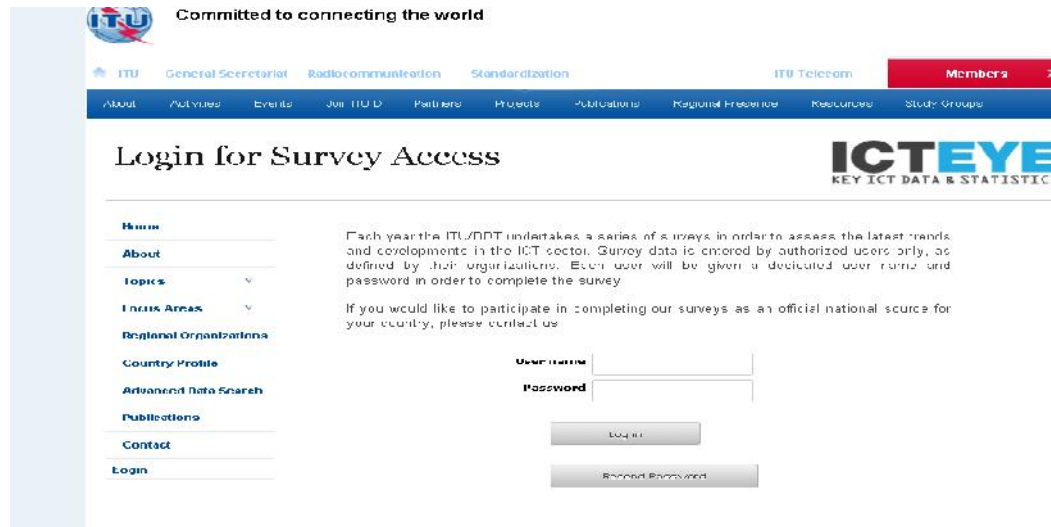
S. No.	Indicators
1	Cellular Mobile Subscribers (Active) Dimensions (2G; 3G, 4G) ; (pre-paid; post-paid)
2	No. of subscribers with mobile broadband enabled handsets /smartphones
3	Active cellular mobile internet subscriptions with downstream speed below 256 kbit/s
4	Active mobile-broadband subscriptions (3G; 4G)
4a	Active - standard mobile-broadband subscriptions (3G; 4G)
4b	Dedicated mobile-broadband subscriptions (3G; 4G)
5	Total Blackberry Subscribers
6	Total Mobile-cellular numbers ported
7	M2M mobile-network subscriptions
8	Total Employees
9	a. Full Time (Total; male, female)
10	b. Part Time /Contractual (Total; male, female)
11	Total Service Centers/Franchises
12	Number of International Interconnect Partners

Telecom Operators' Observations on Data Provisioning

- Confidentiality of Financial information
- Legal Limitations to data provision
- Technical difficulties in calculation of some indicators
- Compliance to various Government departments for data reporting
- Problems in measurement of geographical and gender-based data
- Requirement of immediate provision of urgent/ Top Priority information by Government

ICT Data Dissemination

- ❑ International Telecommunication Union (ITU)
 - ITU Telecommunication Regulatory Survey
 - ITU World Telecommunication/ICT Short Questionnaire
 - ITU World Telecommunication/ICT Long Questionnaire
 - ITU Price Basket Questionnaire



The screenshot shows the ITU website's 'Login for Survey Access' page. The header includes the ITU logo and the tagline 'Committed to connecting the world'. A navigation bar contains links for ITU, General Secretariat, Radiocommunication, Standardization, ITU Telecom, and Members. Below this is a secondary navigation bar with links for About, Activities, Events, Join ITU D, Partners, Projects, Publications, Regional Presence, Resources, and Study Groups. The main content area is titled 'Login for Survey Access' and features the 'ICTEYE' logo with the tagline 'KEY ICT DATA & STATISTICS'. On the left, there is a sidebar with links for Home, About, Topics, Index Areas, Regional Organizations, Country Profile, Advanced Data Search, Publications, Contact, and Login. The main text area explains that the ITU/UIT undertakes a series of surveys to assess the latest trends and developments in the ICT sector, and that survey data is entered by authorized users only. It also mentions that each user will be given a dedicated user name and password. A text box provides instructions for participating in the surveys as an official national source. At the bottom, there are input fields for 'User name' and 'Password', followed by 'Login' and 'Forgot Password' buttons.

ITU Committed to connecting the world

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Each year the ITU/UIT undertakes a series of surveys in order to assess the latest trends and developments in the ICT sector. Survey data is entered by authorized users only, as defined by their organizations. Each user will be given a dedicated user name and password in order to complete the survey.

If you would like to participate in completing our surveys as an official national source for your country, please contact us.

User name
Password
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Forgot Password

ICT Data Dissemination (cont..)

National Organizations

- Senate of Pakistan and National Assembly Questions, Cabinet Division, Ministry of Finance, Ministry of IT
- FBR, PAC, SBP, CCP, PBS etc

General Public

- PTA Website
- PTA Annual Reports
- Telecom Quarterly Review
- Supplements
- Interviews

Challenges

- Need for a lead organization on pooling ICT data sources in Pakistan
 - ▣ Minimum coordination among stakeholders
- Overlap in regulatory ambits of FBR, PTA, SBP, PBS (e.g. revenue reporting and tax collection; telecom indicators for GDP calculation)
- Timely and accurate provision of data by operators
- Manual data collection and management
- Discouraging response of industry consultation on data collection

Way Forward



Collaboration between Government agencies- under a centralized lead agency

- MoIT may take the lead role
- Joint Working Group

Regular consultation with telecom operators

Automation of ICT Indicators Database

- On-line data reporting
- PTA's in-house database
- Big data analytics

Annual Symposium/Conference on ICT Indicators

- Progress review
- New data requirements