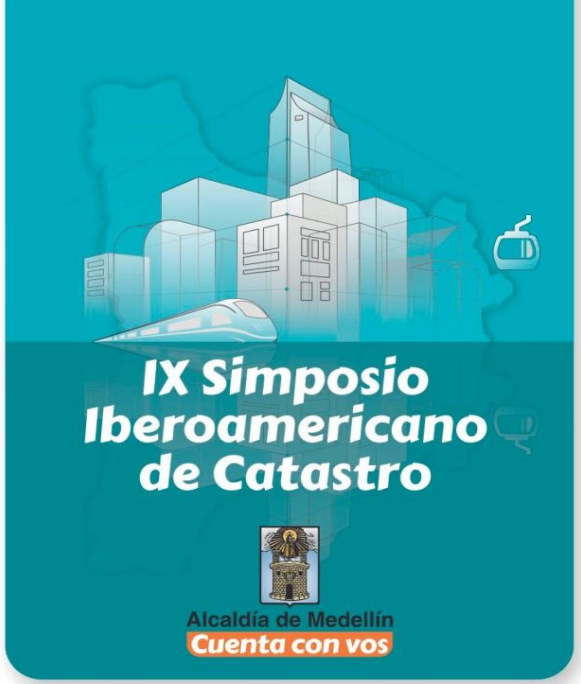

The Modernization of Korea's Land Administration for Global-level E-governance

Kim, Youngpyo
CEO of LX

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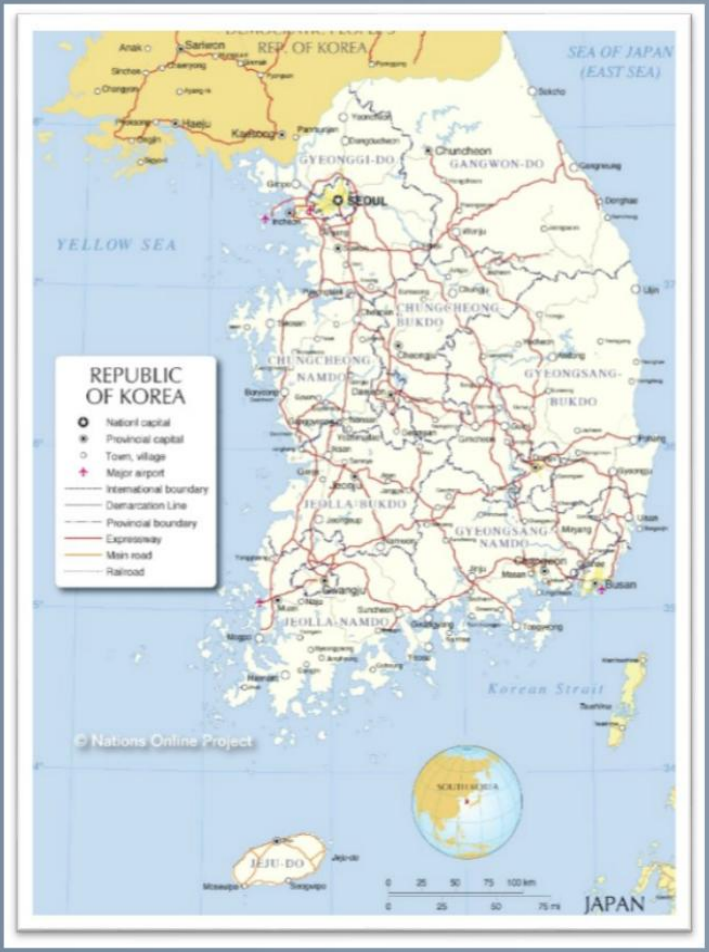
South Korea at a glance



- Area: 99,720 km^2
- Land use
  - Forest(65%), Agricultural(21%)
  - Residential(3%), Others(11%)
- Population: 51 million
- Population Density : 513 / km^2
- Parcels: 37 million

Access to public Information

52.5 million
transactions via the internet
in 2014

Certificate of Residence
Certificate of Family Relations

15.5 million

Land Register, Land Book & Land Use

19.9 million

The Korean War (1950 - 1953)

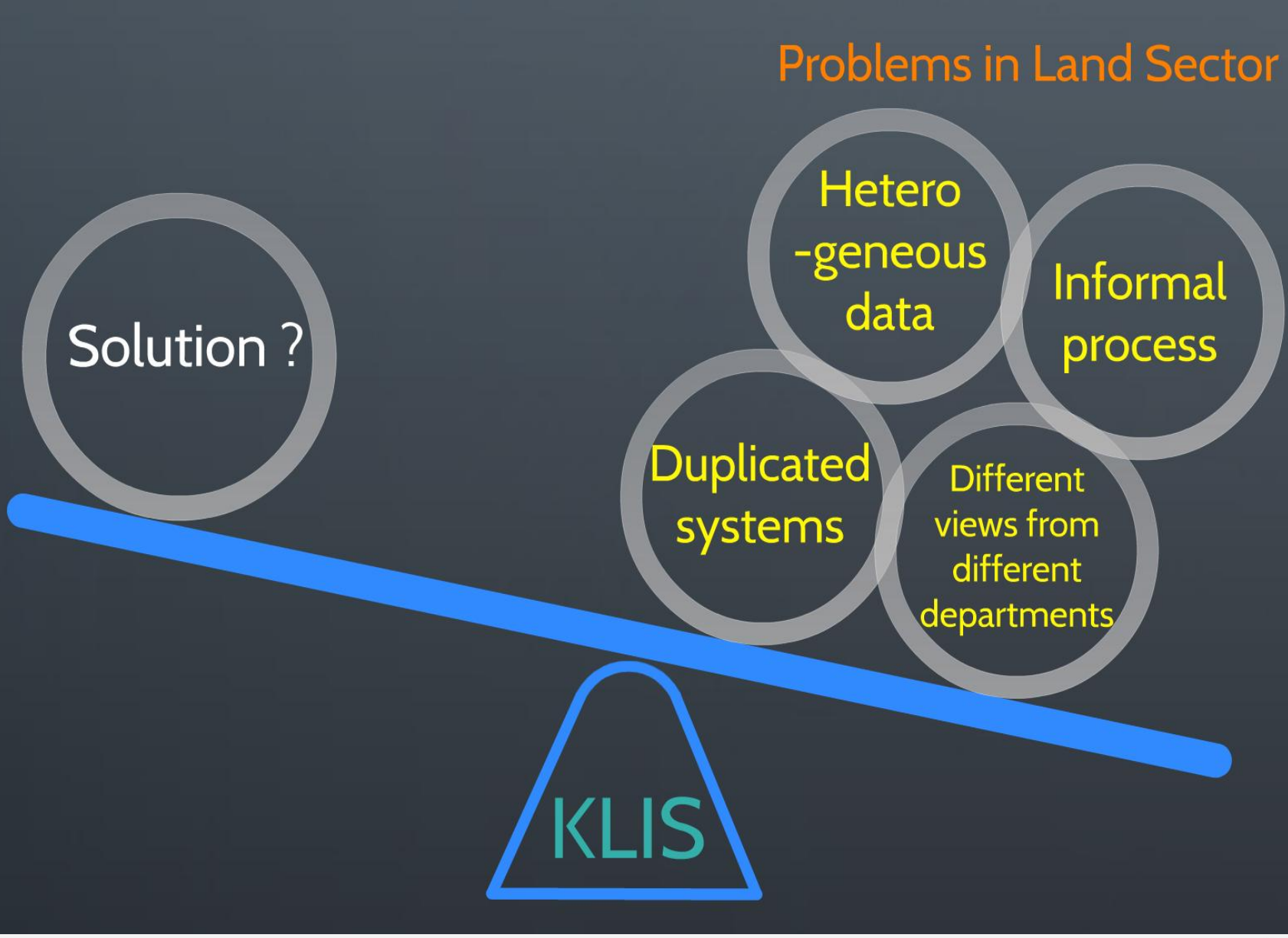
- Civilians killed: 0.8 million people
- Separated Families: 10 million people

* Population of Korea (south & north) was 30 millions in 1950.

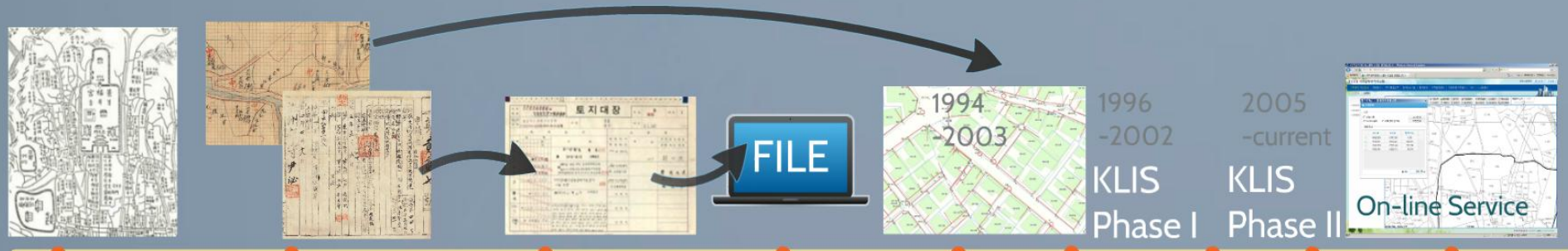
- More than 80% of the infrastructure and facilities in Korea were totally destroyed.
- GNI was only $67 in 1953.

Economic development from the ashes of war

GDP($): 1.44 trillion in 2015
Ranked 11th in the world


Problems in Land Sector
Solution ?
Hetero
-geneous
data
Informal
process
Duplicated
systems
Different
views from
different
departments
KLIS

History of KLIS and e-Government in Korea



History of Korean e-Government

NGIS (National Geographic Information Structure) Project

1996
-2002
KLIS
Phase I

2005
-current
KLIS
Phase II

1975
Card-shape land-book

1978-1984
Digitization of land-book

1994
Digitization of map

1996

2003

2005

2010

Inception (-1996)

Foundation(-2000)

Launch

Diffusion(-2007)

Maturity(-current)

1978

1996

2000

2003

2008

- Expansion of integration of e-Government

Maturity of e-Government

2008 current

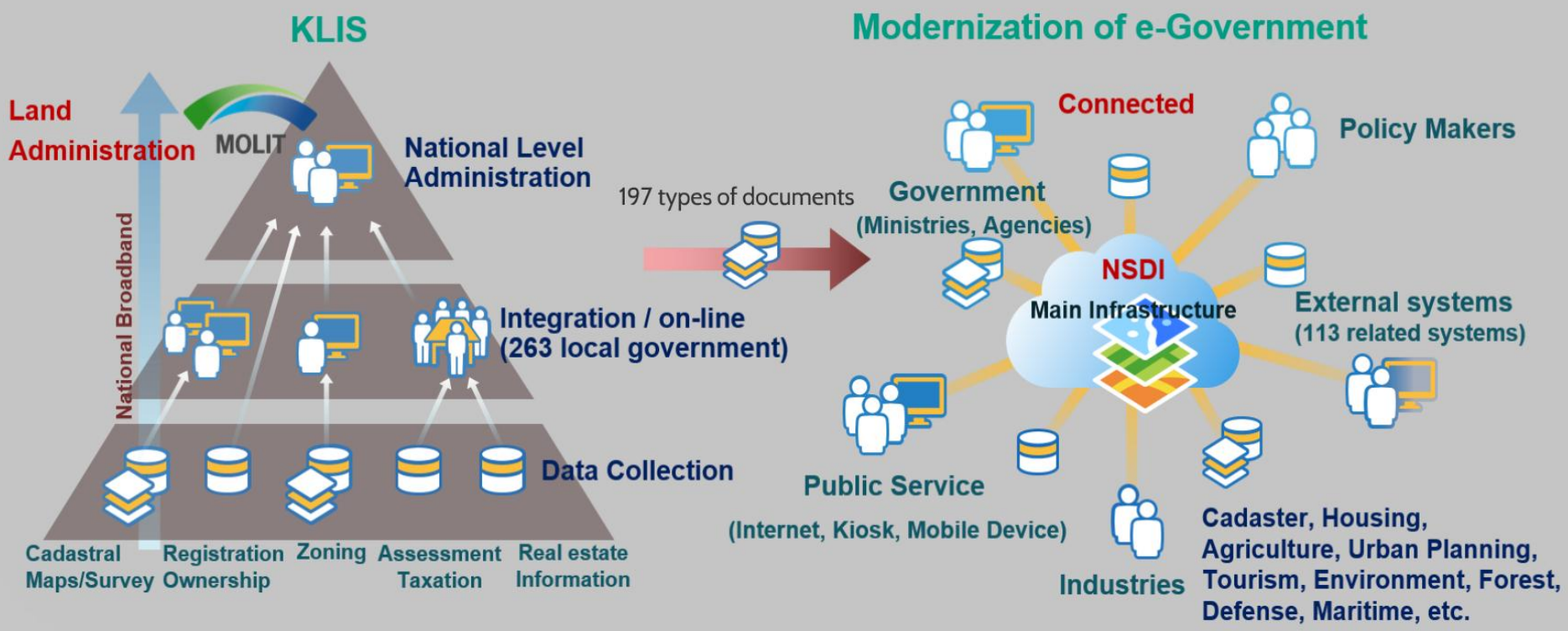
Expansion of integration of e-Government

- General civil services
- Immigration control services
- On-line procurement services
- Home tax services
- e-customs clearance services
- Land information services

⋮

KLIS

KLIS Service



Advanced Service

KIOSK Service

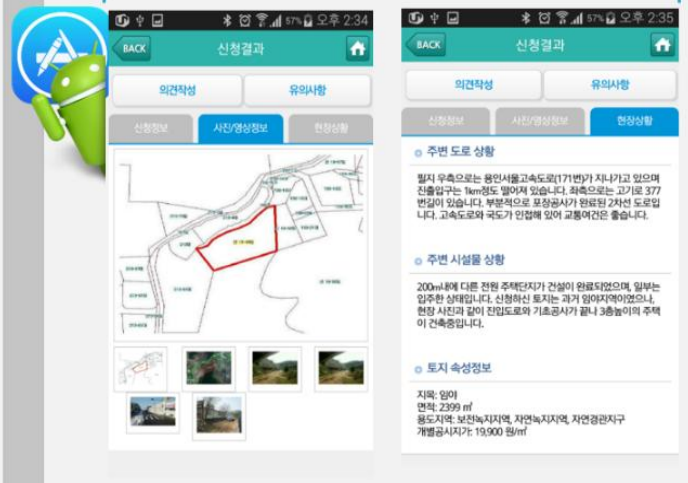
Community Center

Bank

Market

Mobile Land Information Service by LX

- Land Info. Service
- Area Search
- Navigation
- Evacuation Route



Reduction of administration-cost and time

Service	Before	After
Issue an official copy of land register	20 minutes	Instant
Issue an official copy of land use plan	20 minutes	Instant
Access to publicly noticed individual land price	10 minutes	Instant
Permit of land transaction	10 days	1 day
Formal objection to appraised value of land	10 days	3 days
Register real estate agency	5 days	1 days

Benefits

Access to land information

unit : million

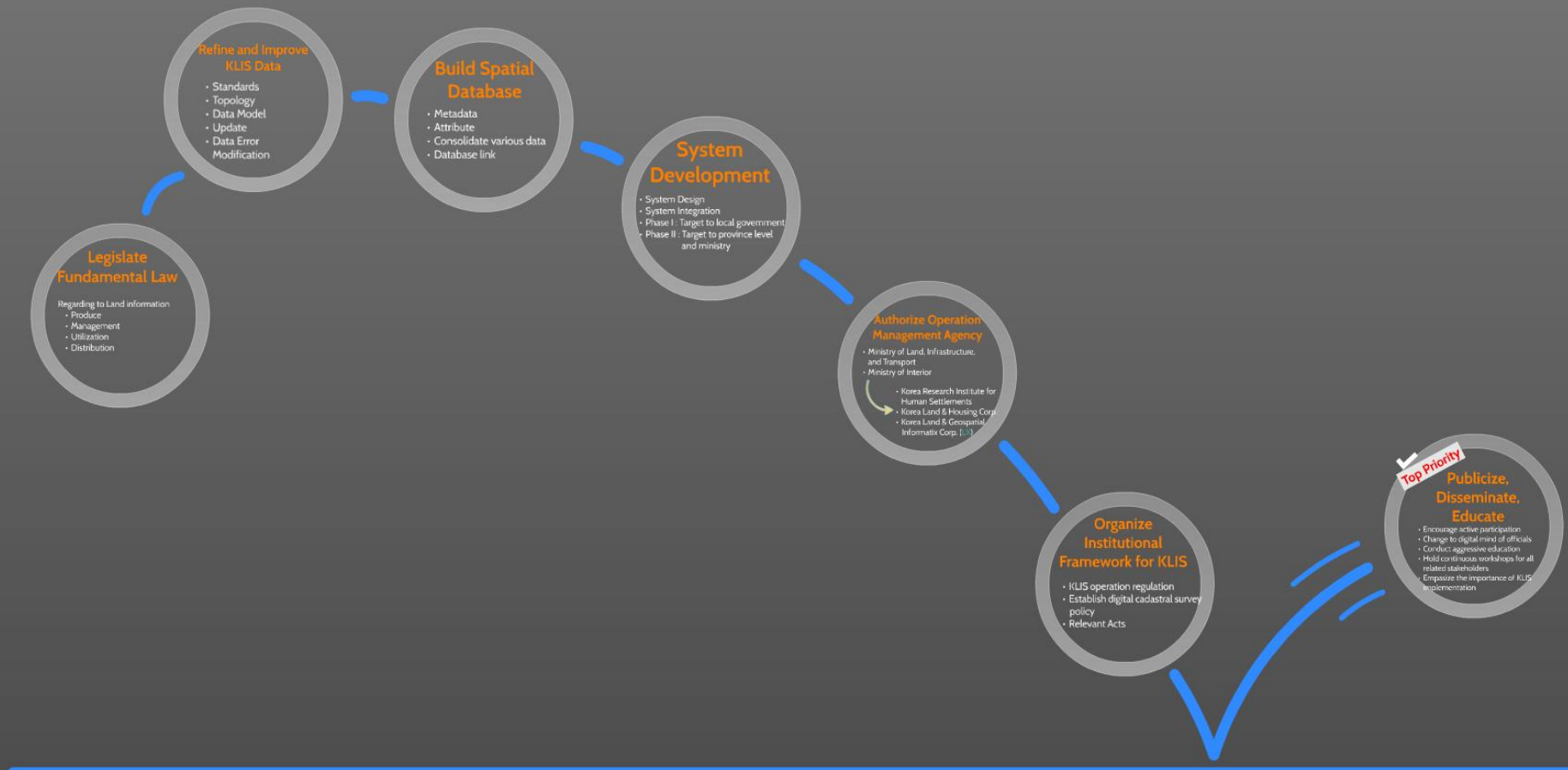
Service	Total	Transaction				
		2010	2011	2012	2013	2014
Copies of land register (ownership)	55.2	11.3	11.6	10.6	10.8	10.9
Copies of land-book (cadastre)	46.2	7.9	8.3	9.1	12.0	8.9
Confirmation Land Use Plan	1.1	0.2	0.2	0.2	0.3	0.2
Grand total	**102.5**	**19.4**	**20.1**	**19.9**	**23.1**	**20.0**
Cost saving ($3 for each transaction) unit : million $	**307.6**	**58.3**	**60.3**	**60.0**	**69.2**	**59.8**

20 million

transactions per year

$ 60 million

Cost Saving per year



How to achieve goals?

Legislate Fundamental Law

Regarding to Land information

- Produce
- Management
- Utilization
- Distribution

Refine and Improve KLIS Data

- Standards
- Topology
- Data Model
- Update
- Data Error Modification

Build Spatial Database

- Metadata
- Attribute
- Consolidate various data
- Database link

System Development

- System Design
- System Integration
- Phase I : Target to local government
- Phase II : Target to province level and ministry

Authorize Operation Management Agency

- Ministry of Land, Infrastructure, and Transport
- Ministry of Interior

- Korea Research Institute for Human Settlements
- Korea Land & Housing Corp.
- Korea Land & Geospatial Informatix Corp. (LX)

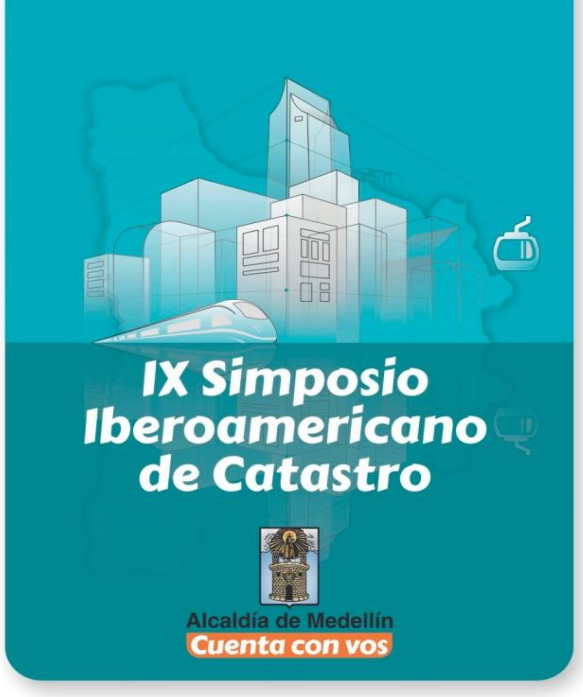
Organize Institutional Framework for KLIS

- KLIS operation regulation
- Establish digital cadastral survey policy
- Relevant Acts

Top Priority

Publicize, Disseminate, Educate

- Encourage active participation
- Change to digital mind of officials
- Conduct aggressive education
- Hold continuous workshops for all related stakeholders
- Emphasize the importance of KLIS implementation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¡GRACIAS!