Uganda's Experience on Building ICT indicators

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Outline of Presentation

Overview

- Facts of Uganda
- Policy, Legal & Regulatory Framework and developments
- Institutional Arrangements
- ICT indicators & infrastructure
 - Categories and Indicators
 - Collection, computation editing and verification
 - Disseminations
- Challenges & Issues
- Present Activities
 - Policy Initiatives and Processes
- Way Forward

UGANDA - Some Facts

Population Population growth rate Languages English, Swahili, Luganda Land area Population density Capital population GDP growth rate GDP per capita Inflation rate Exchange rate

27 million 3.4% 80 214,038 sq km 126 per sq km Kampala 2,000,000 5.3% **USD 200** 3.5% **1750** Depreciation

Map of Uganda



Policy,Legal & Regulatory Developments

Prior1996:

- 1996: A Communications Policy announced
 - Enabling legal framework for communications development
 - Facilitation of private sector participation in overall national development;
 - Separation of roles; policy, regulation, operations
 - Introduce Competition thru multiple operator licensing
- 1997: A Uganda Communications Act Cap 106 was announced
- 1998: Independent Regulator Uganda Communications Commission established

Policy,Legal & Regulatory Developments

- **1998:** Unbundling of the Incumbent UPTC
 - Post Uganda Post, Uganda Telecom and Post Bank Uganda
- **1998:** Competition introduced
- 1998: MTN licensed as a Second National Operator to compete with UTL in provision of all services; fixed, mobile etc
- 1995: Celtel mobile licence
- **2001:** Sale of 51% of UTL to 'Strategic Investor'
- **2001:** Rural Communications policy established
- 2003: Postal Policy
- **2004:** ICT Policy

Legal Framework

Telecommunications Act 1996
The Press and Journalist Statute 2001
The Electronic Media Statute 1996
The Communications (Establishment and Management of the Rural Communications Fund)statutory instrument 2002

Institutional Arrangements



Note: Celtel is regarded as a "minor license holder". Source: Government of Uganda, Privatization of Uganda Telecom, Information Memorandum.

Uganda ICT indicators

GENERAL NOTES

- Telecommunications indicators as per the current Mandate.
- ICT policy proposes for the UCC to become an ICT Secretariat
- UCC has Undertaken steps to Collect some indicators related ICT Usage
- Data collection responsibility handled by office of the Economist/ Statistics.

Categories and indicators Cont.



2-TELECOMMUNATIONS INFRASTRUCTURE.



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INTERNET

•<u>TECHNOLOGY</u>

Access network

- Switches, Routers,
- Number of links
- Radio equipment
- Access modes and categories

SUBSCRIBERS:

- Per access mode
- Dial up, leased lines, wireless, satellite etc
- Cyber cafes, Corporate companies

Tariffs per access mode

Operational Stats

- Percentage Up time
- Connection time
- •Faults on networks
- Faults on customer access networks
- Faults recovery period

•<u>COVERAGE</u>

District and towns etc

•<u>STAFF</u>

- •Customer websites hosted
- Global domain names registered

USERS

COMPUTERS/ PCs in use

2-BROADCASTING/ MEDIA

•<u>TELEVISION STATIONS</u>

Number of licenses per ChannelLocationFrequency allocated

DETAILS

Television receiversSatellite home receiversSTAFF

•<u>RADIO</u>

Number of radio station FM etc
 Locations
 Frequency allocated

DETAILS

Radio receiversSTAFF



Data Collection

Mandate derived from

- Section 55 and 56 of the Communications ACT
- Article 7.16 Major (National) license
- Article 24, ISP license

Collection

- Quarterly report
- Annual compliance reports
- Financial Reports
- reports
- Ad-hoc
- Survey
 - Internet usage, cafés, NGO's offices

Consultancies and Research bodies

Data Processing and storage No specific software for data entry **Excel and Access** No specific software for Processing Excel, Access, SPSS, Eviews, STRATA etc Tentative Data bank in Excel and Access Data Bank on Main server (Restricted) access)

IMIS System in place

Data dissemination

- Over the net <u>www.ucc.co.uq</u>
- Regular publications Annual, quarterly etc
- Networking with member countries
- Networking with international organizations, ITU, COMESA,
- Data source for researcher

Note: All data disseminated is aggregated unless specified

Challenges

- Collection, unwillingness for operators to disclose some data
- Irregular Reporting by operators
- Verification: No systematic mechanism in place costly
- No systematic processing mechanism in place (No software)
- DEFINITION: Need to revise some definitions for indicators
- **DISSEMINATION**: Not regular
- Specific to UCC is inadequate human resources

Challenges Continued

Specific to Uganda Non existence of an ICT secretariat Activities undertaken An ICT policy Reviewing the telecommunications policy New policy to emphasis infrastructure need for ICT application

Challenges Cont. ICT



Challenges not specific to indicators

- Need to expedite the process of establishing an ICT secretariat
- need for ICT laws and regulations
- Insufficient network infrastructure to support ICT application
- lack of appropriate content & development
- lack of awareness
- high start-up and recurrent costs
- illiteracy and lack of ICT skills
- General Macro-Economic Insufficiencies
- Insecurity in some parts of the country

WAY FORWARD Indicators

- Redefine elements of indicators to include ICT application indicators
- Redefined modalities of data collection and data dissemination
- Impose strict obligations to ensure commitment from operators to supply data regularly
- Create a specific software for collection analysis, etc uniform to countries
- Specific to UCC MIS system
- NEED FOR ACCURATE AND TIMELY INDICATORS

Thank you

