

# AN INTRODUCTION TO THE IMPLEMENTATION PROCESS AND RESULTS OF THE ADDRESS SYSTEM IN S.KOREA

2019. 8



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# 01 BACKGROUND



## Need

### A need for an enhanced address system that is suitable for

- **(Compact City, 3D Development)** Trend of Compact and 3D Urban Structure(Overpass, high rise building)



- **(Require address representation for non-building facilities)** An uncomfortable area because the address is not clear(Earthquake evacuation zone, Park, Campground)

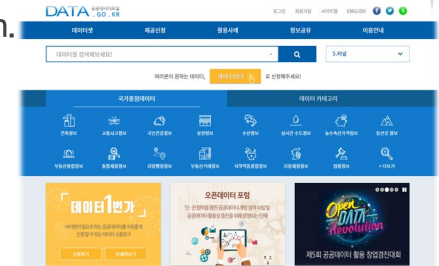


the delivery of food in the park

### Increased demand for address infrastructure

- **(Rising industrial demand and Creating a new industry)** Industry demand to use addresses as location identifiers is increasing, but there is a limit to the current address system.

\* 65.8% of public data uses address data



- **(Increased use of address information)** The use of a basic map of street name addresses is increasing.

ITEMS	TOTAL	OPEN API	ADDRESS SEARCH SOLUTION	Administrative Information Cooperation Center
Number of associated agencies	25,969	25,121	765	83



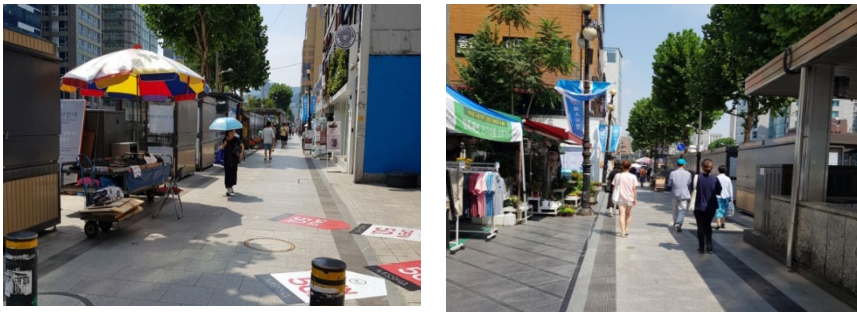
## Current Status and Problems

### Limitations of address on entire country

- **(Open space without building)** Only building has the address in current Road Address Act, So there are no address in open space.

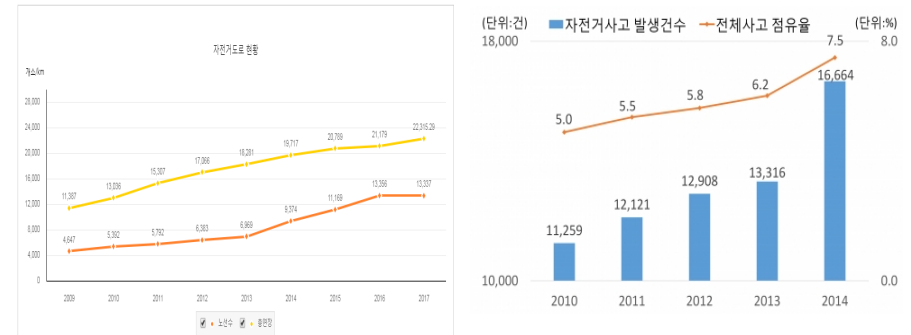


- **(Temporary Facility without address)** There are difficulties in economic activities, such as away from the traditional market without an address.

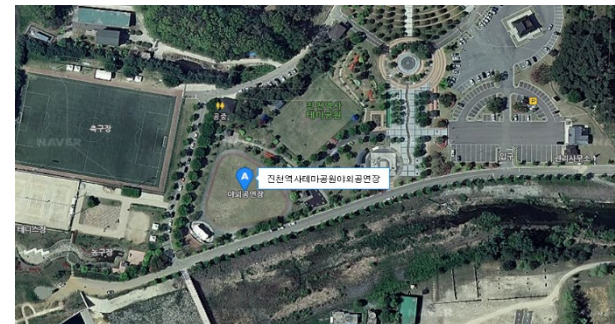


### limitations of not being able to handle the changing lives of the people

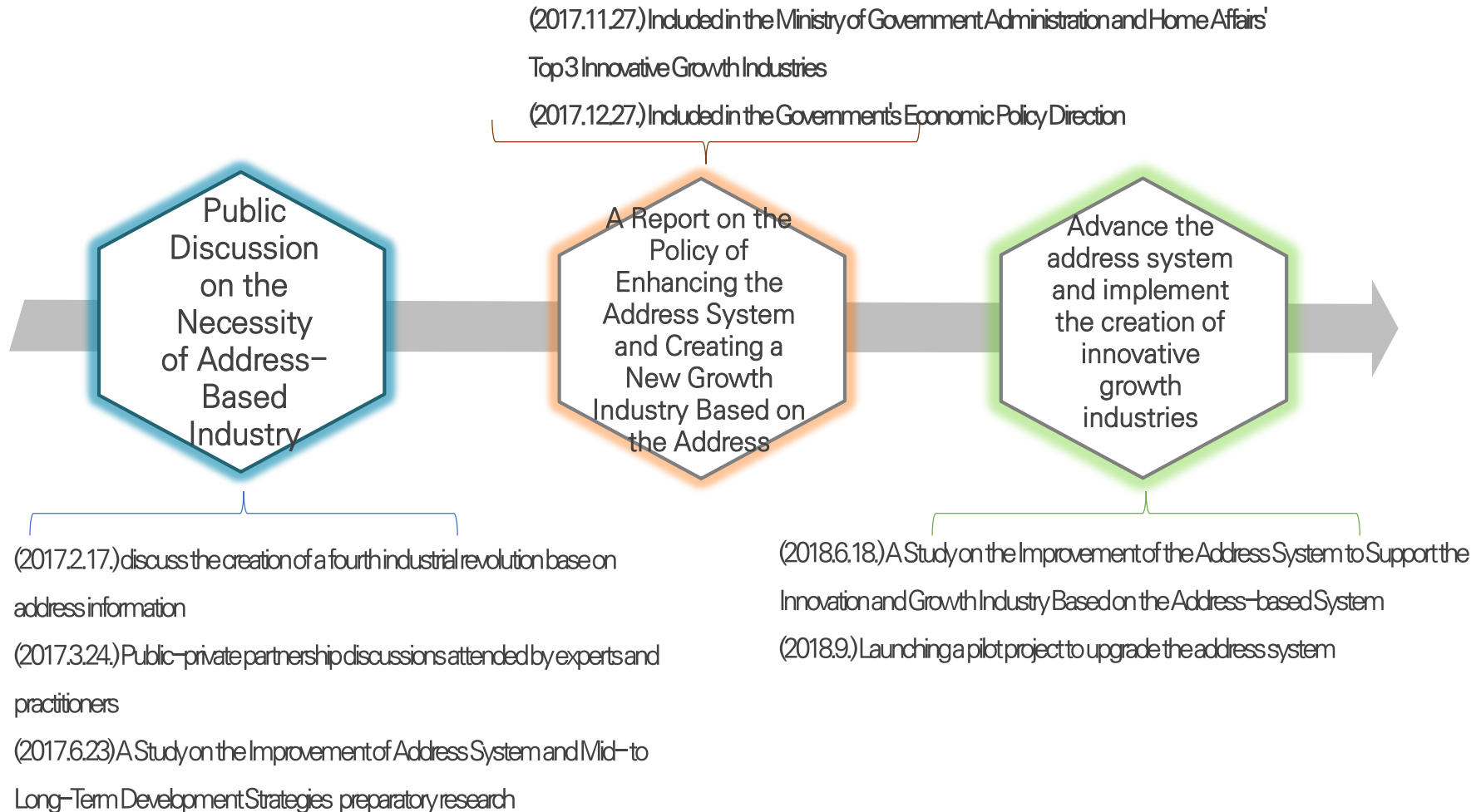
- **(Bicycle path and trails no address reference system)** Safety accidents on bicycle paths and trails are increasing.



- **(Hard-to-guide outdoor activities)** There is no address at the outdoor concert hall and stadium.



# 02 Policy process for object address system



# 03 Performance of implementing the object address system



## Defining the object address → a location identifier assigned to an object

### Prioritizing the assignment of address to objects

#### ☑ An object needed in case of disaster



Earthquake evacuation zone



#### ☑ a place of high use



\* electric vehicle charging station



### The way to express object address

#### ☑ The component of object address

component	example
Administrative name	Jincheon-eup, Jincheon-gun, Chungcheongbuk-do
Road name	Munwha7gil
Object number	7-3
Object type	The park in the riverside
name	Baekgokcheon public Parking Lot





## ● Installation the object address nameplate

### Object address plate(ex)

- ✓ Installation at the front and rear gates

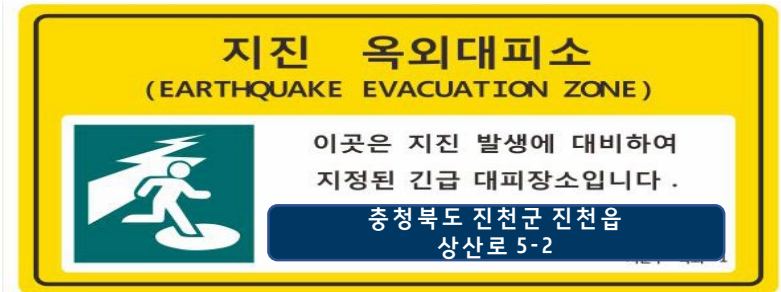


- ✓ installing on the front of an object

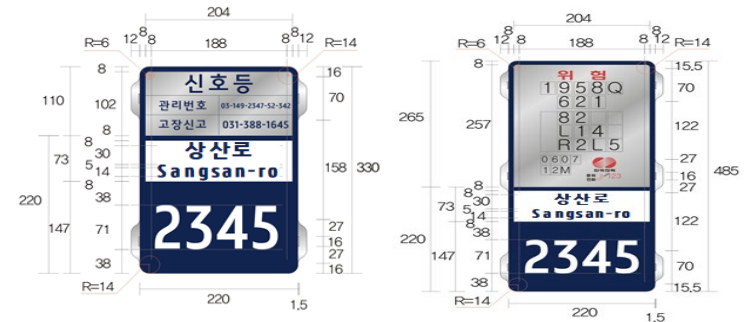


### Replace existing facility nameplates

- ✓ State the name of the road and the base number on the lower part of the existing facility nameplate of the existing facility



- ✓ Replace identification code by using road name and base number



# 03 Performance of implementing the object address system



## The selected object

items	facility(3type)	Object (15type)	place(16type)
Disaster Safety	<ul style="list-style-type: none"> <li>forest fire monitoring booth</li> <li>Movement control booth</li> </ul>	<ul style="list-style-type: none"> <li>Recue box</li> <li>emergency water supply facility</li> </ul>	<ul style="list-style-type: none"> <li>Earthquake evacuation zone</li> <li>Tsunami evacuation zone</li> <li>Parking lot in the riverside</li> </ul>
Economic Industry	<ul style="list-style-type: none"> <li>solar power generation station</li> </ul>	<ul style="list-style-type: none"> <li>electric charging station</li> <li>Public wifi spot</li> </ul>	<ul style="list-style-type: none"> <li>Business area for food truck</li> <li>Delivery site for drone</li> <li>Delivery site for droide</li> </ul>
Road network Transfortation	-	<ul style="list-style-type: none"> <li>Downtown Bus stop</li> <li>intercity bus stop</li> <li>Tax stop</li> <li>Rest area for sleepiness</li> <li>pedestrian overpass lift</li> </ul>	<ul style="list-style-type: none"> <li>Parking lot in the wayside</li> <li>Public parking lot</li> </ul>
Life Leisure	-	<ul style="list-style-type: none"> <li>recycling bin</li> <li>Bicycle station</li> <li>asynchronous transfer mode</li> <li>Fountain</li> </ul>	<ul style="list-style-type: none"> <li>Small size park</li> <li>Swimming pool outside campground</li> <li>Fishing ground</li> <li>ecological park</li> <li>Complex sport stadium</li> <li>Playground</li> </ul>
Culture Sighting	-	<ul style="list-style-type: none"> <li>Monument</li> <li>Cliff hanging training site</li> </ul>	<ul style="list-style-type: none"> <li>Outside concert hall</li> </ul>





# 04 Pilot project



## pedestrian overpass lift



130\*195mm

**남부순환로**  
Nambusunhwan-ro

**108번**

1층 승강기

112, 119 신고시내 위치는  
"구로구 남부순환로 108번  
1층 승강기"입니다.

## Street store



Street store		example
feature shape	main entrance	
polygon	point	

# 04 Pilot project



## Delivery site for drone

**철탑**

8m  
8m  
5m

출입구(1m 공간확보)

재질: 나무(합판) 두께 5cm 이상 랜딩마크 디자인은 추후 확정  
<이륙/착륙지(총 4곳)>

..... 전선

## Earthquake evacuation zone

지진 옥외대피소 (EARTHQUAKE EVACUATION ZONE)  
이곳은 지진 발생에 대비하여 지정된 긴급 대피장소입니다.  
※ 지진피해 시

지진옥외대피소

출입구

Shelter for earthquake		Example
Feature shape	polygon	
Entrance	point	
Center point	point	

# 05 Utilization model

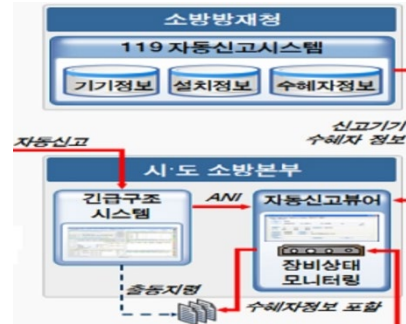


## Automatic sending of object addresses through location notification

Status



Improvement Plan (Example)



## Ease management through a consistent object address system

Status

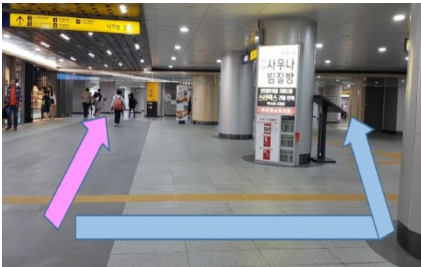


Improvement Plan (Example)

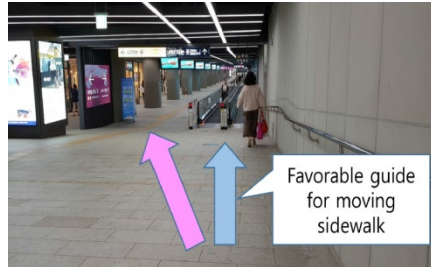


## A guide to the shortest walking path for the traffic-impaired.

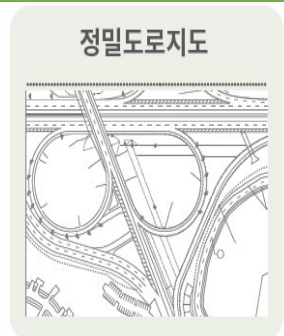
Road guide



Favorable guide for moving sidewalk



## Expression the Object Addresses on a Precision Map for Autonomous Driving





“Economic effect of 405 billion won over 10 years.

+ Economic ripple effects such as creating new jobs”

### disaster safety field

- Reducing the cost of damage due to the reduction of the time required to respond to location services for disaster sites

**4.4 billion a year**

- increasing damage when response time increase by one minute X emergency response save time X disaster move number (an annual average)

### regional economic revitalization field

- Economic Performance of Mobile Smart Town Service Reducing Public Relations Costs

**24 billion a year**

- Number of store \* the cost of advertising

### venue management field

- Economic Performance of Location-Based Services for Safety and Facility Management of crowded Places

**12.1 billion a year**

- Number of service expansion X System Deployment Costs