



Smart City Integrated Platform & Smart City Safety Net Service

29th June 2021

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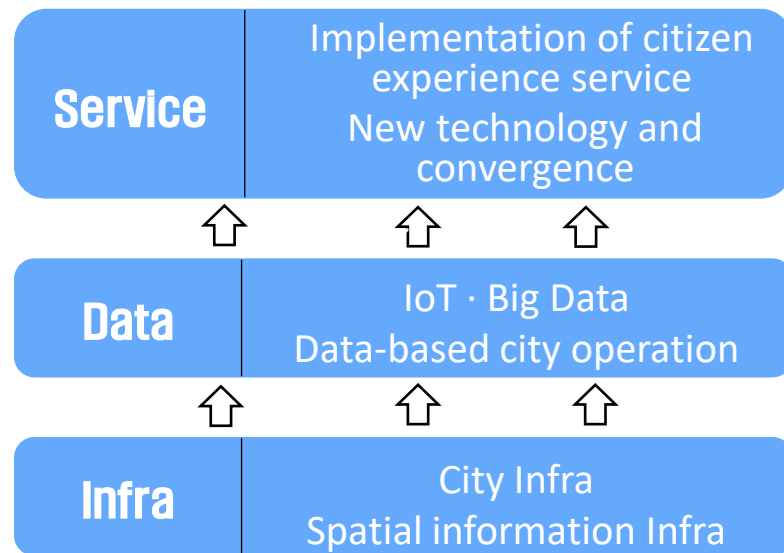


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- ◆ What is Smart City Integrated Platform?
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- ◆ The Necessity of Integrated Platform
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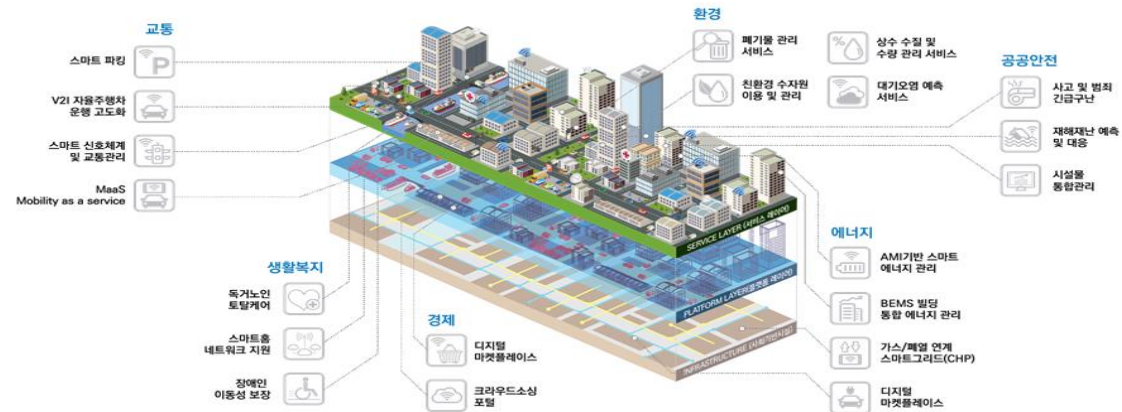
What is Smart City Services?

- (Smart City) **A sustainable city** that provides a **variety of urban services** based on **urban infrastructure** built by **converging construction and ICT** to improve **the city's competitiveness and quality of life** (Article 2, subparagraph 1 of the Act)

✓ Components of a Smart City



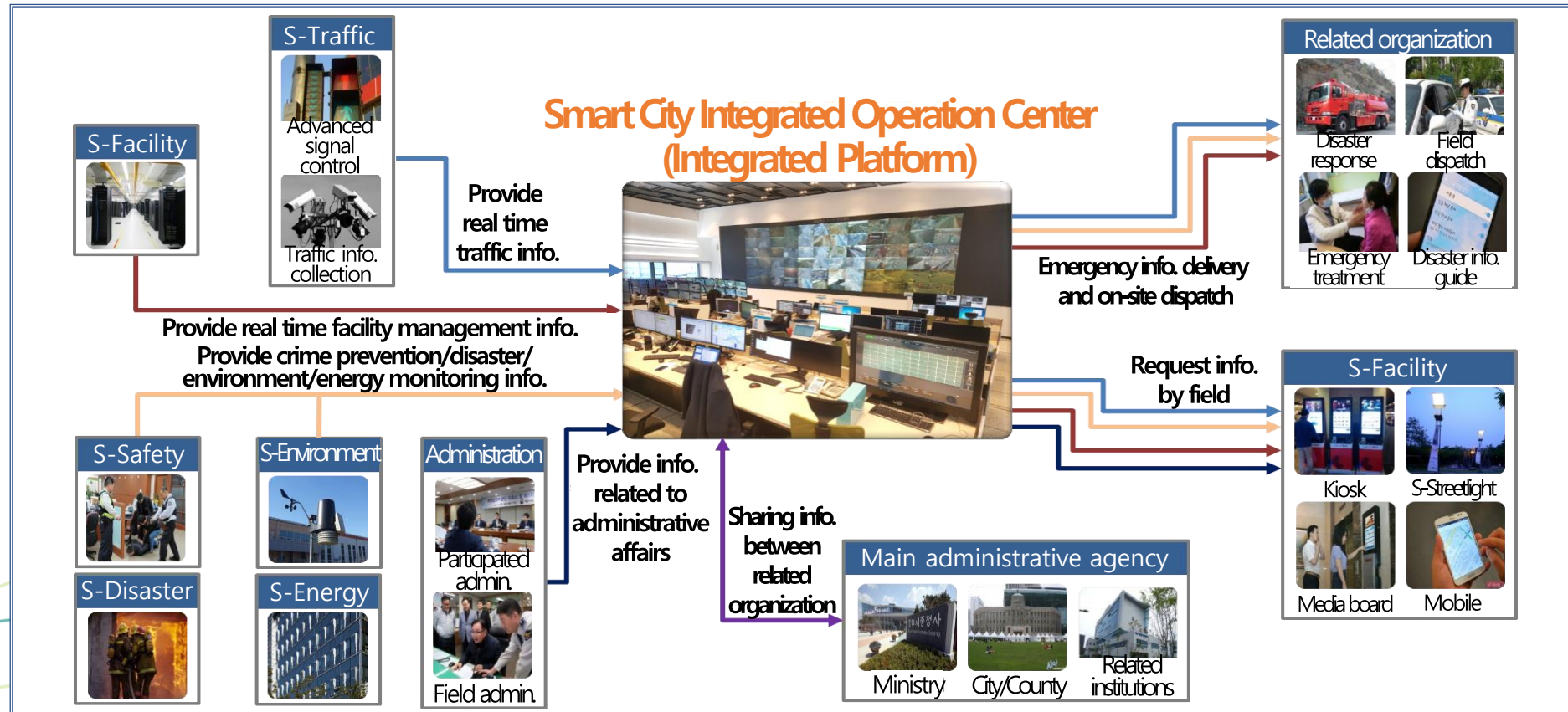
In general, a smart city is defined as an urban model that can solve various urban problems and improve the quality of life by incorporating new technologies such as ICT and big data into a city.



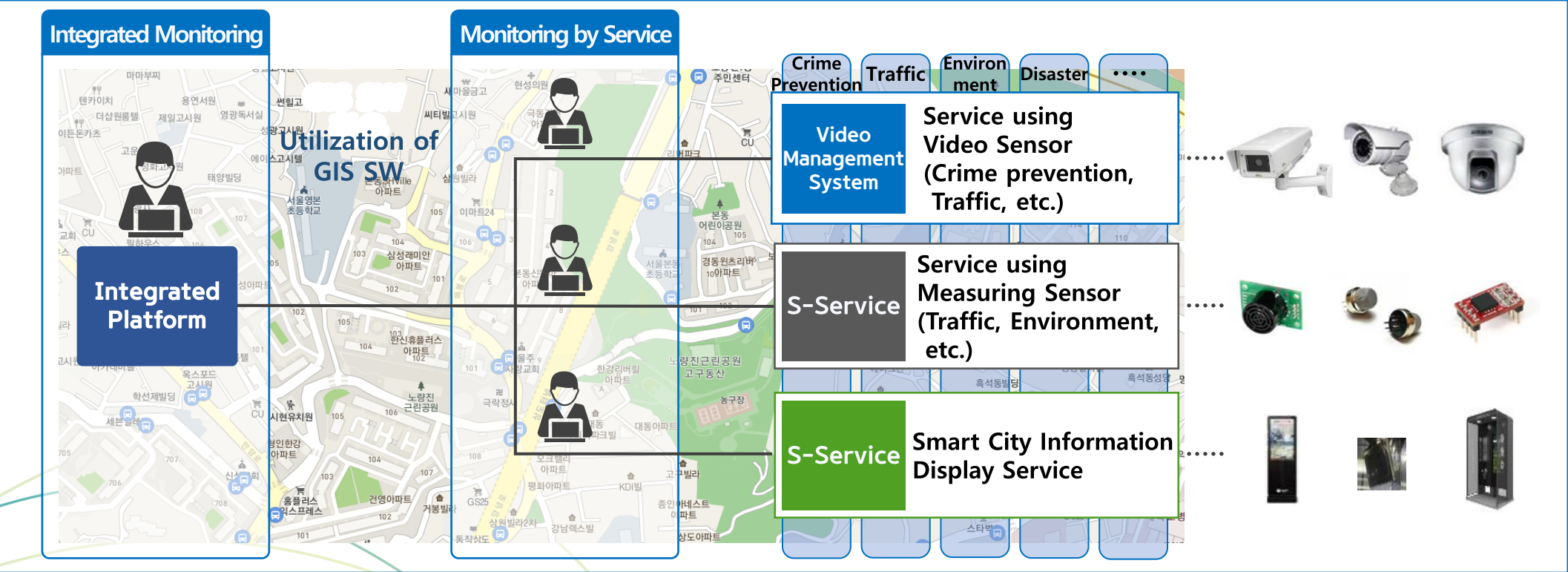
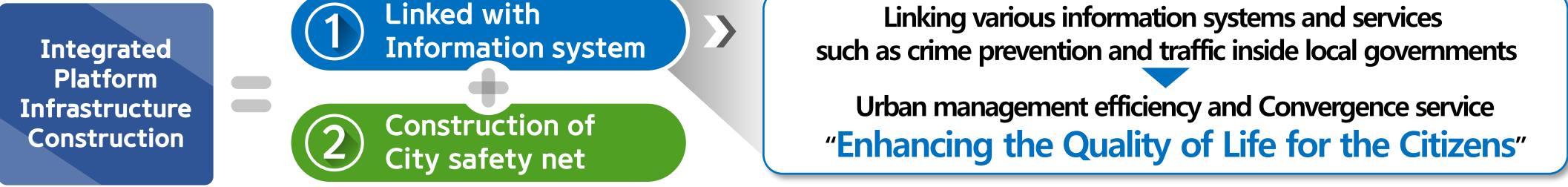
- (Smart City Service) **A service** that **collects information by main functions** of the city, such as administration, transportation, welfare, environment, and disaster through smart city infrastructure, etc., and then **provides the information in connection with each other** (Article 2, Subparagraph 2 of the Act)

What is Smart City Integrated Platform?

- An integrated urban situation management tool that synthesizes and processes various situation events in city that can occur simultaneously in crime prevention and disaster, traffic, environment, facility management, etc.

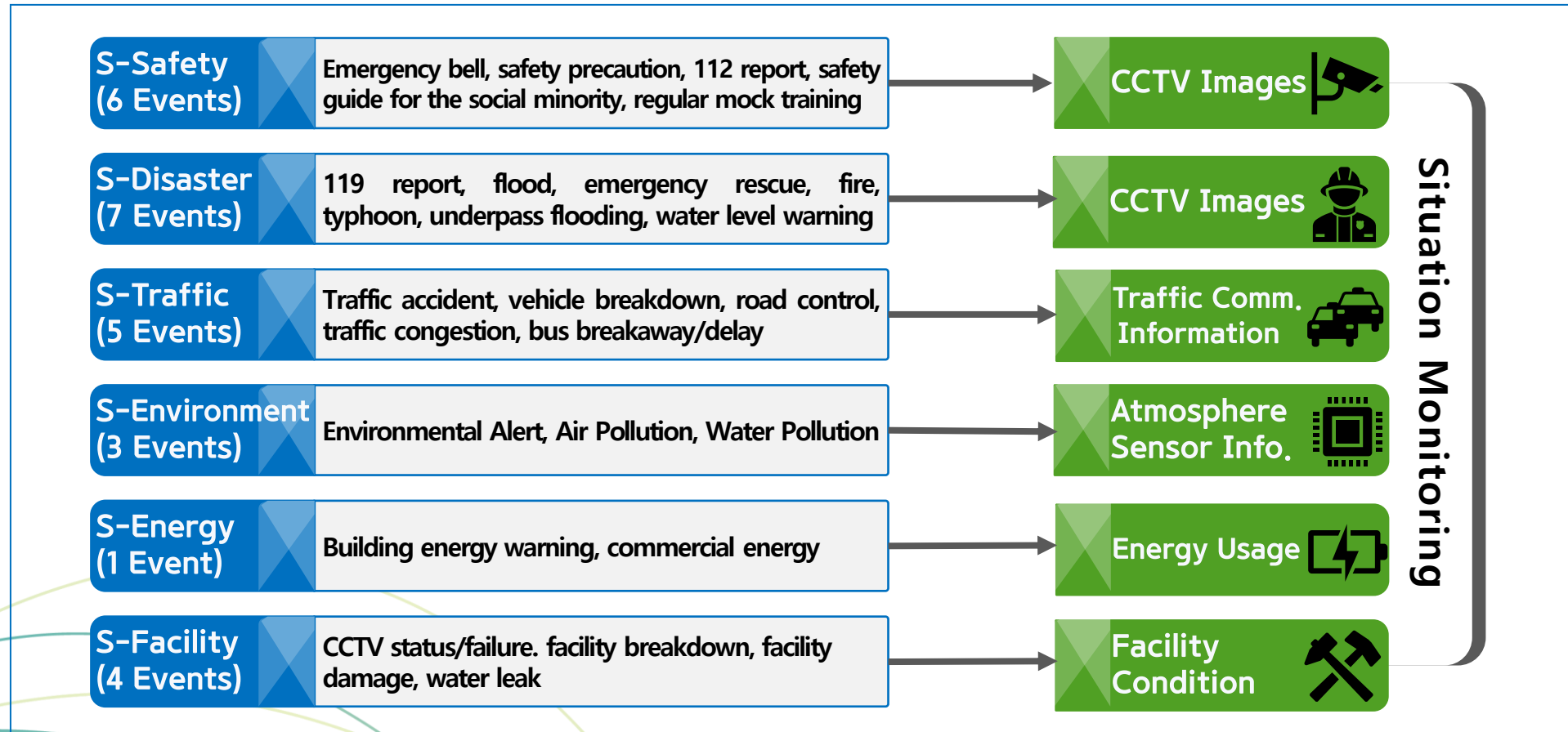


Infrastructure Construction Project for the Smart City Integrated Platform



Infrastructure Construction Project for the Smart City Integrated Platform

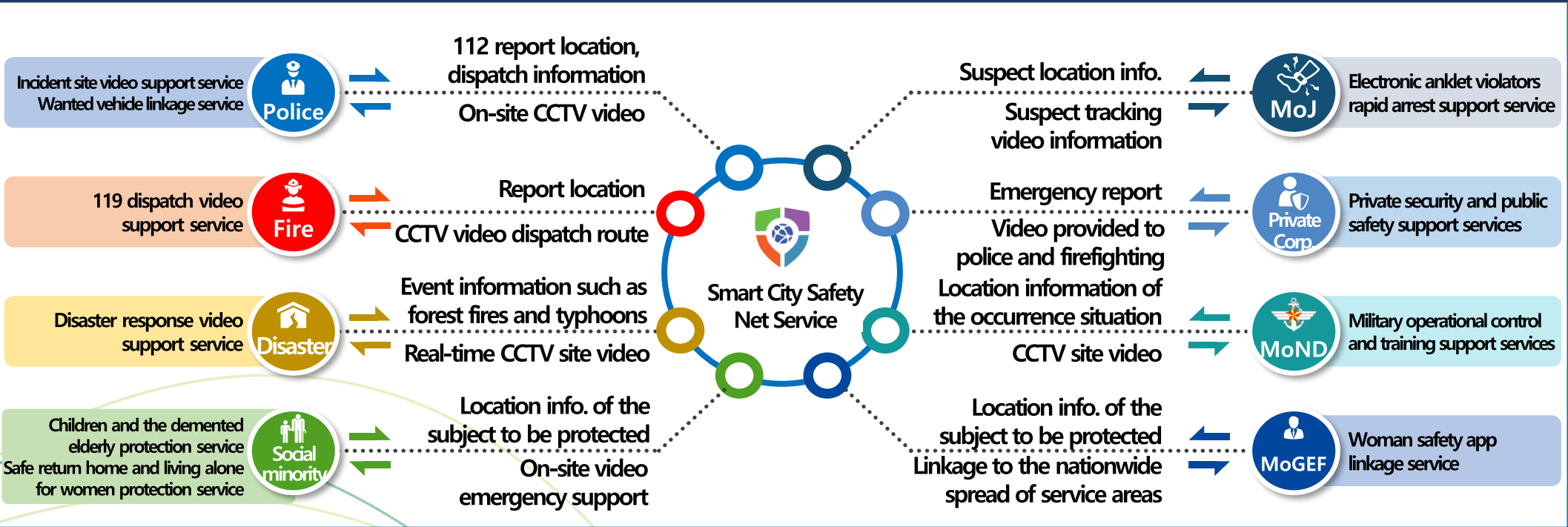
- ✓ The smart city integrated platform supports the processing of 26 events, including S-safety events, along with constant monitoring of CCTV, traffic communication, weather, and facility information.



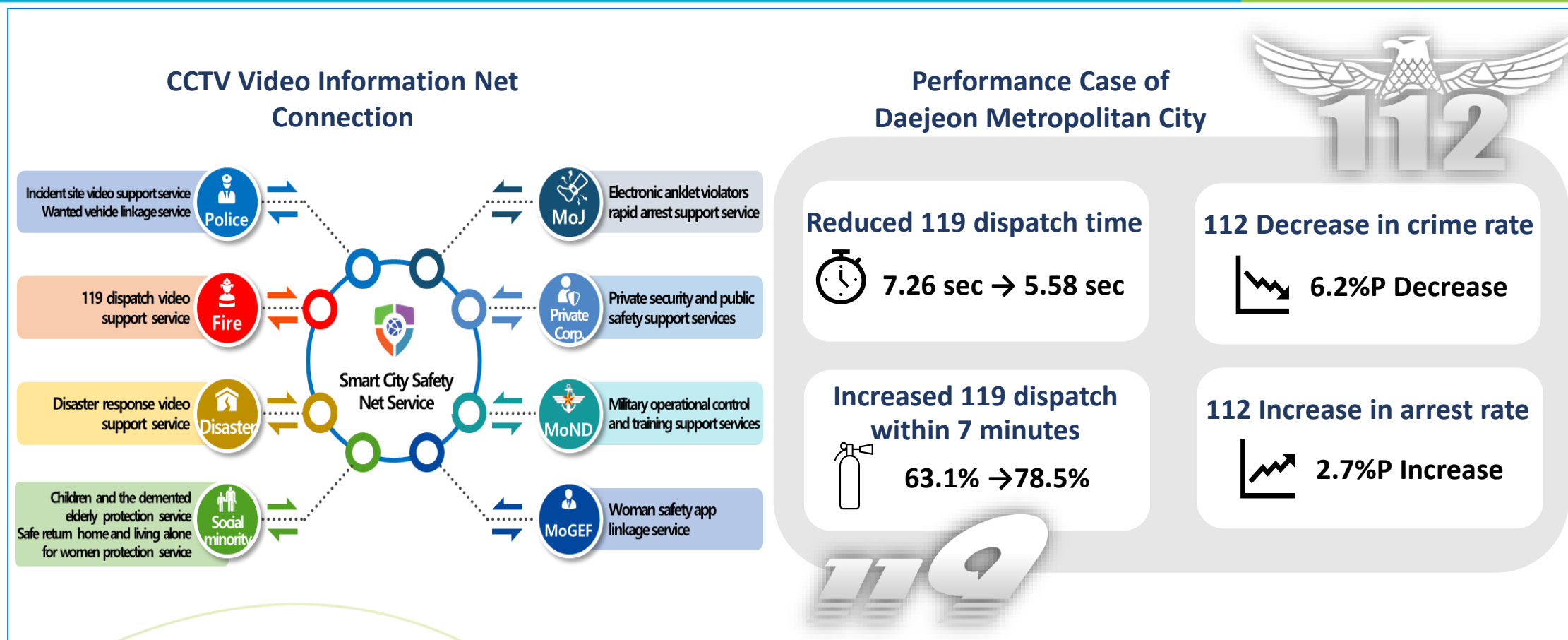
Infrastructure Construction Project for the Smart City Integrated Platform (Continue...)



Smart City Public Safety Service

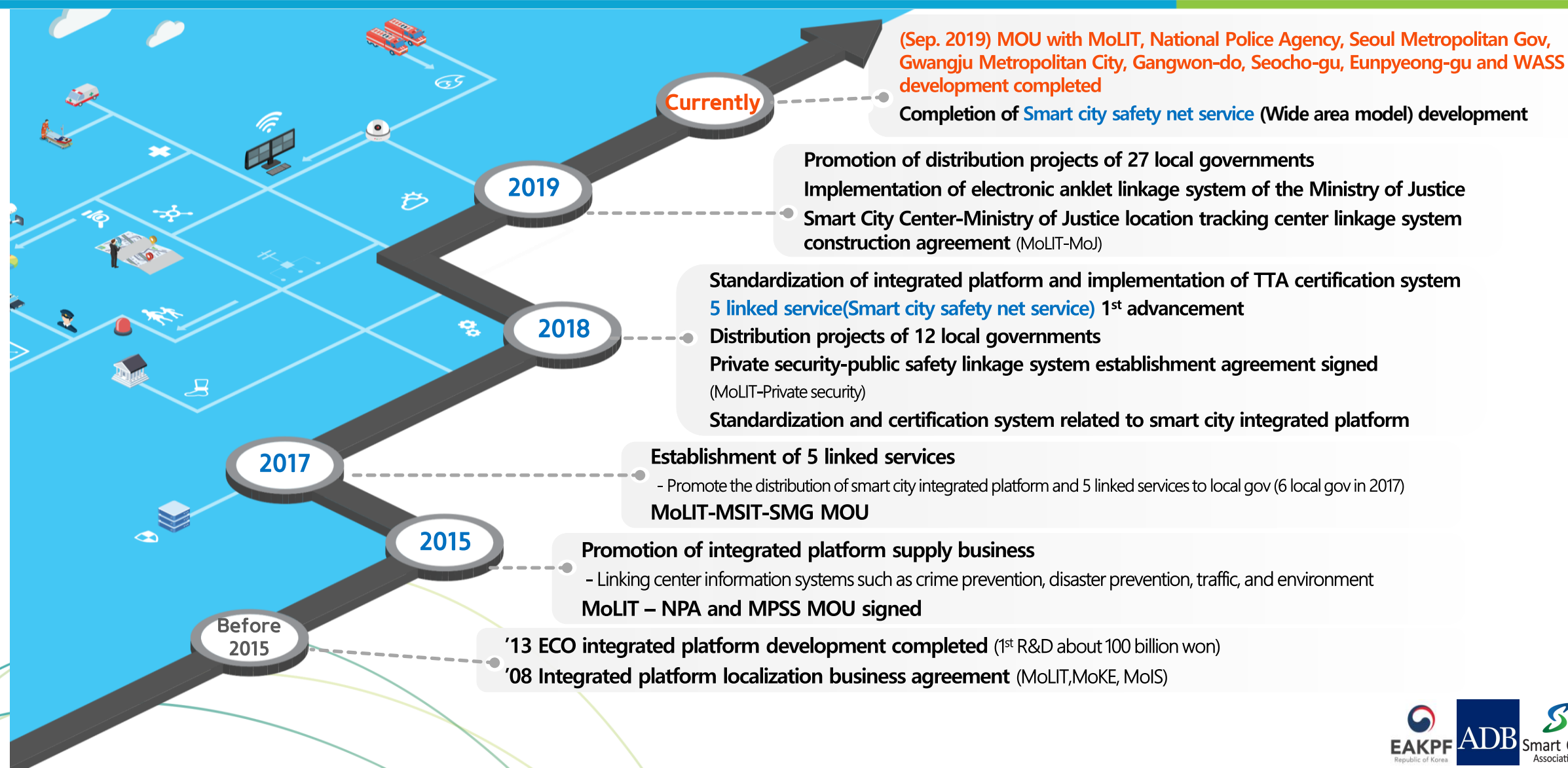


Achievements of Constructing an Integrated Platform

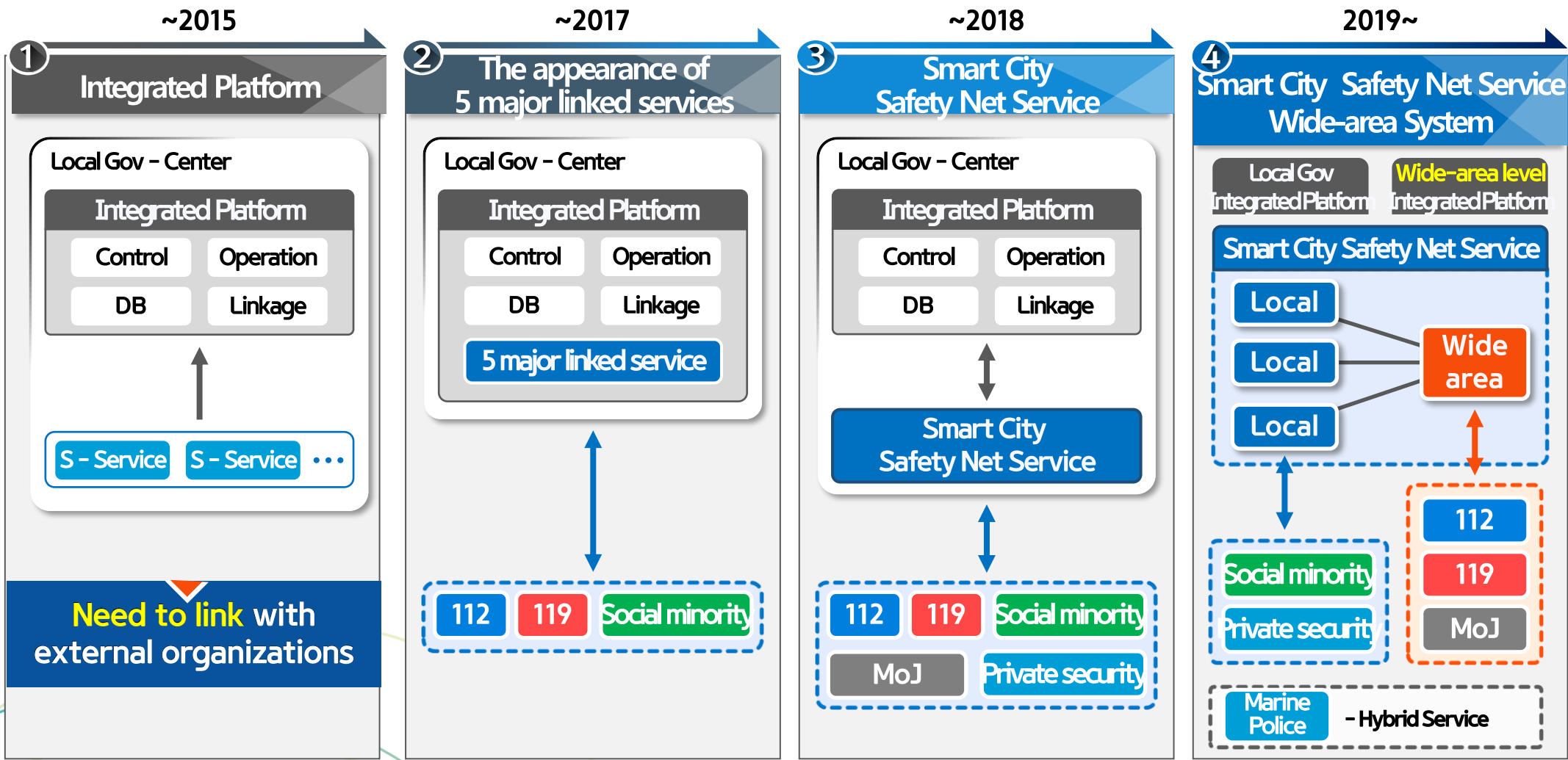


- (Achievement) **Cases of the Daejeon Police and Fire department**, which received 15,117 CCTV video information in 2018 through **the connection of 112 and 119 networks** in Daejeon City (18.8 cases)

Implementation stages for Infrastructure Construction Project



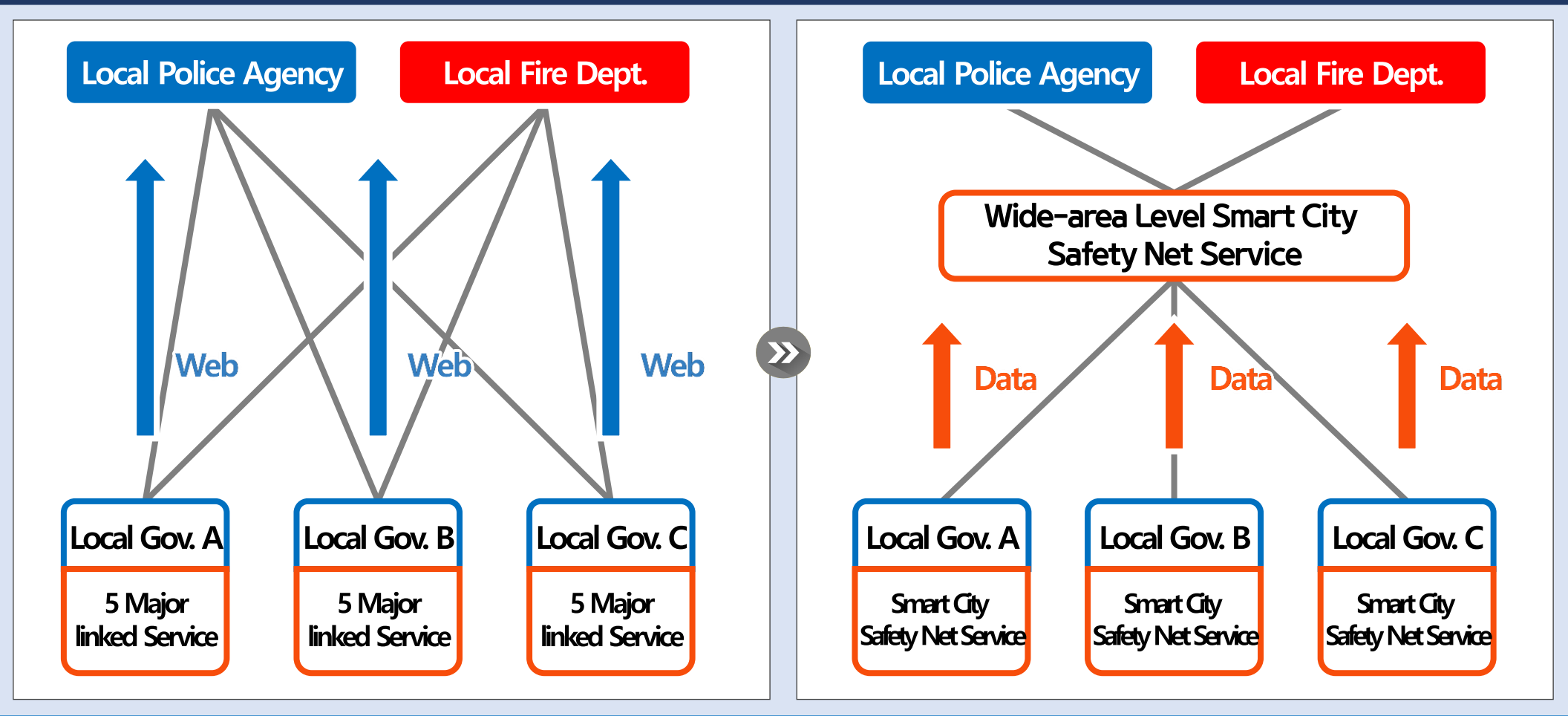
Changes in Integrated Platform and Smart City Safety Net Service



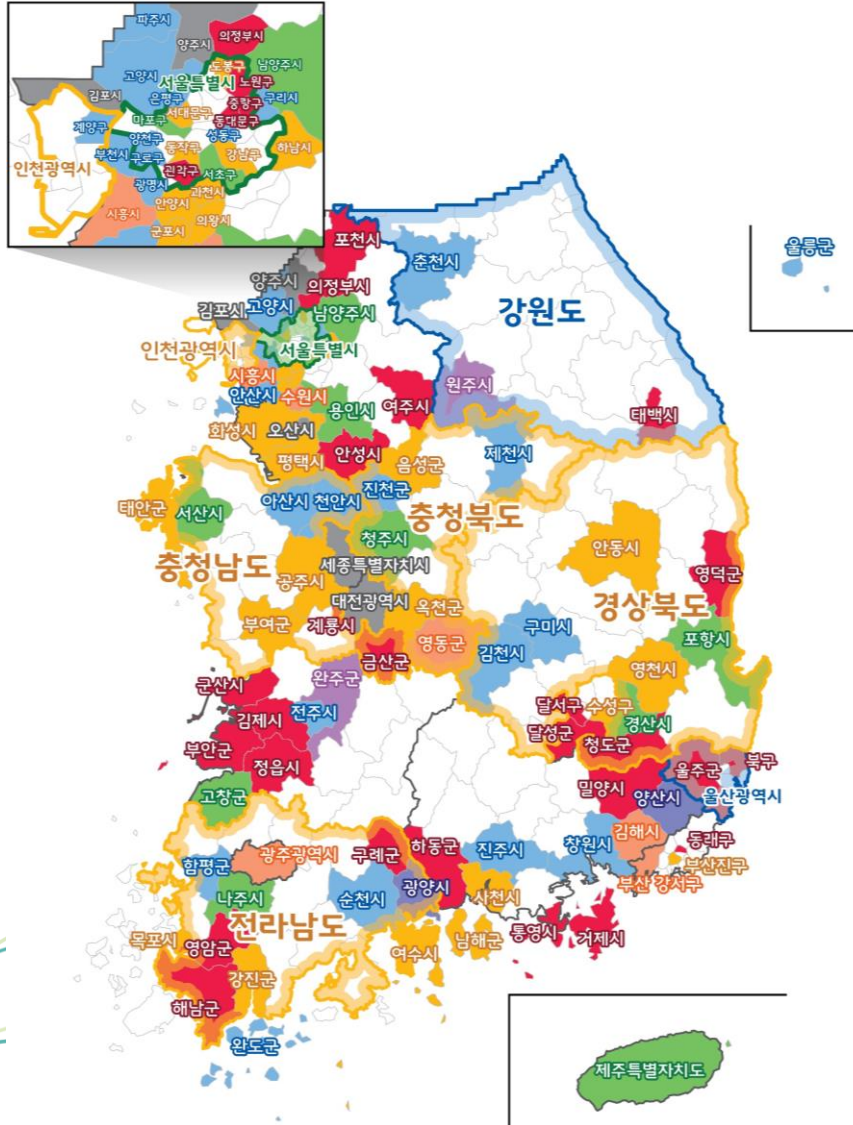
Changes in Integrated Platform and Smart City Safety Net Service (Continue...)



Need for local/wide-area system classification and integrated linkage service



Current Status of Infrastructure Construction Project for the Integrated Platform



2020(supplementary) Selected for infrastructure construction project - 29

관악구, 노원구, 동대문구, 중랑구, 부산 동래구, 대구 달서구, 달성군, 울산 북구, 울주군, 안성시, 여주시, 의정부시, 포천시, 태백시, 계룡시, 금산군, 군산시, 김제시, 부안군, 정읍시, 구례군, 영암군, 해남군, 영덕군, 청도군, 거제시, 밀양시, 통영시, 하동군

2020 Selected for infrastructure construction project - 30

도봉구, 서대문구, 동작구, 강남구, 부산진구, 대구 수성구, 인천광역시, 안양시, 평택시, 과천시, 군포시, 의왕시, 하남시, 화성시, 충청북도, 옥천군, 음성군, 충청남도, 공주시, 부여군, 태안군, 전라남도, 목포시, 여주시, 강진군, 경상북도, 안동시, 영천시, 사천시, 남해군

2019 Infrastructure construction project - 27

성동구, 은평구, 양천구, 구로구, 인천계양구, 울산광역시, 강원도, 춘천시, 광명시, 안산시, 고양시, 구리시, 부천시, 파주시, 진천군, 제천시, 천안시, 아산시, 전주시, 순천시, 완도군, 함평군, 구미시, 김천시, 울릉군, 창원시, 진주시

2018 Infrastructure construction project - 12

서울특별시, 마포구, 서초구, 남양주시, 용인시, 청주시, 서산시, 고창군, 나주시, 경산시, 포항시, 제주특별자치도

2017 Infrastructure construction project - 6

시흥시, 수원시, 영동군, 광주광역시, 김해시, 부산 강서구

2016 Infrastructure construction project - 2

원주시, 완주군

2015 Infrastructure construction project - 2

광양시, 양산시

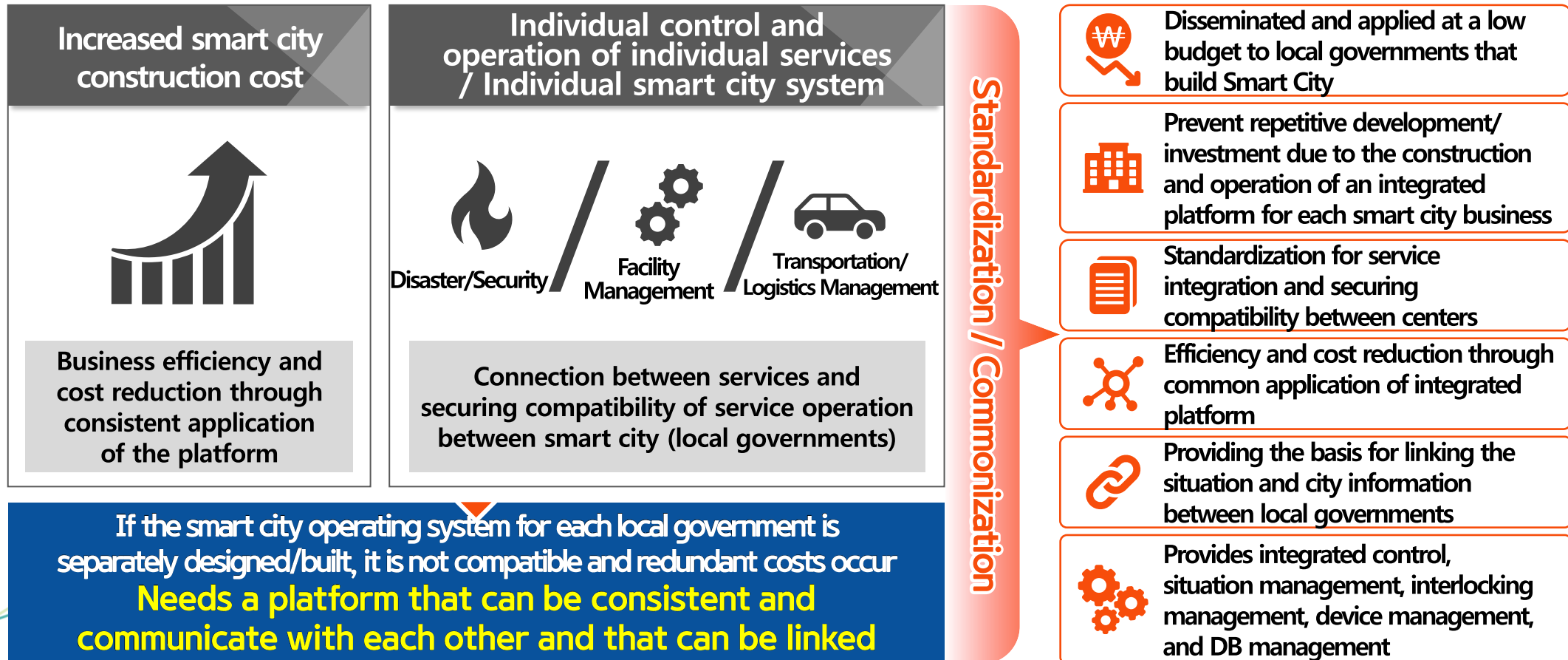
LH New city project - 7

세종특별자치시, 대전광역시, 오산시, 양주시, 김포시, 보령시, 성남시

Total	108
'20 Supplementary	29
'20	30
'19	27
'18	12
'17	6
'16	2
'15	2

The Necessity of Integrated Platform

- ✓ The necessity for an integrated platform that can be applied with a low budget is emerging



The Necessity of Integrated Platform (Continue...)

- ✓ The integrated platform should be designed in consideration of integration, interoperability, standardization, and extensibility.

The necessity of Integrated Platform

- Linkage to various internal individual systems and systems between related organizations
- Addition, deletion and easy management of services
- Flexible change and application of integrated data
- Convenient when connecting and expanding existing systems
- Ease of expansion by application area and service type
- Integration and connection of all system data related to service
- Efficient data sharing and interconnection between services
- Real-time analysis of various situations and mass occurrence information
- Emergency judgment and response process support and remote control of facilities when necessary



Integration

- Needs integrated support for various services
- Increased efficiency by unifying system management
- Integrated unification of management organization



Interoperability

- Need to exchange information between unit services
- Integrated control information monitoring with a single view
- Providing a variety of service access channels



Extensibility

- Securing scalability for future service increase
- Easy new service addition
- Easy linkage support with existing systems

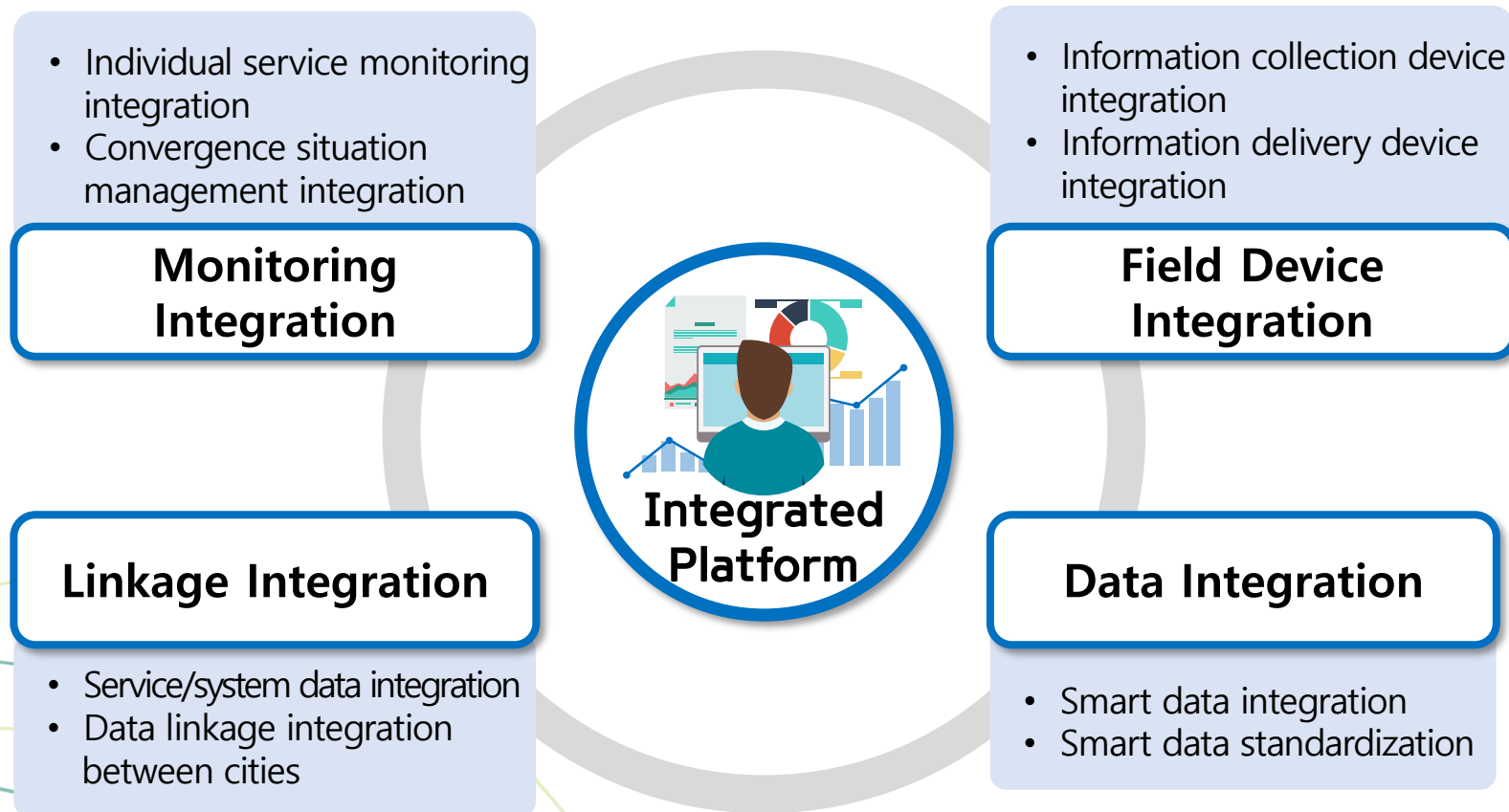


Standardization

- Technology standardization applicable for each service
- Easy development and maintenance by adopting integrated and standard technology

The Role of Integrated Platform

- ✓ Integrated control of urban situation through linkage integration, control integration, and situation integration for integrated control of urban situation
- ✓ Establish the foundation for city information sharing through continuous distribution of local governments and national data and linkage integration

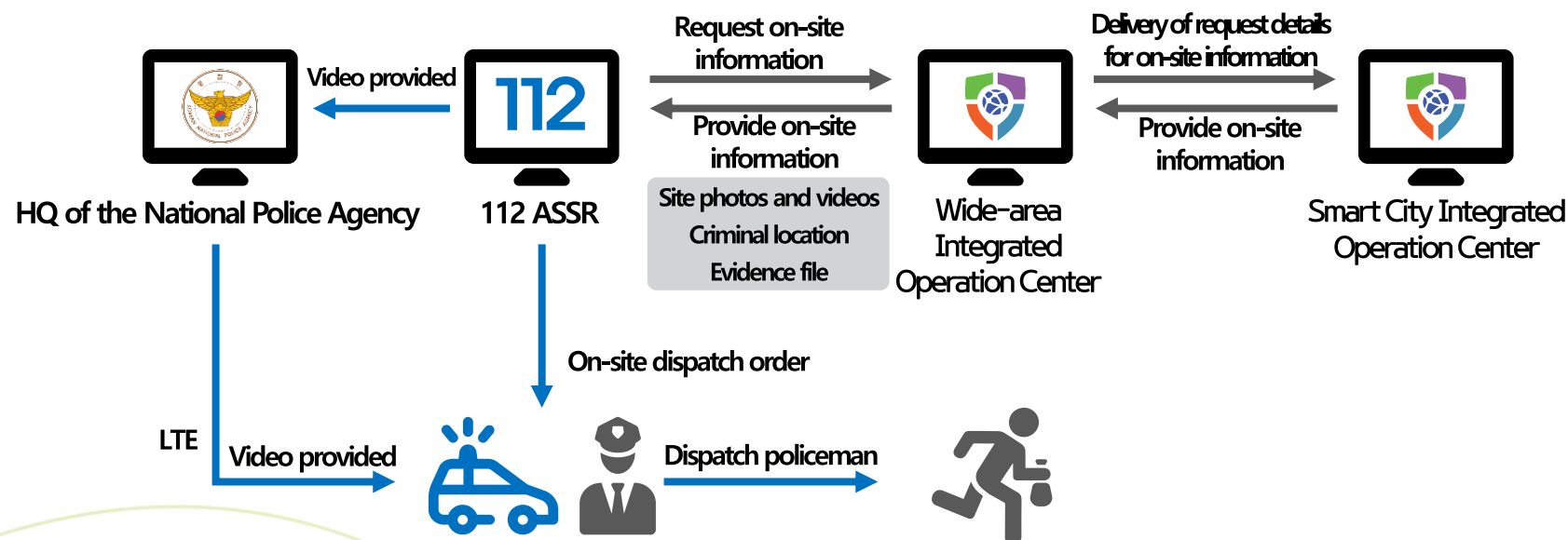


Smart City Safety Net Service



Police

The crime scene video support services



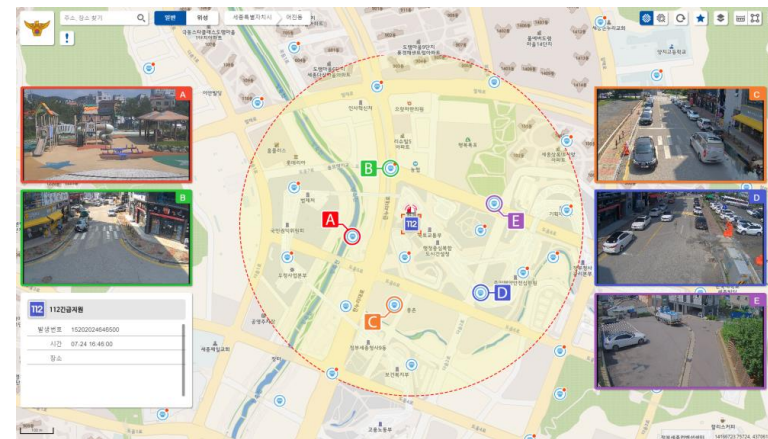
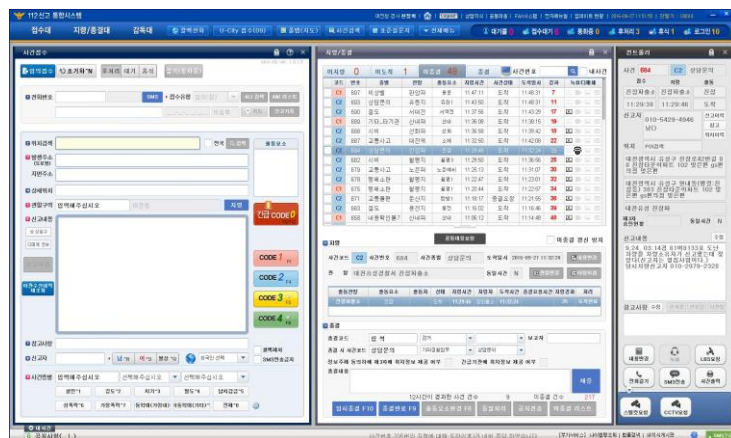
☑ Provides real-time videos of the Smart City Integrated Operation Center to 112 center and dispatch policeman for quick case resolution.

Smart City Safety Net Service (Continue...)



Police

The crime scene video support services – Control center PC and Patrol vehicle video support

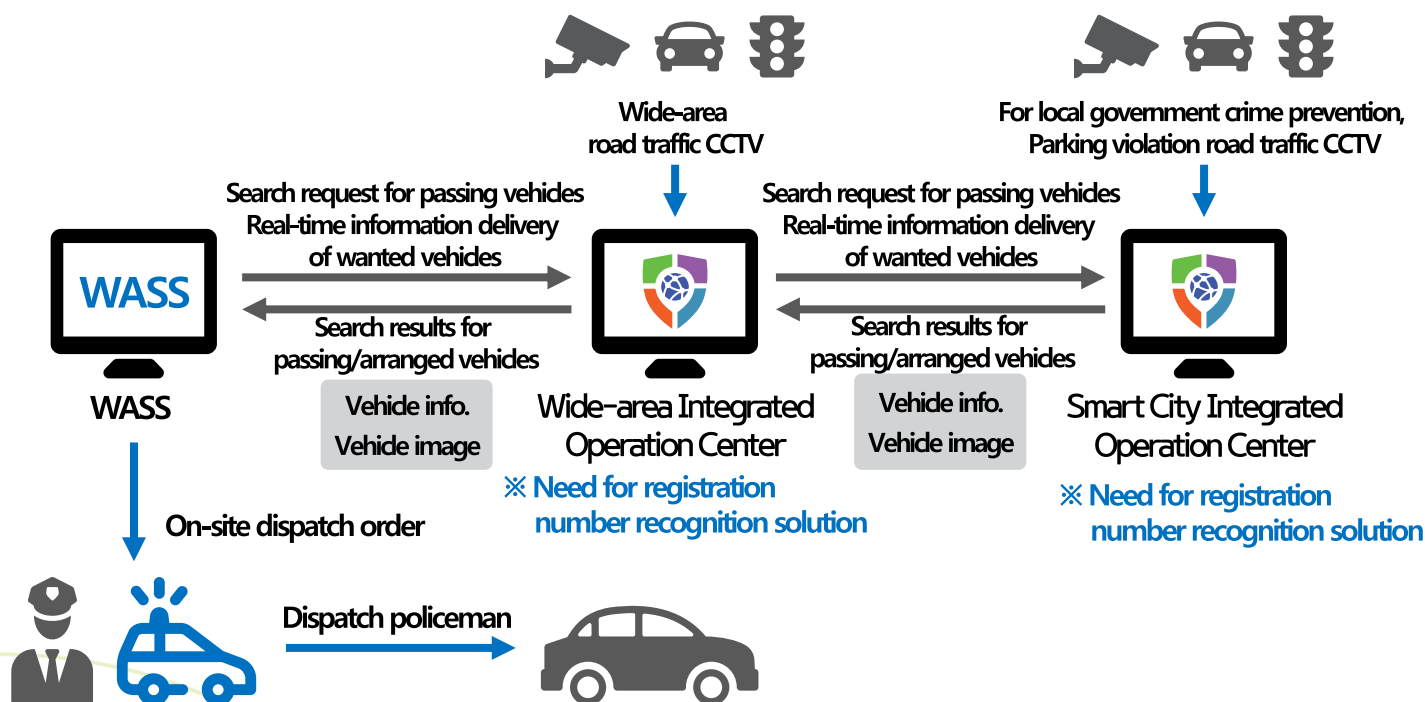


Smart City Safety Net Service (Continue...)



Police

Wanted Automobile Scanning System



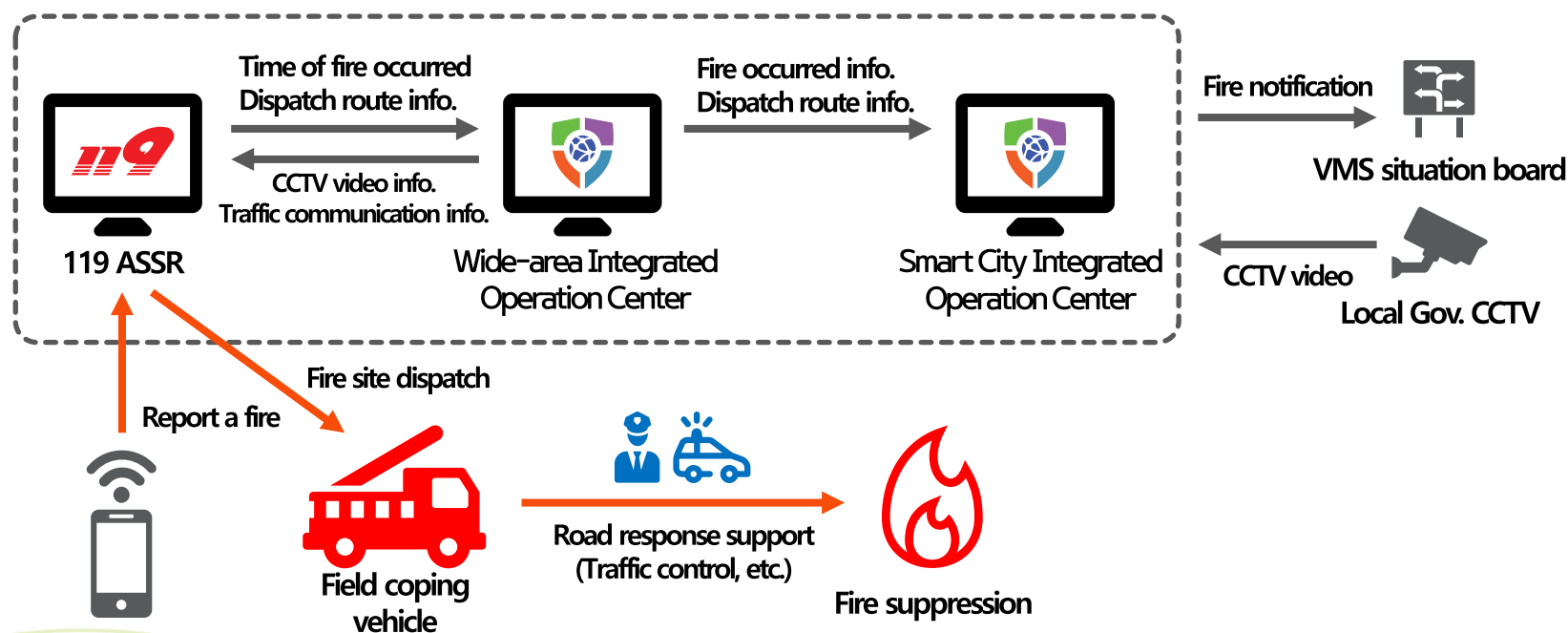
- ✓ Distinguished information, images, etc. are transmitted to WASS through the comparative analysis solution of the local government for the wanted vehicle/real-time search information requested by the National Police Agency to the local government.
(*WASS: Wanted Automobile Scanning System)

Smart City Safety Net Service (Continue...)



Firefighting

119 dispatch video support services



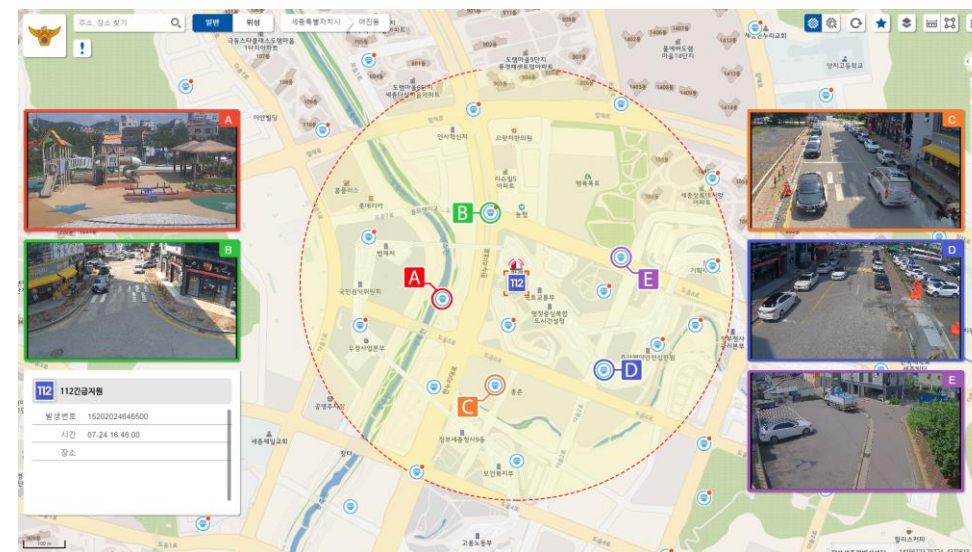
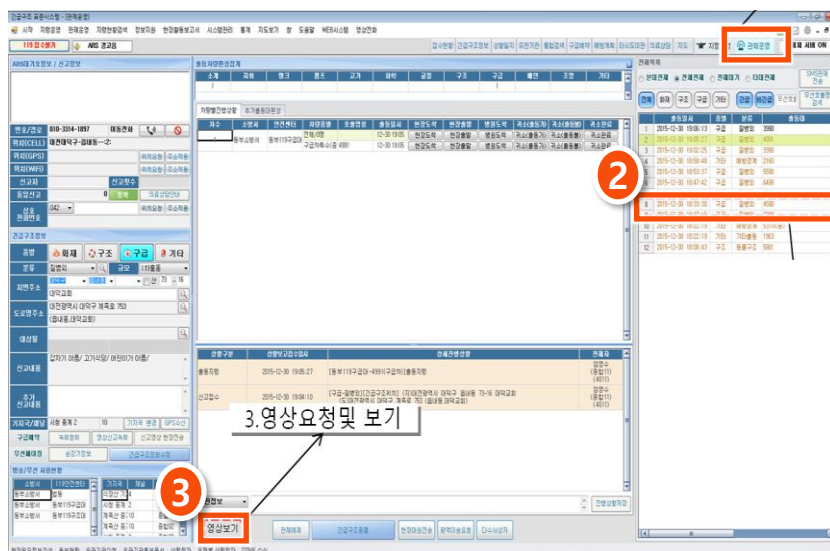
- ✓ Secure the access road for 119 dispatch vehicles and command fire suppression by providing real-time CCTV video and traffic communication information

Smart City Safety Net Service (Continue...)



Firefighting

119 dispatch video support services



Smart City Safety Net Service (Continue...)



Ministry of National Defense

Military operational control and training support services



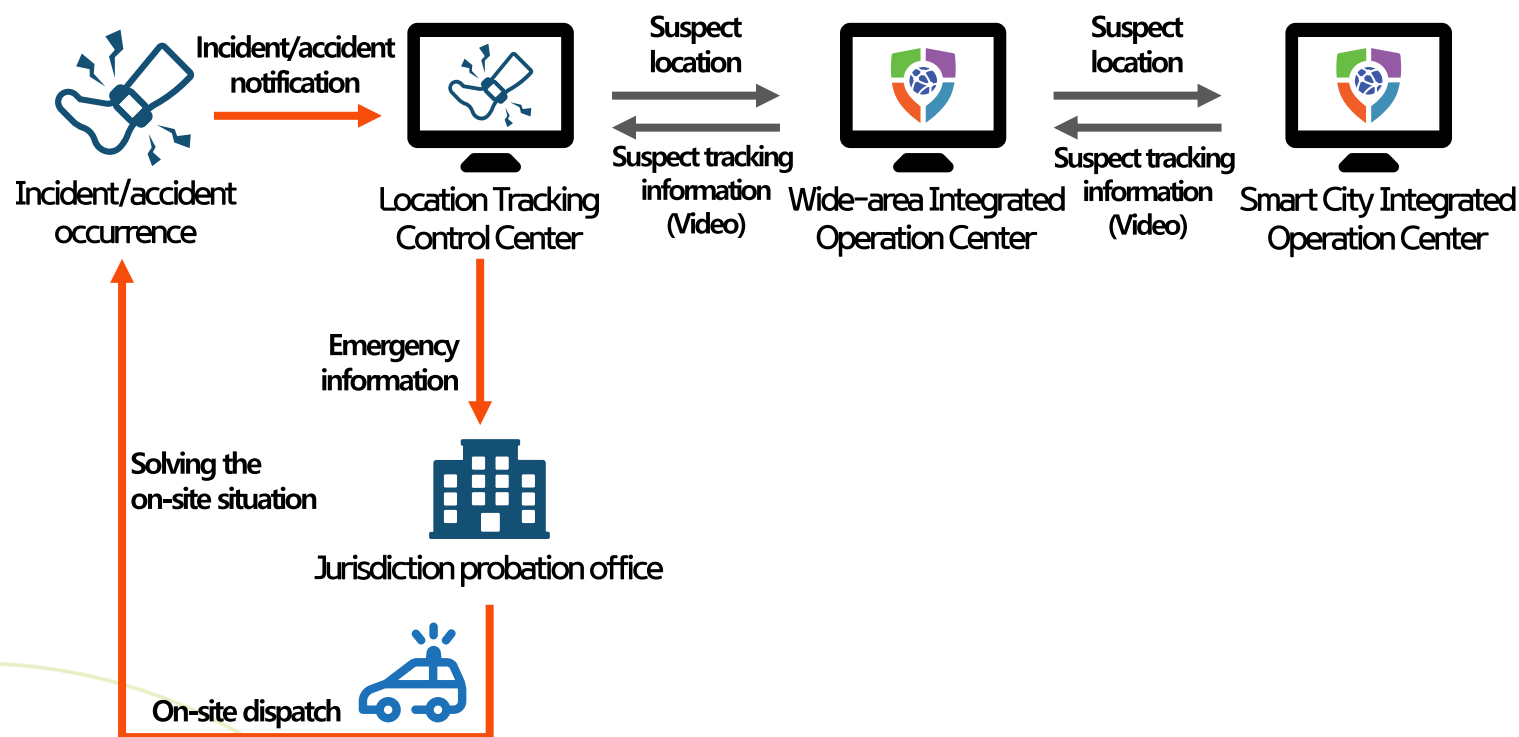
- ✓ In the event of a situation such as defection, operation, or training, the Smart City Integrated Operation Center provides real-time on-site CCTV videos to the Military Control Room to quickly identify and respond to the field situation and respond to the monitoring of the main access road.
- ✓ Pilot service in Seoul Metropolitan Government and Yongin City

Smart City Safety Net Service (Continue...)



Ministry of Justice

Electronic ankle violators rapid arrest support service



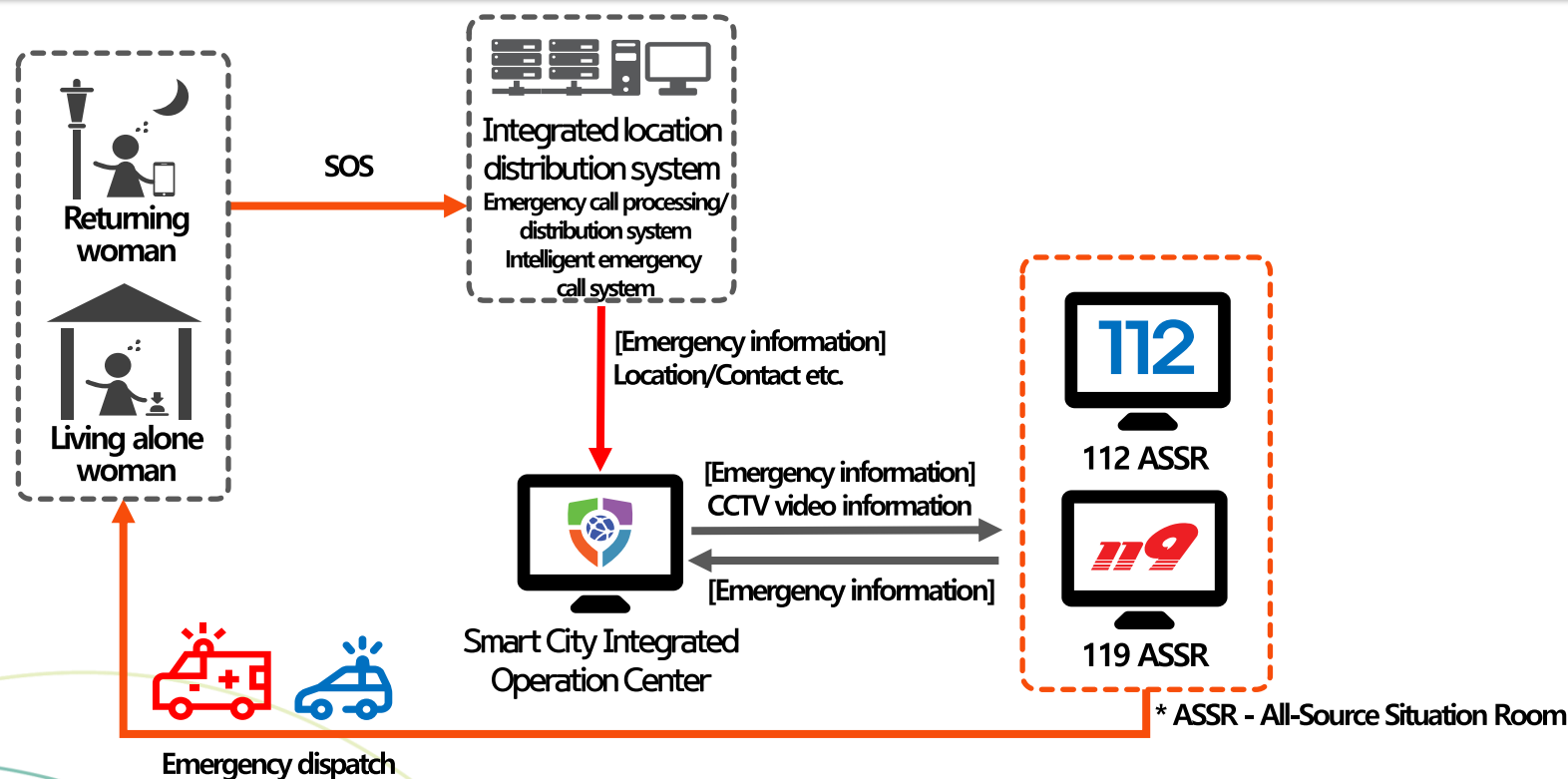
- ✓ Provides CCTV video of the Smart City Integrated Operation Center so that the location tracking control center can quickly identify the situation and take action when electronic anklets are damaged or prohibited acts occur.

Smart City Safety Net Service (Continue...)



Ministry of Gender Equality and Family

Safe return home and living alone women protection service



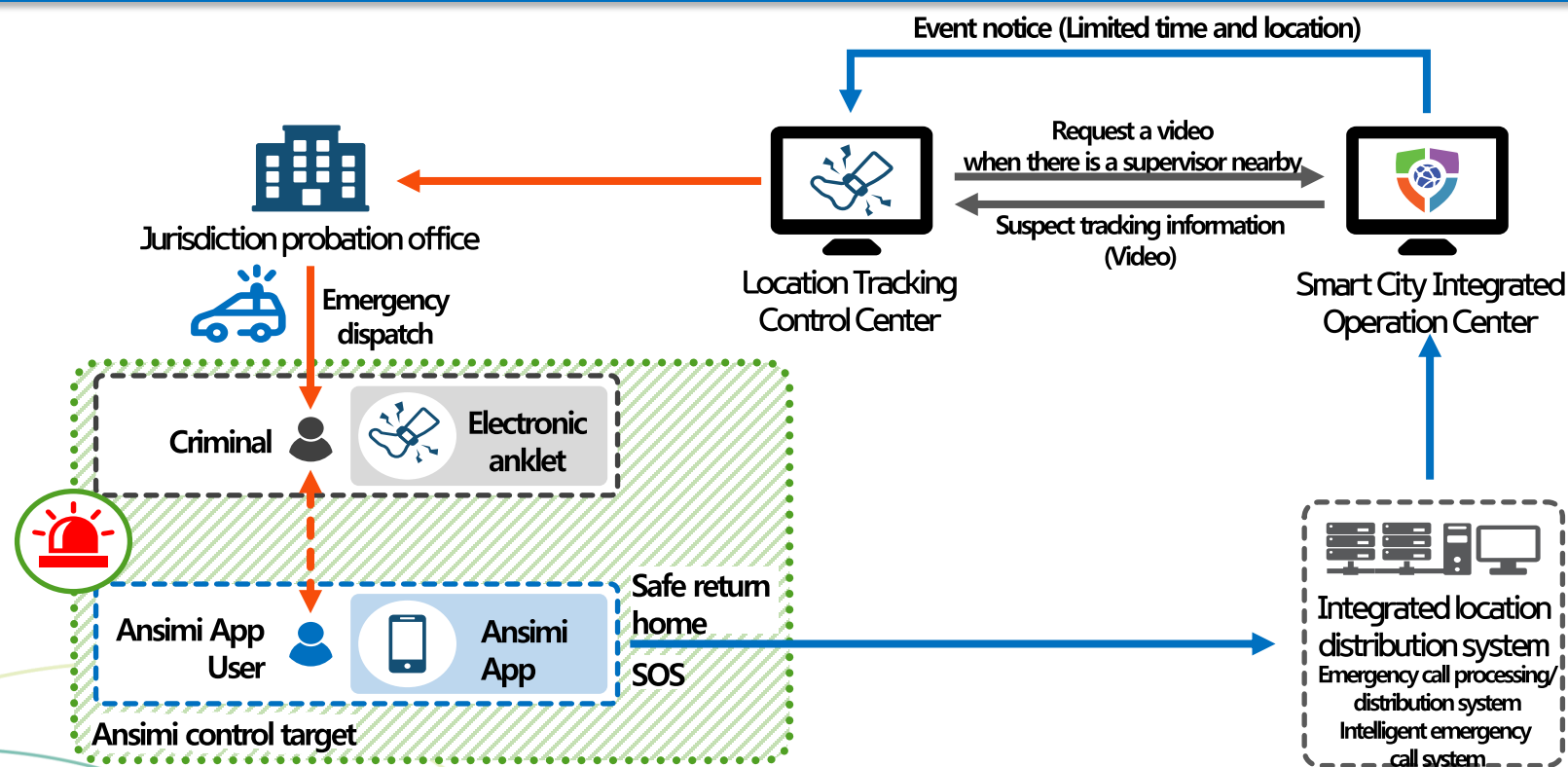
- ✓ In the event of an emergency for a woman returning home or living alone, the Smart City Integrated Operation Center receives location information from the integrated location distribution system (tentative name) and promptly checks the location to secure a golden time such as identifying the situation and emergency rescue.

Smart City Safety Net Service (Continue...)



Ministry of Justice-Ministry of Gender Equality and Family

Linked with electronic anklet Ansimi service



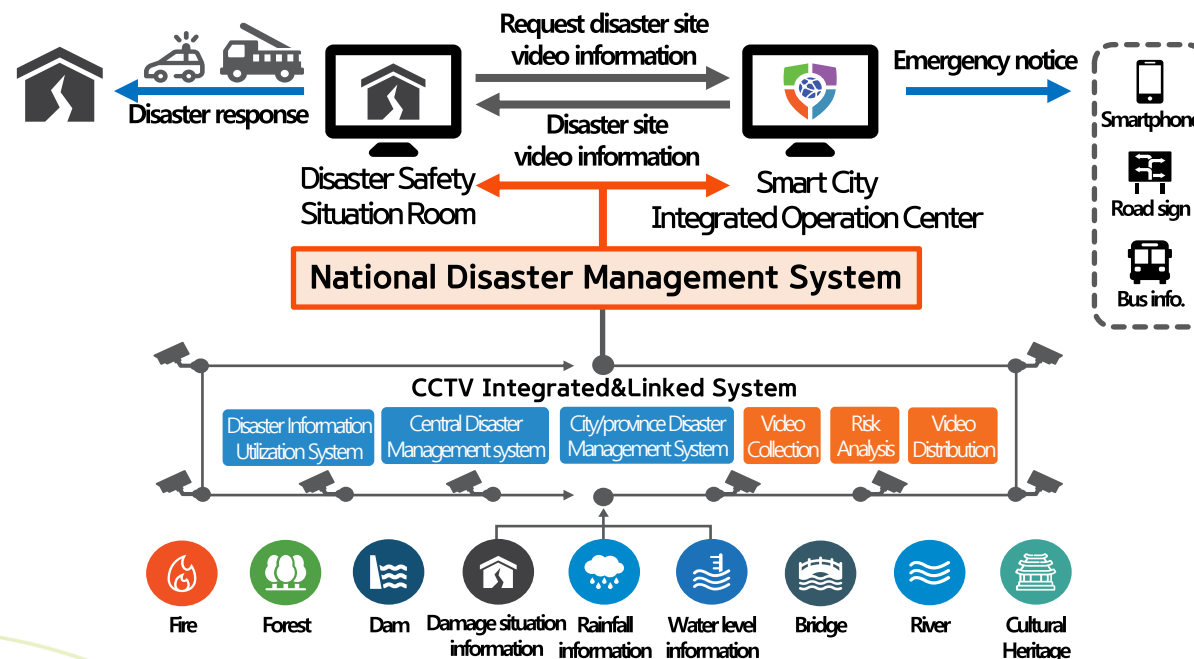
- ✓ Provides Ansimi location information so that the Ministry of Justice (Location Tracking Control Center) can identify the situation and take safety measures when an electronic anklet wearer approaches the Ansimi service user.

Smart City Safety Net Service (Continue...)



Disaster

Disaster response video support service



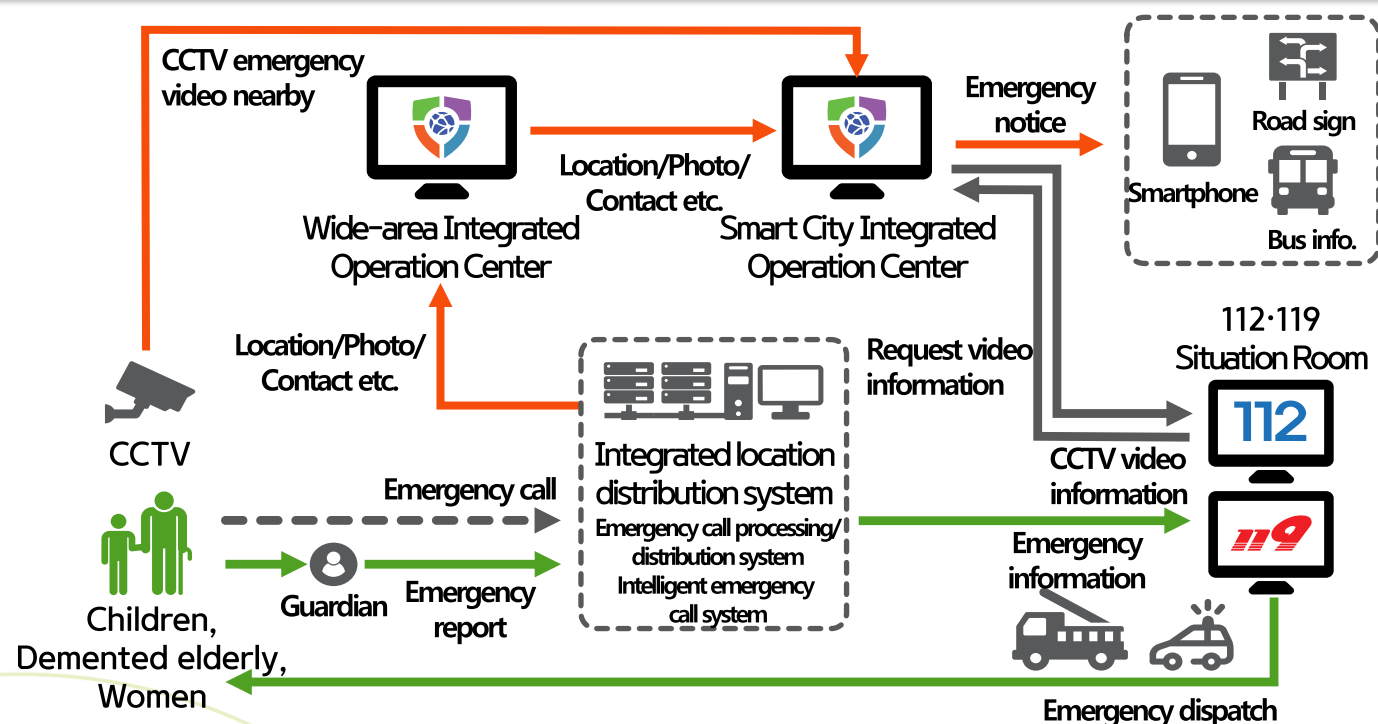
☑ When disaster is occurred, it is possible to promptly communicate the situation and action.

Smart City Safety Net Service (Continue...)



Social minority

Children and Demented elderly protection service (Communication and Private companies)



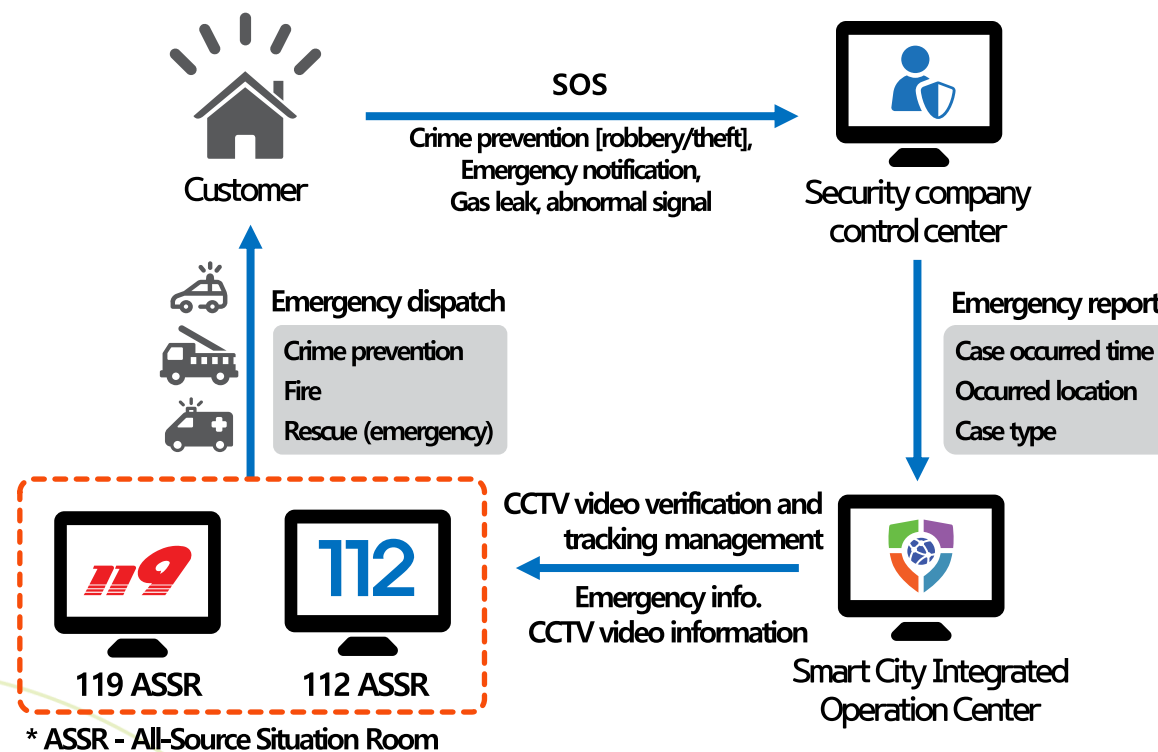
- ✓ When an emergency of social minority is occurred, location information is transmitted to the smart city integrated operation center through the integrated location distribution system.
- ✓ Secure golden time such as 112, 119 emergency reports after confirming the nearby CCTV video at the smart city integrated operation center.

Smart City Safety Net Service (Continue...)



Private enterprise

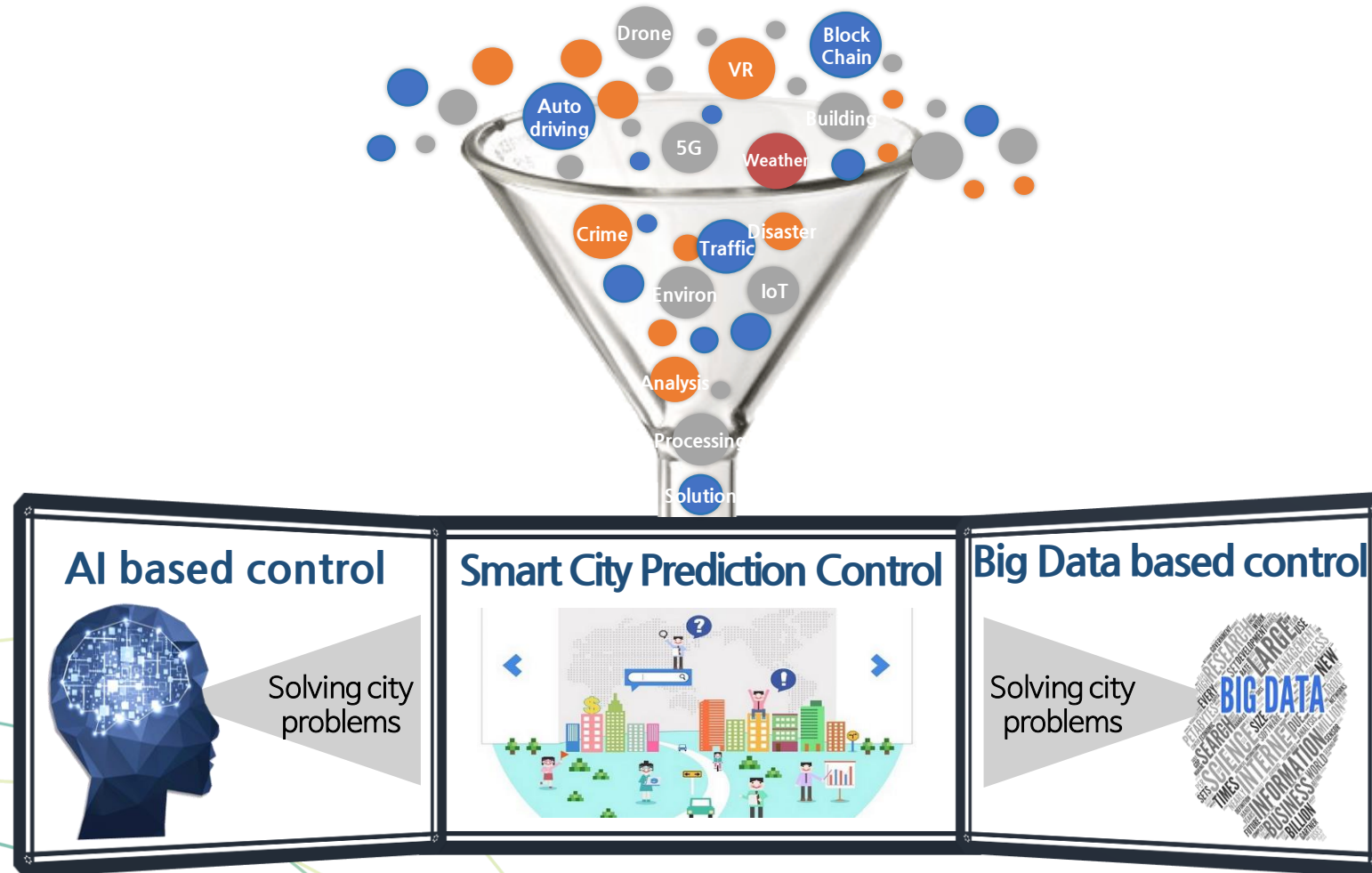
Private security and public safety support services



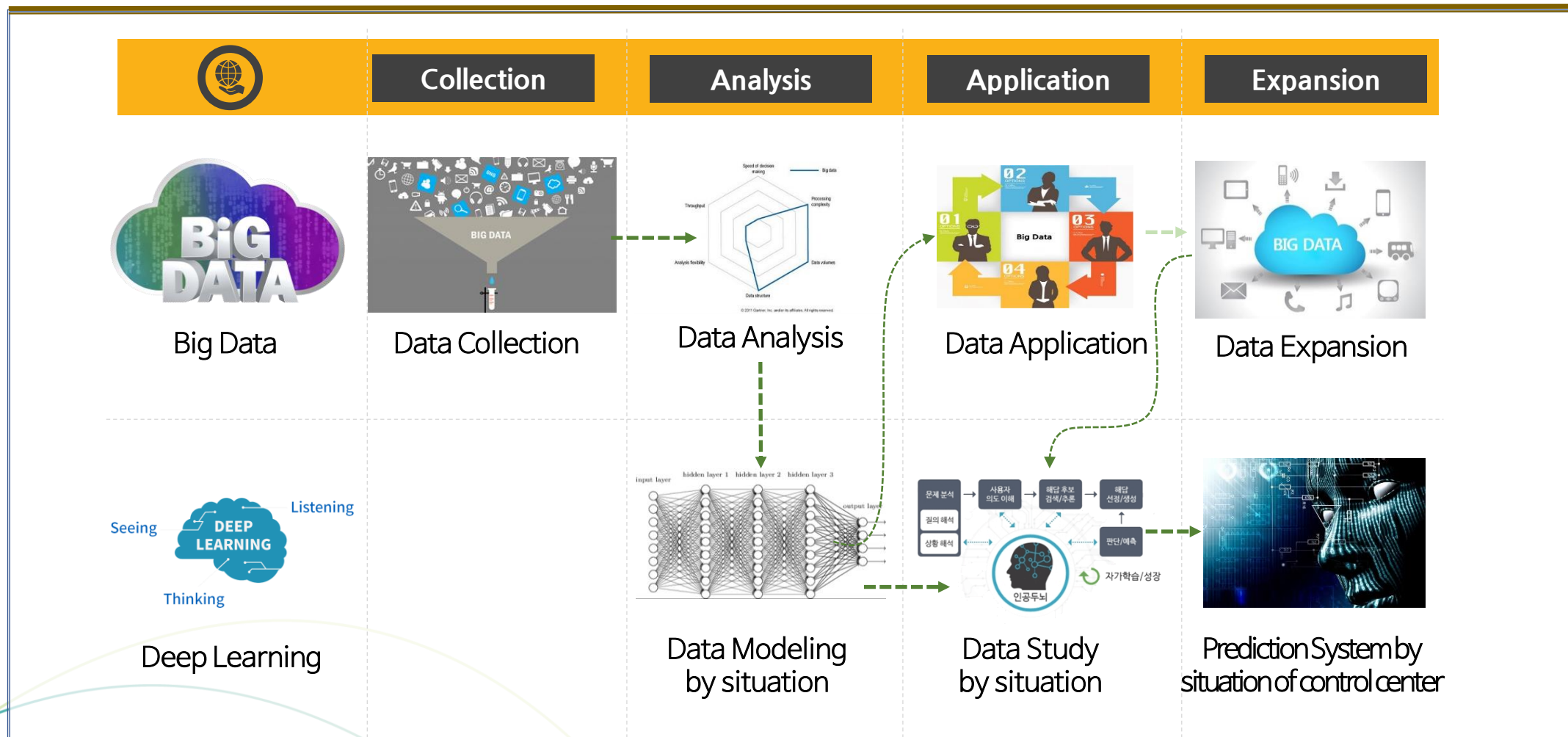
- ✓ By establishing a link between private security and public safety, cooperate quickly to take safety measures when an emergency is occurred.

Future Plan of Integrated Platform

- ✓ Solve smart city problems by linking and accumulating various smart city data



Future Plan of Integrated Platform (Continue...)



Thank you

