Towards Mobile-service from E-service in Korea

FIG 7 Commission
Cadastre & Land management

2007. 5. 19~23
Seoul, Korea

KCSC Business Development Team
Assistant manager Kim Young Hyun
Contents

• Introduction of Mobile-Government

• Current status of mobile public services in Korea

• Recommendations & Challenges
Introduction of Mobile-Government
Enhancement of E-government network

Details

- Enhancement of e-government infrastructure through integrated e-government network
  - Investigation of each network status and completion of integrated network ISP
  - Physical separation of internal administrative service network and Internet service network
  - Phased deployment of e-government dedicated network
- Creation of m-government gateway for mobile service

Deployment of E-Government Dedicated Network

- Integration of e-government networks
- Enhancement of e-government network

Creation of M-Government Infrastructure

- Plan for mobile service standardization
- Deployment of common gateway

Timeline:
- '03
- '04
- '05
- '06
- '07
M-Government is ..

- **Future Government** that provides for citizens, companies and government to deliver personalized government services through wireless network

- **Multi-channel Government** that overcomes current limitation of e-Government and supports mobility and accessibility

- **Wired-Wireless Convergence Network** that can access government service anytime and anywhere
Goal of M-government

- Advancing the e-Government services by adding mobile value
  - Mobile value: Convenience, Timeliness, Personalization, Location-Based etc.

- Implementing the e-Government services over the wired and wireless Internet in an Integrated way
  - offer the seamless e-Government services to the public any time, any where
  - create high-value interoperable mobile services in public sector
Mobile System Components

- **Terminal**
  - Handset, PDA, Notebook, Smartphone
  - OS, Minimal process capacity

- **Wireless Network**
  - Mobile Infrastructure
  - Bandwidth, Security, Operator’s network

- **Mobile Core Solution**
  - SMS, LBS, Payment, MMS

- **Applications**
  - Front Office System
  - User Interface
The Necessity and Evolution of Mobile Services

- Limitations of wire based e-Government Services
  - G4C
  - G2G
  - G2B

- Integration of Wire and Mobile Services

- Mobile Government Services
  - Next Generation of e-Government

- Ubiquitous system

- Rapid ICT Development
- Increasing public services
Developing step of M-government

1. E-gov
2. M-gov
3. T-gov
4. U-gov
Current status of Mobile public services in Korea
Concept of Mobile Government

Central Gov → Mobile Public Service Center → Local Gov

Mobile Internet Portal → Mobile Public Service Center

Contents Provider → Mobile Public Service Center

Mobile Network

G4C → G2B → G2G
Mobile platform for Government

Terminal
- Cellura Phone
- PDA
- Smart Phone

Mobile Center
- LBS
- Payment
- SMS
- MMS
- Internet/VPN
- SMS Hub System
- Mobile Transform
- Network Security

Application
- Mobile Government Services
  - Messaging
  - Synchronizing
  - MMS
  - Browser

Citizen
Public Servant

Network Provider
E-Government System
M-Government Framework

Mobile Service & Content
- Basic Service (Mobile Office, Portal)
- G4C (Digital Certificate)
- G4B (Mobile Procurement)
- G4G (Digital Customs)

Mobile Middleware
- Security
- Authentication
- SDK, API
- Billing, Payment
- Push, Download
- Contents Transfer
- System, DB Link

Mobile Infrastructure
- Windows (CE), Palm OS, Linux
- Wireless Internet Platform (802.11b, a, g, Bluetooth)
- KII (KII-G, PUBNET, KOREN)

Mobile Internet Platform (WIPI)
- SMS Gateway
- GVM, XVM, BREW, JavaStation

Mobile Network

Mobile Device
- PDA, Notebook
- PCS, PDA, Notebook

Content Provider
- Private Sector Service (DB)
- Legacy Public Service (DB)
- E-Government Service (DB)
Service types of M-government

- **Citizen**
  - Real-time Information
  - The Spot Public Services
  - Mobile Multimedia information

- **Business**
  - Quick Information Gathering
  - The Spot Business
  - Efficiency of LBS

**Mobile Network**

**Mobile Government Services**

**G2C**
- Public service
- Local Based System
- Micro-payment
- Electronic Certificates
- e-Voting
- Voice
- Booking

**G2G**
- E-Document
- Archiving System
- KMS
- Secure Mail
- Information Share
- Budgeting and Finance

**G2B**
- e-Procurement
- Logistics
- e-Medical
- Electronic Payment System
- e-Taxation
- Trading System

**Basic Service**
- Mobile Portal
- M-Commerce
- Mobile Office
- LBS
- SMS

**Service for Business**
- Mobile Administration Service
- Basic Service

**Service for Citizens**

**Service for Business**
<table>
<thead>
<tr>
<th>Area</th>
<th>Department/Local Government</th>
<th>Services</th>
</tr>
</thead>
<tbody>
<tr>
<td>Vehicle Tax Management</td>
<td>Uijeongbu-city, Gunsan-city, Gwangju-city, Busan-city</td>
<td>- Automobile Management with PDA</td>
</tr>
<tr>
<td>Wireless Tour Info.</td>
<td>Daegu, KyungNam, ChungBuk, JunNam</td>
<td>- Mobile Tour System is adapted in the Universe on the September: Tour Info. Booking, Translation, Online Shopping, Emergency Service - KyungNam Tour System with PDA</td>
</tr>
<tr>
<td>Cyber Jeju</td>
<td>Jeju</td>
<td>- Mobile Portal Service for Industry and Tour</td>
</tr>
<tr>
<td>Messaging Service</td>
<td>Busan</td>
<td>- G2C, G2G</td>
</tr>
<tr>
<td>Monitoring Waterworks/Sewage System</td>
<td>DaJeon</td>
<td>- Real-time Information System with PDA</td>
</tr>
<tr>
<td>Civil Services</td>
<td>JunNam</td>
<td>- Civil Services through the voice recognition</td>
</tr>
<tr>
<td>Mobile Query</td>
<td>National Policy Agency</td>
<td>- Real-Time Query of Person, Automobile, and Criminal</td>
</tr>
<tr>
<td>Bus Info. System</td>
<td>Bucheon City, JeonJu Cith, AnYang City</td>
<td>- Real-time Information of the bus Location and operating through installing the censor terminal into Key Index Point.</td>
</tr>
</tbody>
</table>
Mobile government integration center
Recommendations and Challenges
Recommendations

- Identifying mobile information and services that central & local government want to offer to citizens, business and public Employees

- Identifying obstacles to offering central & local government services through mobile channel

- Identifying needed resources and strategies for overcoming these obstacles and barriers
Challenges

- It is necessary that government mobile integration center should be established in order to prevent the redundant investment.

- In the future, mobile government need to be evolved to Ubiquitous government.
Thank you very much for your attention !!!