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ICT sector development policy and status of measuring the information society in Mongolia

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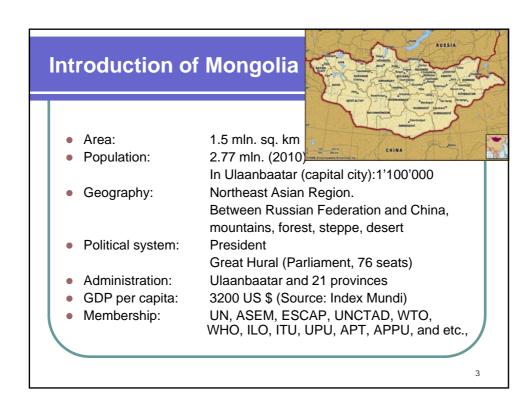
Content of the presentation:

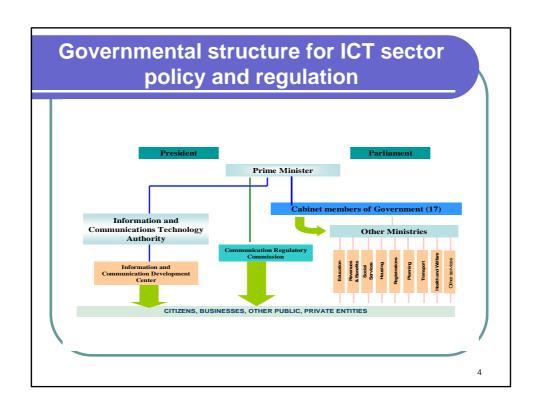
Sector development policy and regulatory frameworks

ICT/Telecommunications infrastructure and market

Measuring the information society (data/indicators)

Conclusions





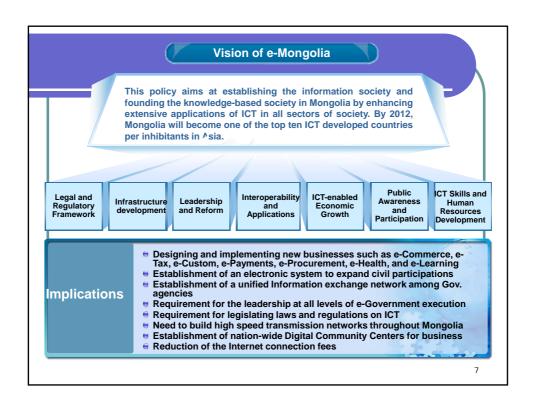
ICT sector legal framework

- Law on Communications, 1996 and 2001;
- Law of Radio wave, 1999;
- Postal Law, 2004 and 2007;
- Other laws: Civil code, Anti-Monopoly Law, Customer Protection Law, Company and Entity Law, Fair competition Law, and etc;
- Amendment of "Laws on Custom" tax-free for computer and its accessories and VAT exception for software products, 2005;
- Law on Governments' Special Funds (USO Fund-2% of all operators' gross revenues), 2006;
- Draft package law on ICT (Basic IT Law, Digital signature Law, e-Commerce Law, e-Governance Law), 2010;

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Policy and Strategy

- Mongolian Telecom Master Plan up to 2010, Ministry of Infrastructure-MOI, 1994;
- ICT Vision up to 2010, Parliament of Mongolia, 2000
- Telecommunications Sector Mid-term Policy, MOI, 2001;
- Medium Term Strategy and Frameworks for ICT sector, MOI, 2002;
- "E-Government Master Plan" Study (2005-2010), ICTA and KIPA of ROK, 2005;
- "E-Mongolia" National Program 2005-2012, ICTA, CRC, 2005;
- Policy and Regulatory guideline on GSM, 3G, WLL, CDMA-450 business in Mongolia, ICTA/CRC, 2006-2008;



Regulatory frameworks and activities

- Establishment of the Communications Regulatory Council under the Ministry of Infrastructure (MOI), 1995;
- Liberalization of international and domestic telephone service, cellular mobile market, 1999;
- Amendment of Law on Communications, 2001 (Established the Communications Regulatory Commission of Mongolia-CRC as independent body from policy making authority) www.crc.gov.mn;
- Chairman and 6 Commissioners of the CRC appointed by the Prime Minister of Mongolia;

Regulatory frameworks and activities

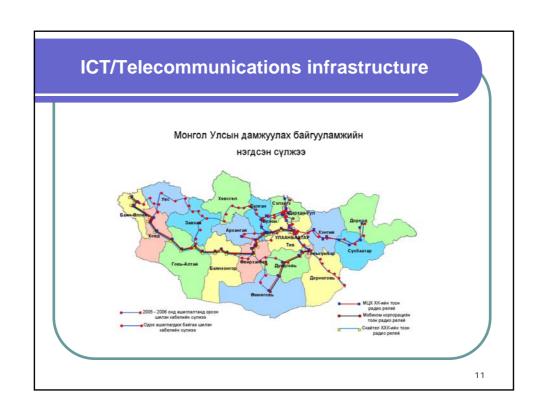
Main functions of CRC, Mongolia include:

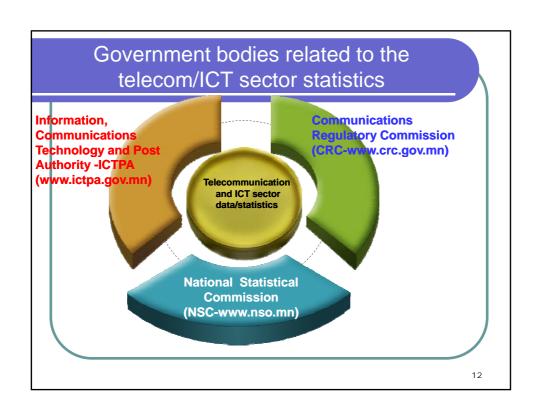
- Issuing telecommunications/ICT licenses (including TV and radio broadcasting, postal services, frequency, special number)
- Approving/monitoring the general terms of interconnection, between networks;
- Allocating and monitoring radio frequencies and planning;
- USO Fund administration and management;
- Approving accounting methodologies for the setting of tariffs and price;
- Approving and monitoring tariffs of dominant operators in the market;
- Developing and implementing a nationally integrated numbering plan:
- Settling disputes between license holders and customers;
- Telecom/ICT sector basic data/information collection and reporting to the related Government organizations such as ICTPA, NSC and others;

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ICT/Telecommunications infrastructure

Name of biggest company, operator	Service, number of Subscribers	Transmission network, [km]	Comment
Information and Communications Network Company , 2007	Backbone network asset management	Optical fiber-8500+ Digital MW-1,400+ Analog MW-524.7+ VSAT-350	State owned backbone network 21 province center and 360+ districts
Mongolia Telecom Joint Stock Company, 1994	50,100 NGN, CDMA 2000 1X 161,200 Fixed telephony	-	Fixed telephone /WLL service 21 province center and 300+districts
MobiCom Corporation, 1996	1,050,200 GSM GPRS 11,800 WLL CDMA	Optical fiber-3100+ Digital MW-2100	(International open tender) 315 sites
Skytel company, 1999	310,600 CDMA-2001xEVDO	Optical fiber-340 Digital MW-1700 VSAT-50	(International open tender) 300+ sites
Unitel company, 2006	250,000 GSM	VSATs, Digital MW	(International open tender) 200+ sites
G-Mobile company, 2007	120,000 CDMA-450	Digital MW	(International open tender) 150+ sites





Government bodies related to the telecom/ICT sector statistics

Established: 1924 Employees: 120+

Main functions: Implementation of laws, formulation of statistics policy, census

Homepage: www.nso.mn



National Statistical Commission

- To implement related laws ("Law on Statistics", "Law on the Population and Housing Census", and other laws);
- To formulate policy and coordination of statistical data collection and statistics information dissemination;
- To organize and conduct population and housing census;
- Report to the Parliament and Government of Mongolia;

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Government bodies related to the telecom/ICT sector statistics

Main functions of NSC, Mongolia include:

- Implementation of national statistics related laws. For example, Law on Statistics of Mongolia (1997, 2004), Law on the Population and Housing Census (2008);
- Annual and mid-annual population and housing census in Mongolia;
- Approving and monitoring of national and sector statistics methodologies for the census;
- Statistical data collection and dissemination of statistical information (monthly and quarterly bulletin);
- International cooperation (ITU, UNESCAP, UNSD, UNCTAD, ... NSO);

Note: Nationwide annual census 2010 year (Mongolia)

Government bodies related to the telecom/ICT sector statistics

(Law on the Population and Housing Census, 2008)

Article 11. Census data

11.1.The following major data collected by the census:

11.1.1. demographic and social indicators:

- -clan name, surname and name,
- -date of birth.
- -age and sex,
- -ethnicity/nationality
- -citizenship,
- -education and literacy,
- -religion,

11.1.2 Geographic and migration data place of birth:

- -place of usual residence and residence on census days,
- -duration of residence,
- -place of residence five years ago from the census period,

11.1.3 economic indicators:

- a. employment status,
- b. occupation,
- c. types of industry,
- d. unemployment and its reasons,

11. 1.4 data on housing conditions:

- a. type and ownership of dwelling,
- b. number of rooms and floor space,
- c. kitchen,
- d. water supply, bathroom and shower,
- e. waste disposal, toilet
- f. electricity, heating and

telephone/communication

11.2. The National Statistical Commission can include additional indicators, which required to demographic, migration, socio-economic and housing condition survey except of indicators specified in 11.1 of this law to census data regarding to particular situation.

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Government bodies related to the telecom/ICT sector statistics

Established: 2004

Employees: 40+ (4 Departments)

Main functions: ICT sector development

policy & strategy

Homepage: www.ictpa.gov.mn

ICTPA Telecom/ICT sector tata/statistics

Information, Communication Technology and Post Authority

- To formulate ICT/Telecommunications sector; development policy and strategy;
- To provide policy guidance for ICT/Telecom statistics data collection and reporting to the Government;
- To contribute ICT/Telecom related statistical programs;

Government bodies related to the telecom/ICT sector statistics

Established: 1995

Employees: 50+ (4 Department)
Main functions: ICT sector regulations
and issuing licenses (including postal and

broadcasting sector)
Homepage: www.crc.gov.mn

CRC Telecom/ICT sector data/statistics

Communications Regulatory Commission

- To issues license and regulatory frameworks;
- To collect ICT/Telecom sector data/statistics from licensed operators (subscribers, market and demand) and to report to the ICTA and Government;
- To make lists and formats of the required new statistical data and indicators in sector with ICTA and NSC;

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Government bodies related to the telecom/ICT sector statistics

CRC is collecting the following the Telecommunications and ICT data and statistics from licensed operators and report to the ICTA/NSC:

- 1. Telecommunications (including postal and broadcasting):
- a. Number of subscriber, density and sites (telephone, mobile, FM, TV sets, CATV);
- b. Incoming and outgoing international/domestic traffics (fixed, mobile);
- c. International and domestic postal market information;
- 2. Information technology:
- a.Types of internet subscribers and users (internet, ADSL, VDSL, wireless access, broadband);
- b.Market information (ISPs, share market);
- c.Number of PCs (office and house);
- 3. Finance and HRD information:
- a. Investment and finance information (revenue, cost, investment);
- b. Tariff and price information;
- c. Human resource development information (employees, average salary);

International partnership on measuring ICT for development

Partnership and development on Measuring ICT for Development:

- ➤ Basic ICT infrastructure & access indicators (ITU);
- ➤ Indicators on access to, and use of, ICT by households and individuals (ITU);
- ➤ Indicators on use of ICT by businesses (UNCTAD);
- Indicators on the ICT sector and trade in ICT goods (UNCTAD);
- core indicators for Measuring ICT in education (UIS):
- ➤ ITU-WTI and Regional events on ICT Standardization: ITU World Telecommunication /ICT Indicators Meeting, Egypt, 2008
- ➤ ITU-T Research project-Measuring and Reducing the Standards Gap, 2009
- > IDI-ICT Development Indicator, ITU, 2009

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Cooperation between the ITU/other organizations and Mongolia

- ITU Membership in 1964: Mongolia
- Pilot and consulting projects: Numbering planning, SMS4D software, NGN network study (2010) and HRD,
- ITU-T Research project-Measuring and Reducing the Standards Gap, 2009: National Standards Assessment Case Studies-Mongolia included the report,
- UNSD Statistical Databases and ITU indicators: Undata and ITU-ICT indicator database,
- UNDP/ESCAP-SIAP/UNFPA support and Government of Mongolia: 2010 Population and Housing-Mongolia, November 11-17, 2010 (According to Law of Census information on total number of 49 major indicators will be collected by the Census)

Future Objectives

- To develop and implement an integrated policy and guidelines of the sector on international cooperation and national statistics/ICT core indicators and IDI;
- To create reliable ICT/Telecom database of statistics and broadband technologies including wireless (3G, WiMax, Digital and IPTV);
- To implement the "Recommendations on Bridging the standardization gap report" (ITU, 2009) and measure/guidelines of ITU-IDI in national level;
- To improve the qualitative and quantitative metrics for ICT statistics and assessing standards capability parameters;
- To improve cooperation with Government/Public organizations and NGOs in data collection/dissemination of statistical data, promote their activities in line with public interest and access to knowledge policy;
- International organization and regional cooperation;
- HRD and capacity building;

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Conclusions

Key challenges:

- Specific problems for Mongolia (nomadic lifestyle and population diversity, terrain and natural conditions, lack of basic infrastructure such as road, energy);
- Appropriate legal and regulatory environment, specially IT applications, frequency allocation and pricing, interconnection and tariff, network security, e-commerce and etc.,
- Limited availability and processing of data, and reliability of data sources;
- Lack of compatibility to use of ICT/Telecom core data/indicators and IDI in national level;
- Digital divide and USO fund operation;
- Lack of investment to introduce new ICT/Telecom business and need to improve data format and collection process;
- Lack of HRD and capacity building ICT/Telecom data collection and processing;

Conclusions

Key Success Factors:

- Strong Political & Governmental Leadership;
- Improvement of legal and regulatory environment (fair, transparent regulation, One window approach, Government portal, web information on statistics/data);
- Technology neutral policy and improvement of data collection/processing;
- Bridging Digital Divide and Government special programs, for example "PC for All Children", "Rural internet connection" program, "Rural mobile coverage project", "IT literacy";
- Strengthening of international cooperation and use of internationally recognized statistical data format and core indicators in national level (ITU, UNCTAD, World Bank...);
- Investing Human resource development/capacity building; Partnership with Private Sector and Civil Society;

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Thank you for attention

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