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# GIS기술 동향과 전망

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. GIS

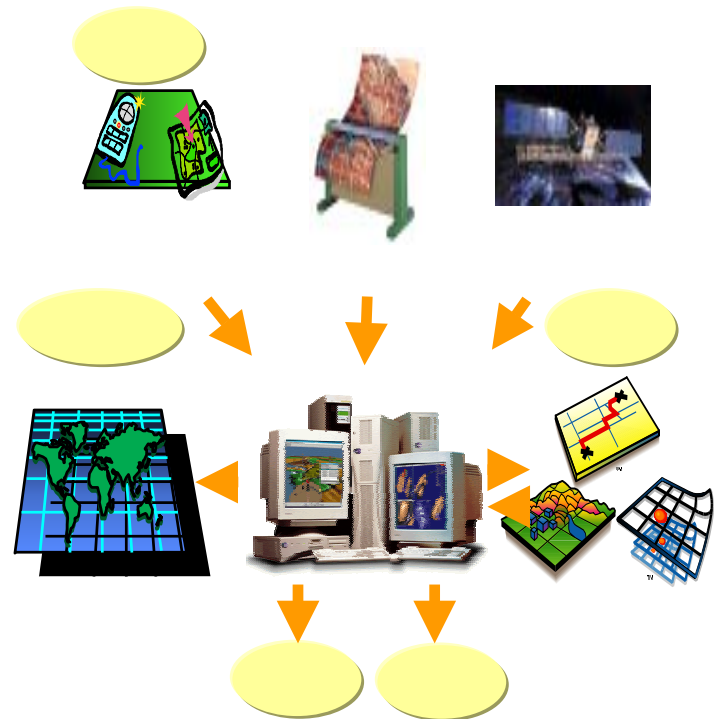
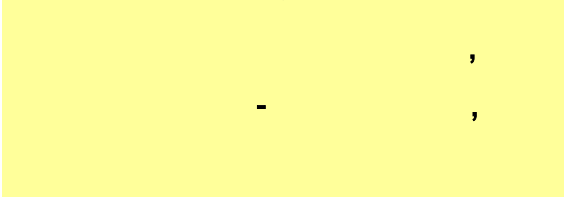
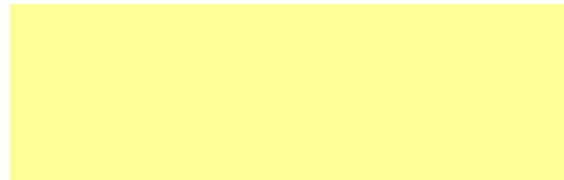
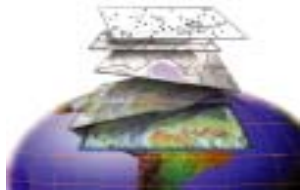
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# I. GIS

## GIS(Geographic Information System)





## 2. GIS

## I. GIS

GIS

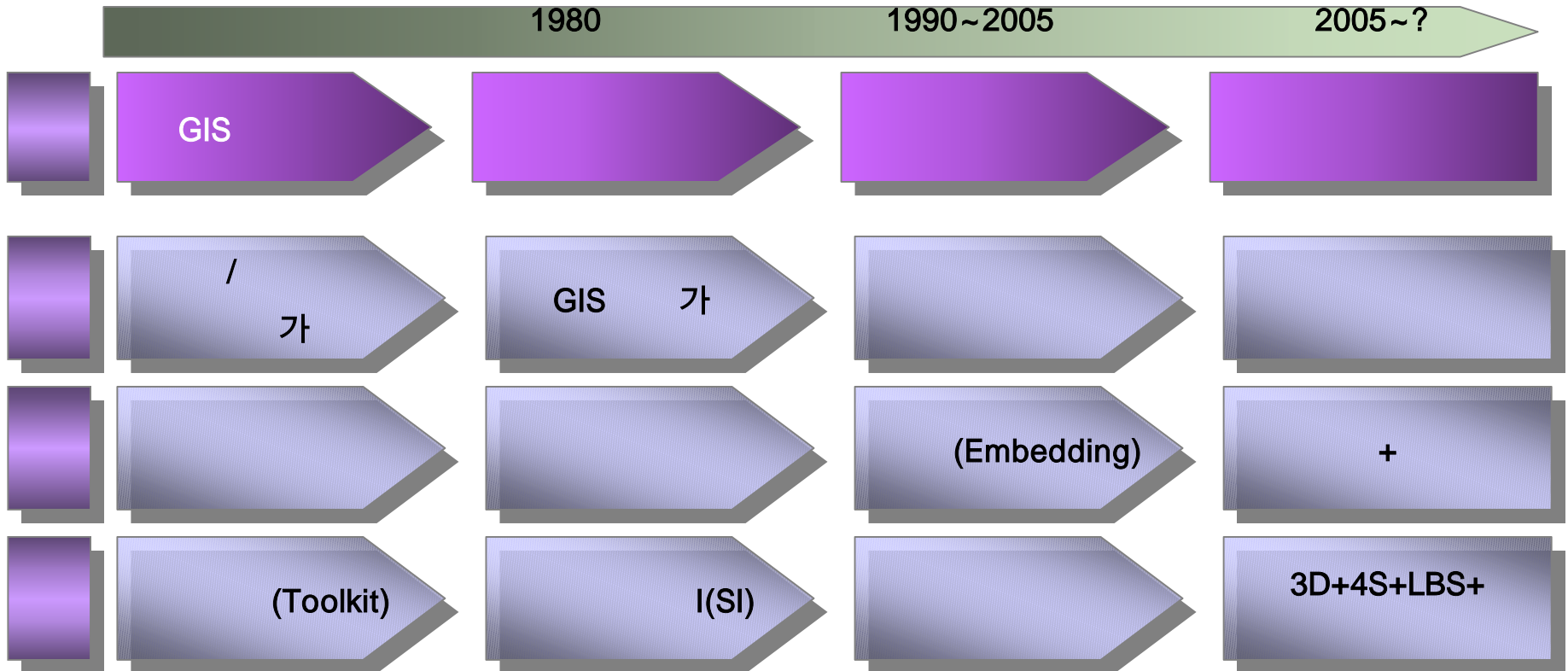
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GIS

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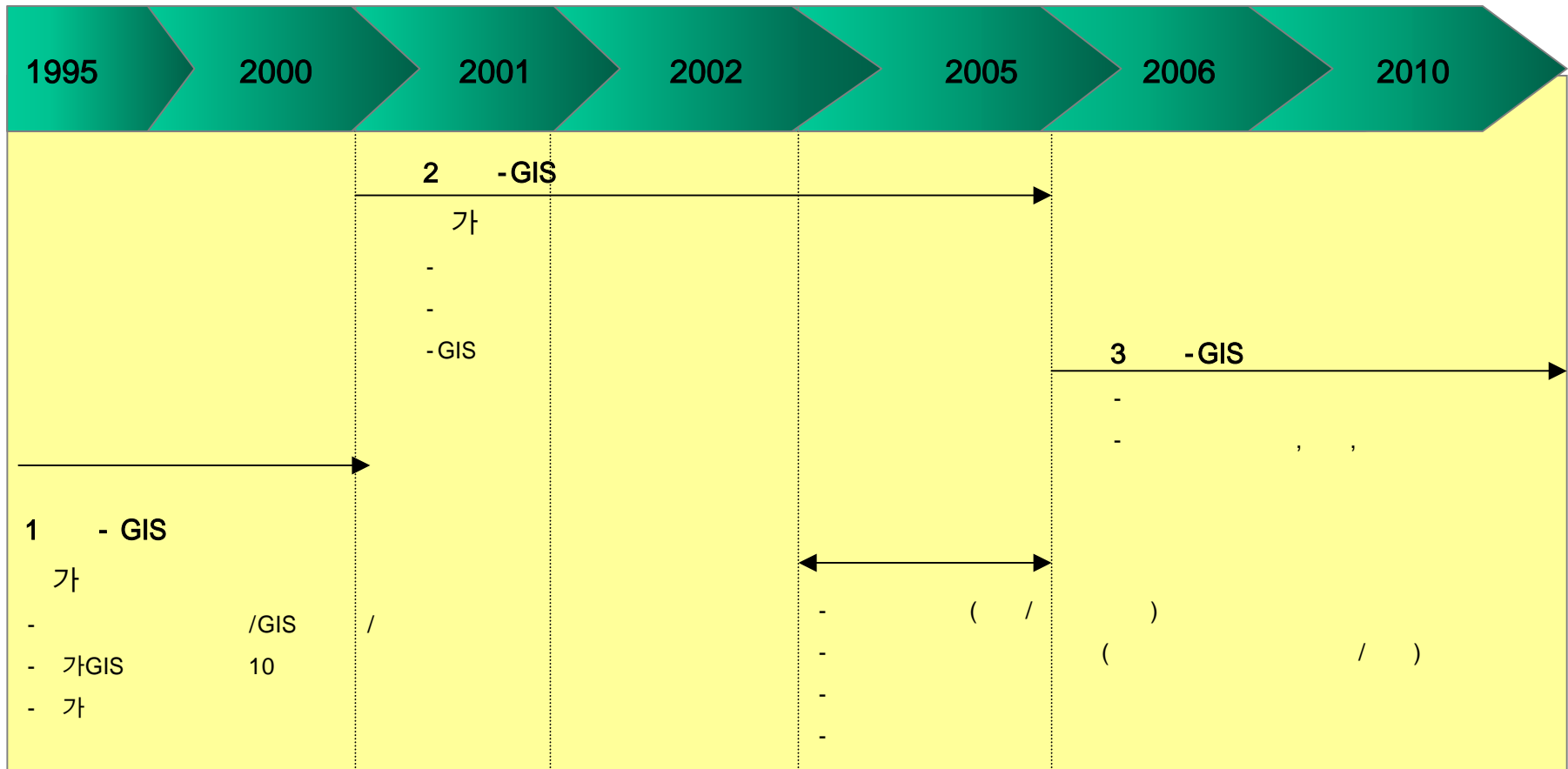


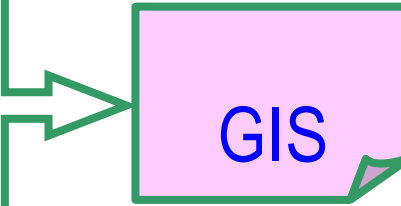
가 GIS

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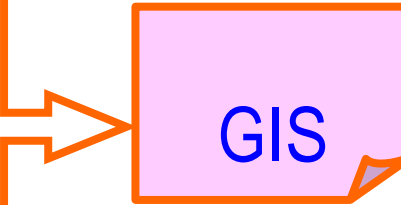
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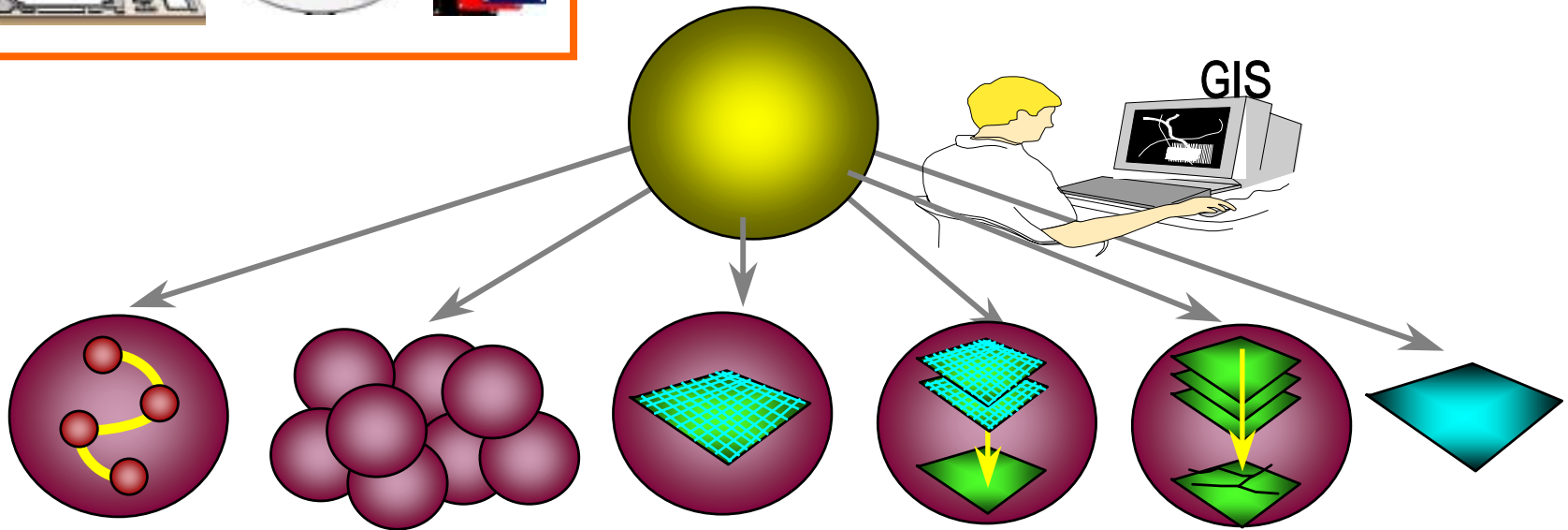


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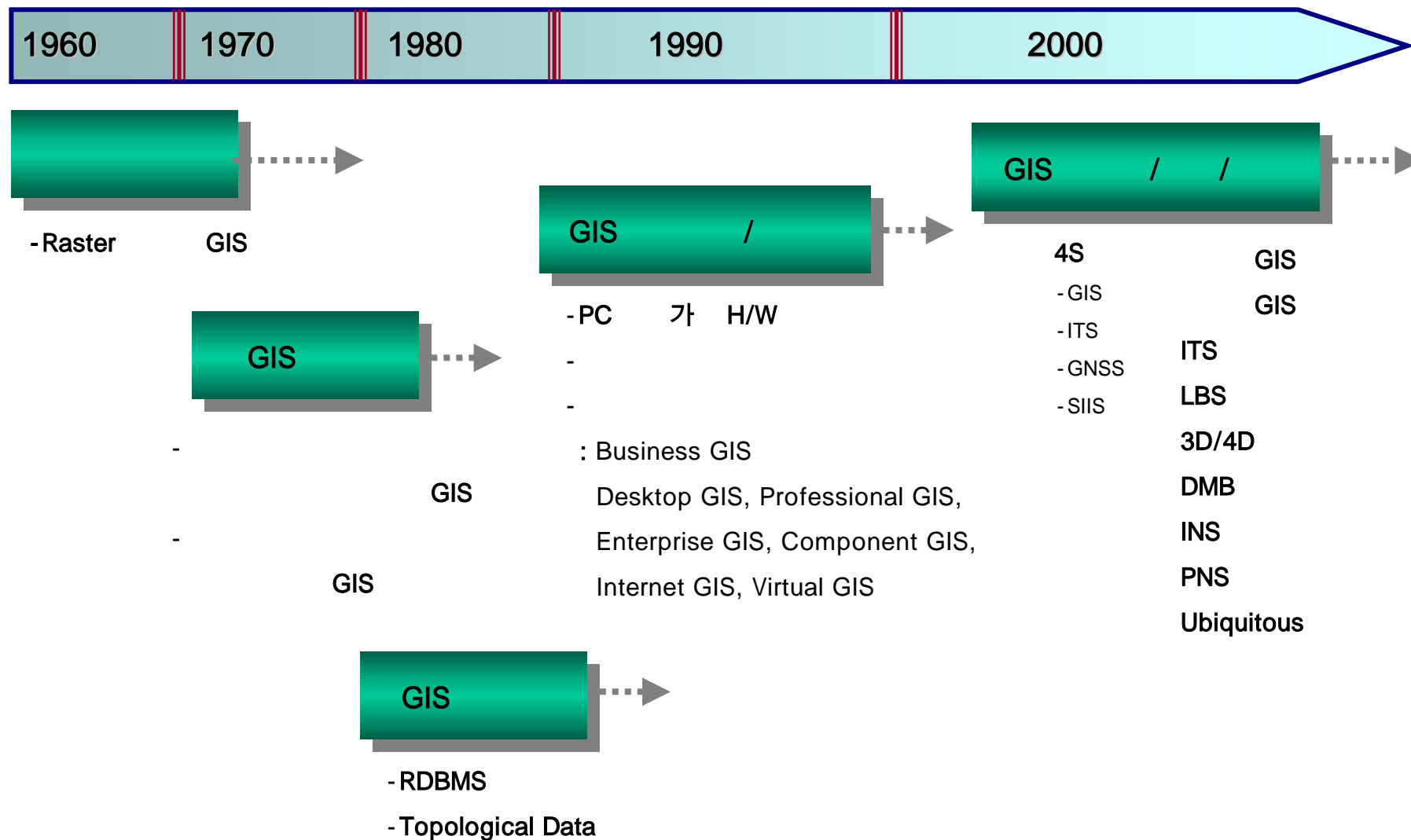
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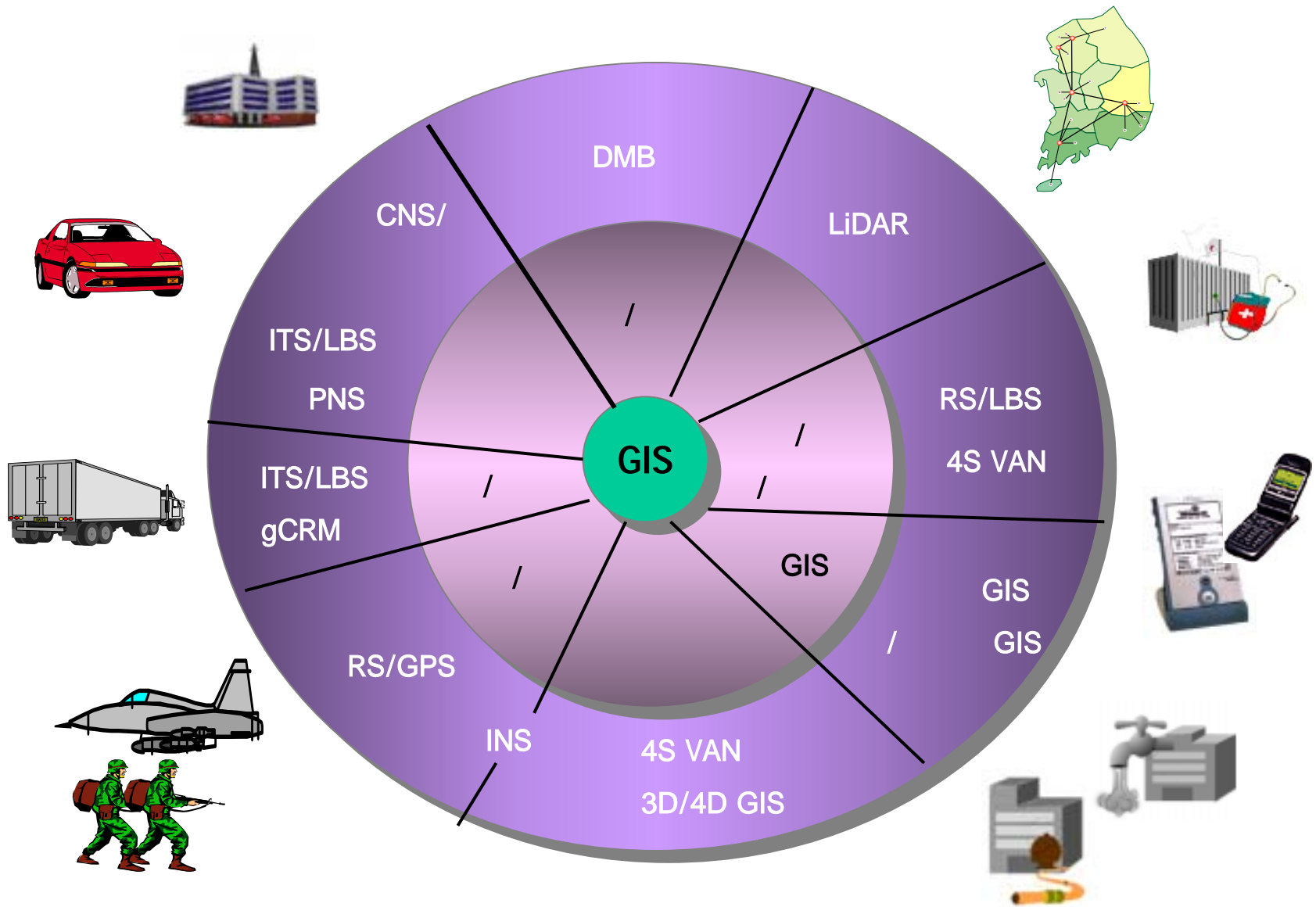


## II. GIS

# 1. GIS

# II. GIS



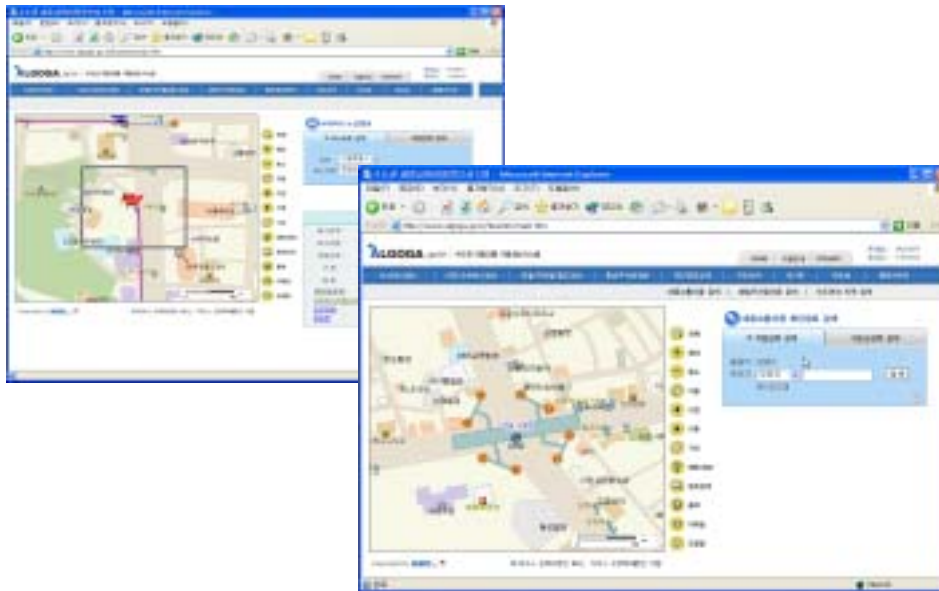


GIS

/

GIS

/ 가



GIS

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Web Brower

Requests

Results

Plugin

Map Data

Web / GIS Server

GIS

Visual Display

Internet

Multimedia Data ( , , )

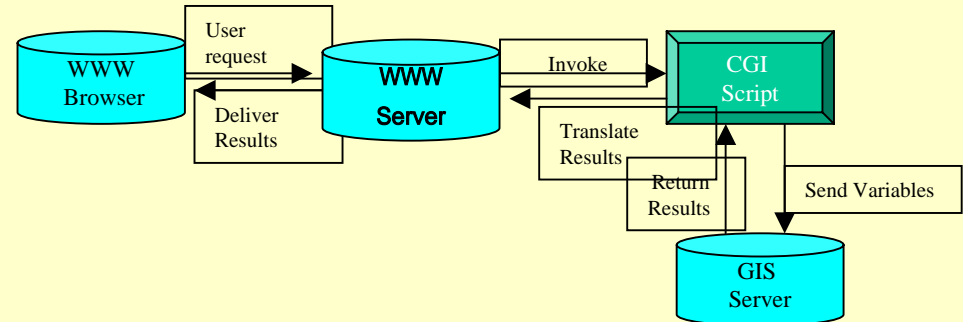
Web GIS

- Data /
- Data
- Data Indexing
- Data Interface
- Location Determination
- Map Matching
- Data Consistency

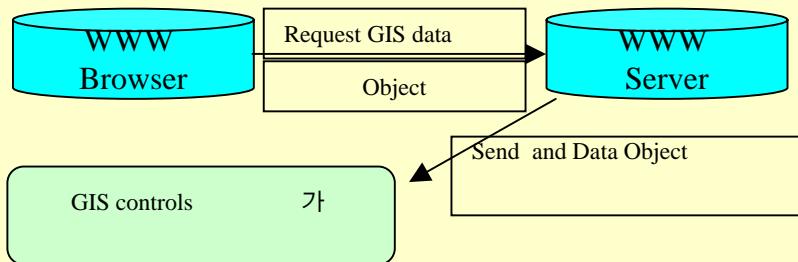


## 1. CGI

가



## 2. ActiveX



1. :

ActiveX controls

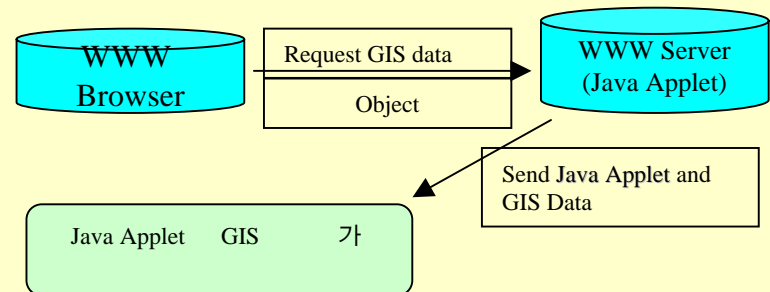
가

2. : Microsoft Internet Explorer

## 3. Java

1. : HTML (dynamic)

2. : Java가 가 local machine 가



## Mobile GIS

Desktop

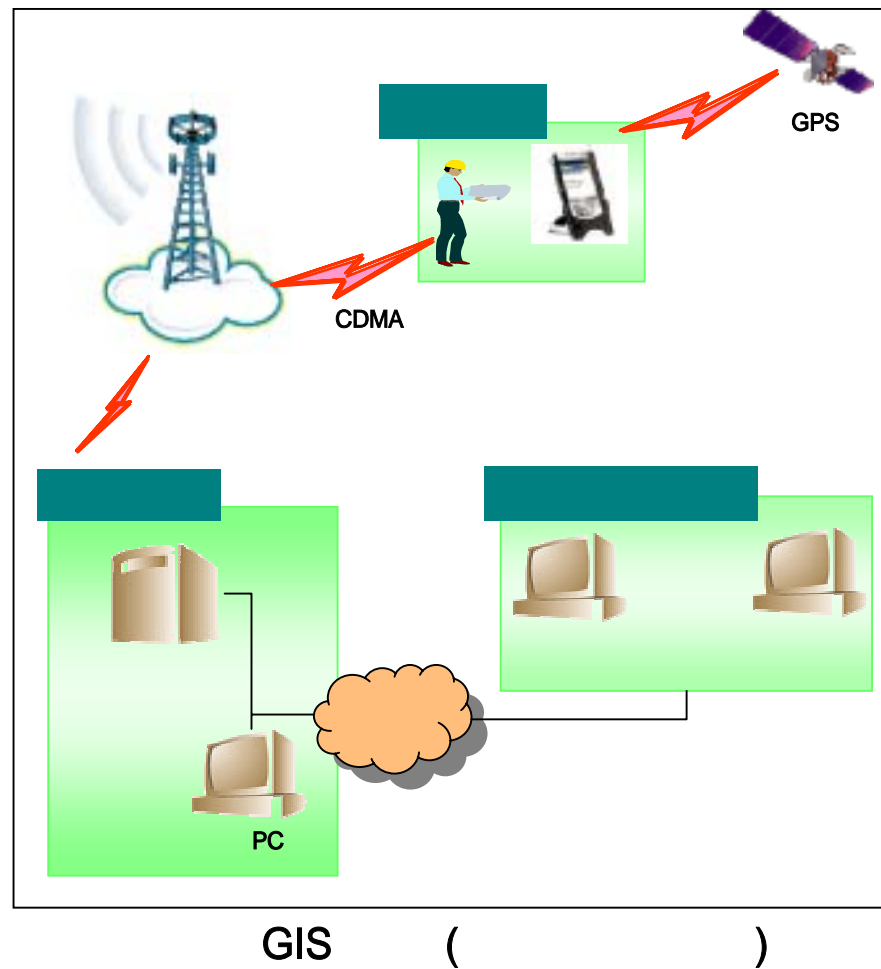
GIS가

GIS

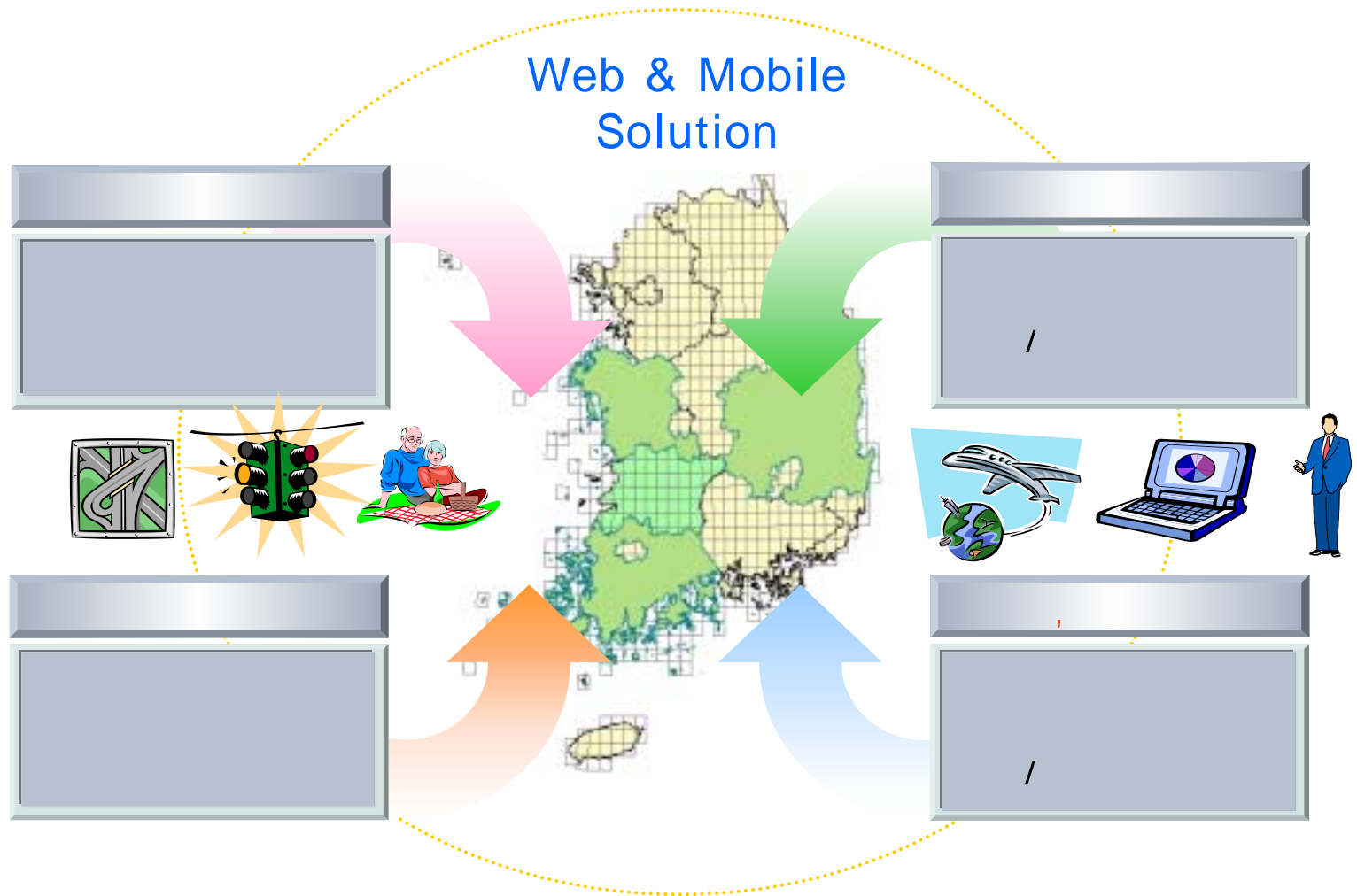
## Web GIS

(PDA, Pocket PC, Cellular Phone )

가



LBS Telematics



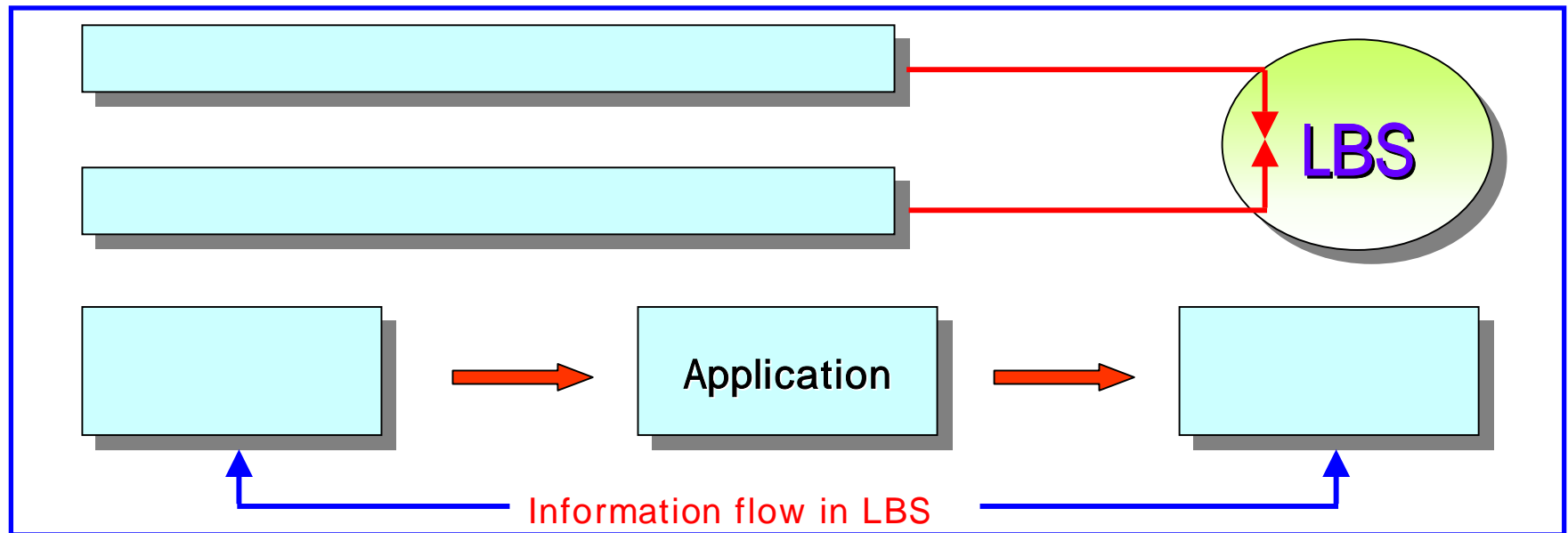
## 2-5. LBS(Location Based Service)

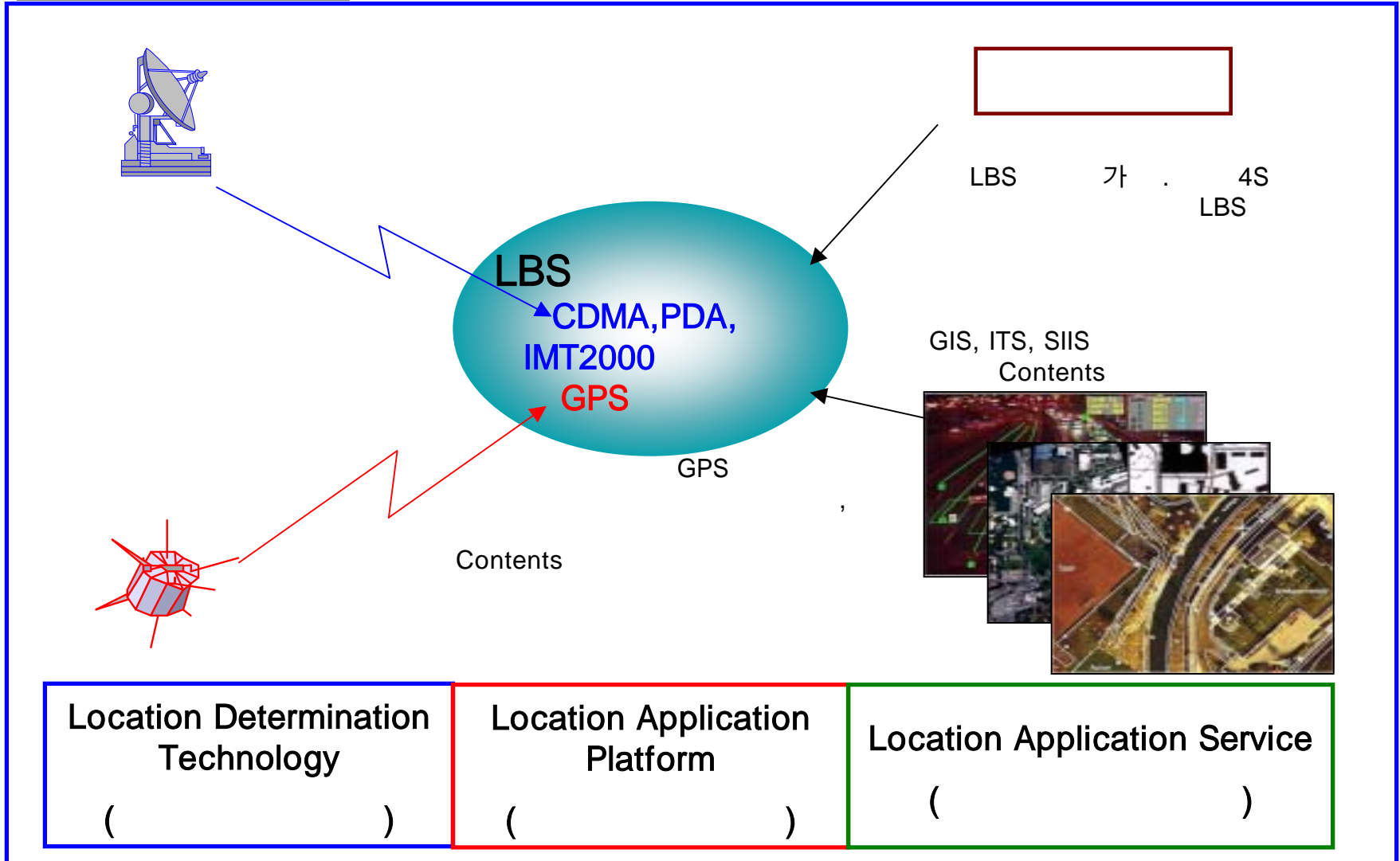
II. GIS

LBS

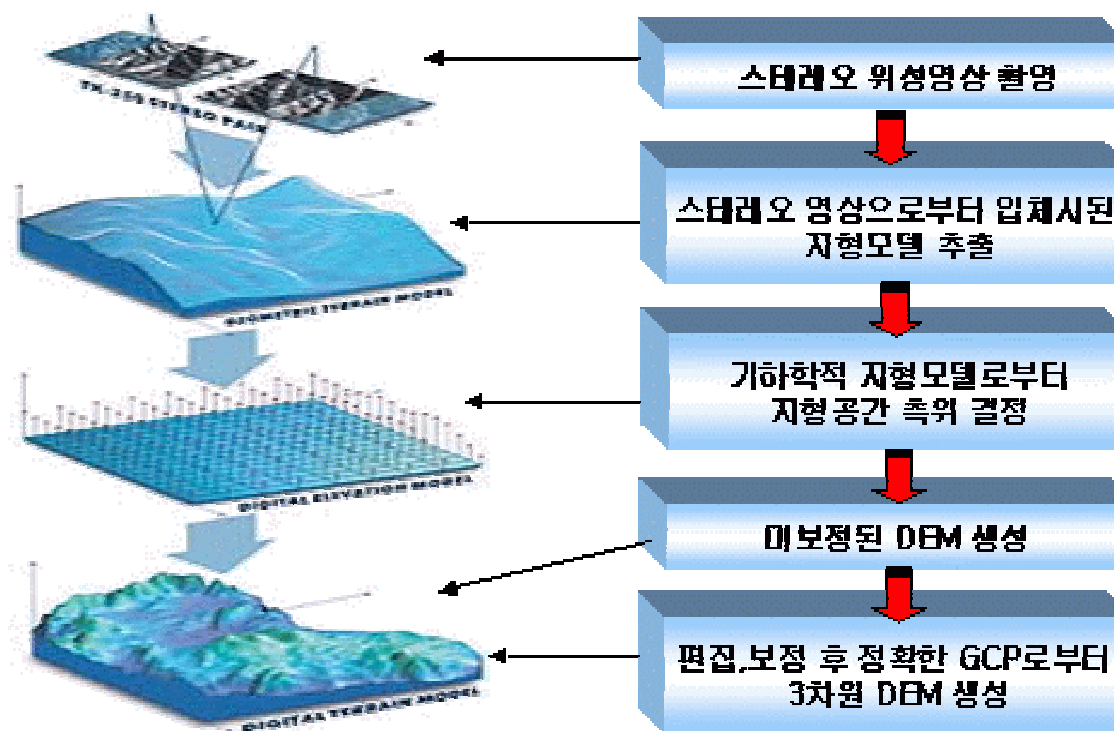
4S(GIS, GNSS, ITS, SIIS)

LBS가



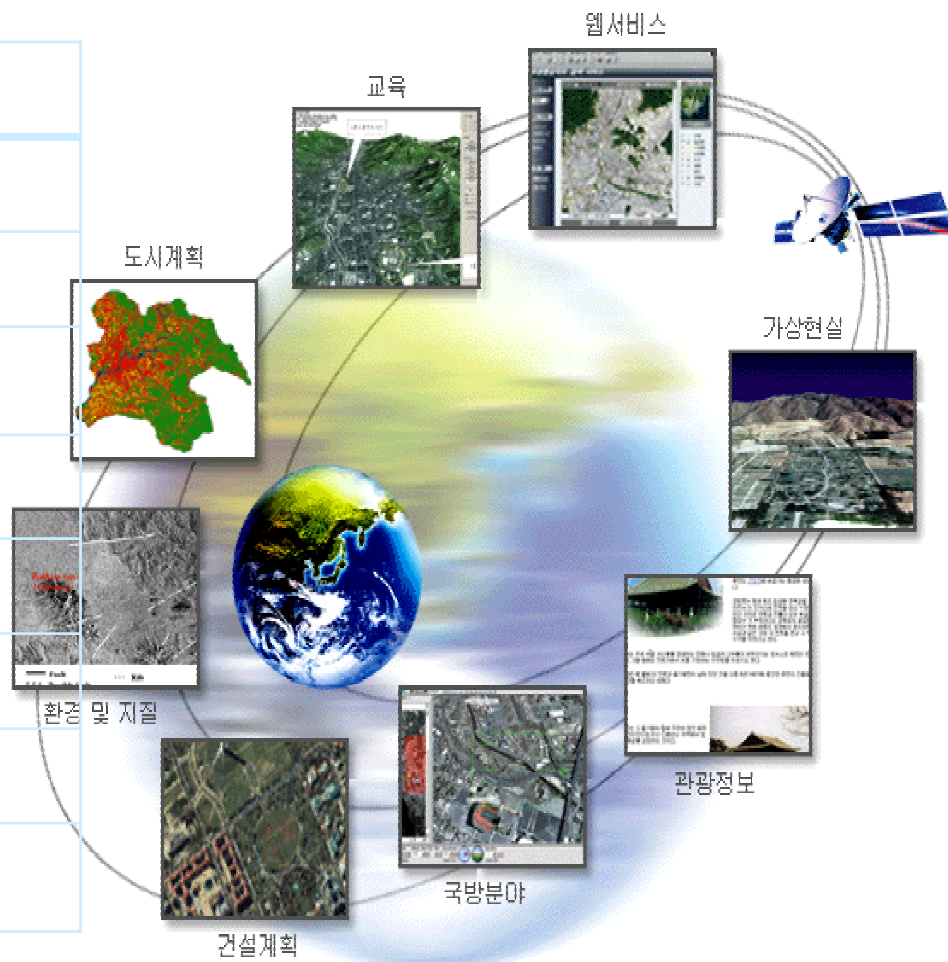


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(SST)	• ,





3 GIS 3D

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GIS

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GIS

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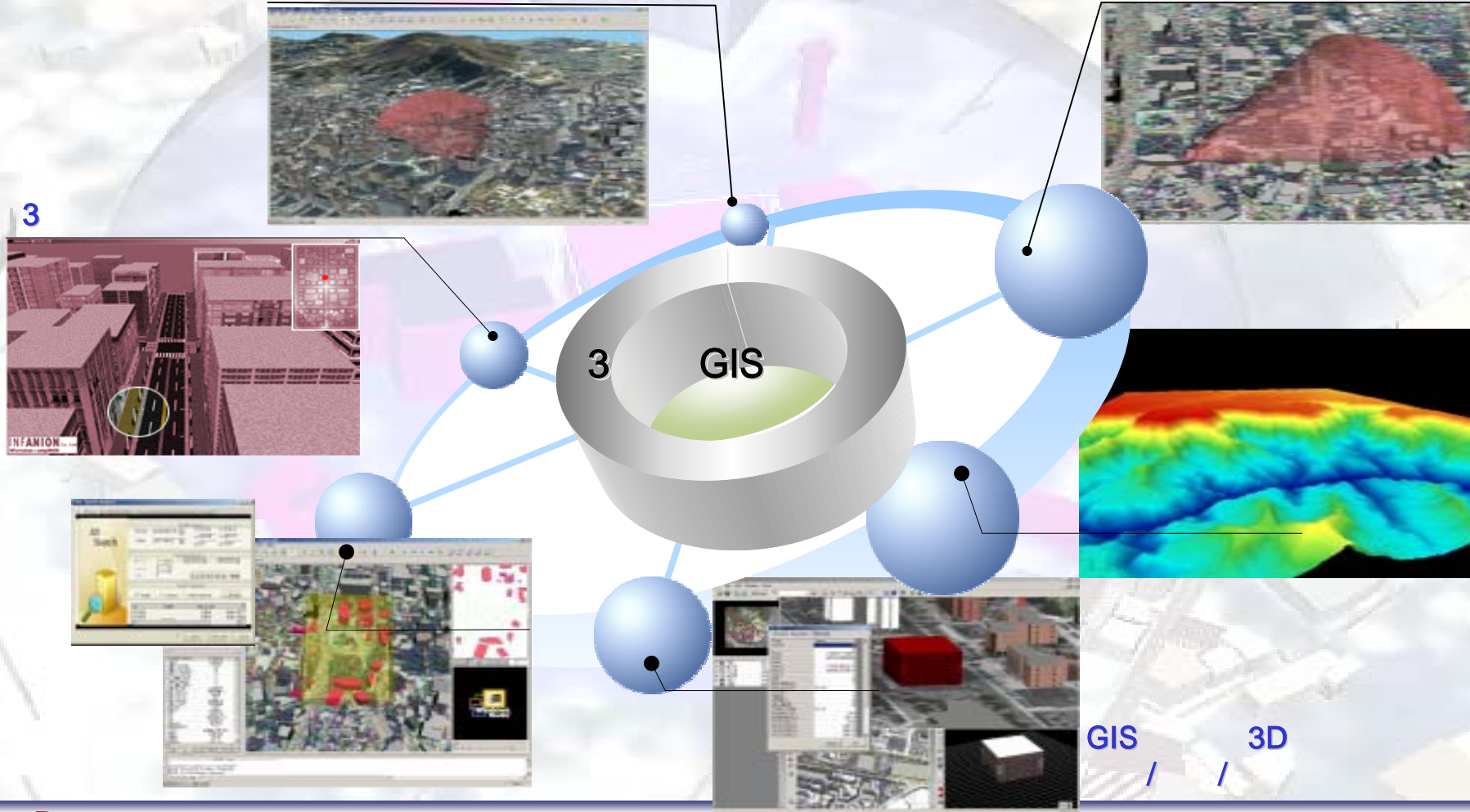
3

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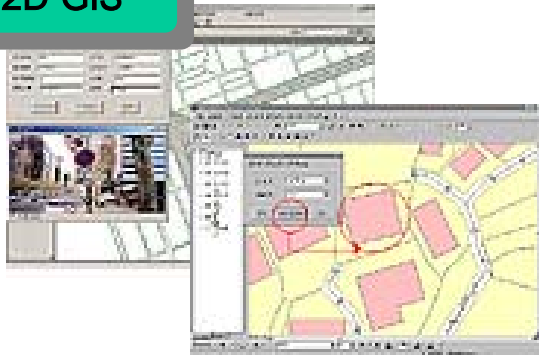
GIS

GIS

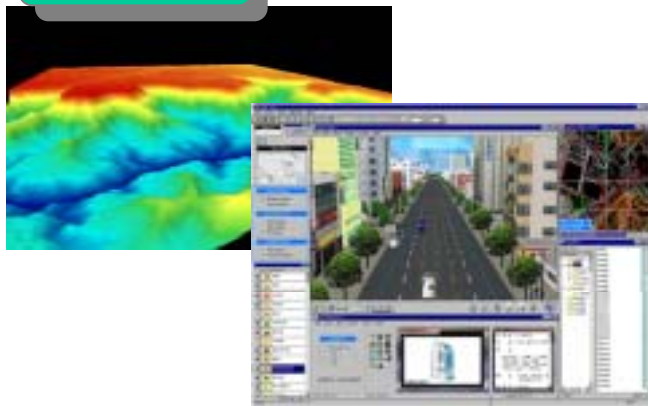
3D



## 2D GIS



## 3D GIS

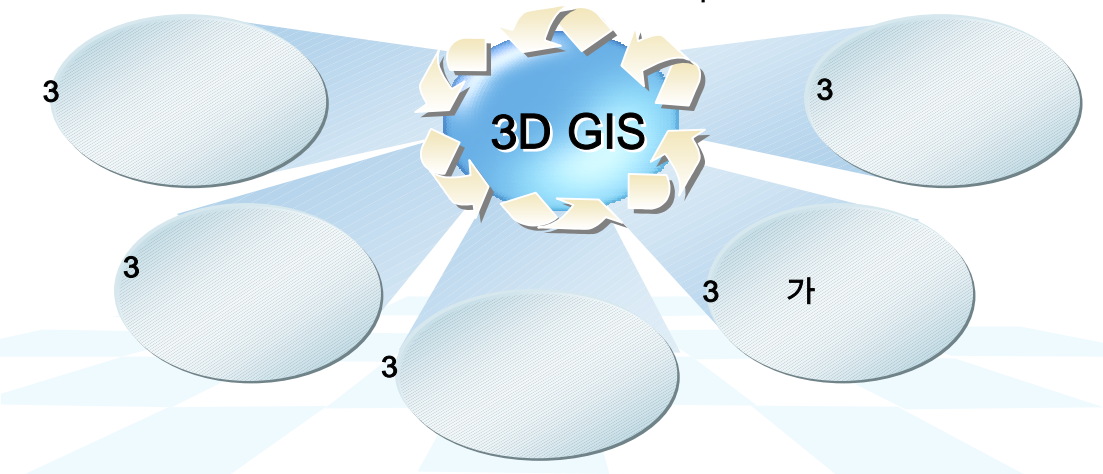


• Line

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2D GIS



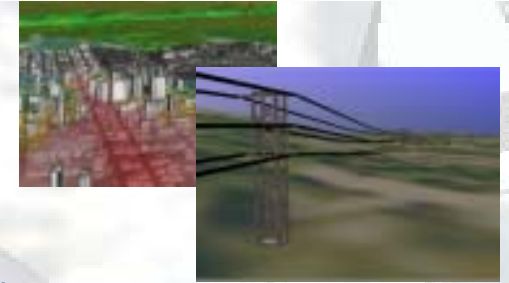
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**적용분야1**

**도시계획 및 시설물관리**

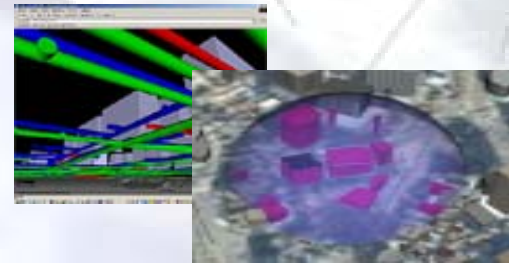
• 3  
• 3  
3 가 , 3 , 3 가 ,  
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**적용분야2**

**정보통신**

• 3  
• , (cell planning)



**적용분야3**

**국방외교**

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• 3 ,



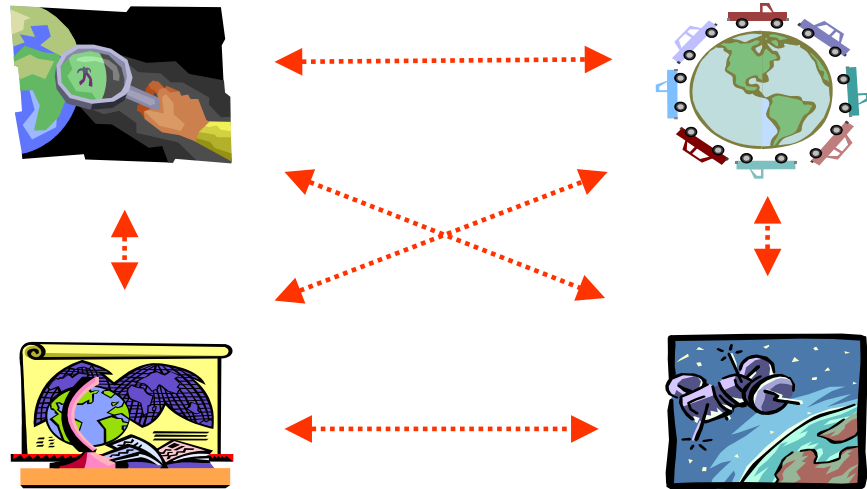
**적용분야4**

3 가

• 3 가 / /



4S



4S 가

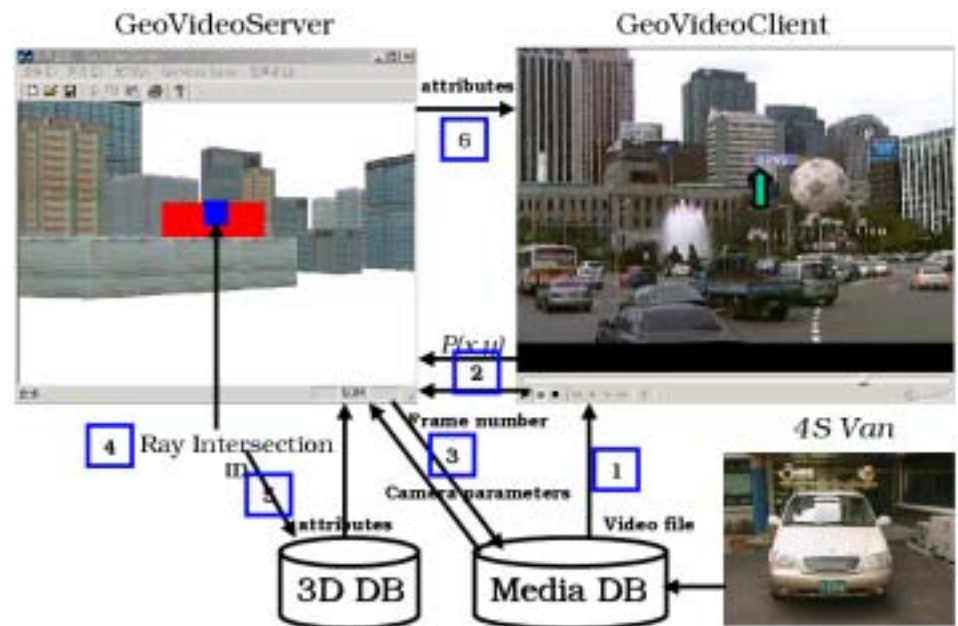
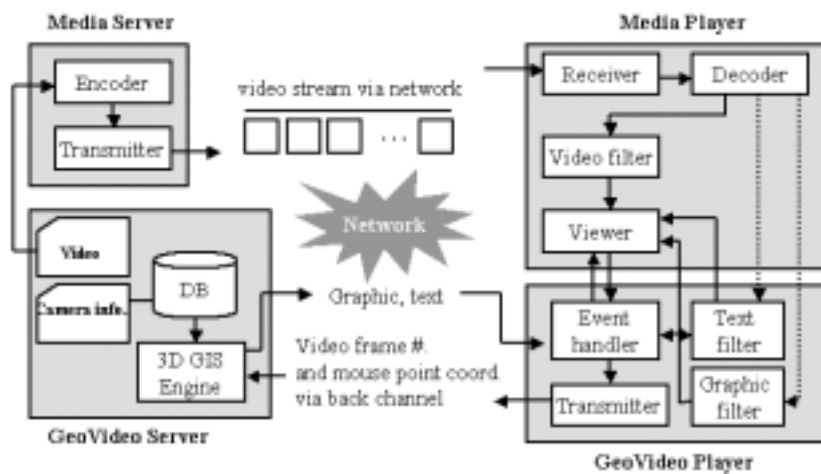
	가
GIS - SIIS - ITS	<ul style="list-style-type: none"> <li>• GIS SIIS ITS</li> <li>•</li> </ul>
GIS - GNSS - ITS	<ul style="list-style-type: none"> <li>• ITS</li> <li>• GNSS</li> <li>• GIS ITS</li> </ul>
GIS - GNSS - ITS	<ul style="list-style-type: none"> <li>•</li> <li>• 3</li> <li>• GNSS</li> </ul>
GIS - SIIS - GNSS - ITS	<ul style="list-style-type: none"> <li>• Advanced ITS</li> <li>•</li> <li>• 3</li> <li>•</li> <li>•</li> </ul>

GIS

4S-Van

GIS

, GIS

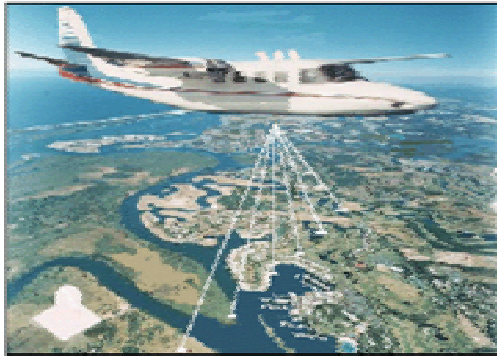




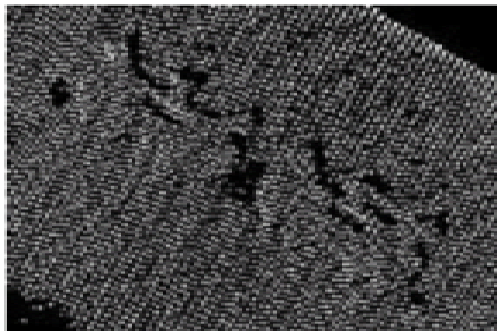
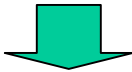
## 2-14. LiDAR(Light Detection And Ranging)

II. GIS

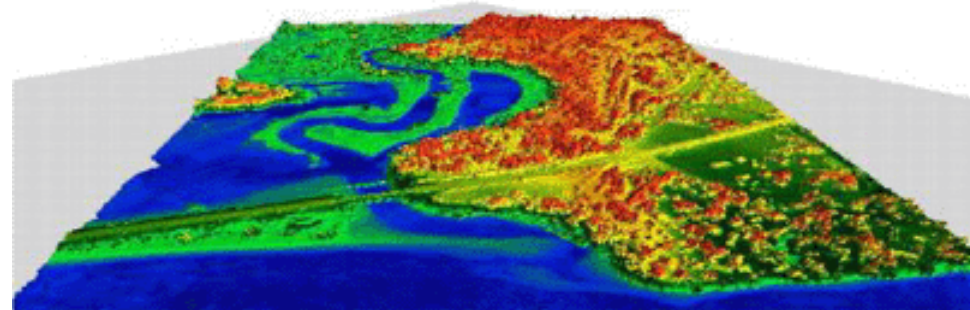
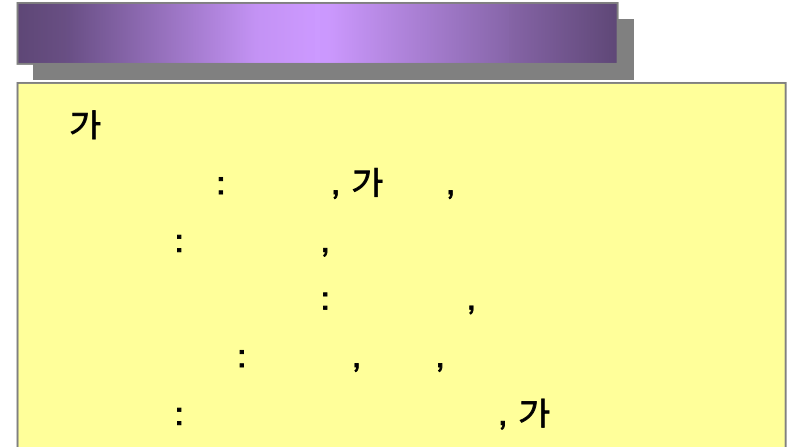
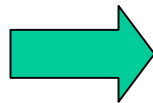
: / 가 / 가



1.



2. Point Cloud



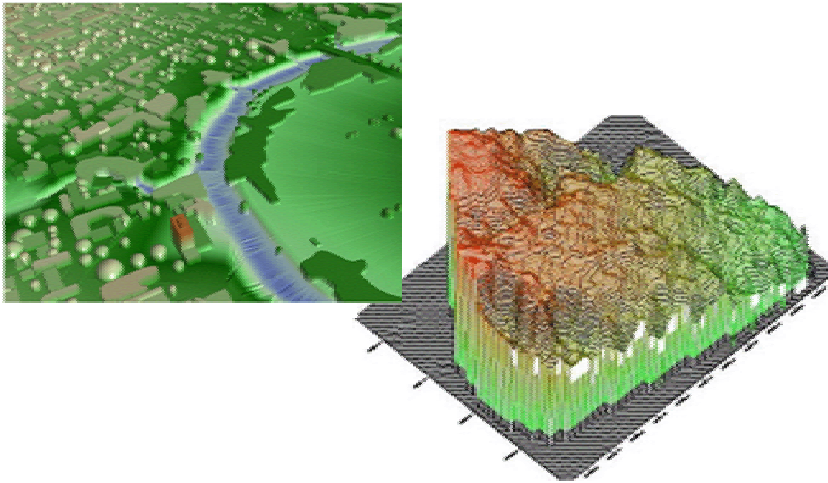
3. Key Feature

-

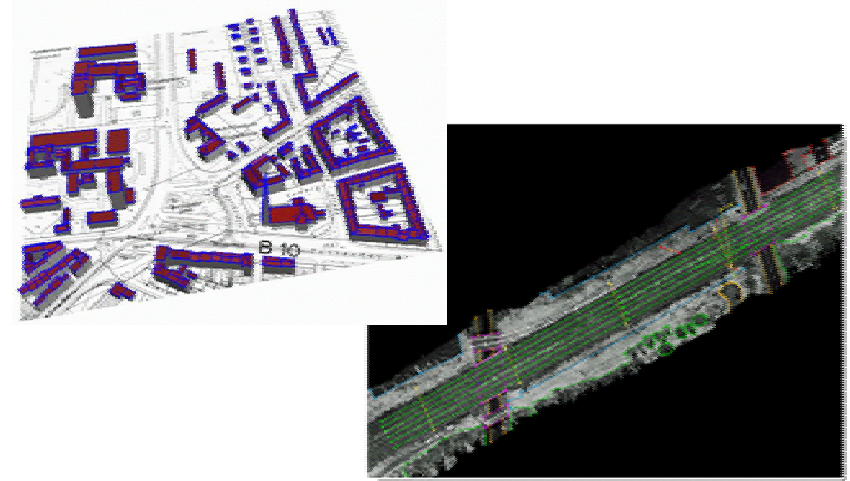
(Scanning) - , ,

Digital Terrain Model

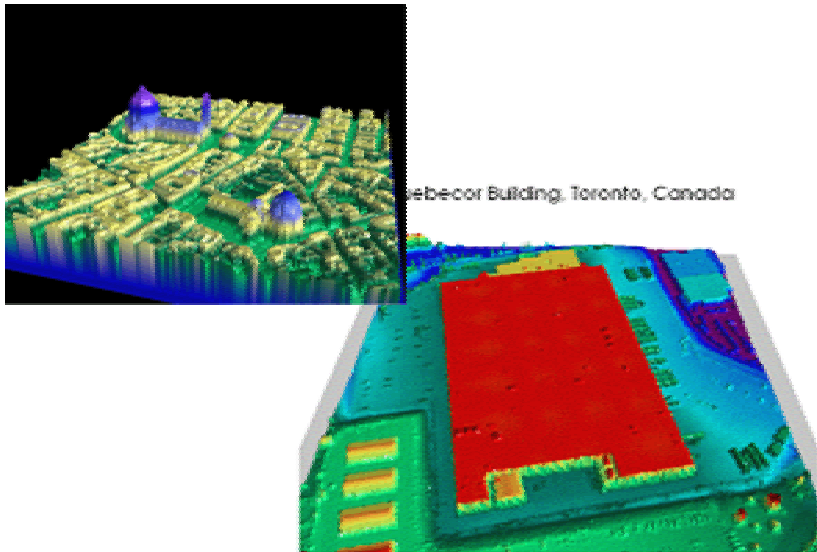
### 1. Digital Elevation Models



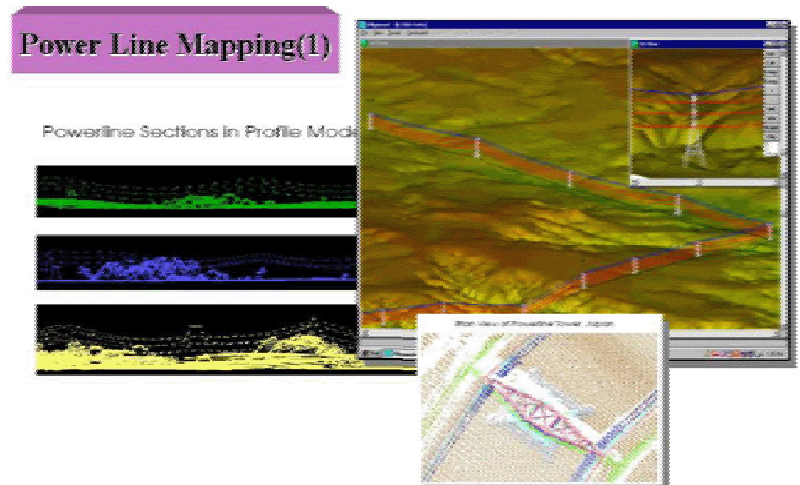
### 2. Topp Map



### 3. Urban Mapping



### 4. Power Line Mapping





## 2-16. INS(Inertial Navigation System)

II. GIS

INS

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(gyro: 角運動

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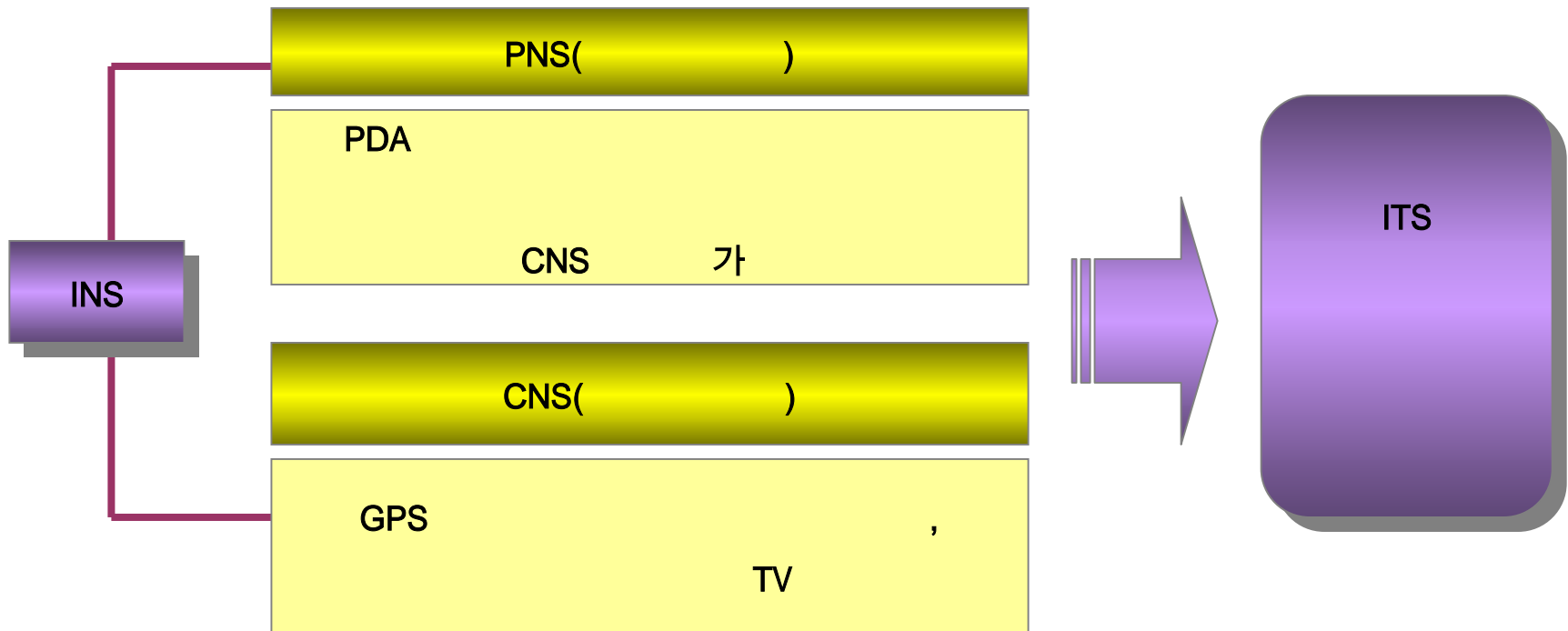
INS

ITS

PNS

CNS

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GPS

INS

CCD

(VAN)

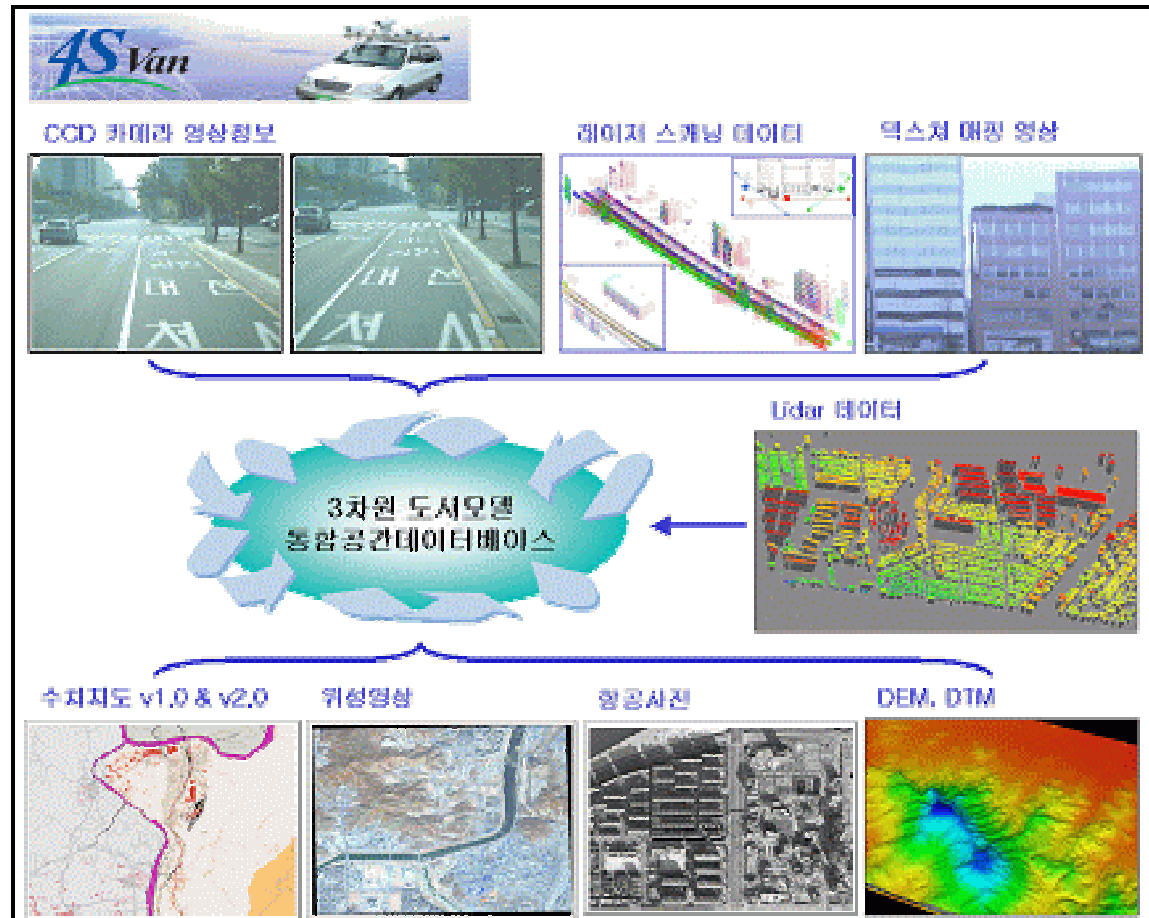
가

### 4S-Van

•GIS Database

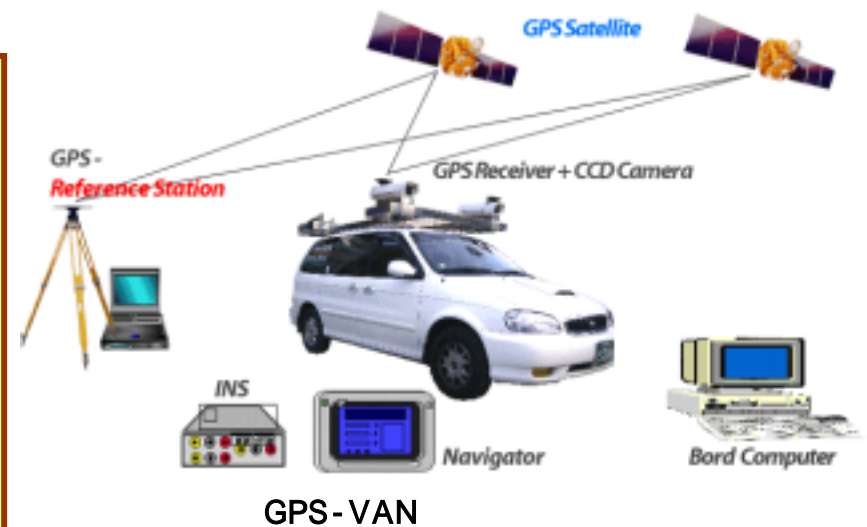
•NGIS

•GIS D/B



### 4S-Van

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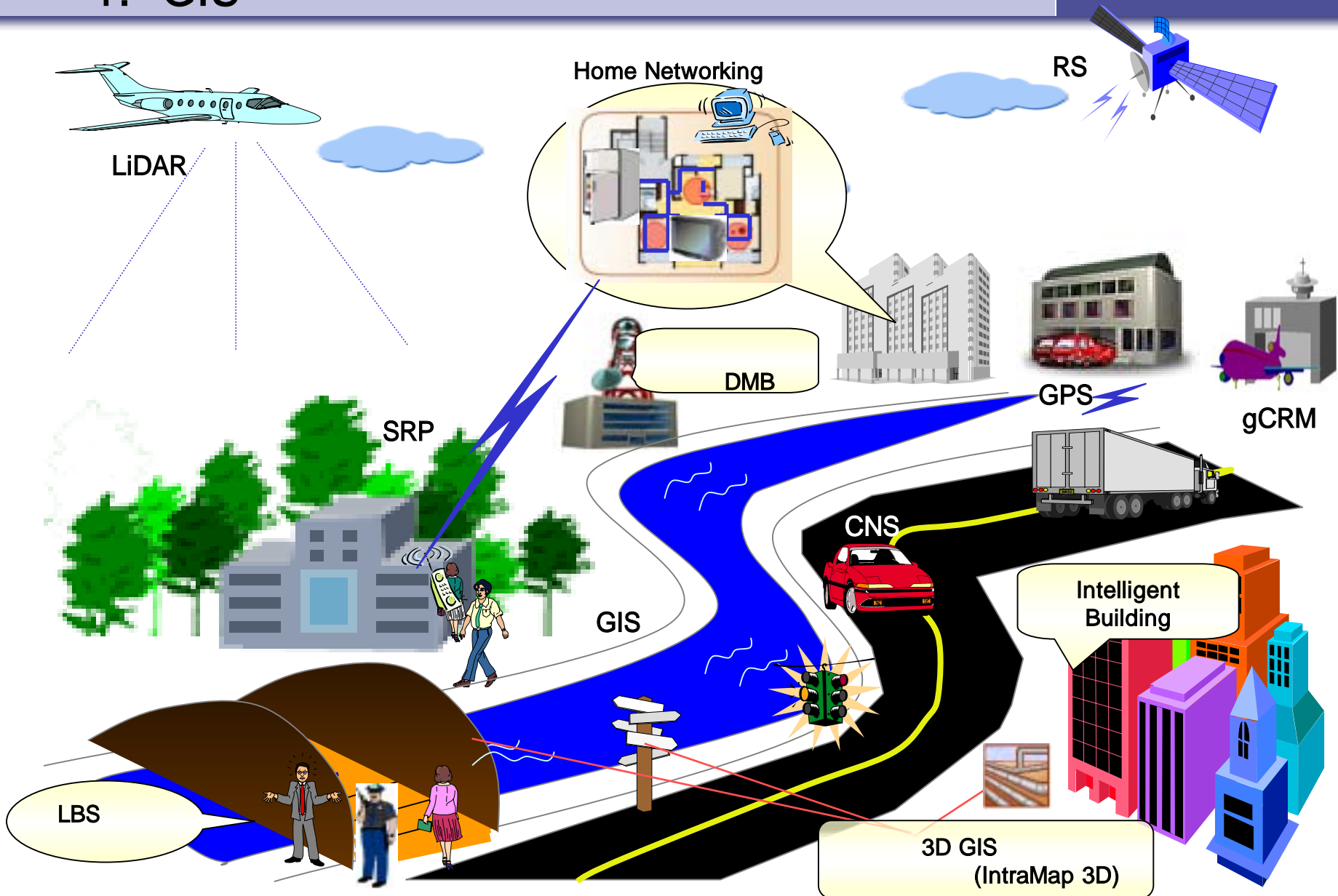


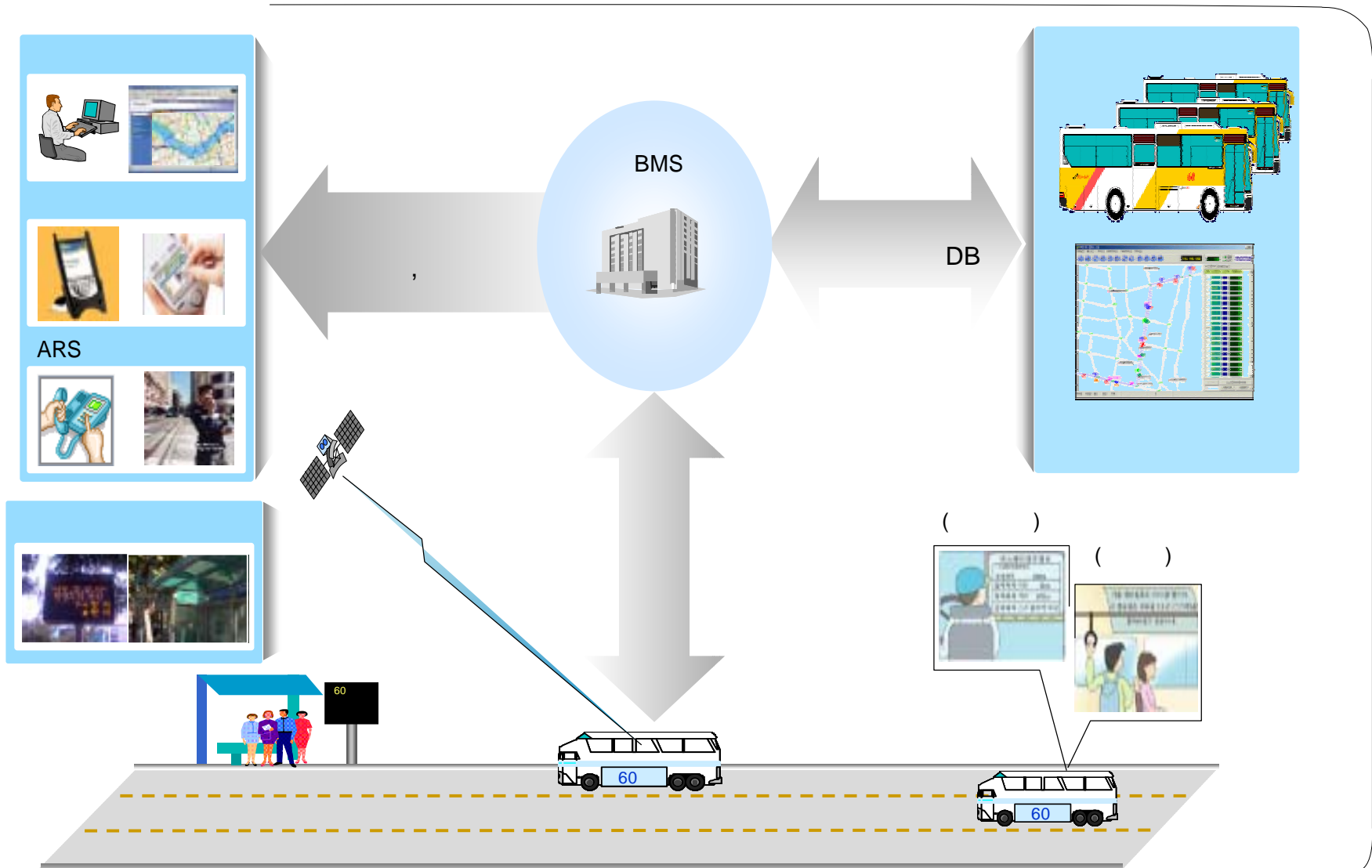
GPS-VAN

# III. GIS

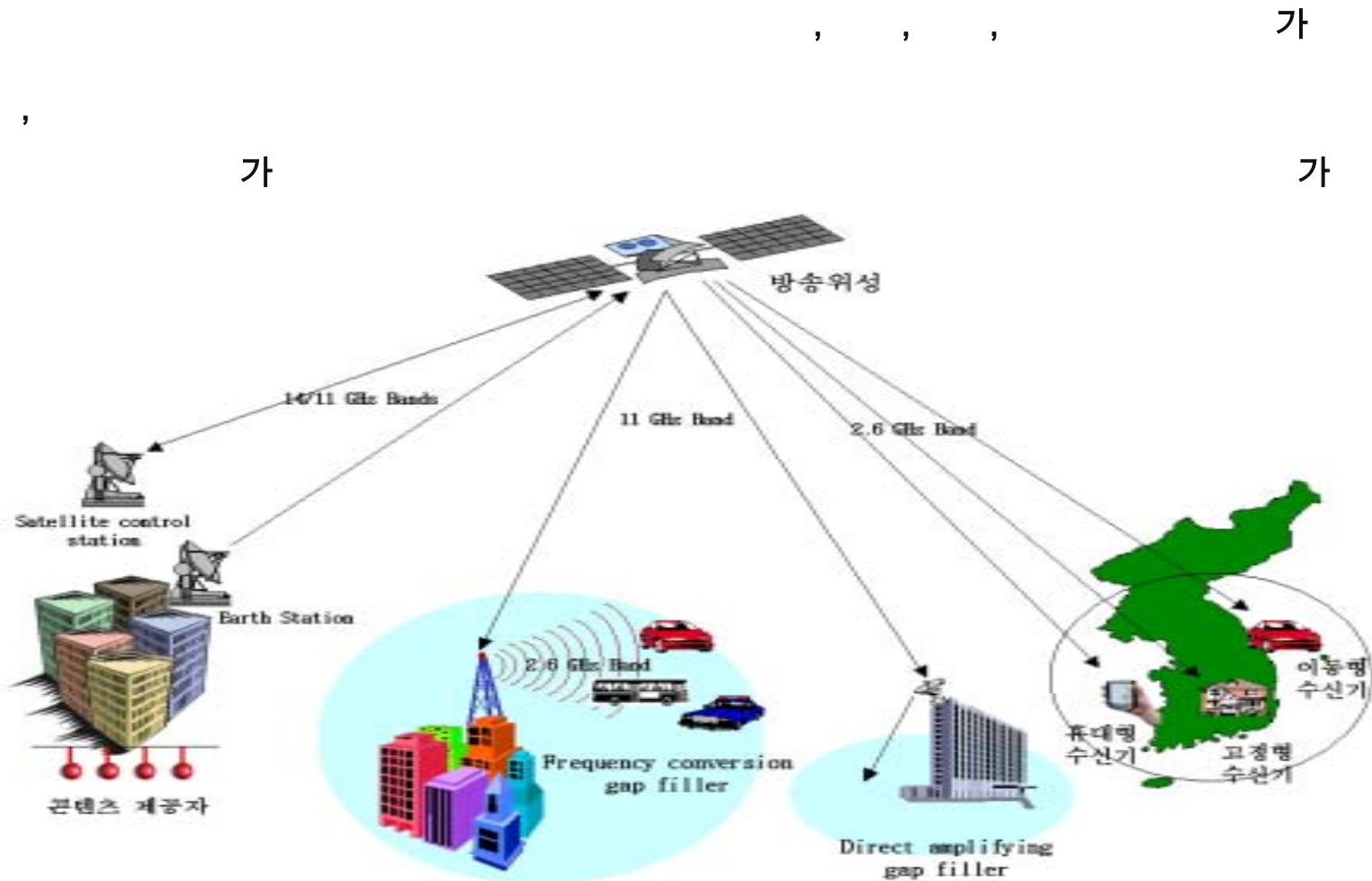
# 1. GIS

## III. GIS



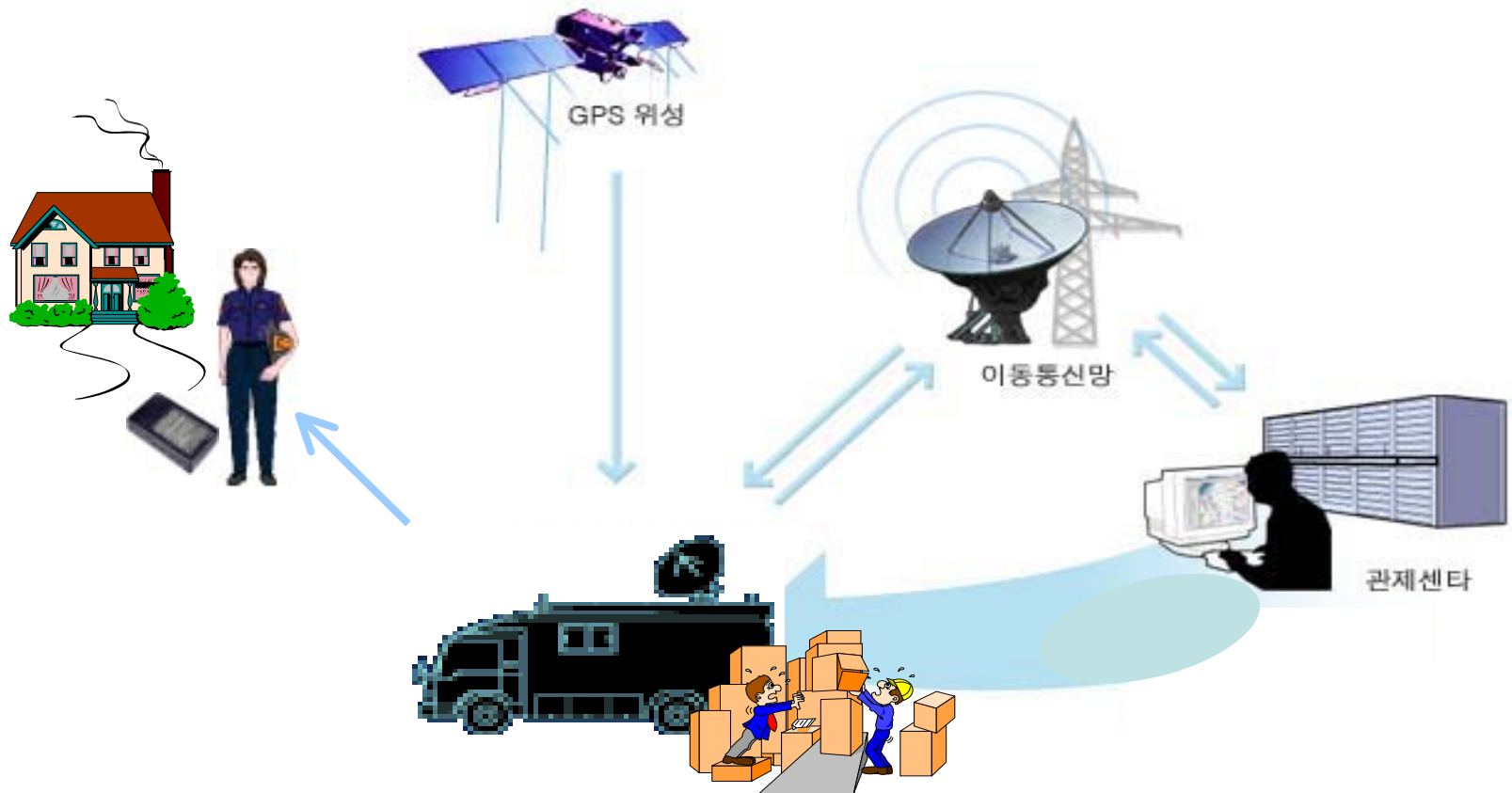


## DMB(Digital Multimedia Broadcasting)





가 , GPS / / , 가



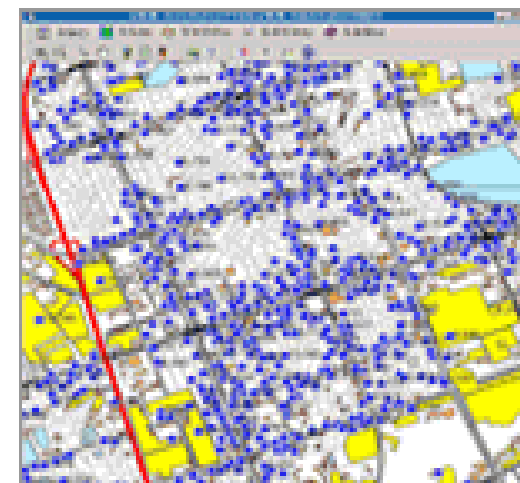
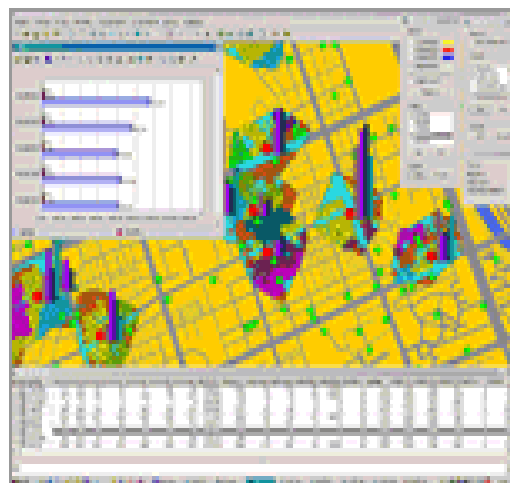
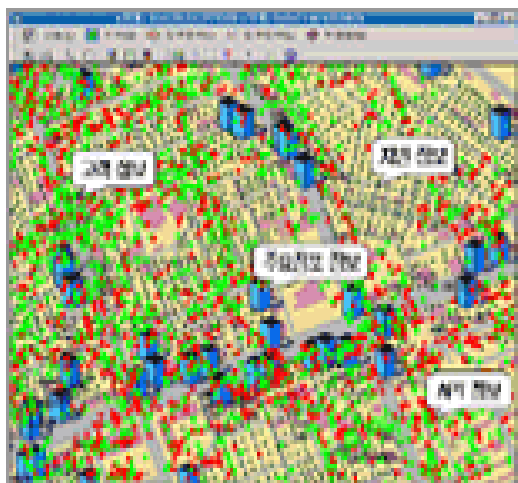
Geo - demographic

CRM

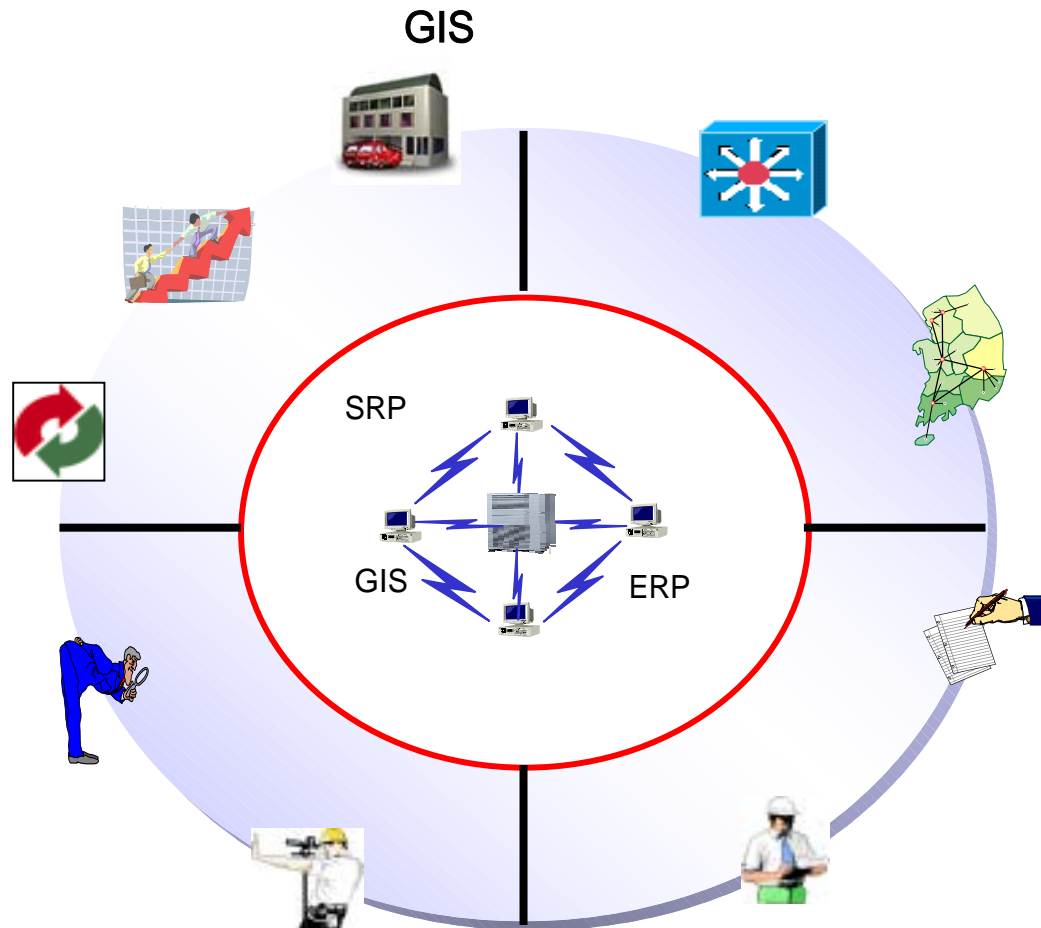
PDA, GPS

가 가

, GIS Mapping



ERP(Enterprise Resource Planning)



. GIS

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“Ubiquitous” ( )

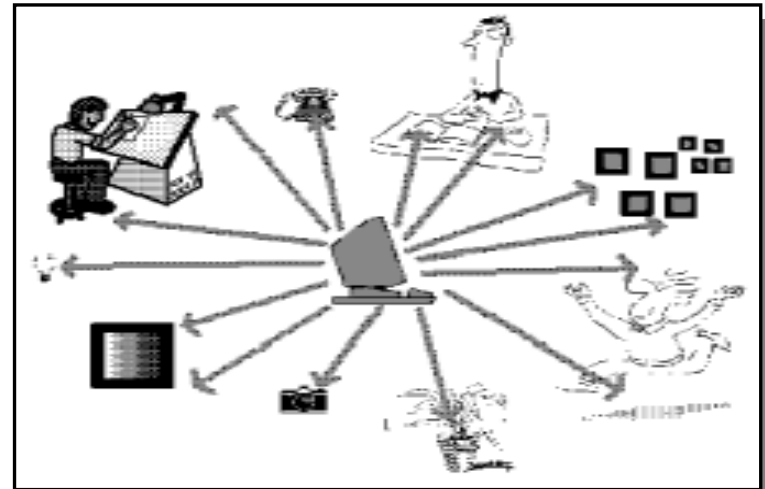
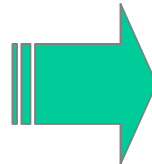
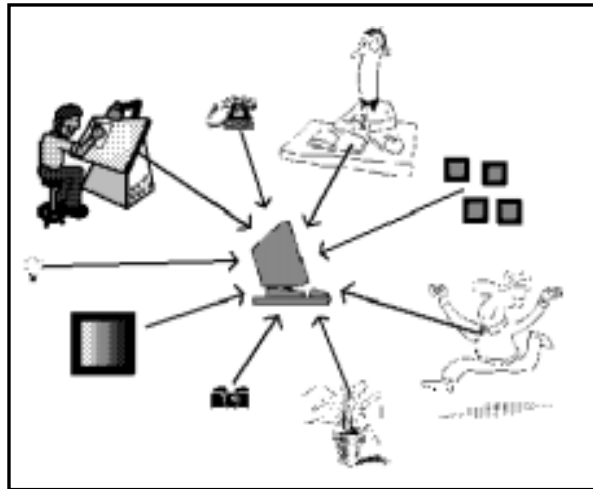
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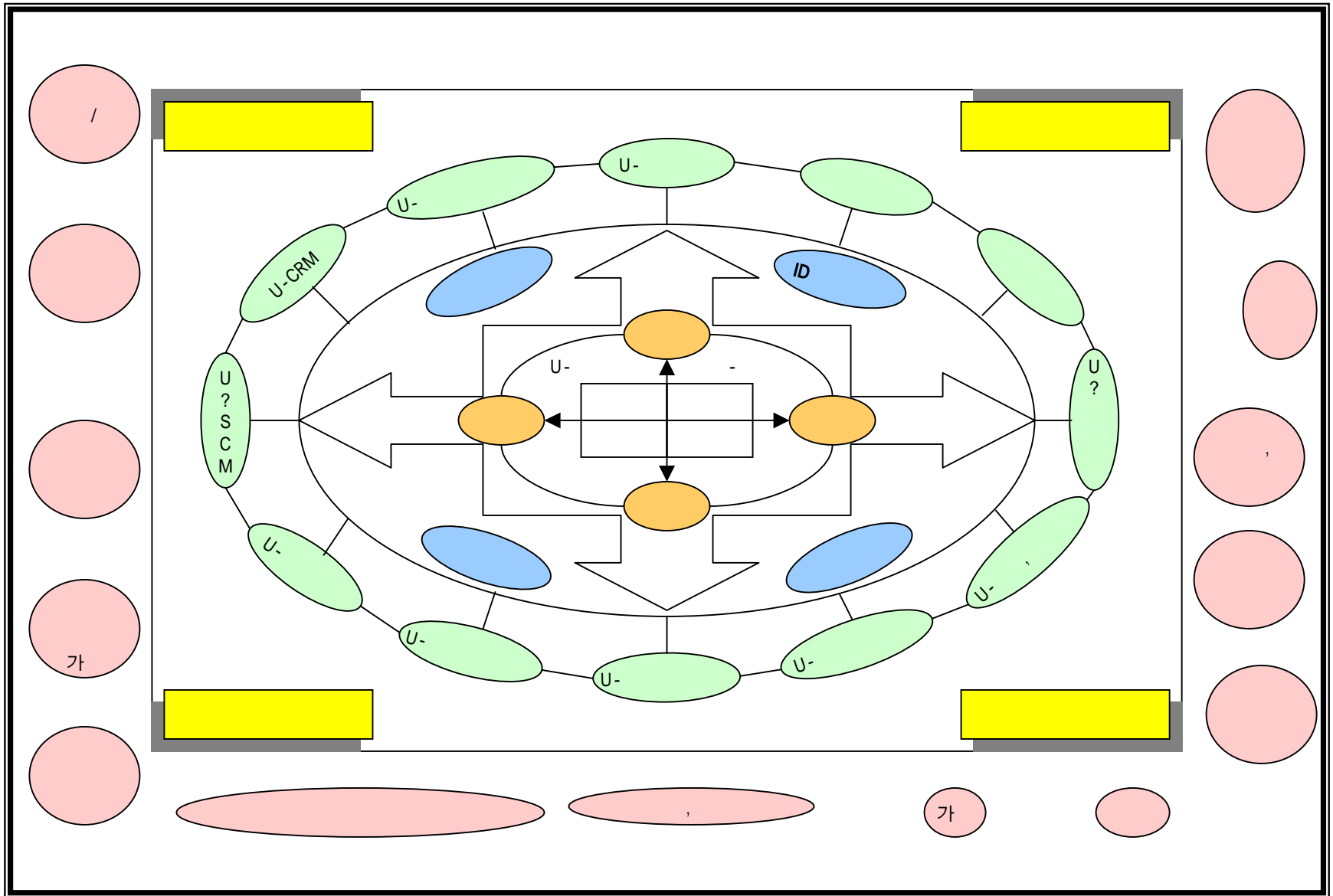
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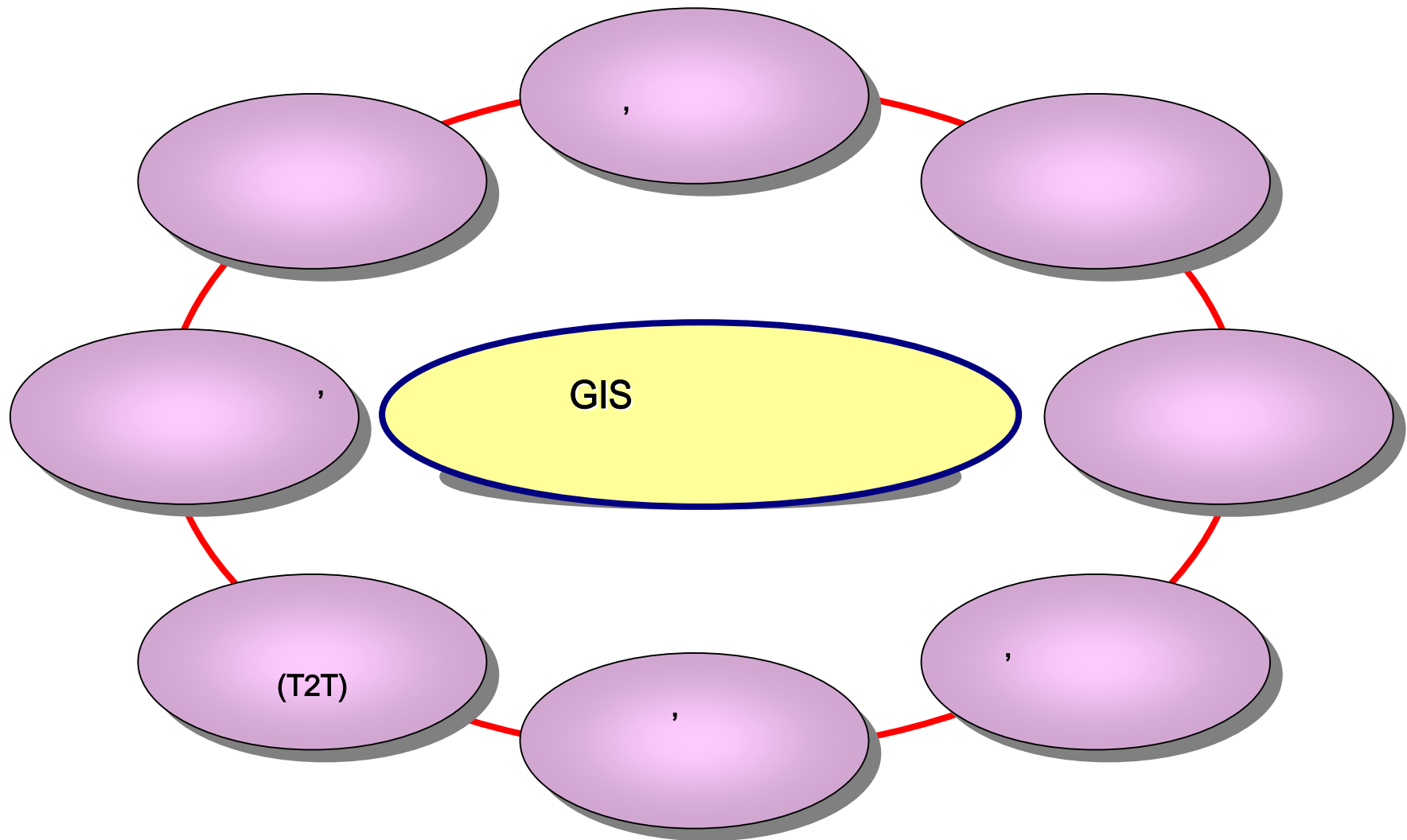
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## 4.

GIS

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GIS

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LBS,

3D GIS, Video GIS , INS GIS

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GIS

GIS

u-KOREA