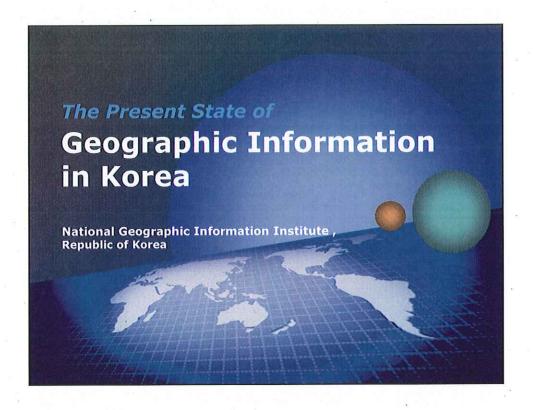
UNITED NATIONS E/CONF.100/IP.15

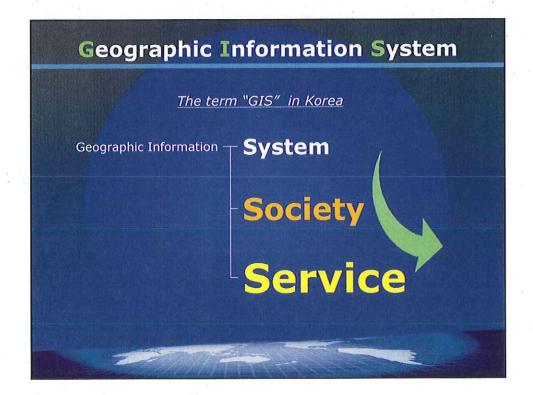
### ECONOMIC AND SOCIAL COUNCIL

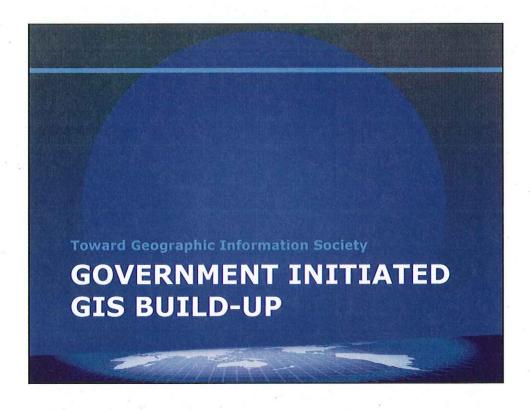
Eighteenth United Nations Regional Cartographic Conference for Asia and the Pacific Bangkok, 26-29 October 2009 Item 7(b) of the provisional agenda Invited Papers

The Present State of Geographic Information in Korea\*

 $<sup>^{</sup>st}$  Prepared by the National Geographic Information Institute, Republic of Korea







# 1st National GIS Build-Up

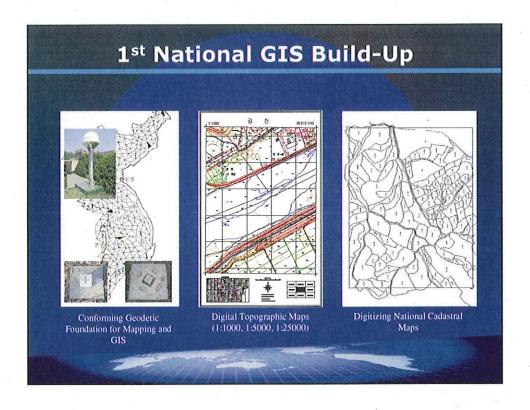
# **Policy Direction**

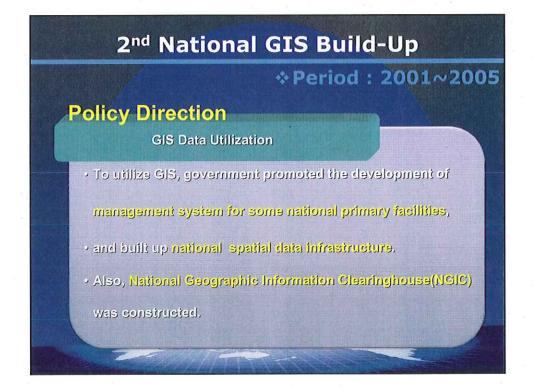
**Building Foundation for GIS** 

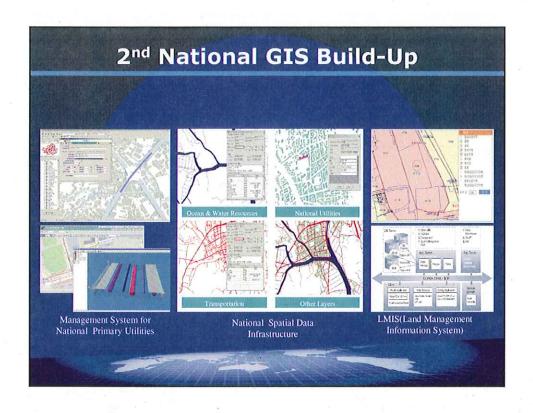
- Due to insufficient capability of the private sector,
  the government sector led investments and policy measures.
- Then it focused on creating the initial demand for GIS by

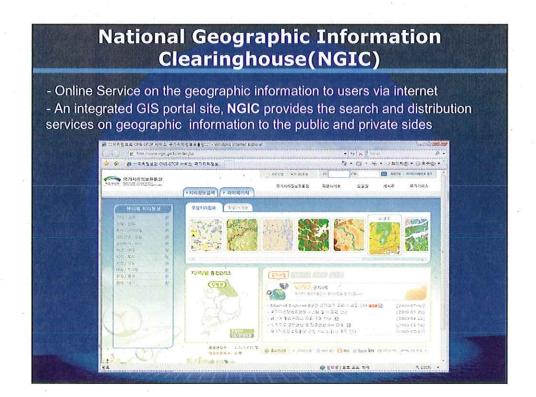
  constructing some digital basic maps like topographic maps,

  cadastral maps, and so on









# 3rd National GIS Building Up

## **Policy Direction**

**Embodiment of GIS Based E-Government** 

- To embody GIS based e-government MGII is promoting some policies like below.
- Develop the next-generation core technology to lead u-GIS and GIS technologies for

# **Core Technology Development**

### Geospatial Information Infrastructure

### **Multi-purpose Ubiquitous Reference Point**



RFID tag based reference point for surveying, location service, ...

### **Next generation digital maps**

### Next generation national digital map

- Seamless
- Multi-scale
- Multi-dimension
- Spatiotemporal Object-oriented (Feature based)

### **Ground 3D Laser scanner**

### Objective Spec.

- Measureable distance : 300m@90%
- Ranging accuracy: 3mm
  Positioning accuracy: 5mm
- Horizontal FOV: 360
- Vertical FOV: 270



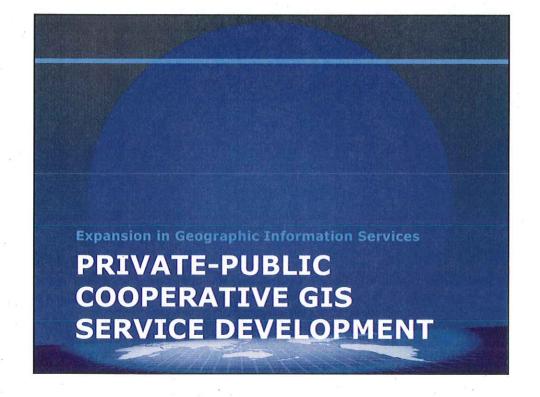
### **Precise Korean New Geoid model**

### Precise Korean Geoid (cm level)

- · Ground/Sea/Aerial gravity data
- Satellite gravity data
- GPS/Leveling data
- Precise topographic model

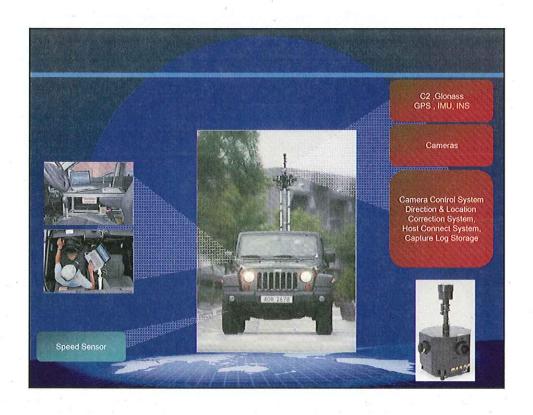


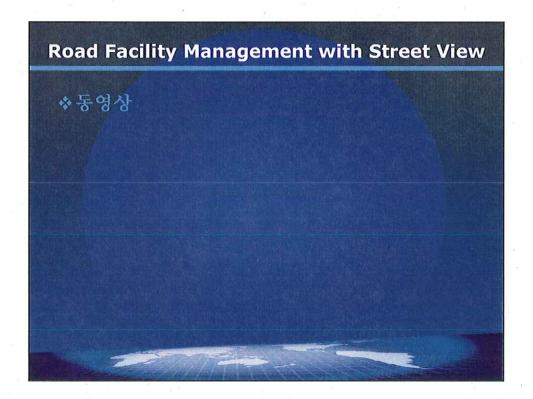


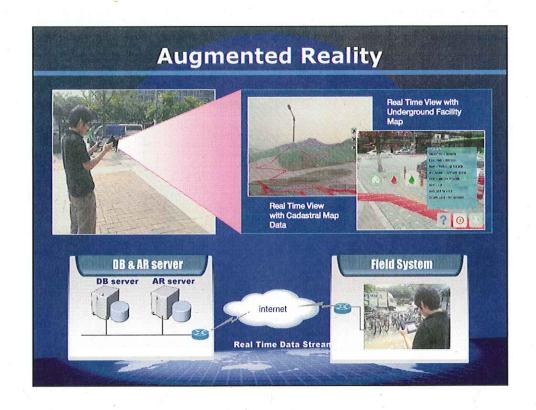


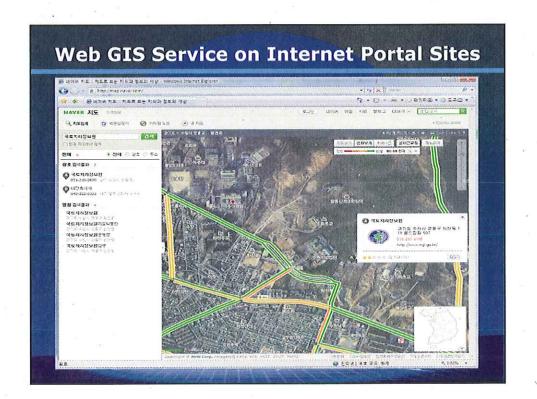


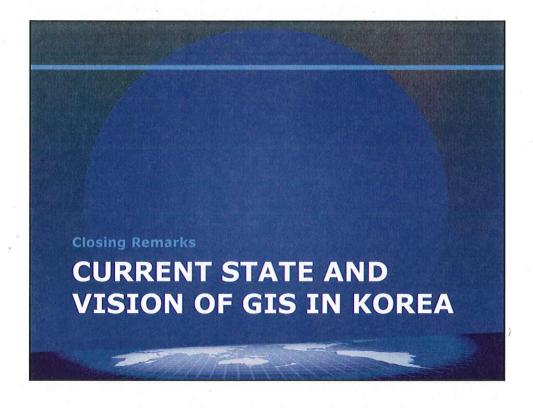












# From public leading to the synergy of private-public cooperation

- GIS in Korea could have foundation by the help of major promotion of government
- Many private companies are providing creative and useful GIS services based on national GIS framework data supplied from government
- More effective and useful GIS services will be supplied as a result of private-public cooperation

# \*We've found solution to apply spatial information to real world rapidly Research for monitoring and quick updating national spatial changes Research for building and modifying, updating GIS data with Vehicle MMS \*If we'll join various GIS service model to rapid GIS data update system, you can see the more revolutionary and creative, useful GIS services

