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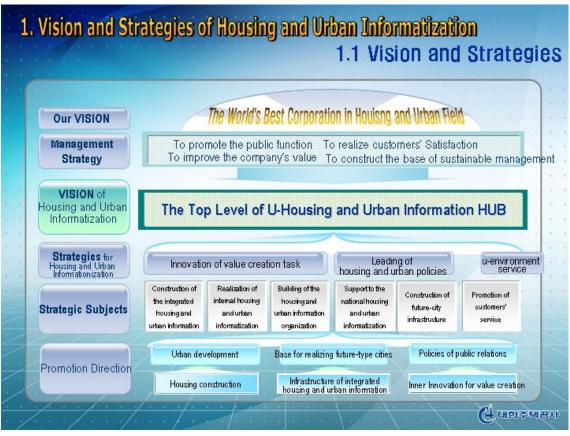
- 1. Vision and Strategy of Housing and Urban Informatization
- 2 JUGIS I

GIS Application in New Town Development Process

3 JUGIS II

GIS Application in Urban Redevelopment Process

4 Direction of Future Informatization





1. Vision and Strategies of Housing and Urban Informatization 1.3 Phases of Implementation

2nd Step ('07~ '08)

system

· Geo-Spatial Information System

1st Step ('04~ '06)

Planning Support System

Construction and operation of JUGIS

- Development of new task
- Expansion of the existing system

Construction of Housing and Urban Geographic Information network

- Support to governmental policies
- Business competitiveness improvement and Value creation
- Service improvement

Trimming('10~)

- Trimming of system
- Construction of decision-making support system

Leading **U-Policies**

U-Housing and Urban Information HUB

Realization of

· Maintenance of system

3th Step ('08~ '09)

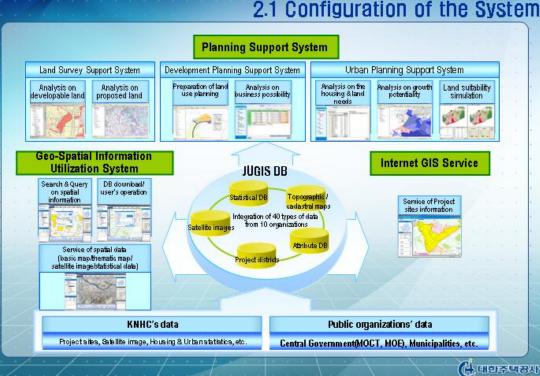
 Improvement of information infrastructure

- Leading of housing and urban imformatization
- · Established frame of U-housing and urban information
- Improved position of KNHC
- · Leading of quick and exact policy decision-making

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2. JUGIS I

2.1 Configuration of the System



2. JUGIS I

2.2 Geo-Spatial Information Utilization System

Three-dimensional map

Three-dimensional topography

Satellite image service

- Satellite image with high-level resolution (Quick Bird)
- SPOT satellite image
- LANDSAT satellite image



Statistical service

- Housing and urban statistics
- Urban planning statistics
- Year book of Housing and Urban statistics

Base map service

- Topographic map
- Cadastral map
- Urban management planning map

Thematic map service

- Land data (KLIS)
- Environment/agriculture data
- Land use regulation data

Project site information service

- General information
- Progress status
- Related libraries

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2. JUGIS I

2.2 Geo-Spatial Information Utilization System

Geo-Spatial Information Utilization System

Survey on public regulations Survey on public regulations



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2. JUGIS I 2.3 Planning Support System Main screen 44000 M ± 0 m Land suitability simulation 000000000 otential development areas analys Land suitability assessment Simulation on Potential develop Analysis on data of managed land Analysis on exclusion/coincidenc of spatial information Growth potentiality analysis Proposed site analysis Analysis of statistical and geographic data Analysis of the priority of the proposed site considering circumstances Spatial information + statistical analysis Evaluation of growth potentiality Drawing up landuse planning m 192 (95.90) Housing & land needs analysis 792 (N7: N2) Auto-preparation of land use plan Analysis by District/zone units 492 and housing plan with spatial data Consideration of various planning Analysis of three-dimensional landscape Feasibility analysis Application of both cadastral map and notice land price Automatic calculation of land cost Suitability analysis through business simulati (In CHIEF THEAT

2. JUGIS I

2.4 Application in the Process of New Town Development

Institutions of new town development

1. Related Regulation

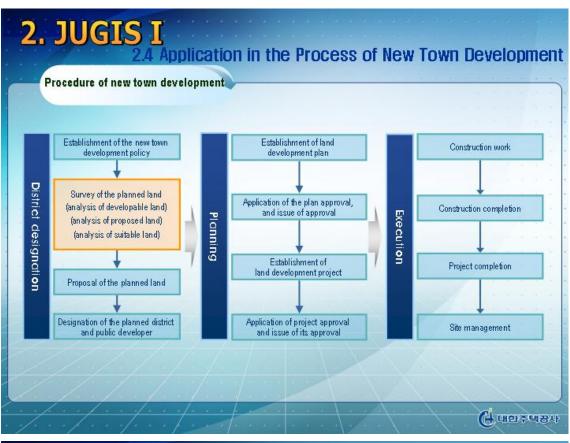
the Act of Housing Site Development Promotion

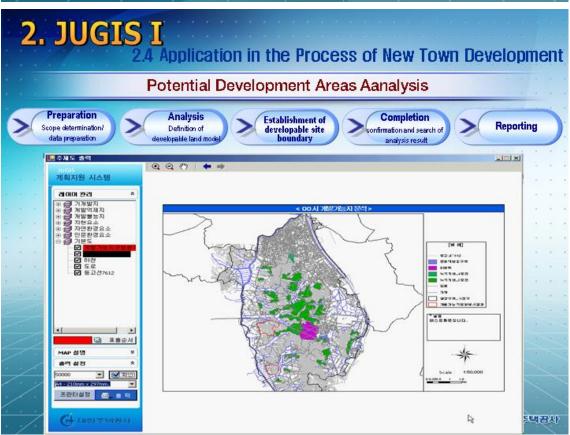
2. Objectives

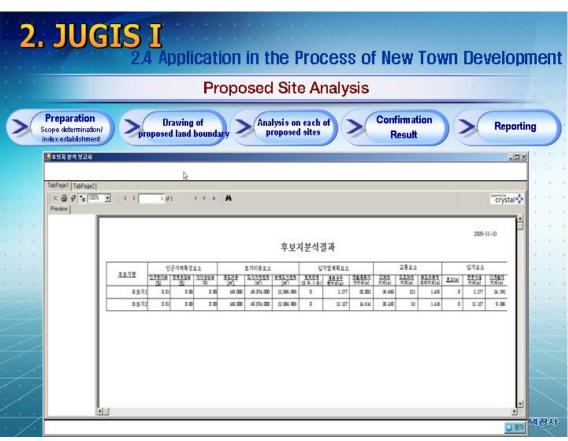
The development and supply of housing sites necessary to construct houses for solving the problem of site shortage in urban areas are:

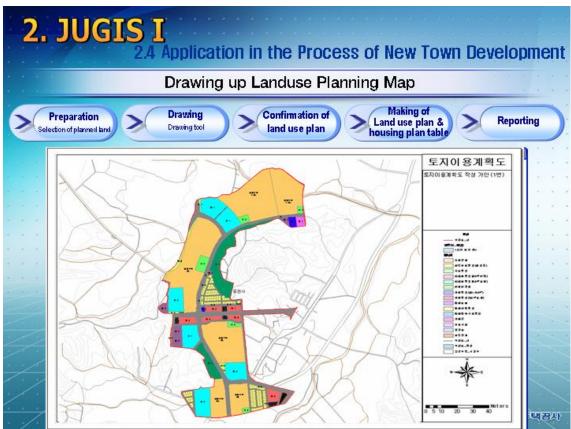
- To contribute to improving the national housing stability and welfare
- To expand the urban infrastructure including roads, train, etc.
- To induce the balanced national development with development profit reinvested to the public section
- To prevent the speculation in real estate and encourage the stability of land price with the large development of public housing land

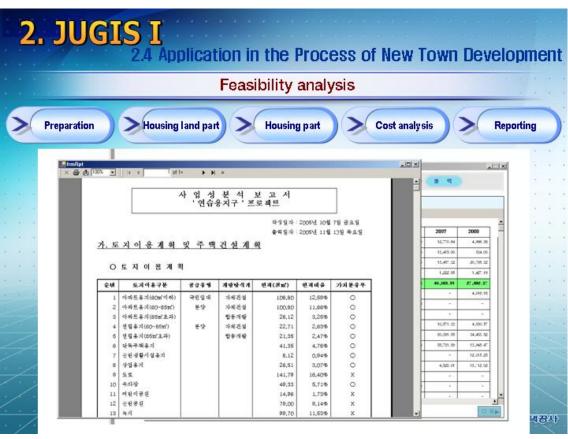


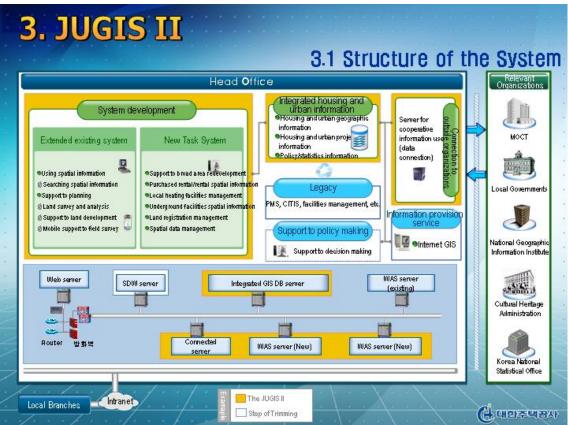












3. JUGIS II

Broad-Area Redevelopment Project Support System

- Analysis on the proposed sites and infrastructure cost, Simulation of sharing urban infrastructure cost

[사업후보지분석]

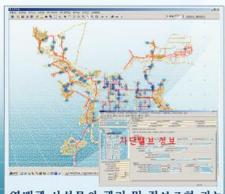


3.2 Main Contents

■ Local Heating Facilities Management System

Management of facilities and houses,
 early detection and treatment support of disorder, etc.

[열배관 시설물 관리]



열배관 시설물의 관리 및 정보조회 가능

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3. JUGIS II

- Support System of Purchased Rental / Rental Housing Information
- Search and query of applied buildings, support to occupants and housing management

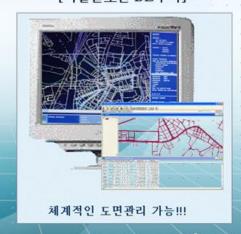
[입주자 및 주택관리]



3.2 Main Contents

- Facilities Spatial Information System
- Support of facilities management, establishment of the underground facilities DB, and its management quideline

[시설물도면 DB구축]



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3. JUGIS II

3.3 Application in Urban Redevelopment Process

Institution of Urban Redevelopment

1. Related Regulation

the Special Act for Urban Redevelopment Facilitation Project

2. Objectives

The institution to support urban—redevelopment facilitation projects for the purpose of improving residential environment, extending infrastructure sufficiently and restoring the urban functions for urban deteriorated areas

- To improve residential environment through infrastructure construction at broad urban deteriorated areas
- To expand housing supply with the modified construction regulations
- To prevent excessive individual profit through collecting development profit



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3. JUGIS II 3.3 Application in Urban Redevelopment Process Procedures of Urban Redevelopment Facilitation Projects Documentation for the application Establishment of plans Construction work District designation Application for district designation Application for the plans' determination Construction completion Planning Execution Deliberation by Deliberation by the committee of urban redevelopment Project completion the related committees Designation and notice Determination and notice Site management

3. JUGIS II

3.3 Application in Urban Redevelopment Process

Outline on The Urban Broad-Area Redevelopment Support System

Outline

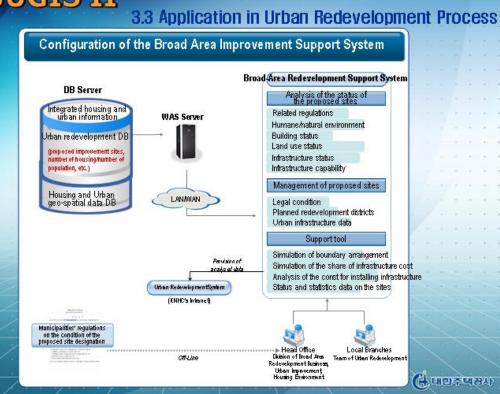
- This system supports the scientific and efficient establishment of urban redevelopment projects through analyzing various spatial information;
- to analyze the proposed sites
- to support the analysis of feasibility
- to simulate the share of infrastructure construction cost
- to support the policy of urban redevelopment

Direction

- To use the basic data including national map, cadastral map, etc.
- To construct the practice application based on Web
- To improve feasibility with rational spatial analysis
- To use GIS data on the planned districts of urban redevelopment and the district plans
- To use know-how / knowledge of urban experts
- To predict areas requiring urban redevelopment in the future

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3. JUGIS II



3. JUGIS II 3.3 Application in Urban Redevelopment Process Show of The Urban Broad-Area Redevelopment Support System

