

Open Government Data Policies & Data-based Administration in Republic of Korea

28-10-2025

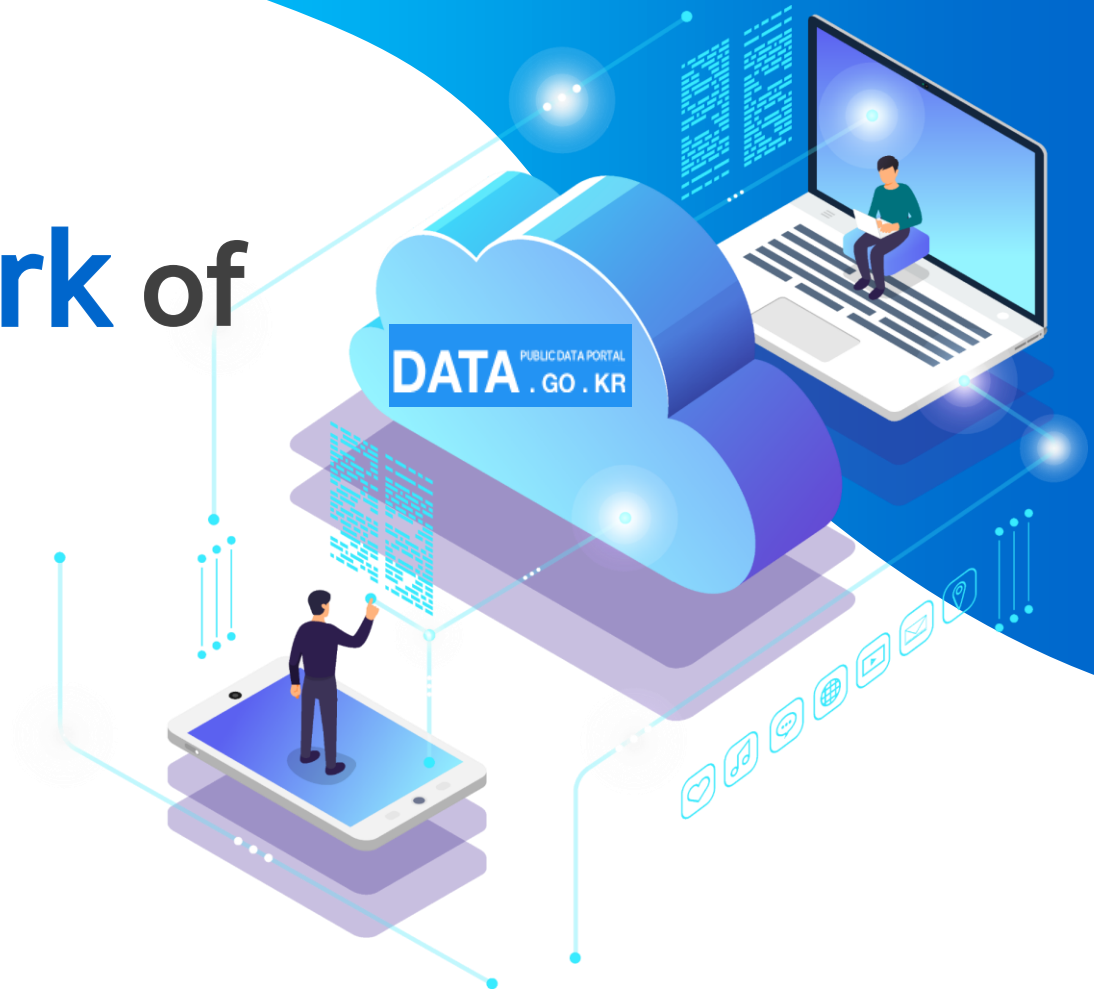


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- 02 Main Projects of OGD KOREA
- 03 Data-based Administration
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Governance Framework of Open Government Data



Legal and Regulatory Environment

Disclosure

INFORMATION DISCLOSURE
ACT (1996)

To ensure people's right to know, to secure people's participation in governance and government transparency



Release and Reuse

OPEN DATA ACT (2013)

Every public institution shall endeavor to enable anyone to readily use government data and do not prohibit or restrict its commercial use



Data-Based Policy

ACT for Promoting Data Based Public Administration (2020)

To promote the utilization of Public Big data in government bodies and encourage data-based decision making for policy-makers

Definition of Open Government Data

“Open Government Data refers to data created and retained by the government, municipal organizations, and public organizations that is available to people”



In order to proactively release open government data and to create new business opportunities by analyzing, **the Korean government enacted the “Open Data Law” in 2013** and **has been implementing a variety of policies** ever since

Governance Framework of Open Government Data



- **ODSC (deliberating body under the prime minister and co-chaired by private representatives)**

- Deliberate, coordinate, monitor and evaluate government's major open government data policies, plans and their implementation
- Include each ministers and more than half of private representatives



- **MOIS (leading ministry):** Open gov't data master planning & evaluate implementation, create a data infrastructure, release datasets, etc.



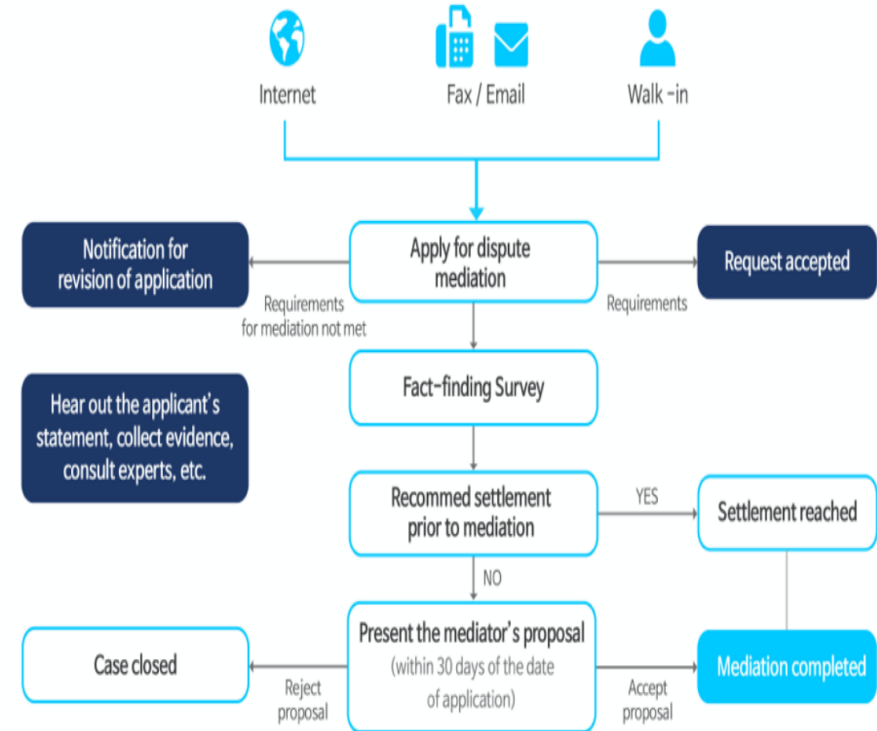
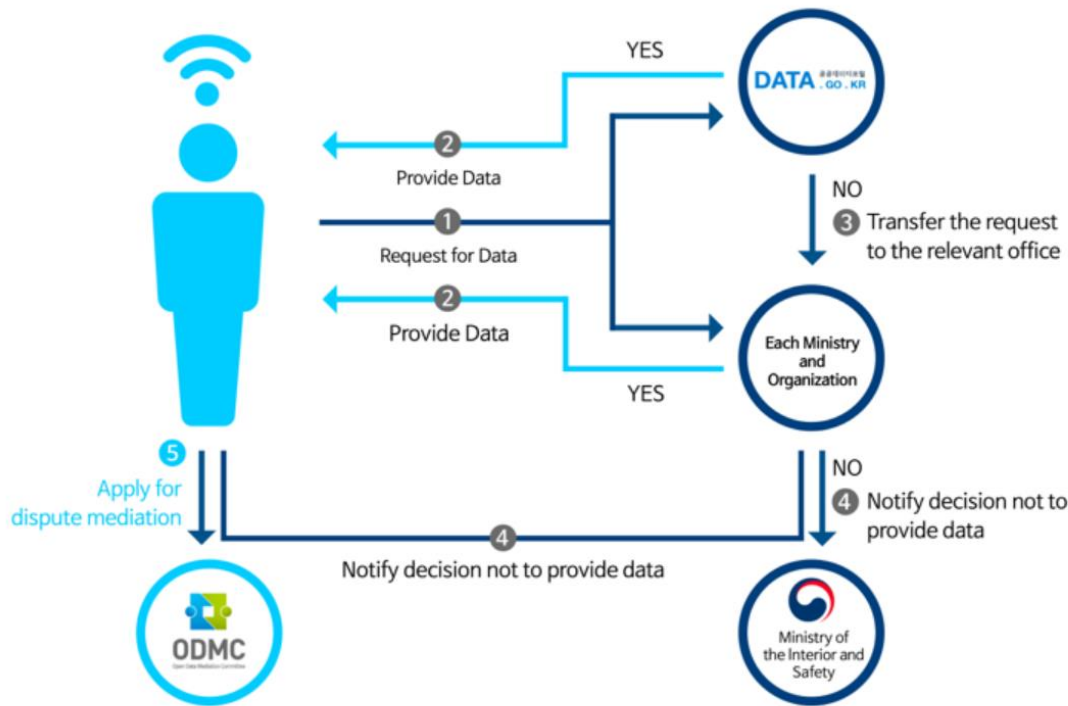
- **NIA (main institution in charge of OGD to support design and implementation of policy/strategies):** The open data center within NIA to support an OGD release and reuse of all governments and institutions



- **ODMC (mediation of disputes):** mediate disputes for release of open gov't data refused or suspended by public institutions

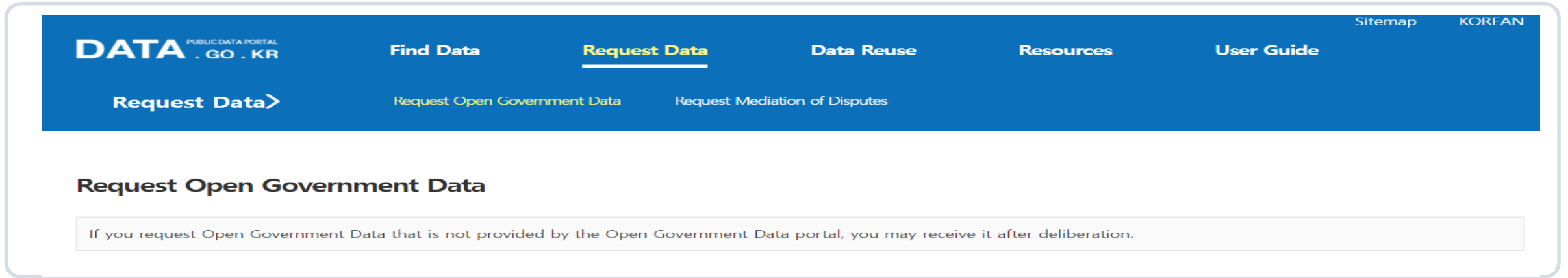
Governance Framework : Open Data Mediation Committee

- Committee has been created to ensure user who experiences problems from ministry/public bodies that refuse to provide datasets, may seek effective remedies through a simple procedure of dispute mediation



Governance Framework : Open Data Mediation Committee

■ Anyone who visit national data portal can request datasets not provided in the portal



DATA PUBLIC DATA PORTAL . GO . KR

[Find Data](#) [Request Data](#) [Data Reuse](#) [Resources](#) [User Guide](#)

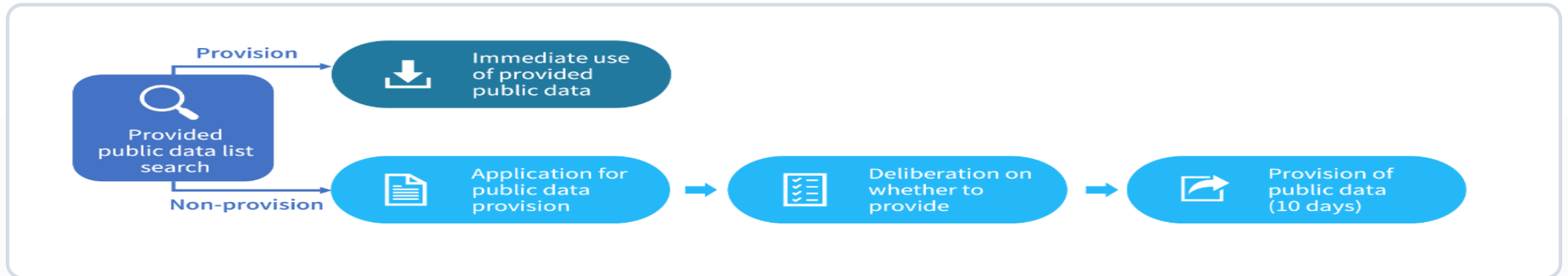
[Request Data](#) >

[Request Open Government Data](#) [Request Mediation of Disputes](#)

Request Open Government Data

If you request Open Government Data that is not provided by the Open Government Data portal, you may receive it after deliberation.

Process of Request



Cases of Open Data Mediation Committee

Data of fire accident



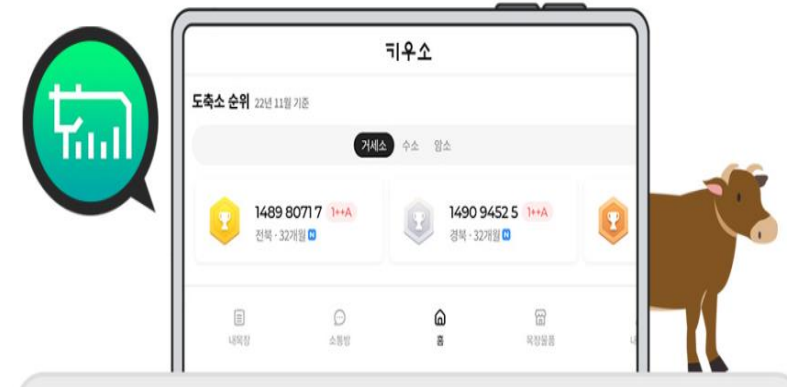
Location of fire accident(deleting room number)

Data of facilities for the disabled



Parking lot, elevator, toilets, entrance that disabled can use

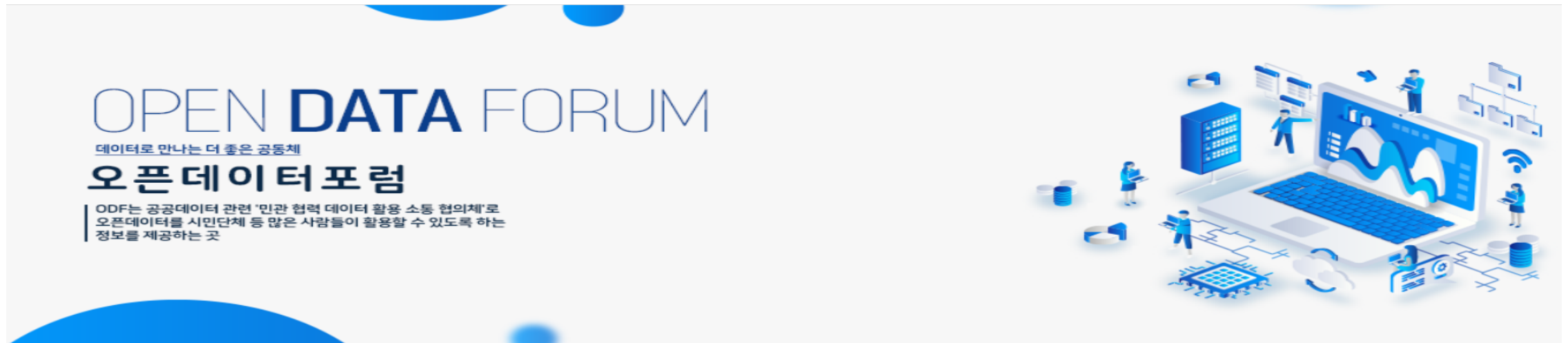
Historical Data of Cow



Farm Registration Number, Historical Data of Cow, location of livestock breeding facilities

Governance Framework : Open Data Forum(PPP)

Open Data Forum (<http://odf.or.kr/>)



A Public-Private Partnership Community in cooperation with stakeholders to solve economic and social problems using open government data(16 members)

- (Members) Civil society, Company, academy and institution, Press/Media, Government and public institutions
- (Research and projects) To improve open data policies and promote reuse of open data in private sectors

Governance Framework : Open Data Forum(PPP)



열린세미나 [11월 열린세미나]...

2022년 11월 열린세미나를 개최합니다. 이번 열린세미나는 공공데이터의 적극적 활용을 통...

2022.11.25 ~ 2022.11.25



열린세미나 [9월 열린세미나]...

2022년 9월 열린세미나를 개최합니다. 이번 주제는 최근 연이은 태풍, 집중호우 등...

2022.09.16 ~ 2022.09.28



열린세미나 [7월 열린세미나] "선거관..."

2022년 7월 열린세미나를 개최합니다. 이번 주제는 선거관련 데이터의 개방현황과 사법기...

2022.07.18 ~ 2022.07.28

Examining Disaster Safety through Open Data



열린세미나 [ODF 5월 열린세미나]...

이번 오픈데이터포럼(ODF)은 그동안 공공데이터



열린세미나 [ODF 9월 열린세미나]...

2021년 9월 열린세미나를



열린세미나 [ODF 6월 열린세미나]...

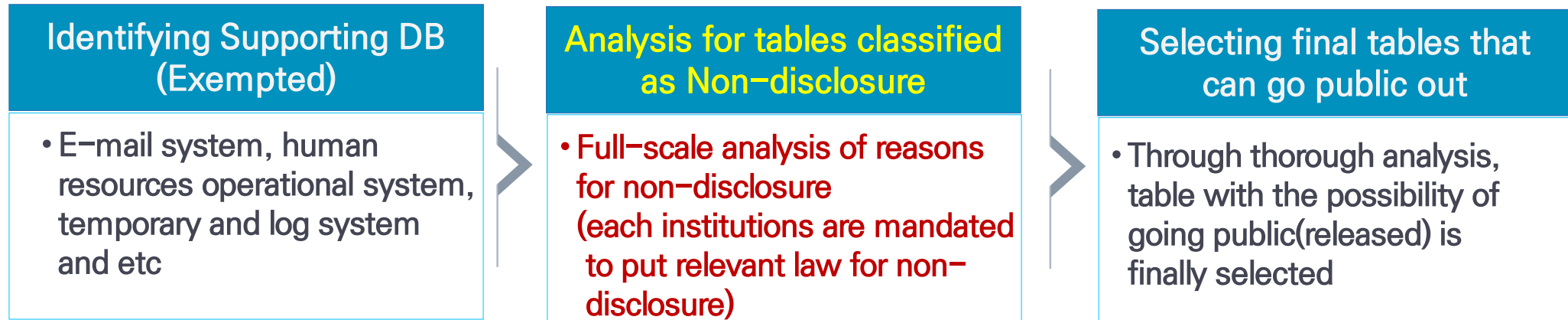
2021년 오픈데이터포럼 첫 세미나를

Main Projects of Open Government Data



Releasing Data by ‘OPEN BY DEFAULT’

“There are number of datasets(308,485) in DB of all 585 ministries, local government, public institutions, **WHY THEY CAN’T GO PUBLIC ?** ”



Types	No. of Org	Pre-released	No. of Exemption	No. of Non-disclosure	No. of Non-disclosure that can go public
Central Gov	39	6,028	5,166	59,734	25,841
Affiliated Inst	118	666	2,508	21,876	7,549
Local Gov(Dis)	16	1,034	6,935	36,731	18,746
Local Gov	192	952	13,784	20,551	12,965
Public Inst	186	5,402	27,344	167,097	92,093
Public Local Inst	34	39	1,001	2,496	693
Total	585	14,121	56,738	308,485	157,887

Releasing Data by 'OPEN BY DEFAULT' : Analysis of non-disclosure

Check for all data classified as non-disclosure

- ▶ If reason for non-disclosure is empty, data should go public
- ▶ Review the possibility of releasing by comparing actual table column with the reasons for non-disclosure in the meta-information of each table

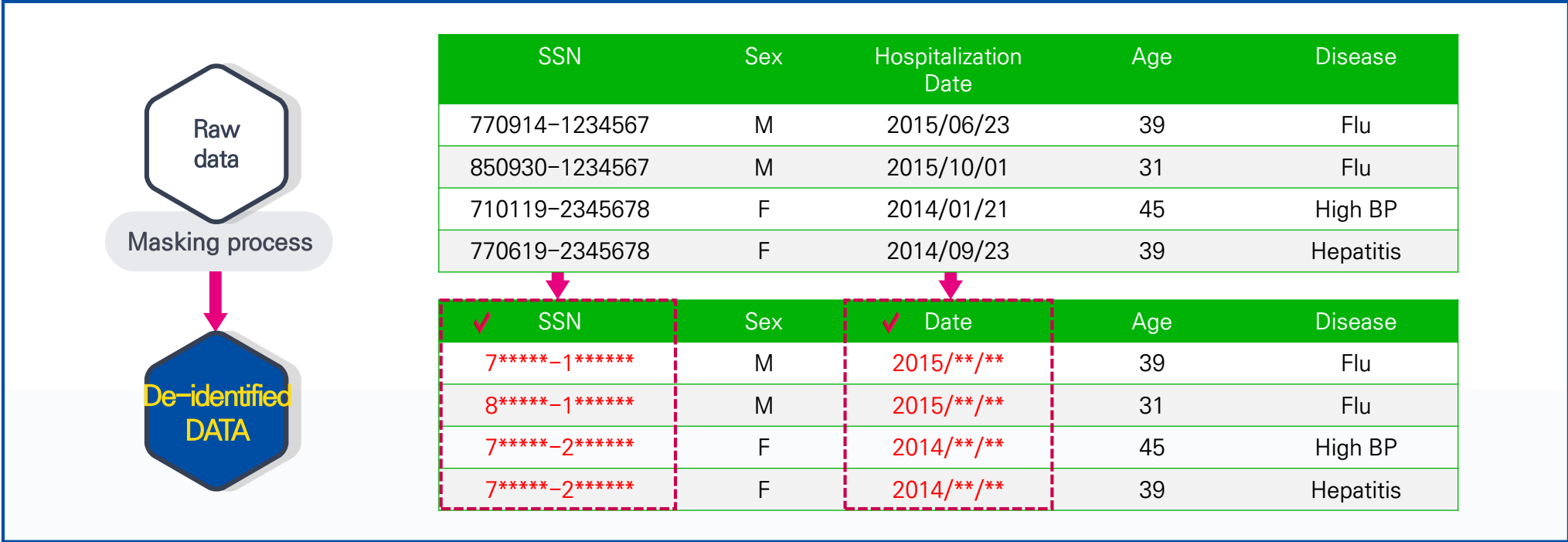
System	Name of table	Name of Column	Status	Reason for non-disclosure
Education Management System	Teaching hours	Educational classification, date, hours, personnel	Non-disclosure	EMPTY
Education Management System	Print out history of certificate	Education classification, output data and time, sequence number	Non-disclosure	With system information, risk of hacking exists

Reason is not valid

Releasing Data by 'OPEN BY DEFAULT' : Sensitive data

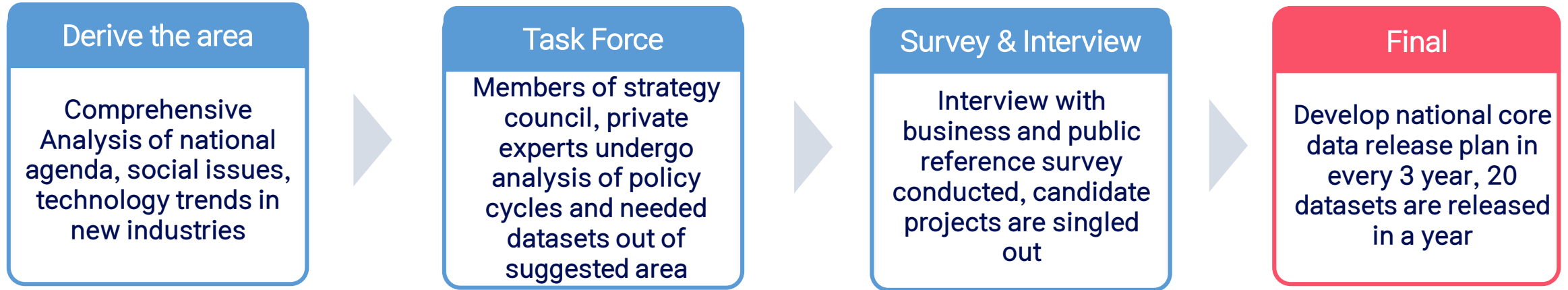
Check for non-disclosure data that contains sensitive data

- ▶ If it contains personal information, guide them to de-identify
- ▶ Social security number, name should be masked and go public



National Core Data Project

Data with Nation's priority, high demand from private sector



Analysis of global report and frequency of keywords on issues

① 주제영역, 중요 키워드

주제영역	신산업 기술	사회, 현안, 중요-영역
중요 키워드	신산업 기술, 5개 산업기술 보고서 분석, 보고서, 공통, 5개 기술 키워드 도출	사회, 현안, 중요-영역, 5개 키워드 도출

② 신산업 기술-영역

신산업 기술-영역	신산업 기술, 5개 산업기술 보고서 분석, 보고서, 공통, 5개 기술 키워드 도출
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③ 사회, 현안, 중요-영역

사회, 현안, 중요-영역	사회, 현안, 중요-영역, 5개 키워드 도출
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④ 주제영역, 중요 키워드

주제영역	신산업 기술	사회, 현안, 중요-영역
중요 키워드	신산업 기술, 5개 산업기술 보고서 분석, 보고서, 공통, 5개 기술 키워드 도출	사회, 현안, 중요-영역, 5개 키워드 도출

《 예시 : 생활환경분야 미세먼지 정책주기별 필요 데이터 》

단계	발생원인	측정	대응(예방, 예측 포함)
연관 데이터	발전소 배출현황 자동차 배출가스 비산먼지 사업장 골목 대기오염물질 냉매사용정보 ...	지역별 미세먼지 다중이용시설 실내공기질 도로변 미세먼지 국의 유입 대기 측정 ...	비상 저감조치 발령 현황 스마트클린서비스센터 미세먼지 저감 숲 국민행동요령 ...

※ 식별된 데이터 중에서 미개방된 데이터는 국가 중점개방 데이터에 포함하여 개방 추진



제3차(20~22) 「국가 중점개방 데이터」 개방계획

2019. 12. 24.

관계부처 합동

National Core Data Project

■ Data with Nation's priority, high demand from private sector

119 Emergency Information Data

- Ambulance transport information, emergency patient first aid information, vehicle information, transported patient status(70,000cases)



119 emergency informa...

Research on emergency situation, trends, efficiency of emergency administration

Infectious Disease Treatment

- Infectious disease vaccine drug product information, approval information, treatment drug product information, maximum daily does per medication(137,062 cases)



Infectious disease-relat...

Research on health and safety, development of new products in the pharmaceutical fields

Flood Response Information Data

- Flood response information (Urban flood map, river overflow map) to prevent the loss of life or property damage from 'storm, tidal wave, heavy rainfall'



Utilizing data for navigation services alarming the flood and providing ultimate route / Research on flood prevention

안전한 강, 풍요로운 물!
한강홍수통제소



수위정보



강수량정보



댐정보



보정보



레이더정보



하천수위동영상



전국수문현황



한강수문현황



홍수특보발령

National Core Data Project



PropTech (Property technology)

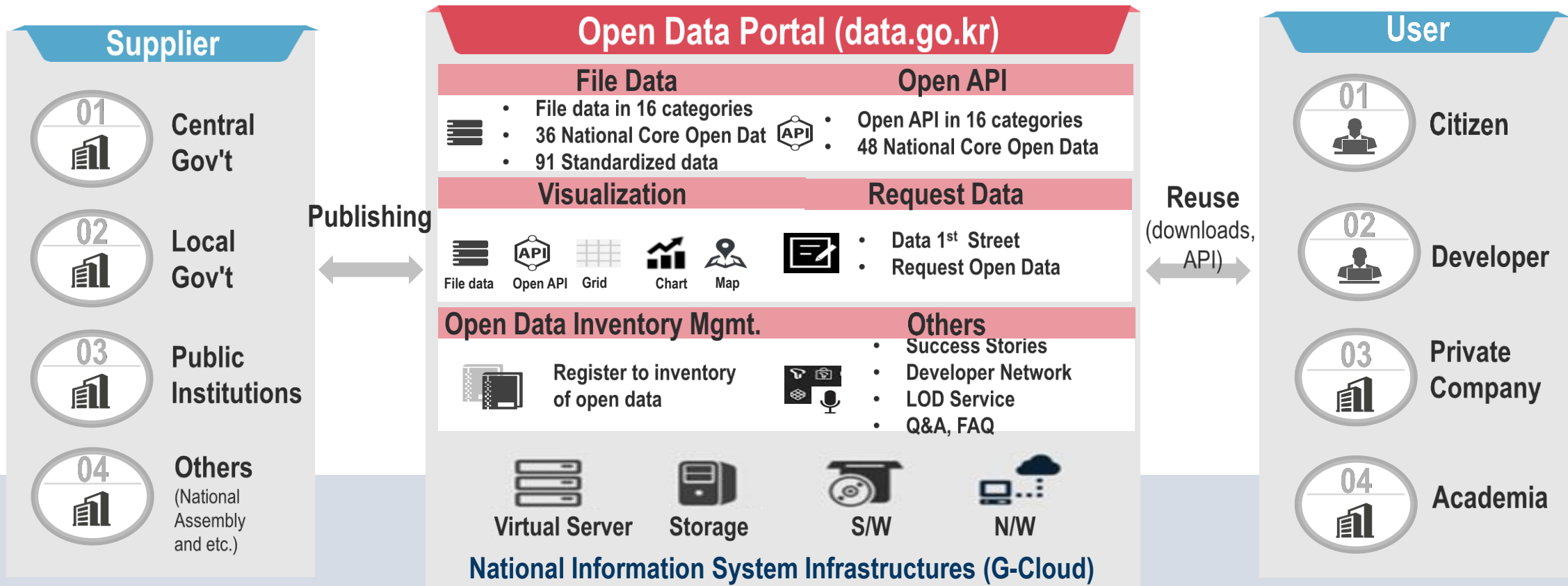


국내 1위 법률 서비스 플랫폼
LAW TALK

LegalTech (Legal technology)

National Data Portal

Integrated and central management platform for registering and publishing datasets for all governments and public institutions



Preventing development of services similar to private sector



National Weather Agency

VS



Small Data Company

- ☑ **Preliminary Consultation** : adjusting the details of the project to prevent overlapping investment, interconnection, and joint use of informatization projects
- ☑ **Annual extensive research**: Research on All apps on store, website of government bodies
- ☑ **Regular Report**: User can make a report

Supporting SMEs



Supporting startups

Providing professional assistance to entrepreneurs covering full spectrum of startup development services

Start a Business

Office space for entrepreneurs, open spaces for ideas exchange and development, and testing their services

Comprehensive start-up support center (which is called Open Square-D) in Seoul, Busan, Gangwon, Daegue.

Education, Consulting & Investment

Program to foster entrepreneurship, customized business consulting with private and public sector collaboration

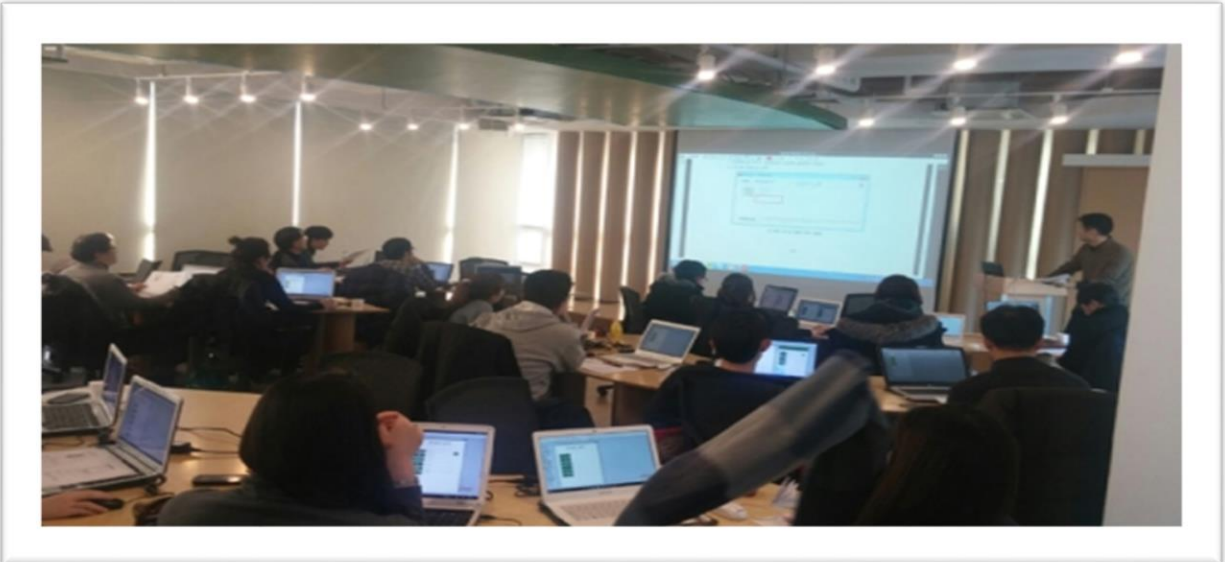
Growing Up Business

Incubate ideas and services

Incubation of ideas, services and products

Open data challenge competitions, hackathons etc.

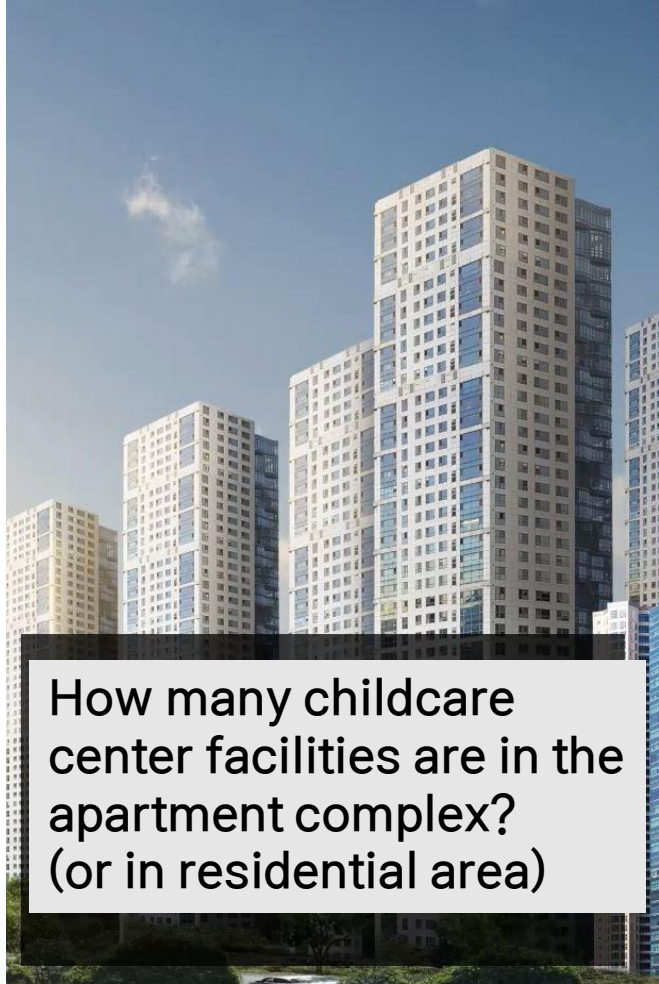
Open Square-D



Data-based Administration



Data-based Administration



How many childcare center facilities are in the apartment complex? (or in residential area)



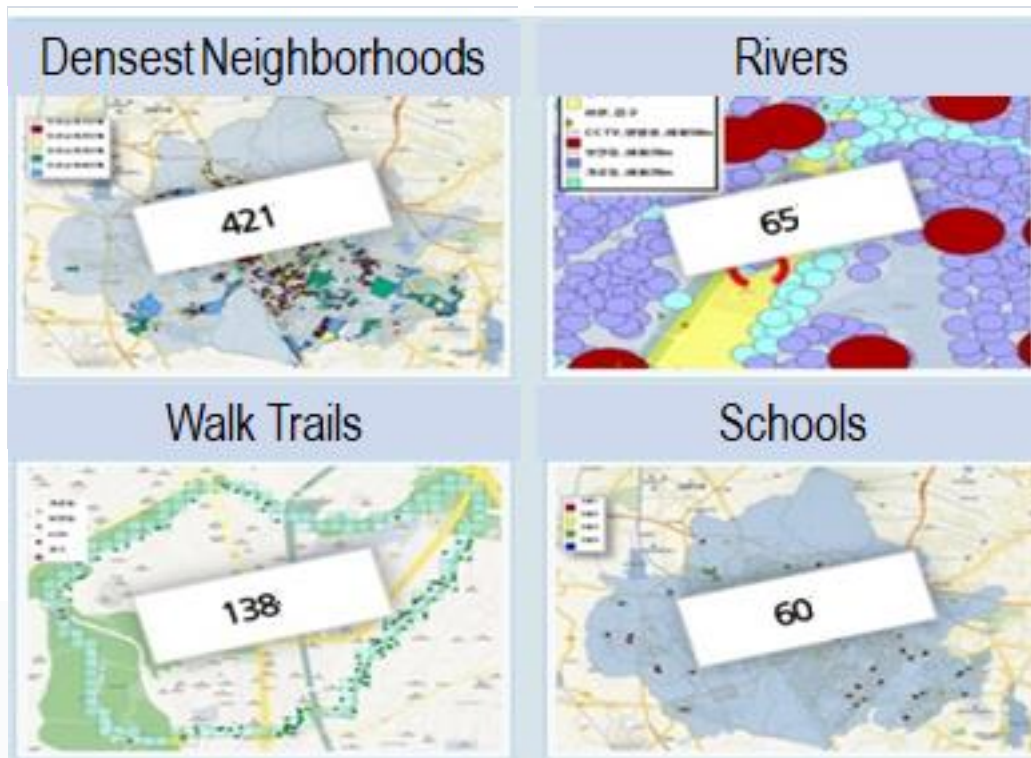
How to establish the best route for street crime patrol?



How to allocate the installation of CCTV for an efficient surveillance

CCTV for community safety

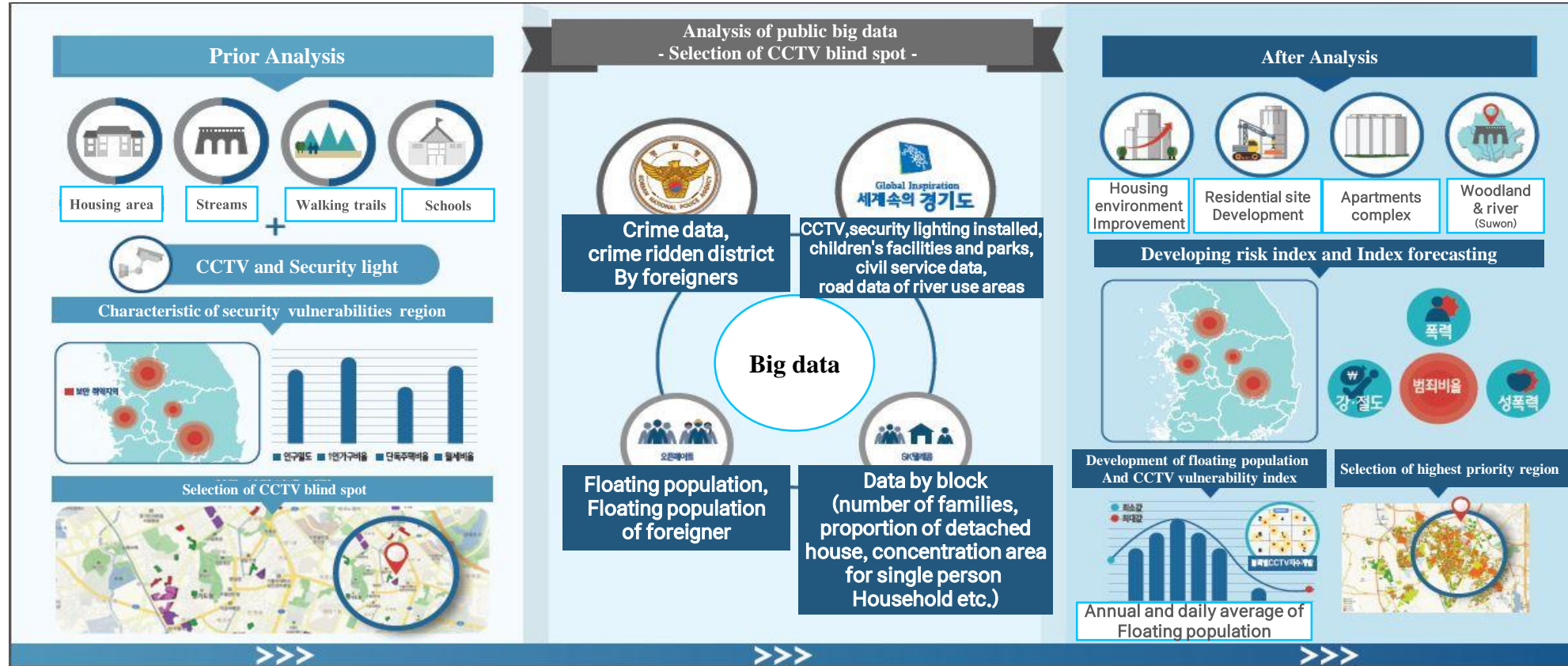
CCTV installation area analysis and create a secure environment in poor security areas



- **Analysis :** Security blind zone analysis and identify in neighborhoods, rivers, walk trails and schools
- **Data Sources :** CCTV, security and streetlights installation and operation status
- **Result & Impact**
 - Install additional cameras to cover security camera blind spot
 - Development and verification of standards analysis model by city type

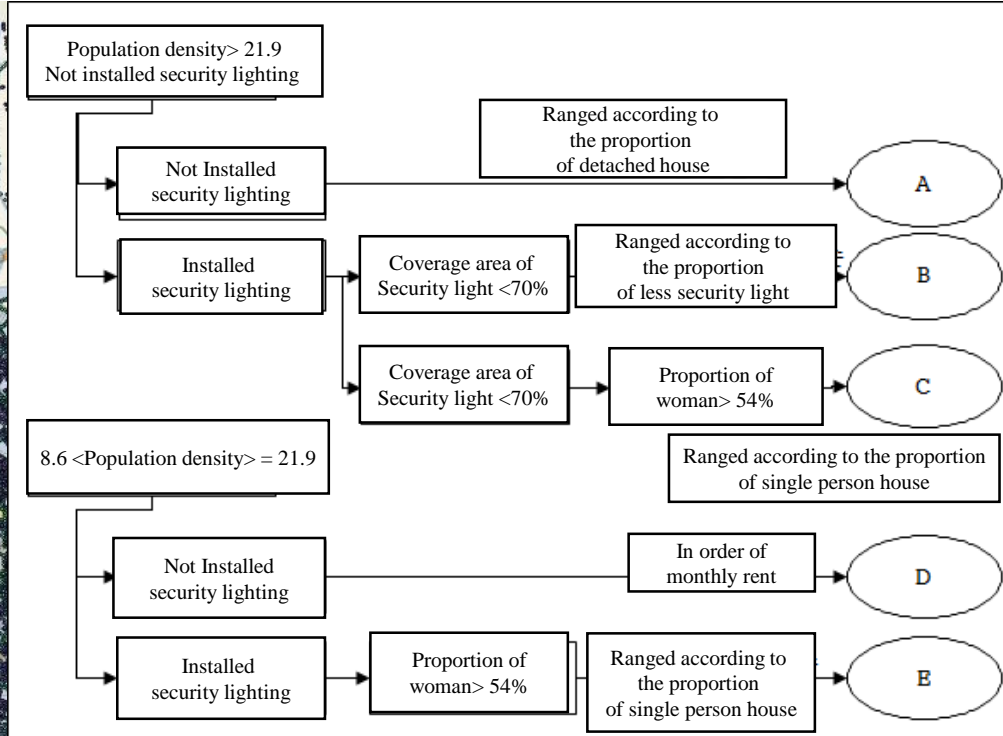
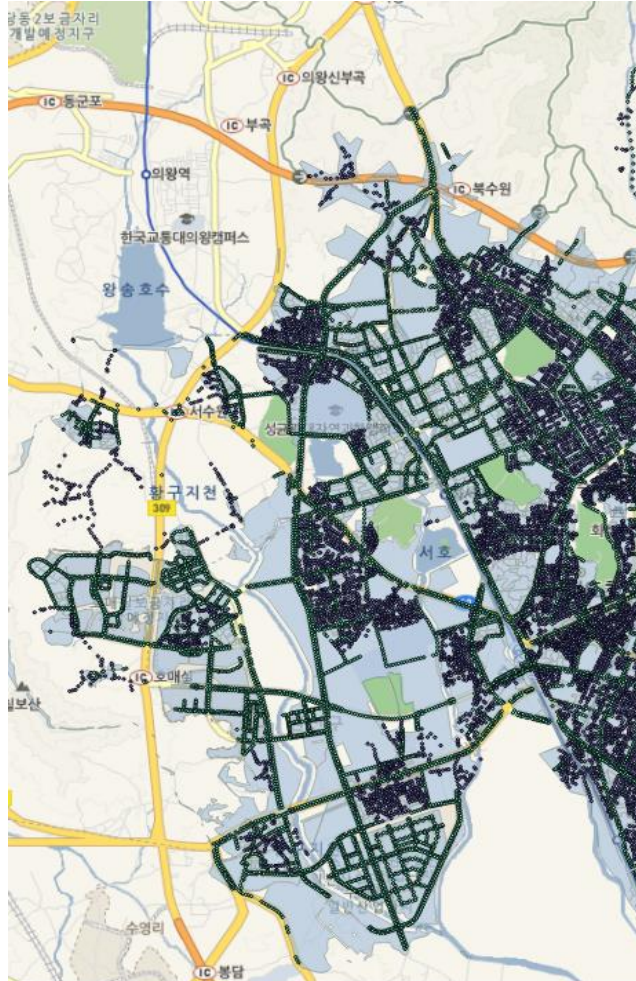
CCTV for community safety

Selection of CCTV blind spot (Suwon City)



CCTV for community safety

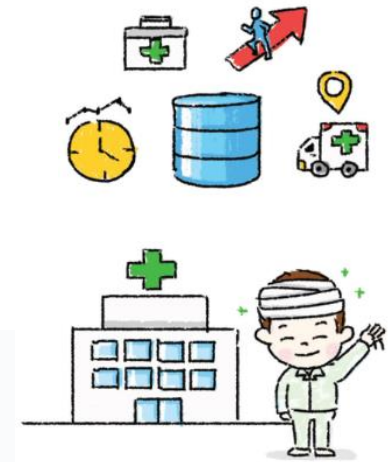
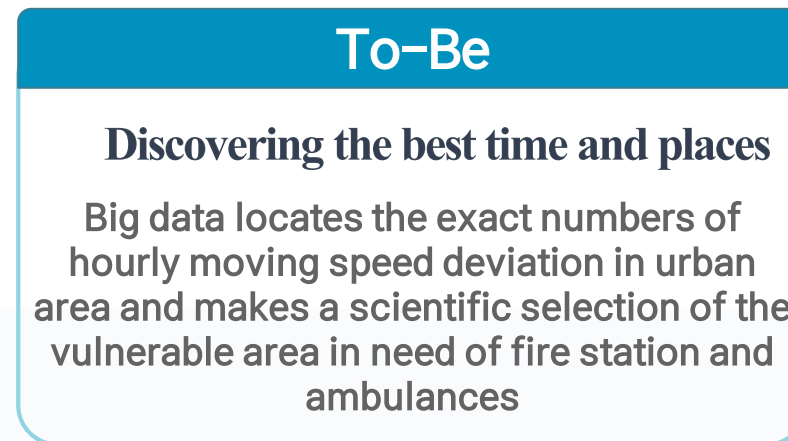
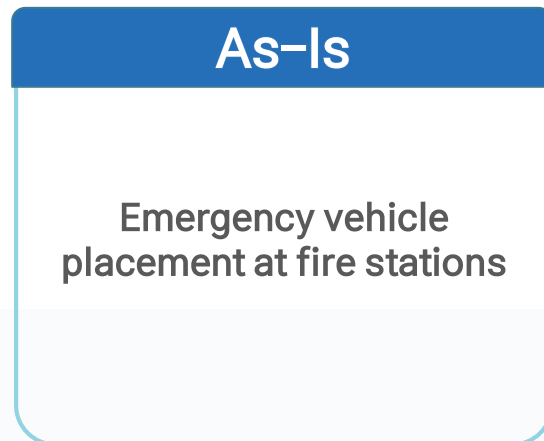
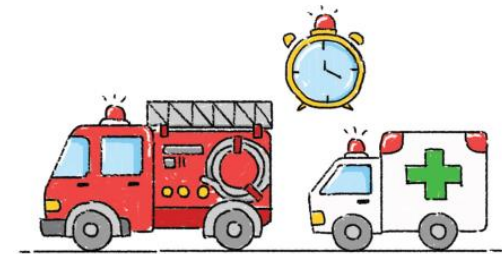
Selection of CCTV blind spot (Suwon City)



Emergency response

Golden Time that must secure, but in rural area..

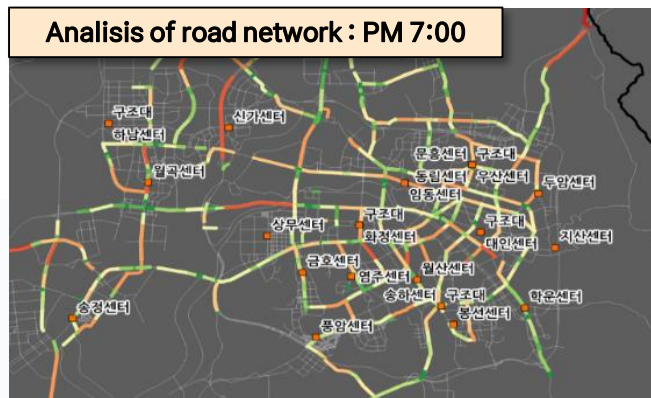
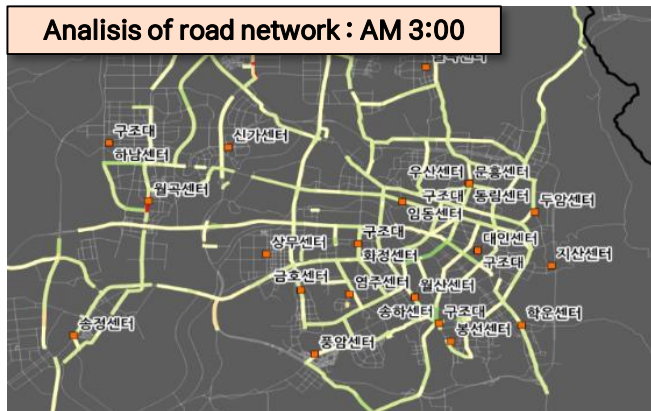
- Outline
- A foundation for reducing the time required for firefighting vehicles to arrive at the disaster site (seven minutes for fire, four minutes for cardiac arrest)
(63% for fire and 49% for emergency/ambulance)
- Selecting the Optimum Location of Emergency Vehicles by Big Data Analysis



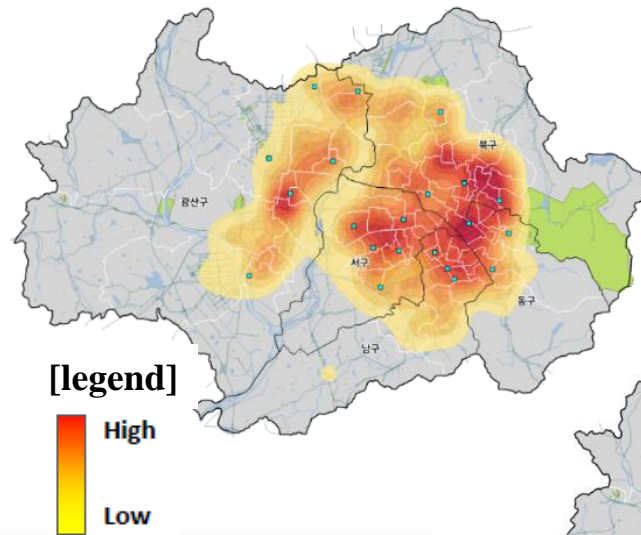
Emergency Response

Golden Hour that must secure, but in rural area..

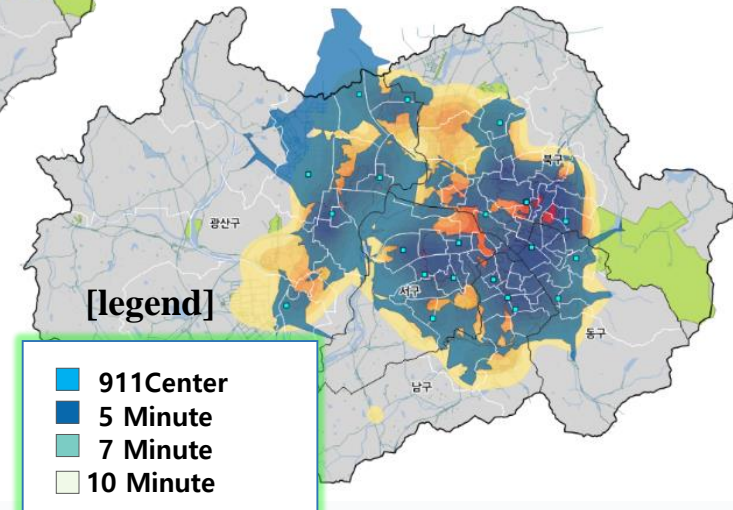
Ambulance placement and operation optimization model to secure response within the golden hour



Area where emergency patients are concentrated



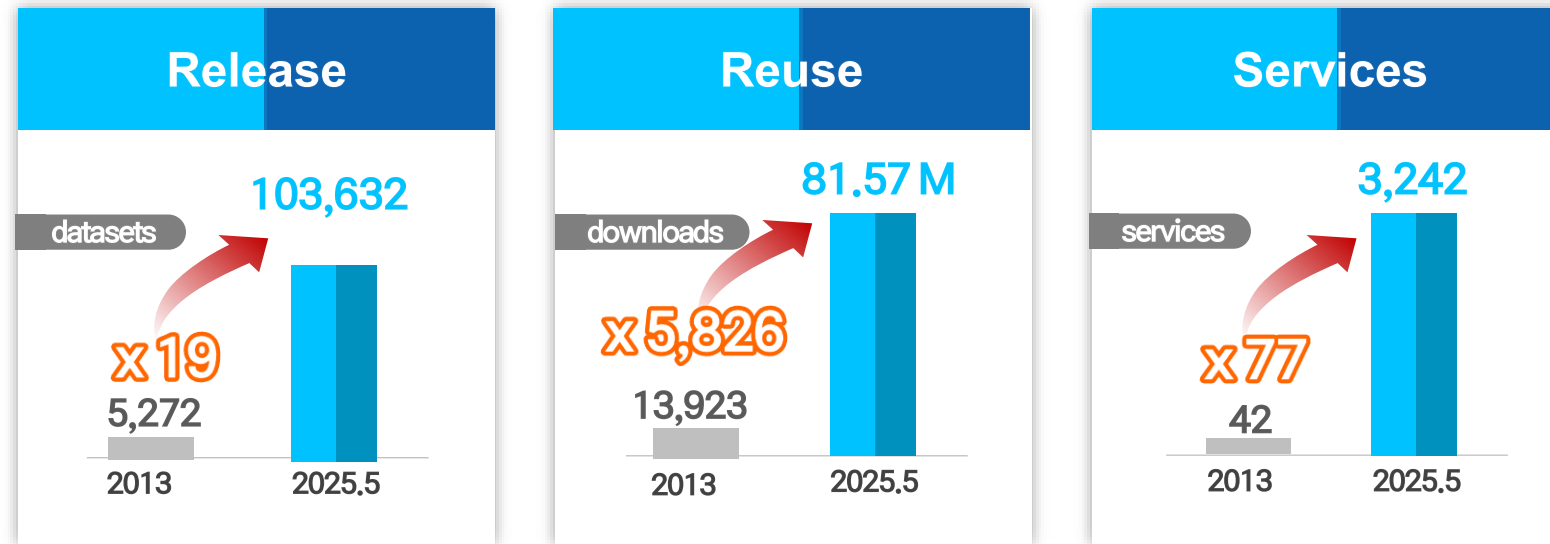
Area available in less than 5 minutes



Recommendation



Achievement of Open Data



The 1st in the OECD OURdata Index 2023 measuring government efforts on aspects of Data availability, Data accessibility and Government support for data re-use for 4 consecutive times since 2015

Recommendation

☑ Legal and Regulatory Environment

- Establishing necessary legal framework and guidelines
- Establishing adequate institutional governance as a critical success factor for sustainability and continuity



☑ Central open data infrastructure

- One stop-shop open government data portal is essential tools to promote data-driven, multi-stake holder collaboration



☑ Promoting open data reuse for value co-creation

- Establishing partnership with data users such as Civil society, Business, Academia, and engagement by user group



Open Government Data Policies in Republic of Korea

Thank you

