SMART ULAANBAATAR PROGRAM
brief introduction
Smart Ulaanbaatar Program

- About Smart City Program
- Motivation
- Scope
- Realization Plan
- Program management
About Smart Ulaanbaatar Program

Smart Ulaanbaatar program was approved at the regular assembly of City Council on 27th March 2014. The program describes work, principles, operations, management and financing for building smart governance and smart city from 2014 to 2020 in Ulaanbaatar city.

The program will involve all infrastructure, citizens and employees of Ulaanbaatar. It is mega program, which requires huge financial resources, human capital and knowledge.
Motivation

External
- International Smart City projects
- Technological Advances
- Green Development Movement
- Skill, Habit, Work Style of new generation
- Shortage of Ecological, Infrastructural Resources
- Importance of Innovation

Ulaanbaatar

Internal
- President Of Mongolia “Smart Governance” Initiative
- Necessity to Improve Public Services
- Large and non-optimized structure of UB orgs.
- Poor Correlation of Governmental Works
- Bureaucracy and Corruption
- Public Private Partnership
Key Components of Smart Ulaanbaatar program

1. Smart Governance
2. Smart Economy
3. Smart People
4. Smart Service
5. Smart Environment
6. Smart Living
Work of Scope

6 components, 28 sets, 88 indicators (152 works in 2014)

<table>
<thead>
<tr>
<th>Component</th>
<th>Sets</th>
<th>Indicators</th>
<th>Works</th>
</tr>
</thead>
<tbody>
<tr>
<td>Smart Governance</td>
<td>5</td>
<td>24</td>
<td>61</td>
</tr>
<tr>
<td>Smart Economy</td>
<td>6</td>
<td>18</td>
<td>30</td>
</tr>
<tr>
<td>Smart People</td>
<td>3</td>
<td>10</td>
<td>11</td>
</tr>
<tr>
<td>Smart Service</td>
<td>4</td>
<td>11</td>
<td>24</td>
</tr>
<tr>
<td>Smart Environment</td>
<td>6</td>
<td>17</td>
<td>18</td>
</tr>
<tr>
<td>Smart Living</td>
<td>4</td>
<td>8</td>
<td>8</td>
</tr>
</tbody>
</table>
Work Areas for Smart Governance

- Smart City Planning
- Legal Reform
- Organizational Reconstruction
- New Governance
- Open Data
New Governance

Good Governance (monitoring, management)

Best Services (fast, friendly, innovative)

Citizens Satisfaction (survey, comments)

SmartCity solutions

- Controlled
- Well Managed
- Operative
- Friendly
- Open
- Innovative
- Fair
- Democratic

Technological Support

Time saving
Fast
Cost saving
Infromative
Communnicative
Easy, Simple
Work Areas of Smart Economy

- Innovative City
- Best business environment
- PPP - Public Private Partnership
- Excellent Investment Options
- Brand Creation of Ulaanbaatar City
- Support Employment
Smart Economy

innovative cities

environment

talent
universities
organizations
innovation

companies
agglomerations
economic growth

support
offer
attract
attracts new
drives
fund
manages
produce
new knowledge
fueled
clusters
networking
agents

gained through

accessibility
diversity
openness
quality of life
Work Areas of Smart People

- Educated, Intelligent, Creative Citizens
- Friendly, Loyal, Lovely People
- Healthy, Active Community
Work Areas of Smart Service

- Citizen Services
- Business services
- Service management
- Equal Access to Services
Smart Citizen Services
Work Areas of Smart Environment

- Green, Healthy Environment
- Informational Infrastructure (Wireless City)
- Soft Infrastructure (Central database, Portals)
- Mobility (Smart Transportation, Car sharing)
- Technology
- Smart Infra (Power, Water, Waste)
Smart Environment – Cloud Infra

Citizens

Employees

Managers

Centralized Monitoring

ADMIN
Work Areas of Smart Living

- Safety, Stress Free Living
- Smart Education
- Smart Healthcare
- Smart Buildings
- Tourism, Attraction
Smart Living
General Plan of Implementation

Reform of Key Areas

- Smart Governance, Smart Economy (2014-2015)
- Smart People, Smart Services (2016-2017)
- Smart Environment, Smart Living (2018-2020)

Technological Innovation

- smart - UB
- digital - UB
- electron - UB

Smart Green Ulaanbaatar
e-Ulaanbaatar

Citizens and Organizations

Ulaanbaatar Smart City Solutions

Data Center

Reliable Secure Green

Cloud Computing Web Services Centralized Database
Digital Ulaanbaatar

Services that interoperate seamlessly in a range of different environments

- Factory
- Office
- Data center

- Internet Connection
- Energy management

Business

Next-generation packet-based core network

- LTE
- Optical telecommunication
- CATV
- Femtocell
- WiMAX
- Zigbee

City

- Energy station
- Financial
- Distribution
- Transportation

Home
Digital Ulaanbaatar

- Wireless sensory networks
- Weather sensors with mobile connectivity
- Connected wearable health monitor
- Surveillance cameras with 3G connectivity
- Connected smart energy meters in houses
- 3G connectivity in cars
- E-book readers, connected sports devices, digital picture frames...
Smart Ulaanbaatar

Urban management infrastructure
- Equipment management
- Operational information
- Analysis and simulation

Data center

IT

- Energy
- Gas
- New energy
- Large central power source
- Batteries

- Water
- Water treatment
- Industrial wastewater treatment

- Mobility
- Shipping
- Railways
- Roads

- Travel
- Agriculture, fisheries
- Logistics

- Work
- Factory
- Energy station
- Railway station

- Study
- Research, university
- School
- Hospital
- Hotel

- Live
- Retailer
- Recycling facility
- Public facility

- Commerce
- Industry
- Tourism, leisure
- Financial institution

- Study
- Research, university
- School
- Hospital
- Hotel

- Travel
- Agriculture, fisheries
- Logistics

- Work
- Factory
- Energy station
- Railway station

- Live
- Retailer
- Recycling facility
- Public facility
Implementation Steps of Smart Infra

- Data Center
- Network
- e-Security
- e-Government
- Smart Devices
- Smart Infrastructure

2013-2016
2014-2018
2015-2020
Single Windows for UB Citizens

UB Smart Citizen

Registration
Policy
Education
Health
Service
Procurement
Land
Announcement

All services through single window
Project Management Structure

Committee Chairman
(Ulaanbaatar city mayor)

Smart Ulaanbaatar Program Committee

Project Implementation Units

- Smart Governance
- Smart Economy
- Smart People
- Smart Services
- Smart Environment
- Smart Living

Governments
UB City
Companies
NGOs
Int. Orgniz.
Citizens
Others

Experts
Think Tank
Support Teams
Project Components

- Smart People
- Technology
- Smart City project
- Management
- Policy
- Smart Government
- Smart Economy
- Green City
- Smart Infra