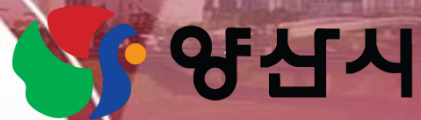


소통과 공정 다시 뛰는 양산

Smart and Safe City Yangsan

Safety City Bureau
Director, Jeon Jin-Seung



Overview of Yangsan



Population
362,601



Area
485.617km²



Administrative Regions
1 eup, 4 myuns, 8 dongs



Government employee
1,368



Budget
KRW 1,658 billion

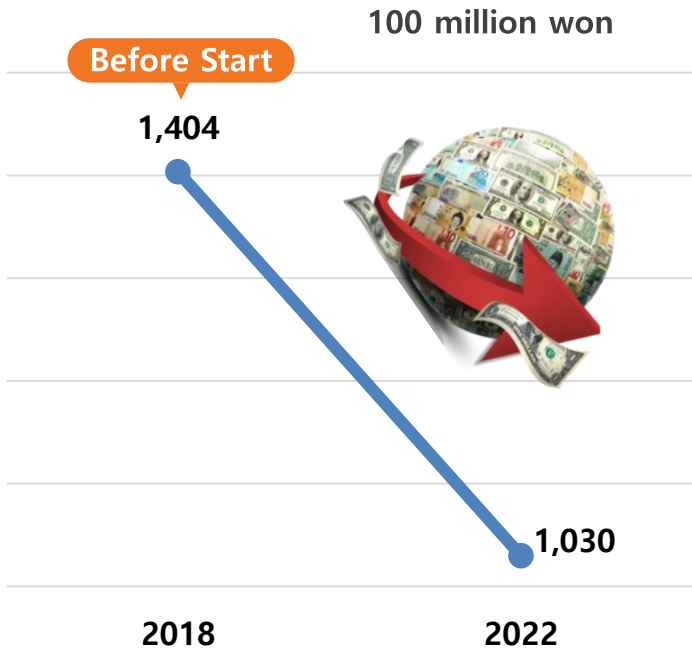
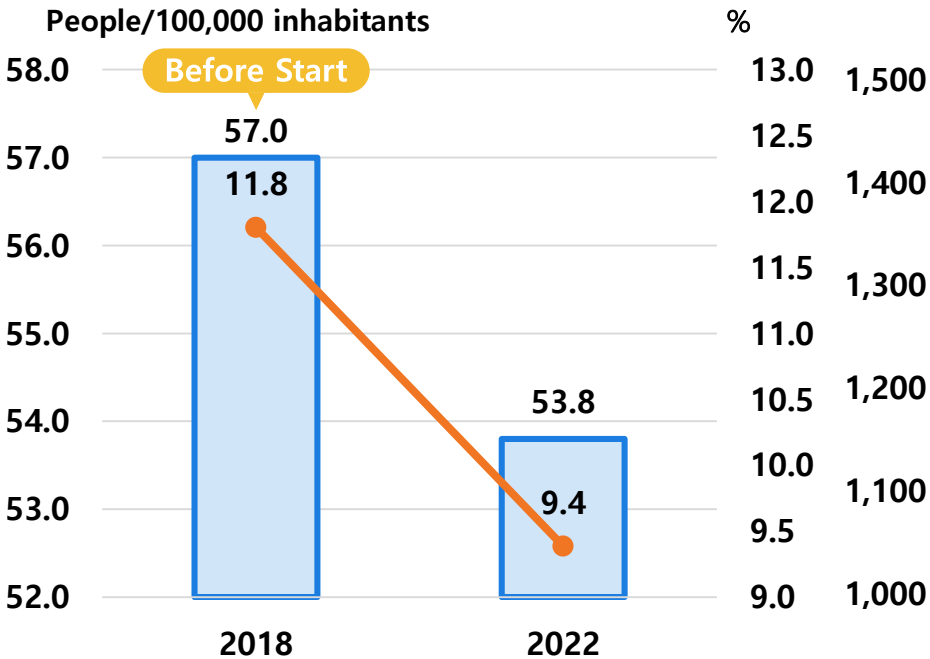


Achievement : Decrease in the Injury Death Rates & Economic Loss



Decrease in the crude Injury Death Rates

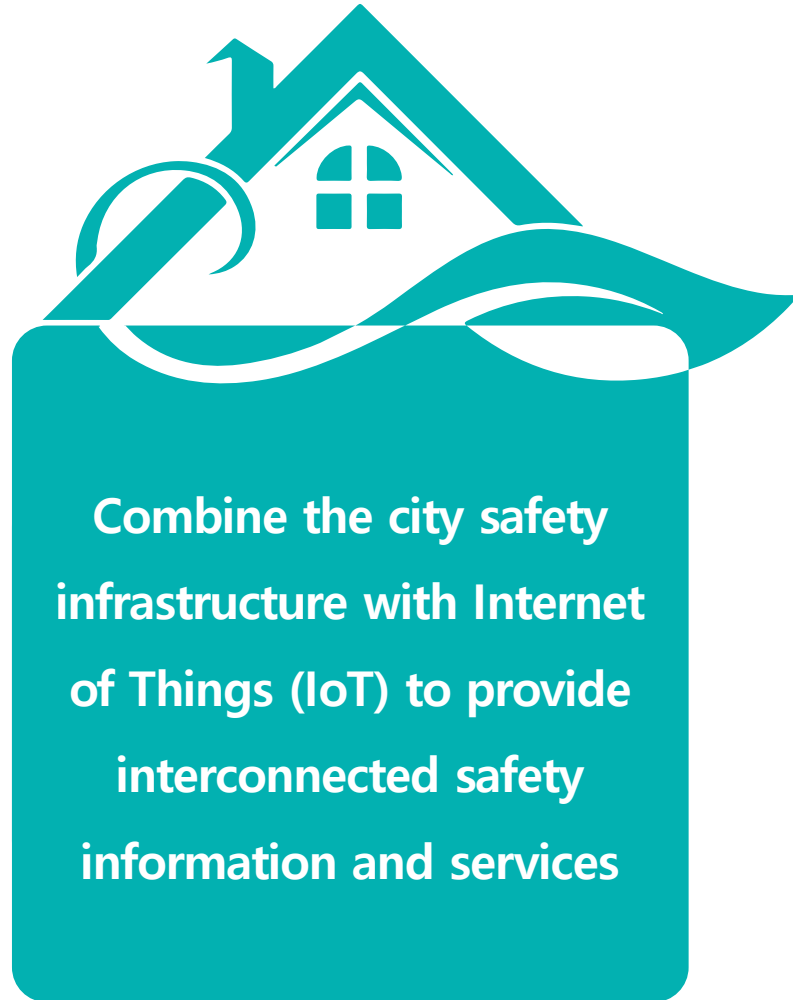
Decrease in Economic Loss



- ▮ The injury death rate per 100,000 inhabitants (people)
- The injury death percentage among total deaths (%)

* Source: Statistics Korea, Annual Statistical Report on Causes of Deaths, the crude injury death rates, 2018, 2022

Disaster Management Paradigms of Yangsan City





Smart and Safe Community Yangsan



Smart Residential Safety Environment

AI Smart Apartment



Smart Traffic Safety

Intelligent Transport
System (ITS)



Smart Life Safety

Location Management
System



Smart Care

Smart Care Doll



Smart Disaster Preparation Management

Disaster Information
Broadcasting System

1. AI Smart City Project

Spreading Smart City Solutions based on Citizen Needs

- **Smart crosswalks**
 - Detect stop lane violations, voice assistant for pedestrian signals, and right turn alerts
- **Smart shared parking**
 - Provide services for checking parking locations, number of available parking spaces and parking lot details
- **Smart bus stops**
 - Bus arrival information monitors, air conditioners, heaters, air purifiers, heating benches , CCTV, Wi-Fi

Smart Crosswalk



Smart Parking



Smart Bus Stop



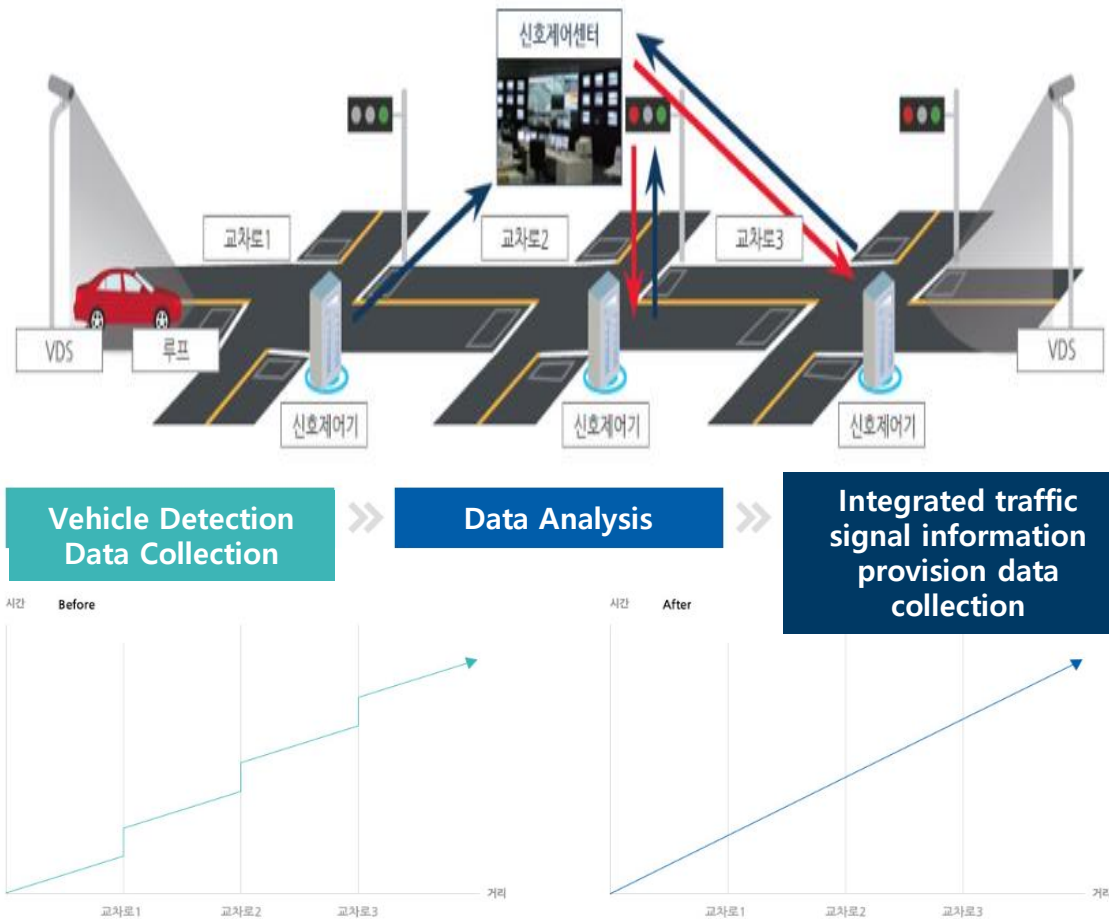
2. Intelligent Transport System (ITS)

Overview

- **Intelligent Transport System (ITS)**
 - Prevent traffic accidents by automatically controlling traffic signal flows
 - **(Method)** Use the intelligent traffic information system (ITS) technology to have the onboard equipment (OBE) and roadside equipment (RSE) to exchange traffic information
 - **(Effects)** Provide real-time traffic information to the UTIs device within cars, and send information such as vehicle location and speed to the traffic information center using GPS

ITS Service Provision Method

- Signal control through real-time intersection traffic analysis



System Flow Diagram

Collect traffic data



Data Analysis



Signal Control



Transmitting and receiving signal data

Real-time traffic transmission

Traffic signal adjustment

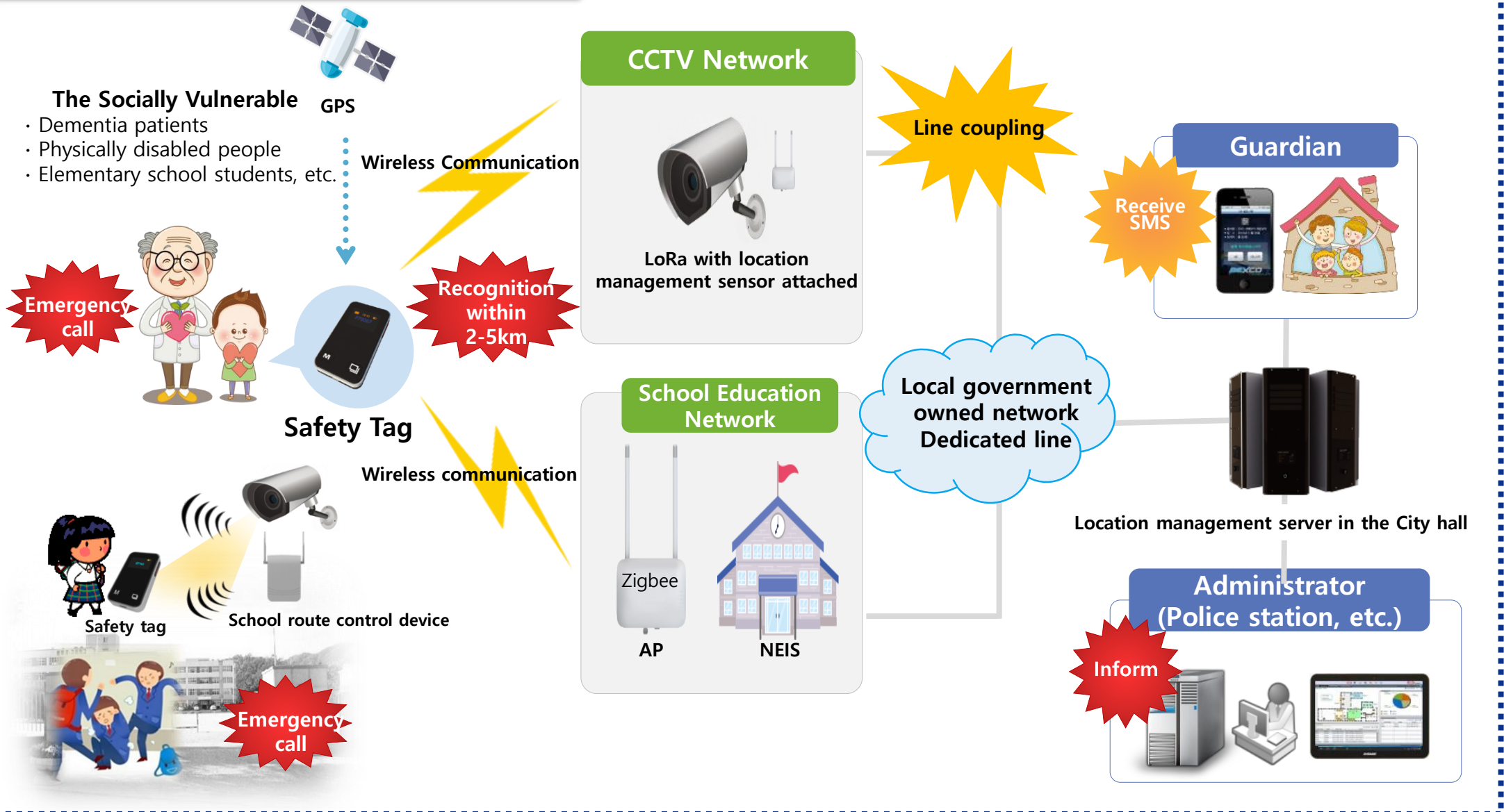


Electronic Traffic Signal Controller



3. Smart Location Management System for the Socially Vulnerable Group

System Configuration Diagram



4. Smart Care for the Elderly Living Alone

Purpose

- Provide care dolls to the elderly living alone to provide one-on-one, always-on, non-contact service
- Provide a variety of safety management services such as support for daily activities, emergency monitoring, and companionship with care dolls

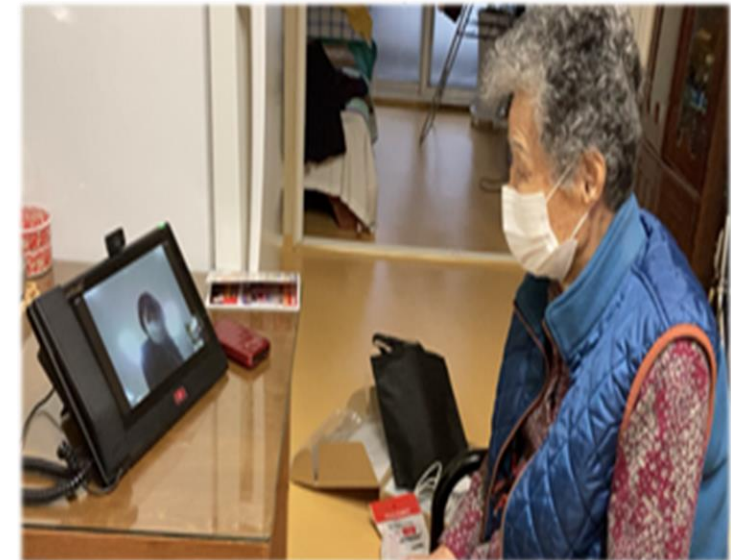
Smart Care Dolls



Remote Support System based on AI Speaker



Building a Video Call Infrastructure



5. AI Smart Disaster Management (City Integrated Control Center)



Overview

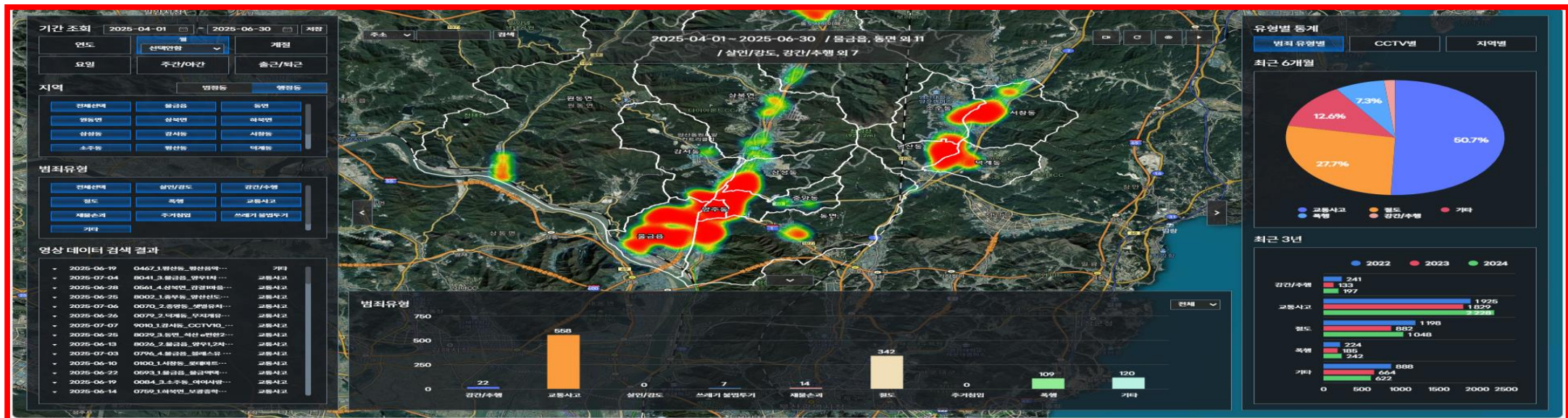
- Establishment of an efficient operation and rapid response system for CCTV cameras, which are being added every year.
- Establishment of a safe city infrastructure by protecting lives and property from crime.
- Improvement of citizen service quality through real-time collection and provision of traffic and road condition information.

Operating Status

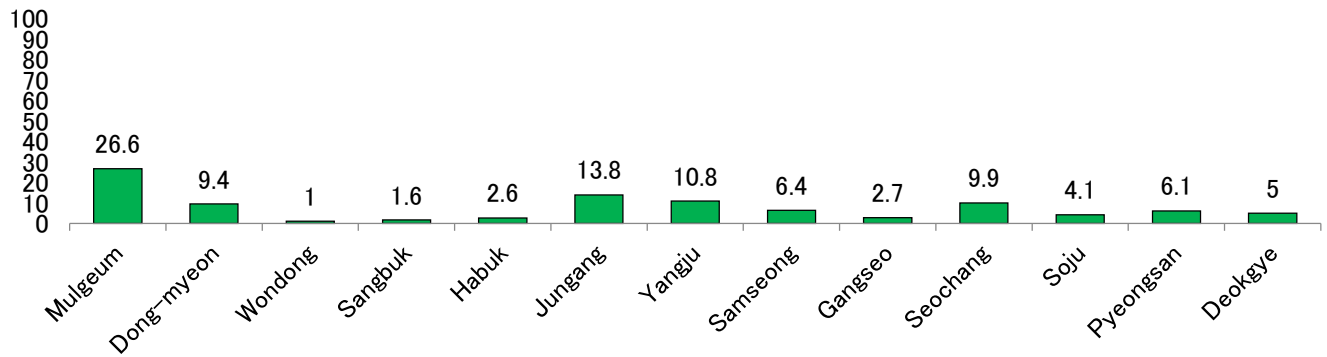
- CCTV integration and real-time monitoring (crime detection, parking enforcement, traffic monitoring)
 - CCTV : 3,425 cameras, 20 real-time CCTV monitoring operators (4 shifts, 3 rotations)
- Provision of real-time traffic information on major roads
- Operation of intelligent traffic signal control systems at major intersections
- Operation and management of bus information systems

Crime Analysis by the Yangsan City Integrated Control Center (Second Quarter of 2025)

- **(Period)** Second quarter of 2025 (April 1, 2025 to June 30, 2025)
- **(Location)** Entire Yangsan City
- **(Data)** CCTV data from the Control Center, Crime analysis data by the Yangsan City Integrated Control Center (Second Quarter of 2025)
- **(Results)**
 - 'A total of **734 CCTV footage files** were used for investigation purposes during the second quarter of 2025.
 - By region: **Mulgeum-eup → Jungang-dong → Yangju-dong**
 - By type: **Traffic accident → Theft → Others**
 - By time: **6:00 p.m. to 9:00 p.m.** (traffic accidents, theft)
 - * 6:00 p.m. to 9:00 p.m. in Mulgeum-eup: Intensive monitoring is required, focusing on intersections, entertainment districts, and densely populated residential areas.

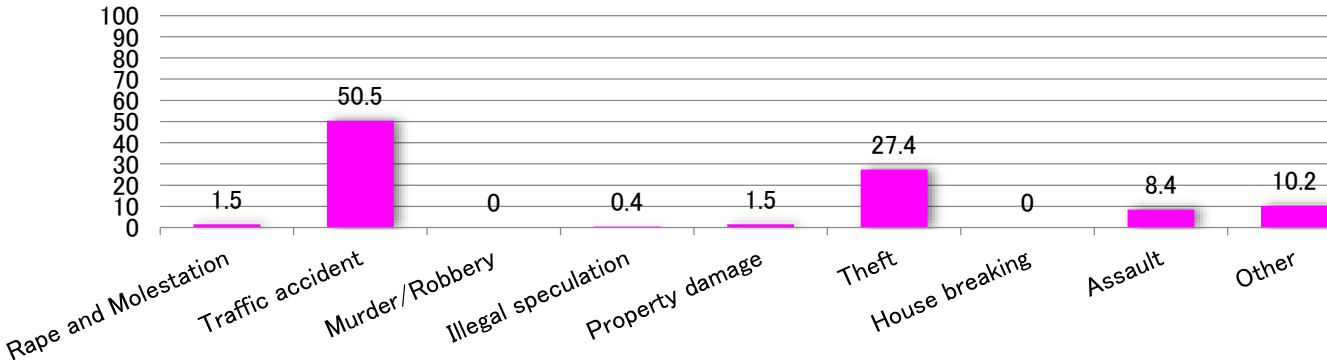


○ Status by region



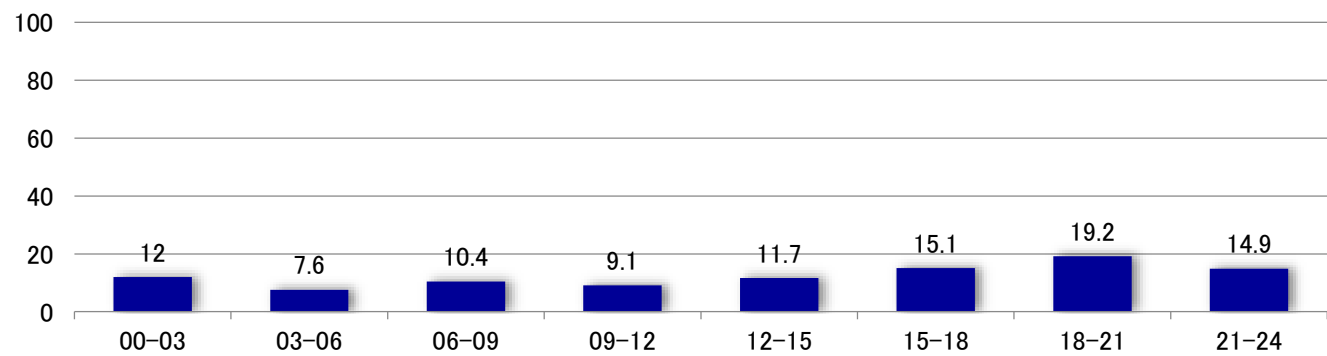
Eup Myeon Dong	total	Mulgeum	Dongmyeon	Wondong	Sangbuk	Habuk	Jungang	Yangju	Samseong	Gangseo	Seochang	Soju	Pyeongsan	Deokgye
Number of cases	734	195	69	7	12	19	101	79	47	20	73	30	45	37

○ Status by type



type	total	Rape and Molestation	Traffic accident	Murder/Robbery	Illegal speculation	Property damage	Theft	House breaking	Assault	Other
Number of cases	734	11	371	0	3	11	201	0	62	75

○ Status by time



time	total	00-03	03-06	06-09	09-12	12-15	15-18	18-21	21-24
Number of cases	734	88	56	76	67	86	111	141	109

통합관제센터 운영 사례

Integrated Control Monitoring



Council Meeting



Crime prevention (installation of streetlights)



Expected Effects

- Rapid response in case of accidents to keep citizens safe and secure
- Easy to expand the platform into a city-based integrated information center for heavy rains, crime prevention, life safety, and transportation

Expected Effects

Smart and Safe Community Yangsan



Leverage safety data across all aspects of citizens' lives to boost the competitive edge of the city

Data-driven safety administration with digital citizen safety monitoring

Spread a safety culture based on citizen participation with an information sharing platform among Yangsan - City - Safety management organizations-Citizens

소통과 공정 다시 뛰는 양산



THANK YOU