

Seoul Urban Planning Information System (UPIS)

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II Project overview

III Major functions of UPIS

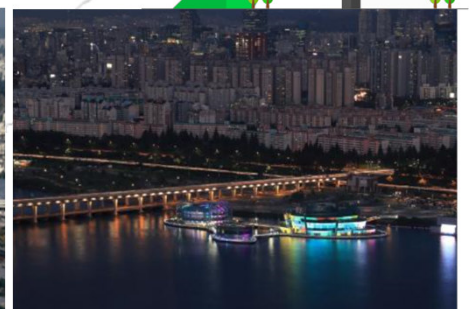
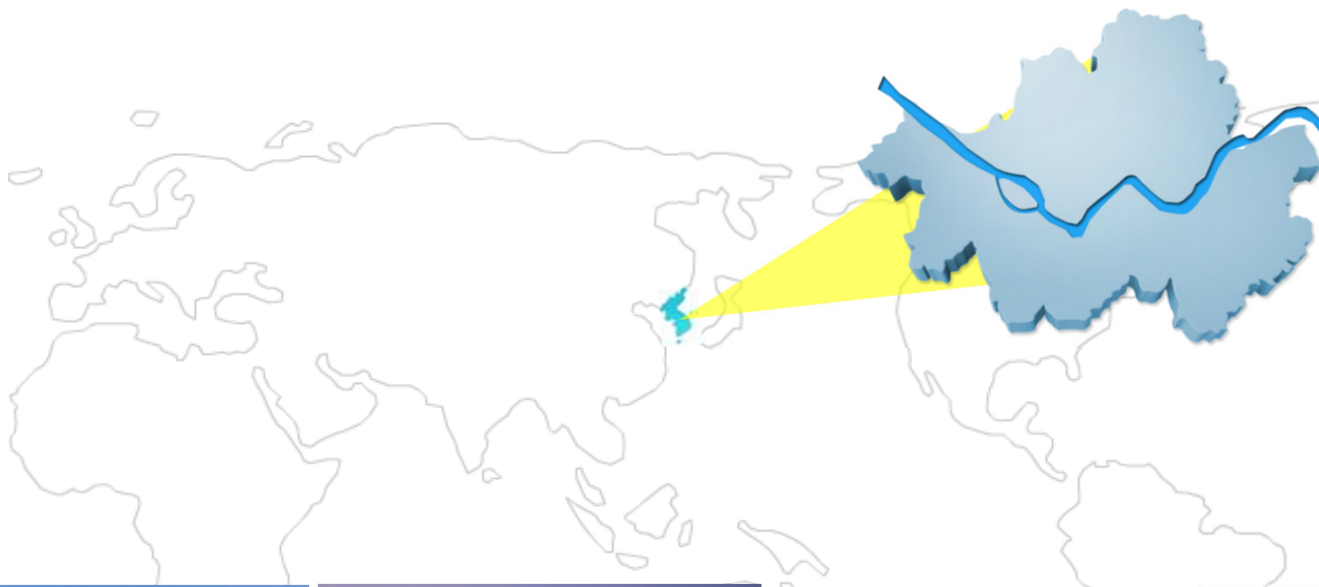
IV Effects of UPIS



1. Location of Seoul



Located in the middle of Northeast Asia.
Capital City of the Republic of Korea, **Seoul**



2. History of Seoul



I·SEOUL·U

너와 나의 서울

I. 사업개요 | | | |



Joseon Dynasty (1394~)



Japanese occupation (1910~1945)



Restoration from Korean war (1950)

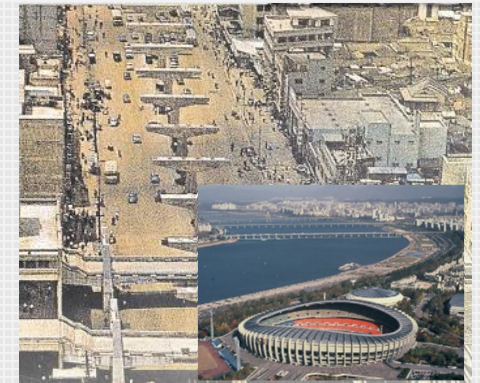
As of 2018
Area : 605.24km²
Population: 10,124,579
Budget : \$ 37 billion USD
Automobile: 3,116,000

A city with 600 years of history.
Seoul, a capital of S.Korea
with 10 million citizens

Global top 10 city



10 million citizens



Rapid urbanization and urban
development (1960~1980)

3. Before the Urban Planning Information System (UPIS)

Paper-based documents and floor plans



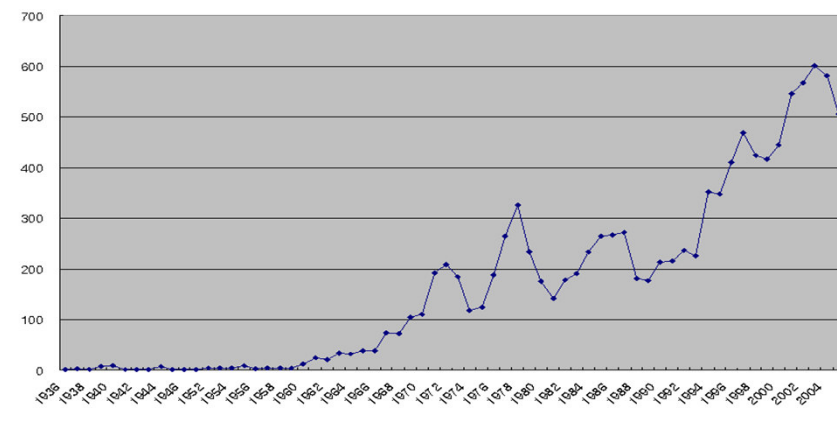
The little bulletin board in front of government



Urban planning info which is scattered in the different city websites



Increase of changes in the urban planning and management



4. Goals of UPIS

Seoul Urban Planning Portal & Urban Planning Information System

Continuous Informatization of urban planning

01 To Citizens

Provide clear and accurate information about urban planning

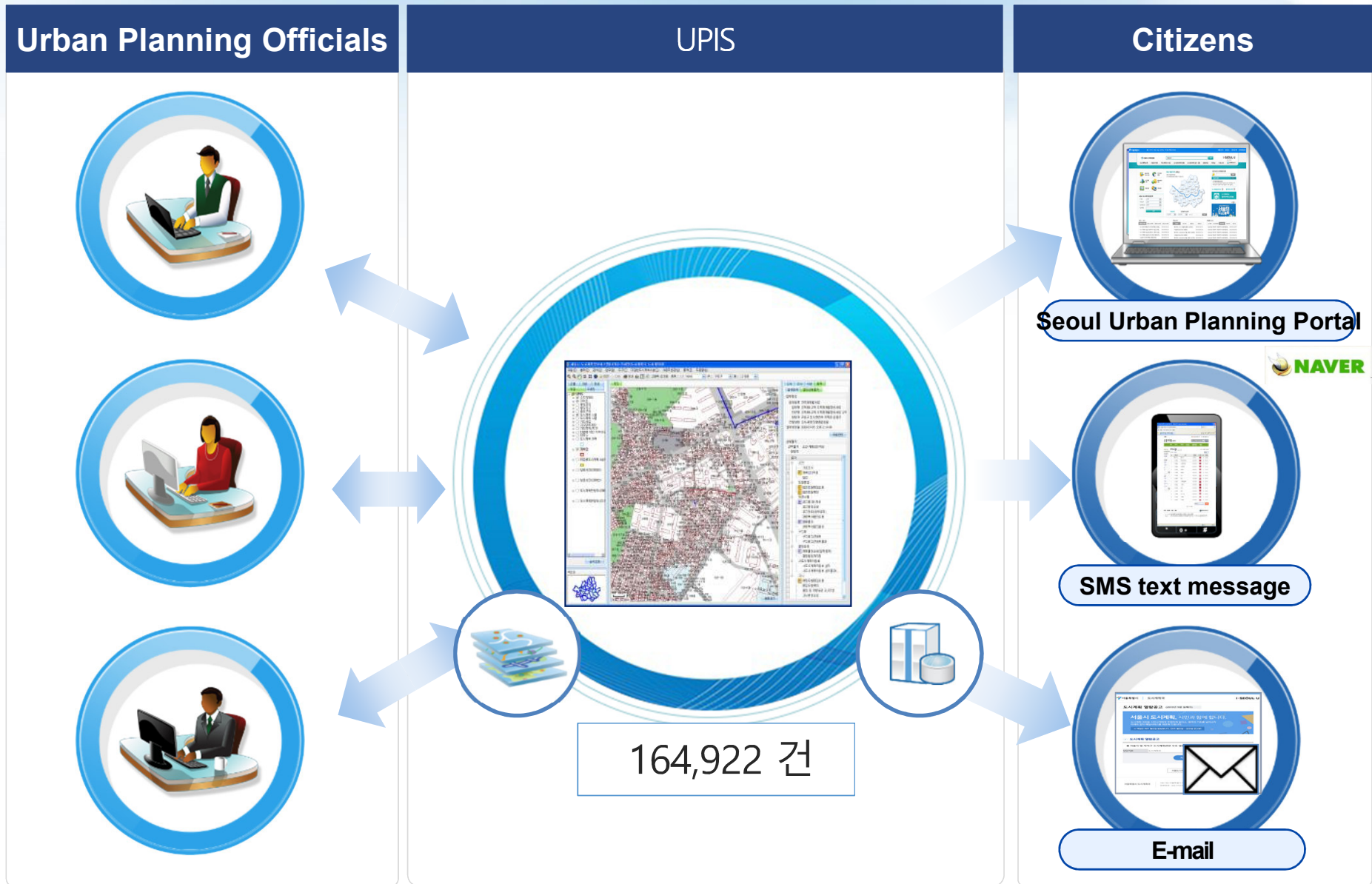
02 To Officials

Support efficient and reasonable decision making on urban planning

03 To Future generations

Management of sustainable urban planning information

5. Utilization of UPIS



6. Functions of UPIS



● Providing GIS Map-Based Intuitive and Specific Urban Planning Information

- Two-dimensional(2D) or Three-dimensional(3D) maps

● Delivering Customized and User-Friendly Urban Planning Information

- Through Seoul Urban Planning Portal, SMS text message and e-mail

● Support Decision Making through 3D Decision Making Support System

- Analysis of sunlight, topographical profile, view shade , altitude and latitude , etc

● Support Efficient Decision Making by Connecting it with Urban Planning related info from other information systems real-time

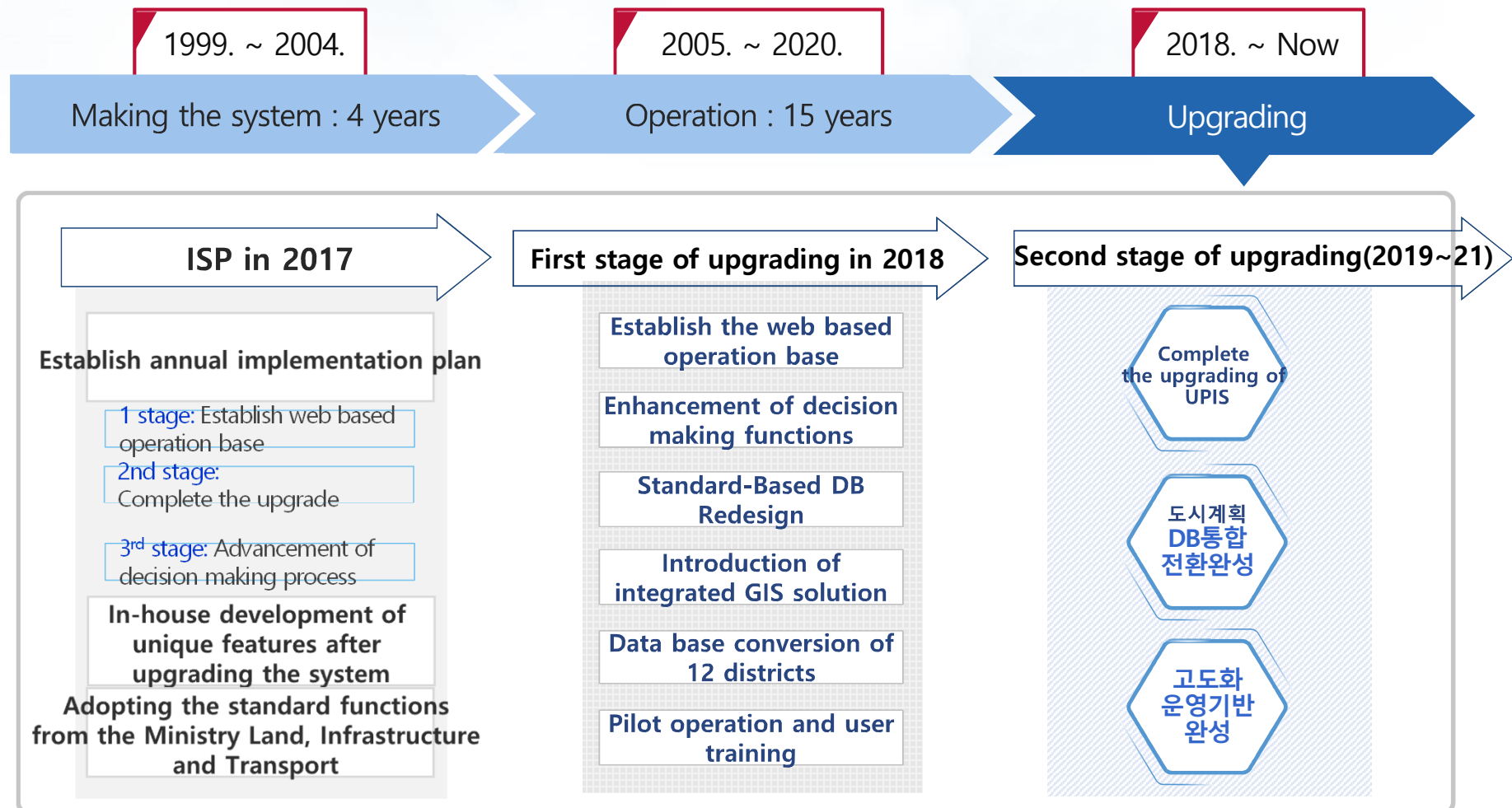
- Information such as building register, land use plan, etc

● Providing Integrated Search to Find Out All Related Information at Once

● Provide Explanations on the Difficult Terms and Procedures for the Citizens

7. Implementation Status of UPIS

After the establishment of UPIS in 1999, Informatization Strategic Plan(ISP) was established in 2017 and the **advancement of UPIS** has been implemented since 2018



8. Operation of UPIS



Urban Planning Information System (Administrative work)

- ▶ Providing city planning information which is essential for city planning based on maps
- ▶ Urban planning status and history search and registering decisions and status about land, architecture and aerial photos

▶ **Establishing database for floor plans and decisions about city planning : 164,922(as of 2018)**

▶ **# of users in 2018 : 23,593 ※ # of users per month 1,966**

Urban Planning Portal (for citizens)

- ▶ Providing information on areas of use, districts, zones, district unit plans, city planning projects, etc
- ▶ Release of notices and data through connection with UPIS

▶ **# of users in 2018 : 401,921 ※ # of users per month: 33,493**

9. Seoul Urban Planning Portal - Full Screen

I·SEOUL·U

너와 나의 서울

||| 주요기능 |||

The screenshot displays the Seoul Urban Planning Portal (I·SEOUL·U) with the following components and callouts:

- Callout 1:** Points to the top navigation bar containing links like '서울특별시' (Seoul City), '2019년 외국인관광 도시민박업 및 한옥체험업 심화 아카데미' (2019 Foreign Tourist Homestay and Hanok Experience Deepening Academy), '서울소식' (Seoul News), '응답소' (Response), '정보공개' (Information Disclosure), and '분야별정보' (Information by Field).
- Callout 2:** Points to the '광고·고시' (Advertisement and Notice) section, which lists various notices such as '송파구 도시계획시설(도로)사업' (Songpa-gu Urban Planning Facilities (Road) Project) and '도봉구 도시계획시설(도로)사업' (Dobong-gu Urban Planning Facilities (Road) Project).
- Callout 3:** Points to the '서울시 도시계획 종합검색' (Seoul City Urban Planning Comprehensive Search) section, which includes dropdown menus for '구분' (Category), '자치구' (Autonomous City), and '검색조건' (Search Conditions), along with a '검색' (Search) button.
- Callout 4:** Points to the '알기쉬운 도시계획용어검색' (Easy-to-understand Urban Planning Terminology Search) section, which features a search bar and a '검색' (Search) button.
- Callout 5:** Points to the '지도 바로가기 서비스' (Map Shortcut Service) section, which includes a map of Seoul and a '지번검색' (Land Number Search) section with a '도로명주소검색' (Road Name Address Search) section.

The bottom of the page features a footer with the Seoul Urban Planning Portal logo, contact information (04515 Seoul City Jung-gu, 15, Seoul City Seosomuncheong 2-dong), and a list of partner organizations including the Ministry of Land, Urban and Planning, the Ministry of Transportation, and the Korea National Land Commission.

1 Seoul Urban Planning Portal

Seoul Urban Planning Portal

Introduction of Urban Planning	Change of Seoul	Major Plans and Projects	Current Status of Urban Management Plan	Drafting, Decision Making of Urban Management Plan	Square of Information	Archives	Introduction of Institutions
<ul style="list-style-type: none"> - National Land Space Planning System - Urban Management Planning - Regional planning - Development activity - Landscape Planning 	<ul style="list-style-type: none"> - City Formation and Change - Transition of Urban Planning - History - Changes in Map 	<ul style="list-style-type: none"> - 2030 Seoul City Basic Plan - 2030 Seoul plan for residential areas - Han Riversidd Management Basic Plan - Seoul City Planning Charter - Urban light policy 	<ul style="list-style-type: none"> - Purpose Area, District, Zone - District Unit Planning - Urban Planning-related Projects 	<ul style="list-style-type: none"> - Current Status of Drafting the Urban Management Plan - Reading Announcement - Notice of Decision - Implementation Plan 	<ul style="list-style-type: none"> - News - Press Releases - Committee - Tendering of Notice - Recruitment Test 	<ul style="list-style-type: none"> - Unified Search for Archives - Business Plan - Statistics - Business Resources - Urban Planning Laws - Examples of Urban Planning - Map of Ecological Status - Handbook of Civil Affairs 	<ul style="list-style-type: none"> - Greetings - Organizations & Business - Location

[More Views on Reading Announcement of Urban Planning & Notice of Decision](#)

All the reading announcements and decision notices of urban planning in Seoul and autonomous districts are posted together with detailed information (title, location, number of notifications, date, place of viewing, contact no. of the official, files of notice/announcement), and the range urban planning and model are marked on the map.

Announcements

★ **서울특별시 도시개발사업 제2019-2017호**

방화동 철거민이주대책 재건축 정비계획 수립·정기회계 지장 및 지장도면 고시

여주개발사업 제2019년 1월에서 일련하여 「도시 및 주거환경정비법」 제40조와 규정에 의거하여 방화동 정비구역 정비계획을 수립하고, 「도시계획규정 제정·개정법」 제40조에 규정에 의거 정기회계장을 고시합니다.

2019년 01월 01일
서울특별시 도시개발사업

2. 정비계획의 범위 : 방화동 철거민이주대책 재건축 정비구역

3. 정비구역의 범위 및 면적

구분	정비구역의 범위	면적	면적(㎡)	비고
지구	244-245길목부지 245-246길목부지	4,577.24㎡(4,575㎡) 30㎡	22,584.3	-

3. 정비계획의 내용

99. 부속이주대책

구분	명칭	면적(㎡)	지가(㎡)	비고
정비구역	정비구역	22,584.3	193.0	-
정비구역	정비구역	1,807.85	2.2	-
정비구역	정비구역	1,807.85	2.2	-
정비구역	정비구역	2,466.75	30.0	-
정비구역	정비구역	2,466.75	30.0	정비구역에 포함

10. 용도지역·지구별 관리요건

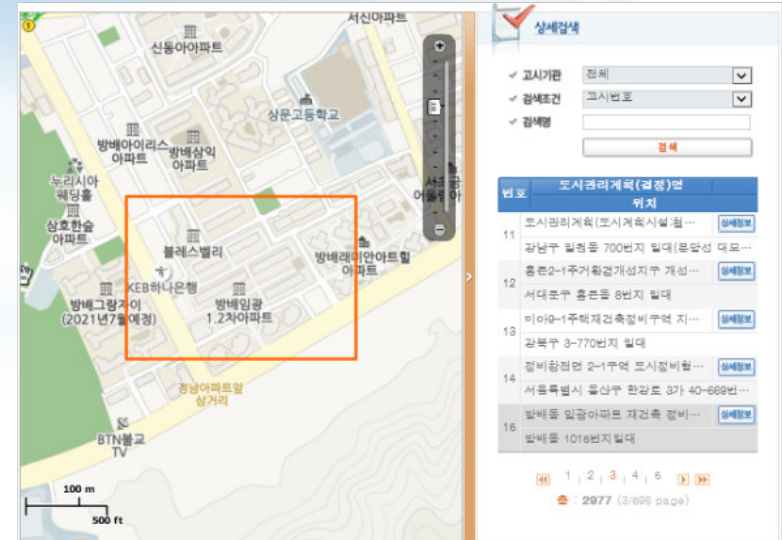
1) 용도지역·지구별 관리요건

구분	면적	면적(㎡)	면적(㎡)
지구	정비구역	22,584.3	193.0

2) 용도지역·지구별 관리요건

구분	지구명	지구면적(㎡)	지구명	지구면적(㎡)	지구명	지구면적(㎡)	지구명	지구면적(㎡)
정비구역	정비구역	22,584.3	정비구역	22,584.3	정비구역	22,584.3	정비구역	22,584.3

decision notices

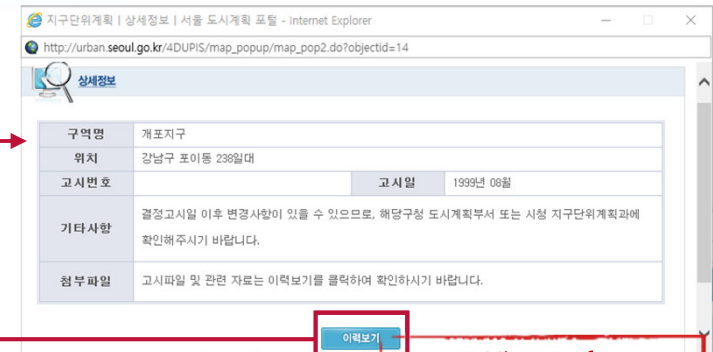
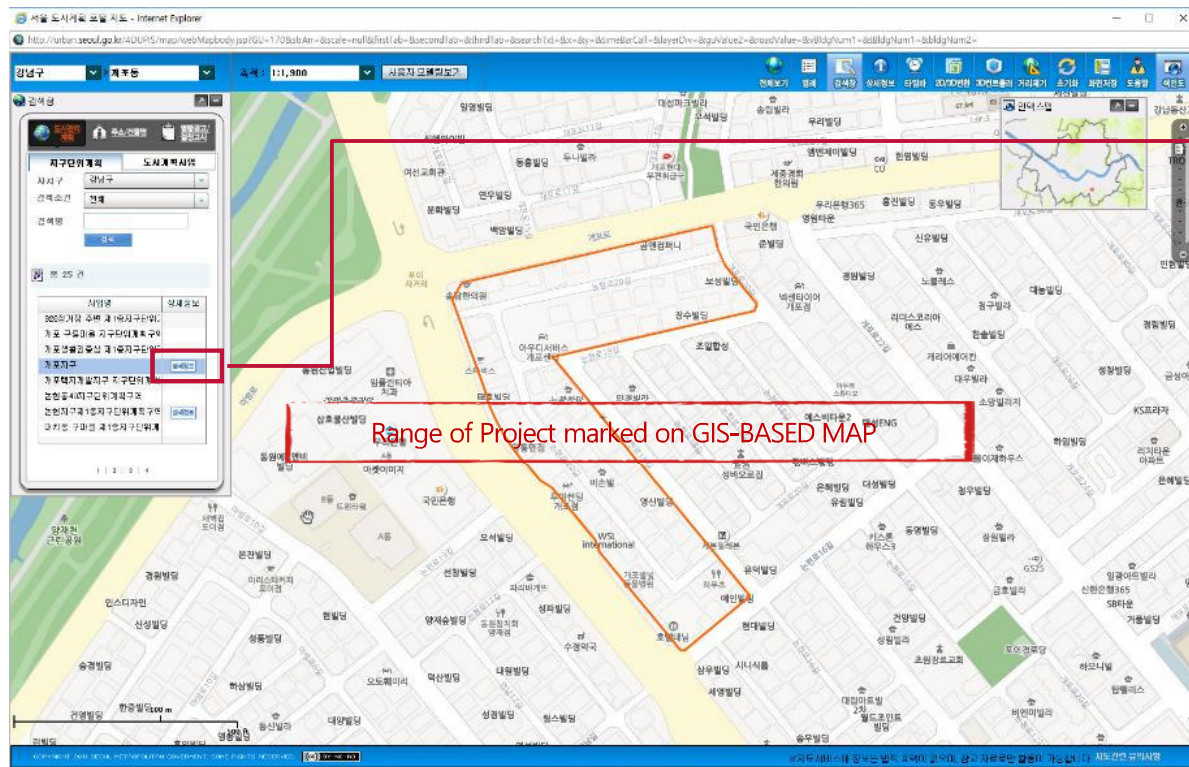
[illegible]

제목	서초구 방배도 입암아파트 재건축 정비계획 수립 ? 정비구역 지정 및 지원요건 고시 방배도 1015번지일대
위치	방배동 1015번지일대
고시번호	서울특별시고시 제2019-297호
고시일자	2019/09/05
알람장소	
연락처	
첨부파일	고시문.pdf
사업명	방배도 입암아파트 재건축 정비사업

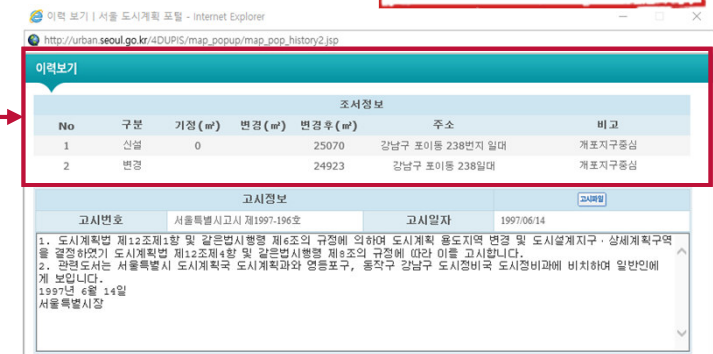
3 Viewing the Map of Urban Planning

Viewing the Map of Urban Planning

- ✓ Enables searching for the current status of district unit plan designation by autonomous districts in Seoul and urban planning projects(urban development, improvement projects, etc.)
- ✓ Pressing "More Views" in the search results will display the project scope on the GIS-based map with the review of the history of changes from the beginning(related files of ancement/notification).



History of Urban Planning Change



4 "Urban Planning Terms Made Easy" Service

"Urban Planning Terms Made Easy" Service

- ✓ Search window for "urban planning terms made easy," which explains the urban planning terms through pictures.



10. Urban Planning Information System(UPIS)

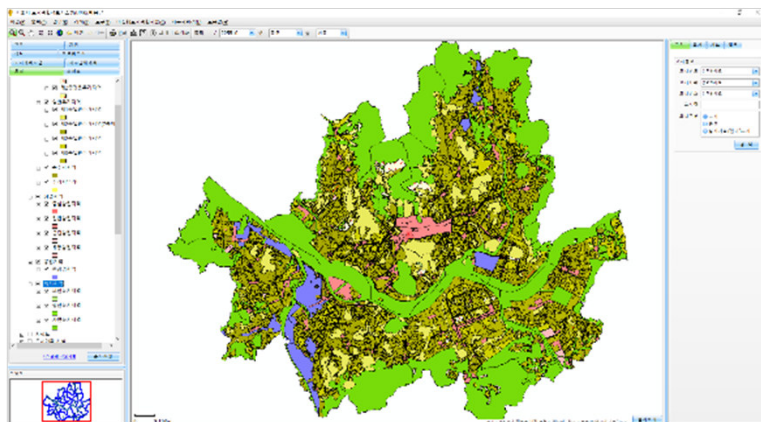


*Chebiji management system

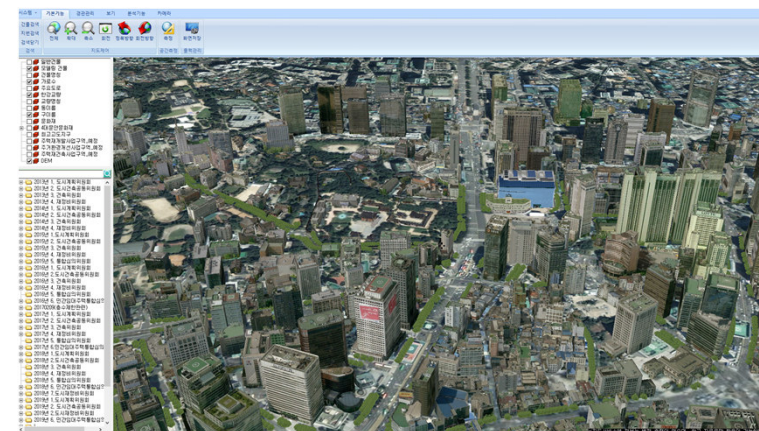
* area of land secured by the authorities in recompense of development outlay



Urban planning plan & decision system



3D Decision Making Support System



10. UPIS - Input Screen

✓ Search can be made for the scope of urban planning projects (model), related references, and history.

The screenshot shows the UPIS - Input Screen interface. It features a central map area with a blue outline indicating a selected region. To the left is a sidebar with various map layers and information. To the right is a sidebar with a search and input section. At the bottom is a table showing urban planning projects.

Selection can be made for Map layers and information

Urban Planning Search and input

Search can be made for the scope of urban planning projects

No	구분	사업명	기정(㎡)	변경(㎡)	변경후(㎡)	주소
2	변경	응암10주택재개발정비구역	60,718.60	감)9	60,709.60	서울시 은평구 응암동 419번지 일대
3	변경	응암10구역주택재개발사업구역	60,709.60	증)182	60,891.60	은평구 응암동 419번지 일대
4	변경	응암제10주택	60,891.60	+91.00	60,982.60	은평구 응암동 419번지 일대
5	변경	응암10주택재개발구역	60,982.60	증)70.00	61,052.60	은평구 응암동 419번지 일대
6	변경	응암제10구역 주택재개발구역정비구역	61,052.60	감) 597.60	60,455.00	은평구 응암동 419번지 일대

10. UPIS – Search Related documents

- ☑ Enabling search for building registration (purpose, structure of building, building area, floor area, coverage ratio, floor area ratio, completion date, etc.)

The screenshot displays the UPIS interface. On the left, a sidebar contains navigation menus. A red box highlights the 'seoul city holl' link. The main map area shows a street layout with a blue line indicating a specific building. A red arrow points from this building to a detailed information window titled 'Building registration can be searched by clicking the building'.

Building registration can be searched by clicking the building

건물 동/층별 정보(중구 태평로1가 31)

건물명칭	동명칭	주용도	연면적 (㎡)
>			
서울특별시 청사	신관	업무시설	3,111.00
		업무시설	1,111.00

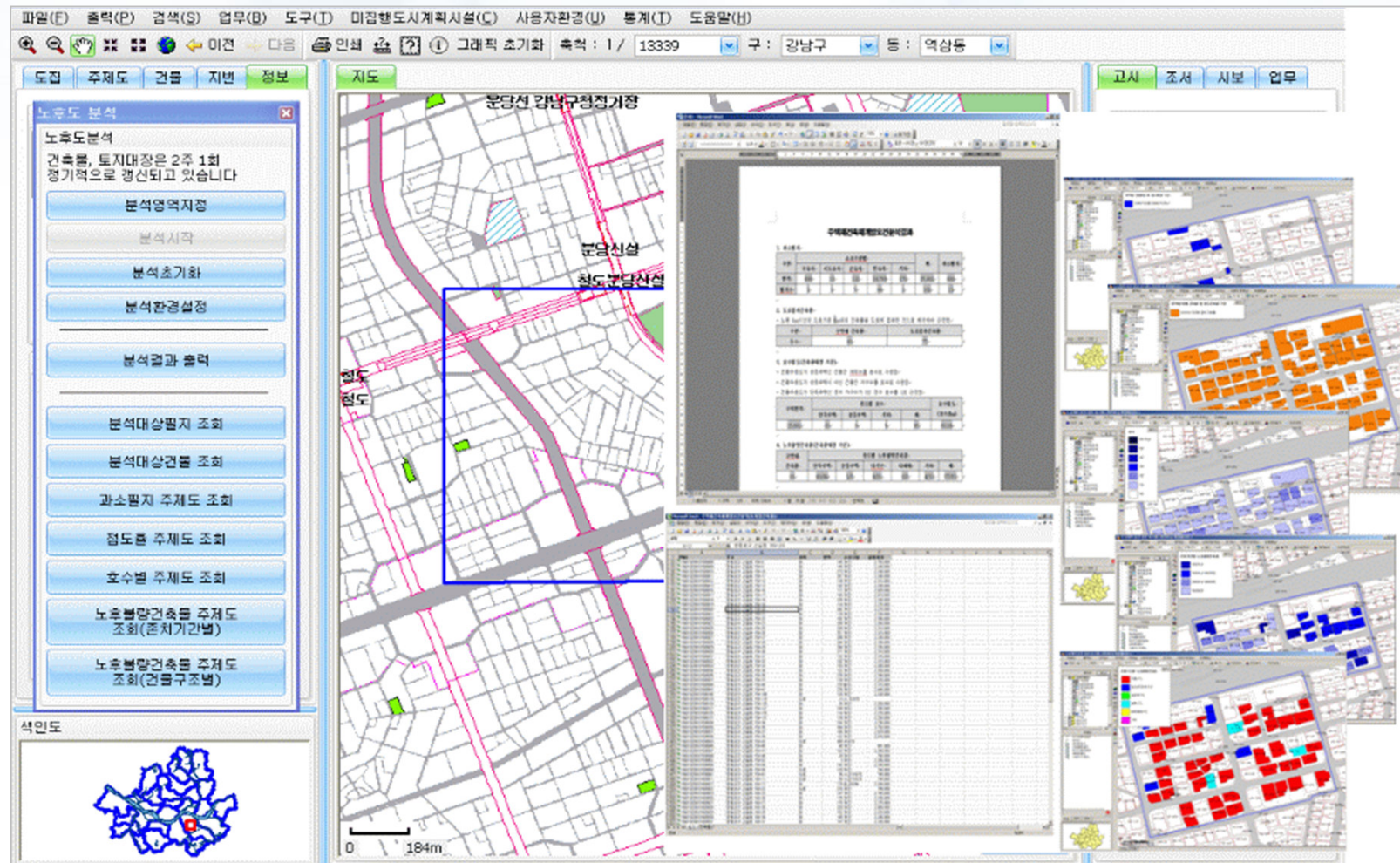
기본개요

구분	내용	구분	내용
건물명칭	서울특별시 청사	용도명	사무시설
주용도	업무시설	기타용도	기타시설
대지면적	0㎡	연면적	3㎡
건축면적	1㎡	용적률	100%
건폐율	2%	용적률	7%
구조	철근콘크리트구조	구조상세	1층
지층	(지하) 1층	지층명	지하층
세대수	1세대	가구수	1가구
지상층수	1층	지하층수	1층
높이	1.00m	허가일자	2000.00.00
확장일자		사용승인일자	2000.00.00

본지표서비스에 정보는 법적 효력이 없으며, 참고 자료만 활용이 가능합니다.

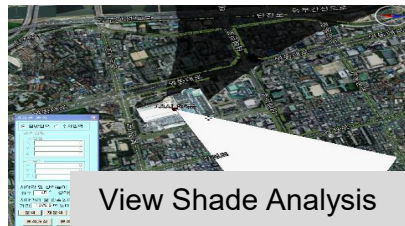
10. UPIS – Information of land and buildings

- Specifying the area will present information regarding the land and buildings within the area and analyze the necessity of rebuilding or redevelopment with the current status of deteriorated buildings in this region.



10. UPIS – “3D Decision Making Support System”

- ✓ This 3D modeling program can be utilized by urban planning officials to make decisions in the urban planning committee and by the general public through the 3D materials in the Urban Planning Portal.



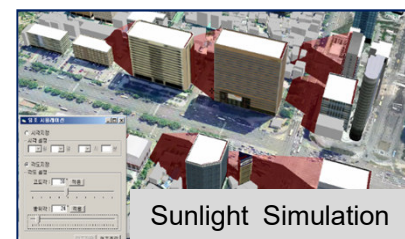
View Shade Analysis



Altitude Analysis



View Point Analysis



Sunlight Simulation

3D modeling and demonstration to see how the plan to be decided will affect the surrounding areas

Menu	Specification
System	The management of user rights and basic services
Basic Tool	Search , Map Control, Space measurement, Output Management
Landscape	the Landscape and modeling management for Committee
View	Map viewer and Wireframe Management
Analysis	Sunlight, Topographical Profile, View Shade , Altitude, Open Index, View Point analysis for Committee
Camera	operation move, rotate, zoom map control

11. Great Change

Type of information

Paper-based text and images

Computerized documents and drawings and GIS
Map-based information

Phase of information

One to be searched by citizens
difficult and formally

One can be delivered by government
promptly and accurately

Distribution of information

On the little bulletin board
and Scattered websites

Computer, Cellular- phone at home
and in one place

Citizen

Spectators of information

Direct consumers and participators

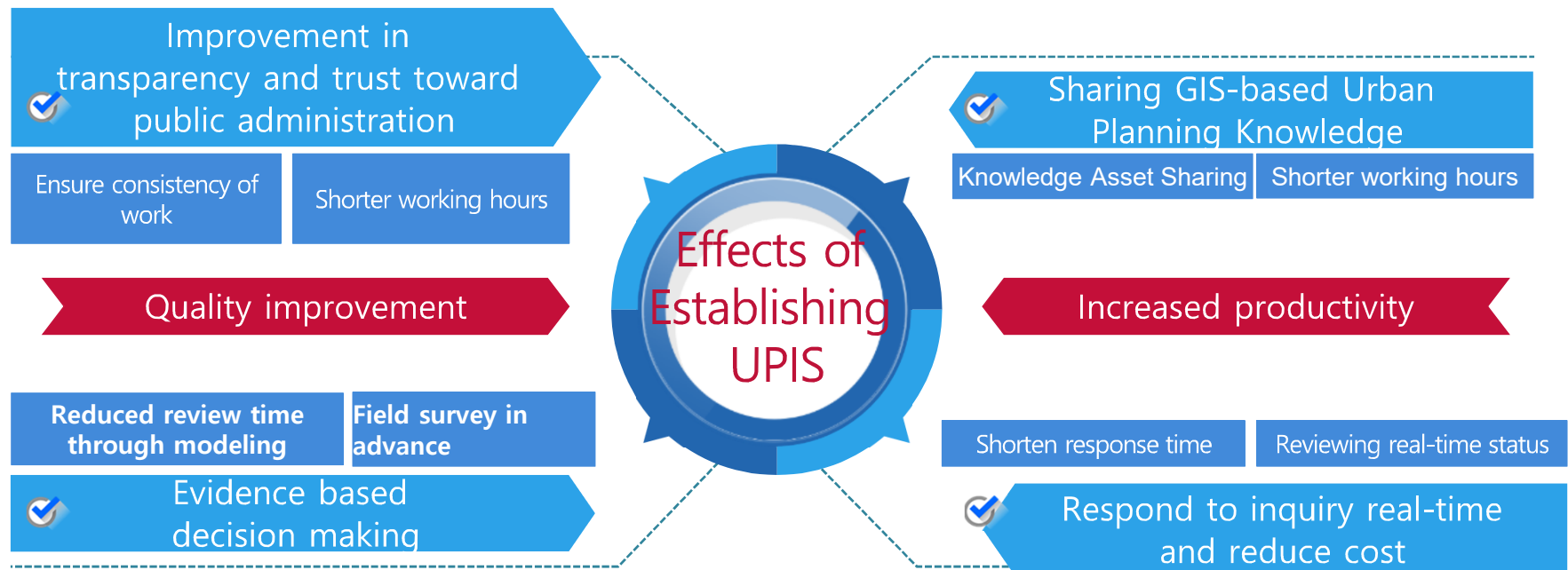
Urban planning Officials

Passive publishers

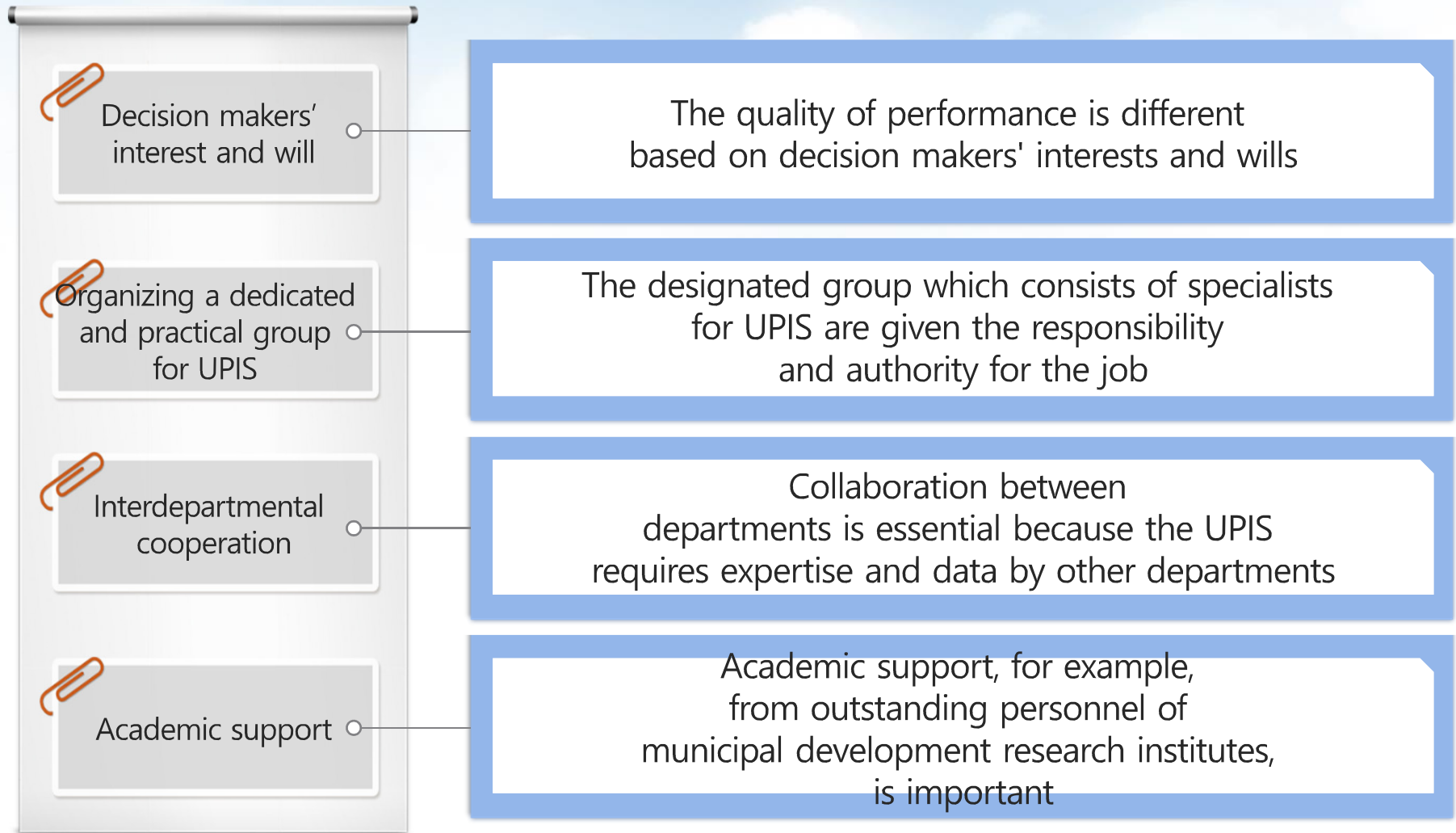
Active communicators

12. Effectiveness of Urban Planning Information System

Provision and utilization of city planning information with good quality



13. Success Factors of UPIS



14. Awards for UPIS



2013 Asia-Pacific Future Government Award

Future Government Awards 2013



2006 Presidential Award

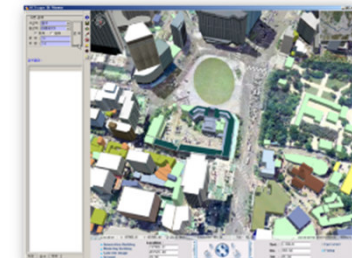
The 9th Informatization Innovation Contest by the Ministry of Government Administration and Home Affairs

서울 도시계획정보시스템 대통령상

서울시는 행정자치부에서 주최한 제9회 자치정보화 혁신경연대회에 '도시계획정보관리시스템 (UPIS)'을 출품, 대통령상을 수상했다고 8일 밝혔다.

서울시 도시계획정보관리시스템은 도시계획과 관련된 고시문, 결정조서, 도형, 이미지 등을 데이터베이스(DB)로 구축해 도시계획업무 처리 및 의사결정을 지원하는 시스템이다.

서울시는 1994년 12월부터 2004년 11월까지 데이터베이스 및 시스템 구축을 마치고, 지난해 9월부터 올 2월까지 일부 자치구의 시범운동을 거쳐 3월부터 25개 자치구에서 시스템을 운영 중이다.





Urban Planning Information System(UPIS)

**Thank
you!**