Korean Good Practice:

Spatial Information Open Platform & Its Applications

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Trend of Korean Governance

The Happiness of all citizens

Vision

Goal

Provision of customized service
Creation of jobs and new growth engines

Competent Government

Strategy

Transparent Government
Service-oriented Government

Value

Openness
Sharing
Communication
Collaboration

The Happiness of all citizens
Paradigm Shift in Land Administration

<table>
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<tr>
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<th>Before 2000s</th>
<th>2000-2010</th>
<th>Present</th>
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<tbody>
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<td>Paper-based map and attribute</td>
<td>Informatization</td>
<td>Convergence of spatial information</td>
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<td>Rare use of spatial information for other purposes</td>
<td>Wide use of spatial information in public sectors</td>
<td>with other industries</td>
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<td>Security-oriented spatial service</td>
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<td>(in Real-time)</td>
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What is Spatial Information Open Platform (SIOP)?

Spatial Information Open Platform
The First Open-Platform of NSDI
Data sets and Services of SIOP

**DATA**
- Cadastral map
- Topographic map
- Landuse district map
- Aerial-photo
- 3D Model
- DEM
- POI
- Hybrid
- Attribute

**SERVICE**
- MAP SERVICE
- OPEN API

**Choosing Service channels**

**PARTICIPATION**

**DATA DISTRIBUTION**

Providing secure database via National Spatial Information Integration System

Selecting appropriate service depending on available budget and type of service
Example Developed Using SIOP


- Push reminder of weather and flood
- Uploading real-time opinion by citizen
- Display of frequently flooded areas
- Short-cut to shelters

Disaster Map Service

Land Information Service

- Land information request to LX
- Cadastral map, aerial photo, maps, and description provided
- Service completed in a day

Frequently occurred flood
Frauds in real estate transaction
Mobile device widely distributed

Background

Frauds in real estate transaction

Mobile device widely distributed

Background

Frequently occurred flood

Frauds in real estate transaction

Mobile device widely distributed

Background
Two-way Disaster Map Service

- Directing optimum shelters, referring to spatial data and analysis

Referred Data

- Flood Mark Map (acquisited by LX)
- Flood Danger Map (by NEMA)
- Natural Disaster Danger Map (by NEMA)

* NEMA: National Emergency Management Agency
**Available data**

- Cadastral map
- Aerial photo
- Site photo taken
- Description (Opinion of Surveyor)
Other Applications

Fields to apply

- Cultural Heritage Management
- Facility Directory Map
- CCTV Management System
- Landscape Analysis
- Emergency/Disaster Response
- Statistical Map

APIs:
- Transforming Map API
- Integrated API
- 2D map API
- 3D map API
- Mashup Example
- API Certification
¢ Limited spatial data sets of SIOP

¢ Integrating all data managed by ministries into a single platform

¢ Newly establishing and updating existing spatial data
Thank you for your attention.