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GIS market of Korea

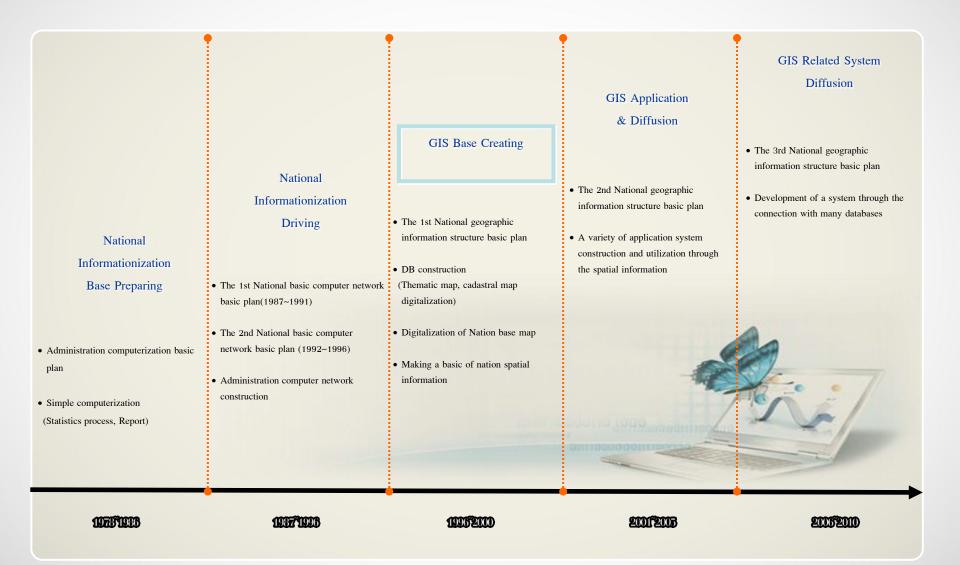
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UNCOMAP

Korea GIS History

I.GIS market of Korea





- The 4th National Spatial Information Policy Basic Planning(2010~2012)
 - Rational utilization of National land and resource,
 - Comprehensive plan : to maximize utilization of national spatial information

Efficient Management by MOLIT(Ministry of Land Infrastructure and Transport)

I.GIS market of Korea



UNCOMAP

5th National GIS Policy Basic Plan

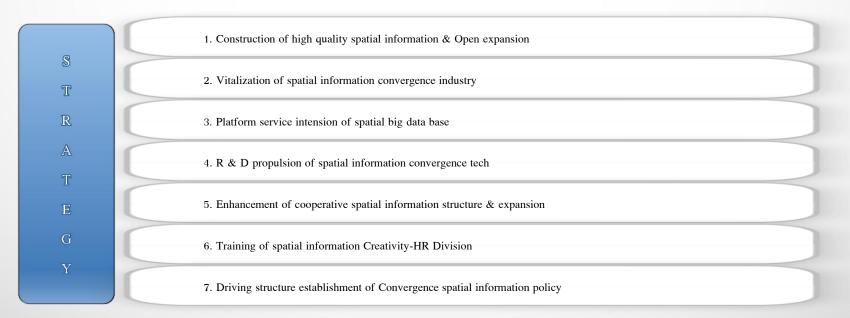
The 5th National Spatial Information Policy Basic Planning(2013~2017)

: The comprehensive plan for promoting the spatial information convergence industry under Government 3.0, the

paradigm for government operation and the rapid pace of ICT development.

Promoting the spatial information convergence industry is important for realizing Government 3.0 for supporting creating economy

and providing personalized services to individual citizens.



Korea Land Information System





IKLIS



Establish Goals

UNCOMAP



Digitization of the cadastral and land administrative affairs Leads the innovation of national real estate information services

Speediness and Correctness in civil complaint service

Prevention of Overlapping IT

Investment for Local Governments

Systematic data management

Common Use of

Data and Budget Savings

O System which supports the national land and real estate policies by adopting IT and GIS technologies to the cadastral and land administrative areas

• Saves budget through common use of spatial information with other systems and prevention of overlapping investment by the standardization of national spatial information and the construction of related services

II. KLIS





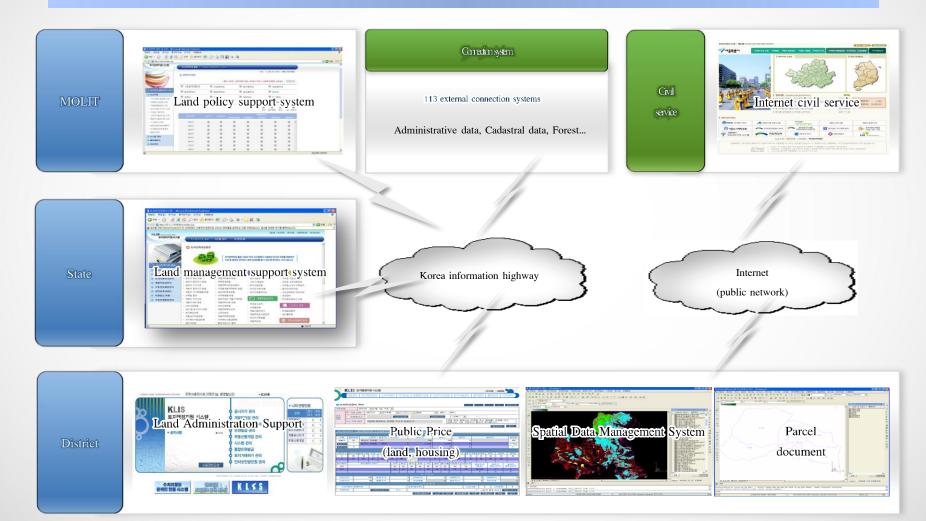
- Determination of KLIS driving direction and KLIS integration & driving strategy(2001)
- KLIS development project and diffusion(2003~2006), Enhancement(2006~2010)
- KLIS maintenance project(2011~)

II. KLIS



Key Roles

Seeking future value through resource sharing



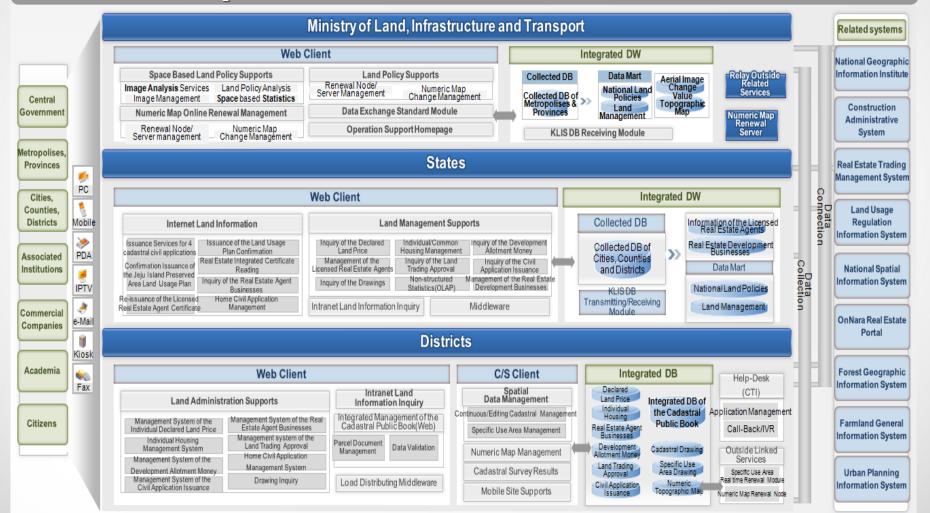




II.KLIS

- Land Administration Support System
- Parcel Document Management System
- Continuative Compiled Map Management System
- Land Use Zoning Management System
- State KLIS System
- MOLIT KLIS System

System which produces, offers and shares the spatial information based on the latest IT services





• Performs the management of land and real estate administrative support affairs

- Individual Declared Land Price Management
- Individual House Price Management
- Real Estate Agent Businesses Management
- Integrated Civil Application Issuance Management
- Development Allotment Money Management
- Land Trading Approval Management

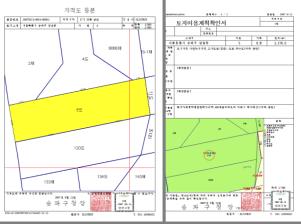


KLIS Subsystem-1.Land Administration Support System

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Main Function

IKLIS

- Performs a variety of land administrative support affairs like real estate agency businesses based on national spatial information
- Supports the assessment of individual declared land price and individual housing price
- Provides a variety of reports like all sorts of registers related with performing land administrative affairs
- Performs the civil application issuance including drawing information like cadastral drawing and confirmation letter of the land usage plan

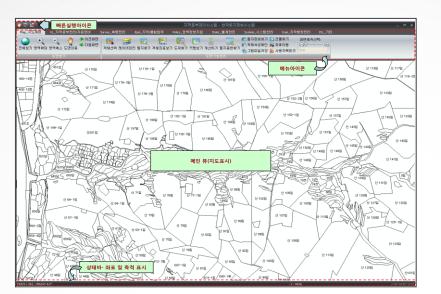


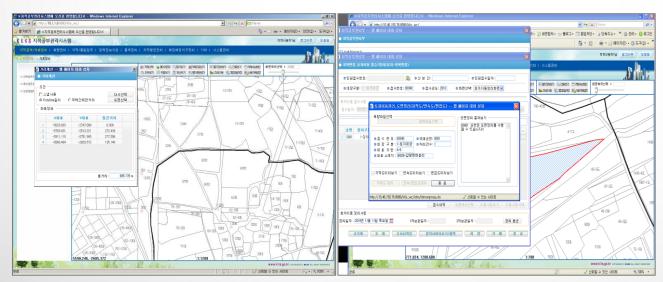
• Register the information about all sorts of land to parcel document management system

O Main Function

- Land alteration
- Information maintenance
- Cadastral survey management
- General land affairs
- Policy information management
- Statistics management

KLIS Subsystem-2Parcel Document Management System





Main Function O Manage the land movements like land division and merger • Manage the ownership change like land ownership preservation and transfer O Manage the cadastral survey reference mark and cadastral (forest land) drawing information O Provide the cadastral survey file and

- manages the cadastral survey results
- O Provide the cadastral statistics information and report
- O Manage the daily closing of cadastral administrative affairs

• Performs the management of continuative compiled map to use for land administration

II. KLIS

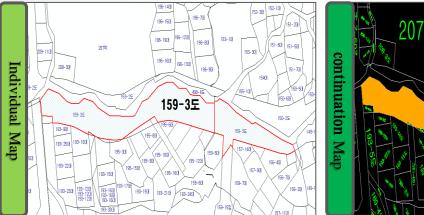
support affairs reflecting land alteration

O Main Function

- Drawing management
- Compiled map management
- Continuative compiled map management
- Error checking



KLIS Subsystem-3.Continuative Compiled Map Management System



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Main Function

IKLIS

- Use for land administration support affairs with continuation of the individual land
- O Shp file uploading/downloading
- Users can edit the drawings and store in DB
- Management of the records of work : manages the saved records reflecting land alteration
- O Management of nonconforming region
- O Checks classification of land





KLIS Subsystem-4.Land Use Zoning Management System

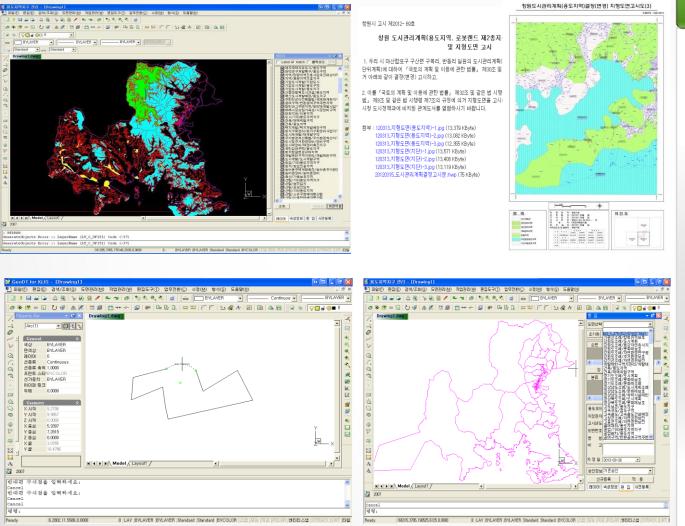
• Provides management functions consist of creating, editing and deleting of use district

O Main Function

- Search queries
- Drawing management
- Work management
- Editing tool



KLIS Subsystem-4.Land Use Zoning Management System



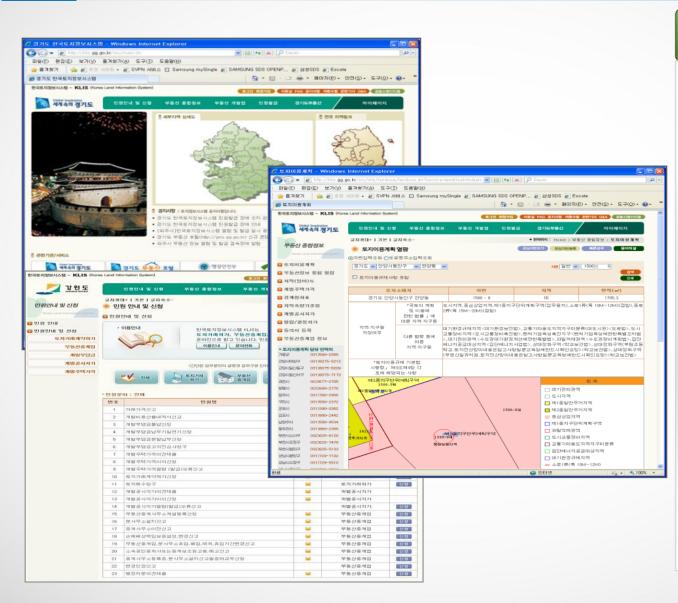
Main Function

IKLIS

- Provides land use zoning management functions included information about the regulation of land use.
- Announces cadastral information according to the Framework Act on the Regulation of Land Use.
- Records the data through KLIS system after obtains approval of person in charge.



KLIS Subsystem-5.System for State



Main Function

IKIS

- Reads and issues of 13 civil application services like the confirmation letter of land usage plan
- Provides 23 home civil application services like objection application for an individual declared land price via internet
- Issues the confirmation letter of land usage plan, certified copy of cadastral drawing and confirmation letter of an individual declared land price
- Provides the comprehensive real estate information
- Manages the civil applications like individual declared land price, objection application for an individual housing price



KLIS Subsystem-6.System for MOLIT #1

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II. KLIS

Main Function

- Compiles statistics and performs spatial analysis needed for policy decision based on the nationwide continuous cadastral drawing and specific use area drawing
- Analyzes the usage rate by monitoring KLIS operating status
- Inquires spatial information like nationwide continuous cadastral drawing and administration boundaries
- O Extracts the specific use area data
- Analyzes the comprehensive real estate information
- Non-structured statistics analysis like annual land price change rate
- Spatial analysis for each status of the development planned sites
- Printing of the spatial analysis data report



KLIS Subsystem-6.System for MOLIT #2

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모니터룀		+서동특별시	1,024,413	987,904	96,4%	1,007,299	973, 795	96,70			
시문구별수립한황 조회		+부선말역시	646,413	615.149	凭2%	627.242	599, 796	95.E			
자로넣수집현황 조석		+대구왕역시	428,841	378,737	88,3%	412,862	367,066	88.5			
자료방방입원함 조정		+인환왕역시	345,758	318,097	\$2%	325,725	302,095	92,1			
공간자로EXPORT 조회		*분주함역사	412 705	370.538	92%	374,869	350.248	93.4			
수집일 자료조회		+대전황약사	297,238	24(2819	81,4%	280,915	239,678	85,5	-		
수집차이발망자를 초회		+돌산광역시	197,038	144,178	73,2%	180,885	140,124	77.5			
방합차미발방자로 조회	-29	*275	1.454.392	1.012.248	杨伟	1.371,488	955,271	69.7			
사스템모니터럴		+강원도	395,157	228,997	68,3%	304,877	214,535	70,4			
일일취립자#원 항 통계		+泰然何乐	257,211	165,930	64,5%	244,167	160,667	纸目			
+ 년/공봉취합자로볼게		*충성남도	295.212	173,472	68%	247.074	169.144	68.E 🛩			
· 환용도속업	-	ARRING	¢								0
시스템 관리					2 한국토지정5					Transferration and the second	
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						-				로그인 회원가입 사이	150



Main Function O Monitors KLIS operating status Analyzes the city/county/district KLIS usage rate • Provides the statistics for nationwide land administrative affairs O Supports maintenance of KLIS System and provides information about KLIS System included instruction, schedule, notice

O http://www.klis.go.kr

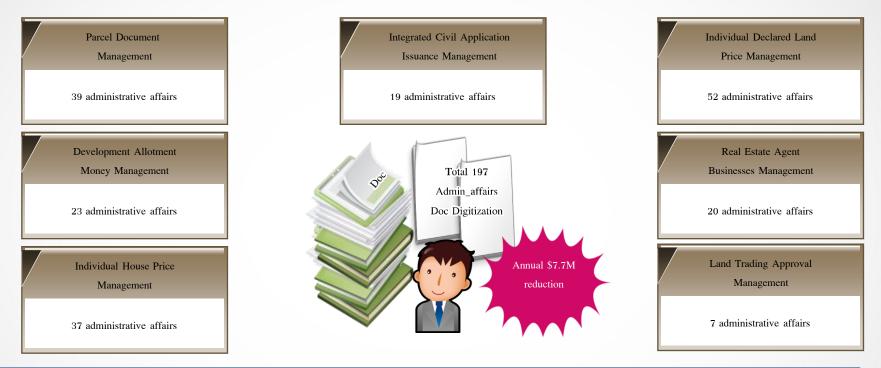
contents, etc.

Expected Effect



Save the Money - digitization of documents

Digitization of documents to 197 administrative affairs



Classification	2008	2009	2010	2011	2012
# of local governments	232	232	232	230	229
Cost reduction(Million \$)	7.8 M\$	7.8 M\$	7.8 M\$	7.7 M\$	7.6 M\$

>>> 230 local governments * 197 documents * average costs (170\$)



UNCOMAP

Save the Money — related system reading services

III. Expected Effect



Classification	Related system reading services	Land usage plan and confirmation reading services	individual declared land price reading services	Total
Annual cases(Million cases)	100.0	55.4	23.3	178.7
Cost reduction/case(\$)	2.0\$	2.0\$	2.0\$	2.0\$
Total cost reduction(Million \$)	200.0 M\$	110.8 M\$	46.6 M\$	357.4 M\$

Time-reduction : 60minutes/Issuing one document(visiting time 40m + queuing time 20m)

Solution is number of annual cases * cost reduction per case (Economic statistics from Korea Bank)



UNCOMAP

"Prevention of DB redundant construction" for Local Governments through the DB Providing

III. Expected Effect



>>> DB Construction Cost per District (\$160,000),

>>> DB Reconstruction Cost(\$48,000 = 30% of Construction Cost)



Provide parcel based land information to nation, local government, central department and related organization

- 1. Support land administrative support affairs & informatization oriented project of local government
- 2. Provide information is connected with field of land
- 3. Provide valuable public service (annually over 100 million cases)
- 4. Maintenance of spatial & attribute data

IV. The Future of KLIS

UNCOMAP

Survey Paradigm Change-Development of High Tech Equipment

- Easy to Measurement - Development of Surveying Tech. (GPS, Electronic Plane Table)

- One Stop System from Survey to Data processing

D

Data Digitalization & High capacity Data Processing Tech. Development

- Digital data makes useless analog data.
- The data acquisition, processing, storage technology (System structure revolution)

Convergence of IT & GIS

- IT Trends : Digital Convergence
- Data Communication Service via Smart Phones are widespread.

IV. The Future of KLIS



IV. The Future of KLIS



Thank You !