

Strategy for Improving Cadastral Spatial Data Quality for a more effective e-Government based on NSDI

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- Analyzing current Korean Informatization Paradigm

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- Action plan for improving cadastral spatial data quality
- Introduce a National Integration Information System(NIIS)
- Strategy for integration with e-Government and NSDI

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I. Background

Background

- Society demands more accurate spatial data quality
- Limited integration with e-Government and National Spatial Data Infrastructure

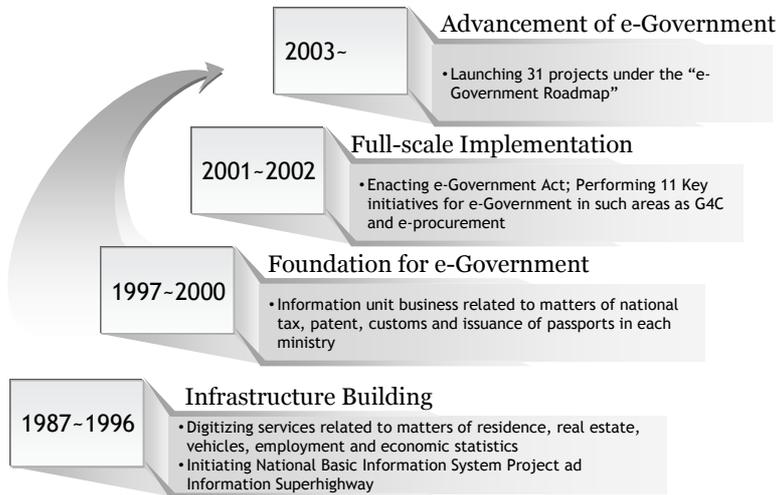
Propose

- Strategy for integration with e-Government and NSDI
- Proposition of the National Integrated Information System
- Action plan for improving cadastral spatial data quality

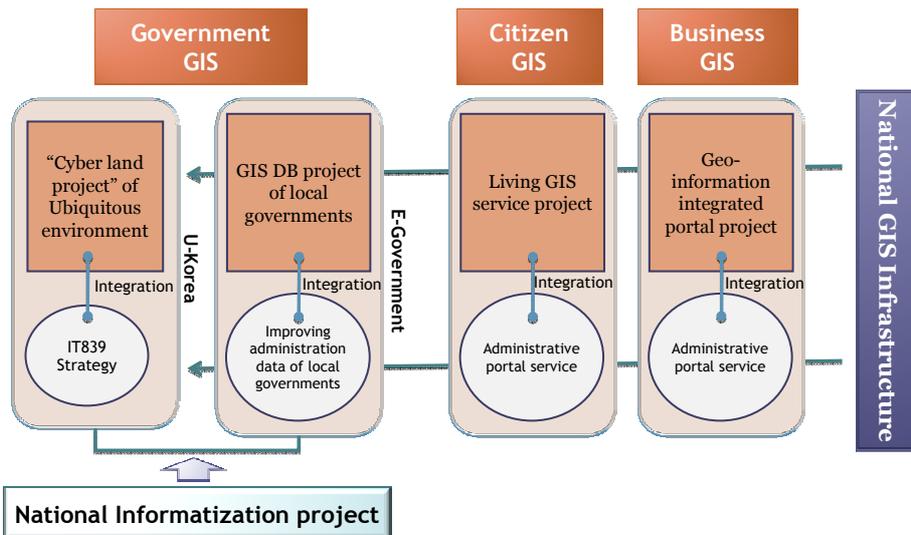
• Current status of Informatization of Korea

- The status of Korea's informatization
 - Development of the e-Government service and application has been successful
 - IT is transforming people's lives
- Korea's informatization policy
 - Establishing information infrastructure
 - Facilitating diverse services and products
 - Achieving advanced information society

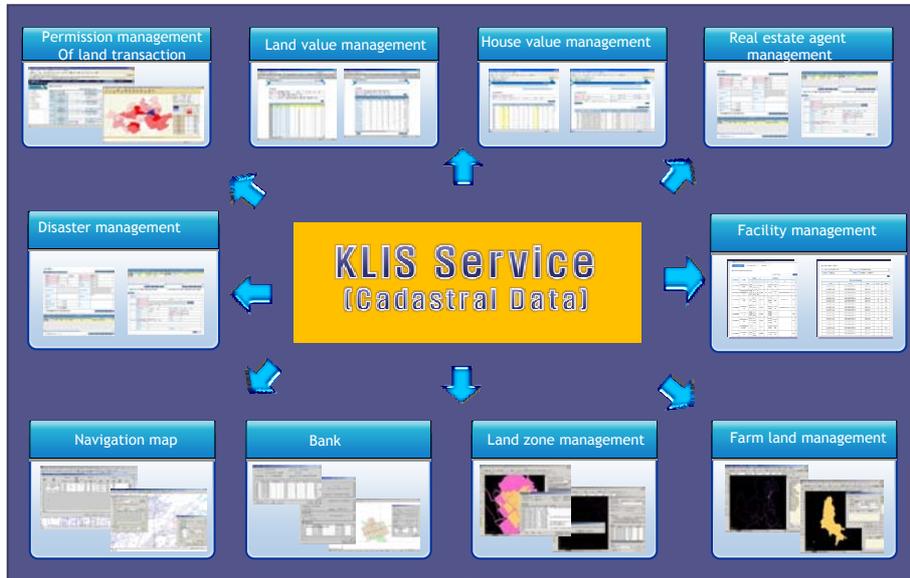
Korea e-Government



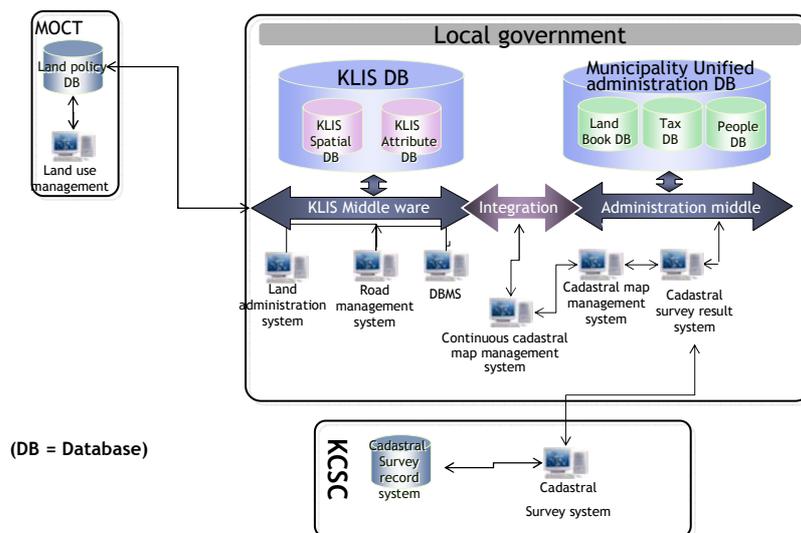
The goal of the national GIS project in Korea



KLIS Service

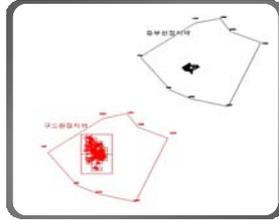


KLIS Architecture



III. The problem of the current cadastral spatial quality

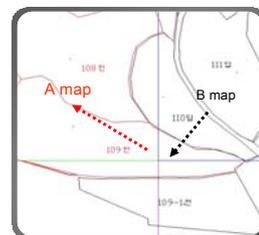
Problems of the cadastral data



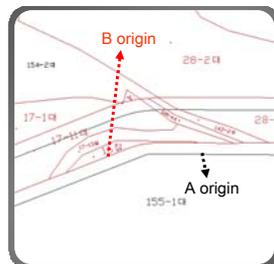
Different local coordinates



Errors in data



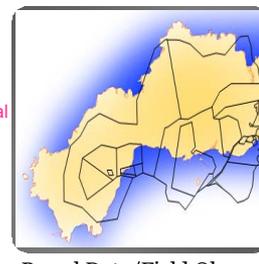
Mismatched data



Duplicated data



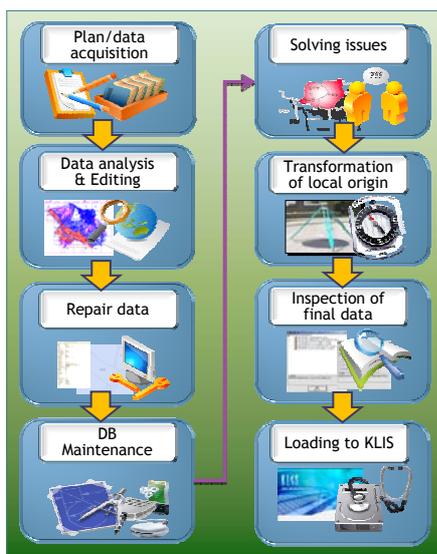
Differently scaled maps



Parcel Data/Field Observation Disparity

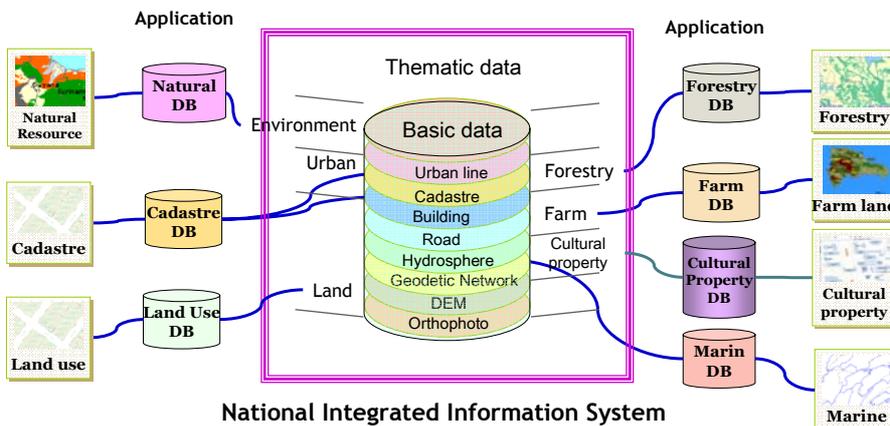
IV. Improvement of the cadastral spatial data quality

The action plan for improving CSD quality



Method	Use cadastral Survey result	Cadastral resurvey
	Repair disparity parcel nonexistence	Repair origin system existence
existence and nonexistence of institution and plan		
Basic direction of improving accuracy of the continuous cadastral DB		

Introduction of the National Integrated Information System (NIIS)



The strategic plan for integration with e-Government and NSDI

Stage	1Stage -Information-	2Stage -Interactive-	3Stage -Integrate-	4Stage -Intelligent-
Contents	Construct Infrastructure	Construct Infrastructure & Dissemination		Data quality improvement
NSDI Development Stage	Provider based	Part of customer based	Customer based	Customer based operating
Service	Geospatial Information	GIS Portal	Customer tailed Service	LBS based Service
Participate Customer	Off-line (1:0) Data User ↔ Data Provider	Web bulletin board (1:1) Web User ↔ Data Provider	Service-transaction based (1:1) Data User ↔ Data Provider	Multiple-transaction based (1:n) Data User ↔ Data Provider
Data Integration	Independent system	Integration system Within an organization	Unified system Within an organization	Integration system
Using body	Owner (GIS experts)	User (Related officials)	Viewer (General User)	Everyone
Using field	Spatial based work	Spatial + Administration	Integration with E-Gov and NSDI	Living with spatial data
Technology	Service Providing Type Transmit medium GIS tech.	Publishing /download Personal computer Department GIS	Interacting Internet / Intranet Web GIS Enterprise GIS	Transacting /Web self-service Mobile/PDA Mobile GIS/LBS
Organization	Unit organization	Hierarchy organization	Network organization	Integrated organization
Infrastructure	Preparation & Improvement of GIS related regulation & Institution step by step			

V. Conclusion

- Government makes an effort to improve spatial data quality for successful e-Government project
- The spatial quality of cadastral data is an important role to provide the service and product of e-Government
- Seamless cadastral spatial data based on NSDI through an effective strategy to adapt the goal of e-Government project

Thanks for your attention!

If you have any questions, please contact :

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