Korea's Open Data policy & everything in data.go.kr

Speaker

Rawon JANG

WORK
- Manager of OPEN DATA PORTAL(data.go.kr)
  └ Nation Information society Agency(NIA) in S.Korea

AWARD
- Ministerial commendation(Ministry of the Interior and Safety, 2023)
  └Open Data Provision and Utilization Merit
- Ministerial award(Ministry of Culture, Sports and Tourism, 2018)
  └Cultural Data Utilization Contest

EDUCATION
- Go on a master's course of public policy in KDIS

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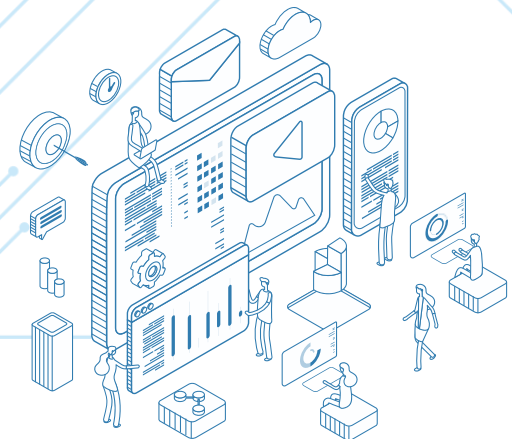
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I The value of Open Data

II KOREA's Open Data policy

III A Open Data Portal with everything

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I The value of Open Data

1. The value of Open Data

Definition and purpose of Open Data 🔍

Definition

All electronic data except personal information and national security generated by public institutions

Purpose

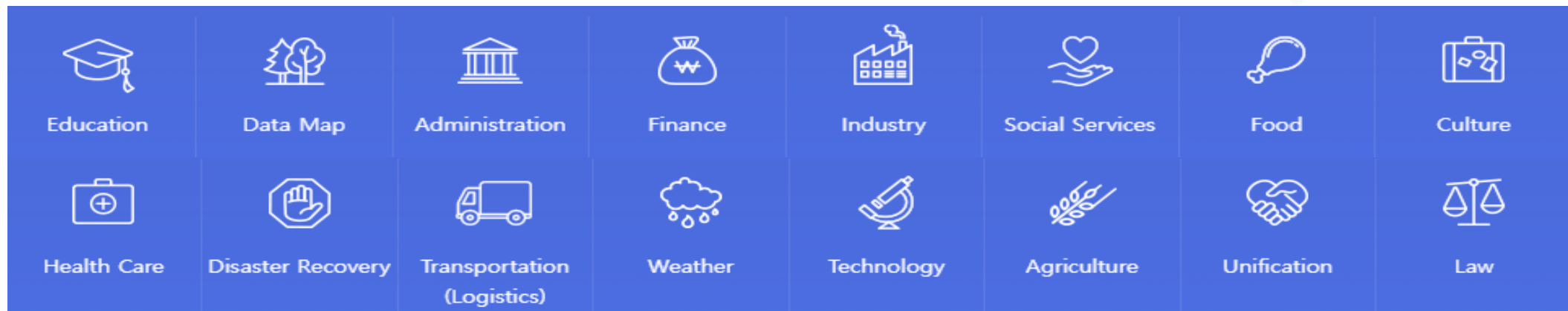Contribution to improving quality of life and to developing the national economy
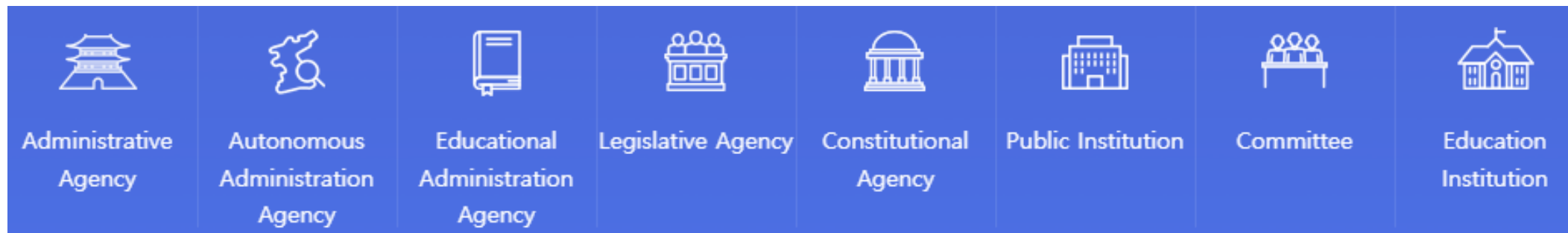
1. The value of Open Data

Types of Open Data provided in Korea

Field Categories : classified 16 open data based on Business Reference Model

Education	Data Map	Administration	Finance	Industry	Social Services	Food	Culture
Health Care	Disaster Recovery	Transportation (Logistics)	Weather	Technology	Agriculture	Unification	Law

Institution Categories : Classified 9 institutions according to government characteristics

Administrative Agency	Autonomous Administration Agency	Educational Administration Agency	Legislative Agency	Constitutional Agency	Public Institution	Committee	Education Institution

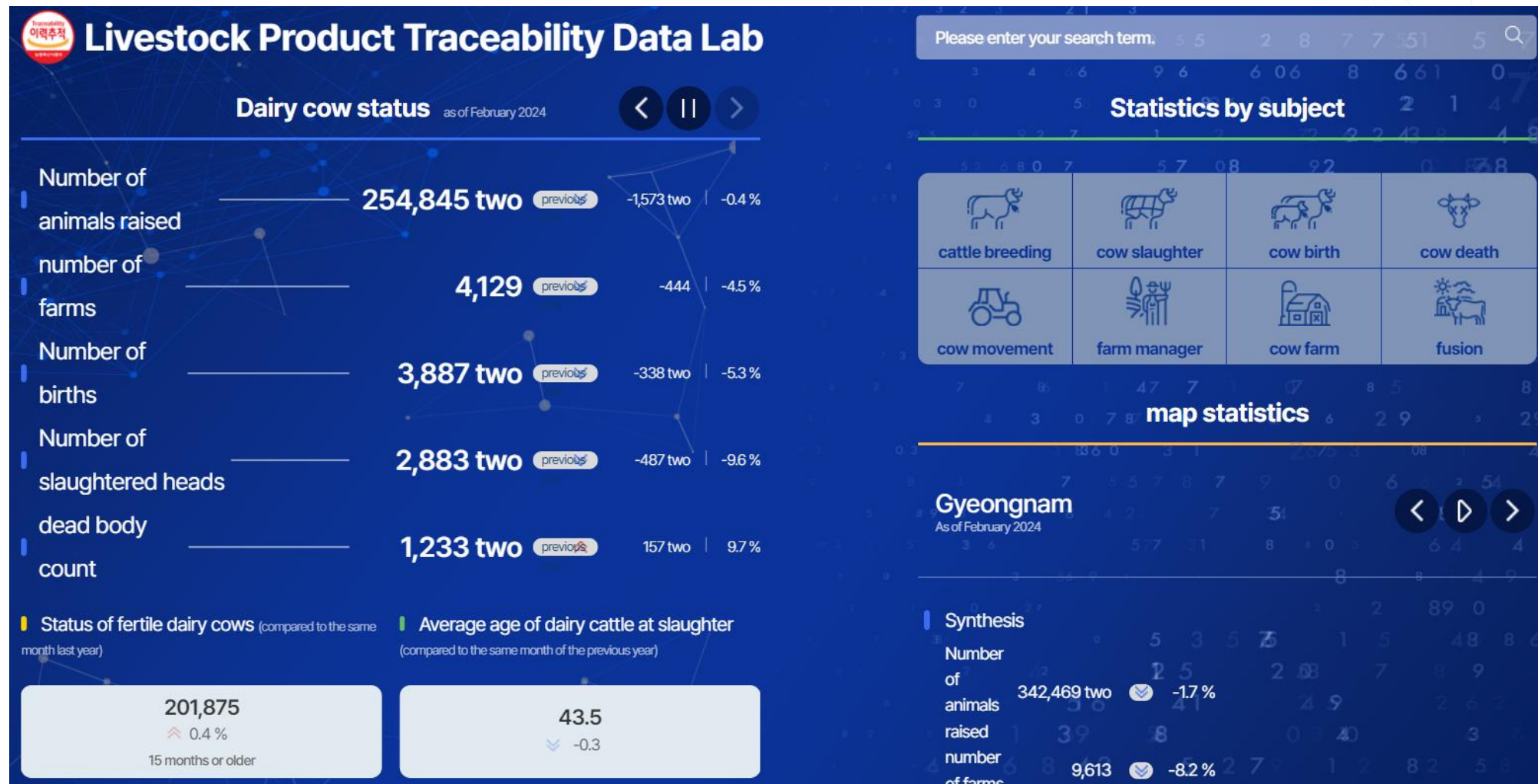**NIA** NATIONAL INFORMATION SOCIETY AGENCY

1. The value of Open Data

1. Good navigation

: Disability mobility support services

Excellence Award at
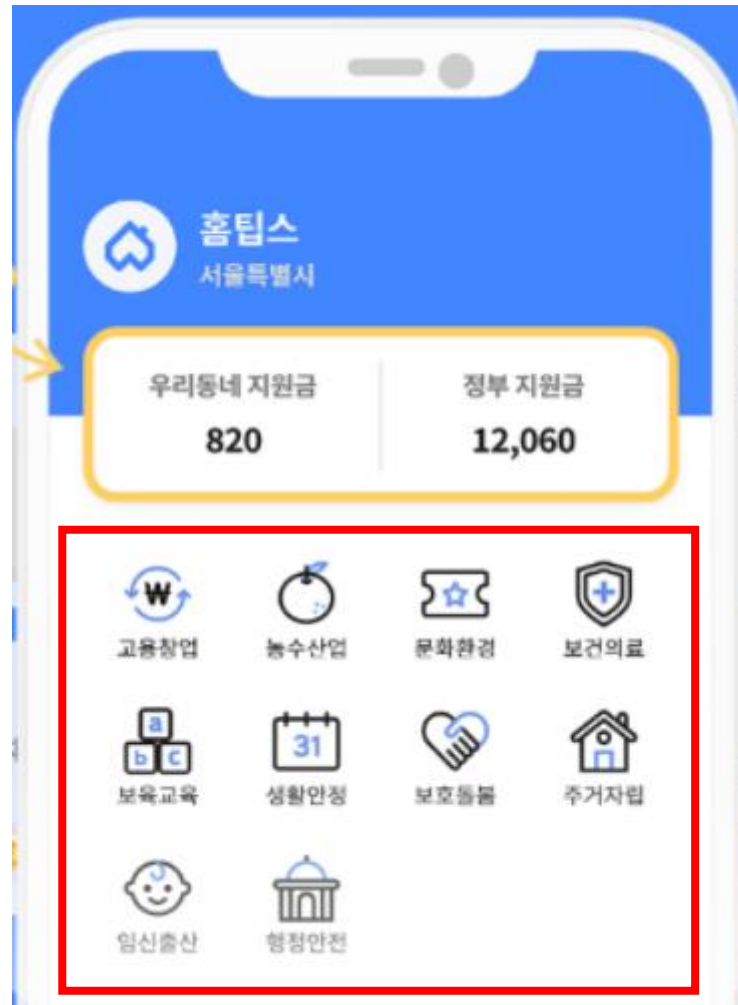the Pan-Government Open Data Start-up

1. The value of Open Data

2. Livestock product management

: Establishment of a trustworthy and secure livestock product distribution system

1. The value of Open Data

3. Home Tips
: Customized government welfare benefit notification service for users

Notification to prevent missing out on government support due to lack of awareness (employment, health care, protection, childcare)

1. The value of Open Data

4. Barrier Free-dom

: Service connecting people with disabilities and non-disabled individuals for cultural life support for people with disabilities

- Disabled individuals can receive assistance in attending performances, and non-disabled individuals providing assistance can receive discounts on ticket prices, creating a win-win situation
- I received a ministerial award for this service

도움이
필요해요

도움을
드릴래요

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10

1. The value of Open Data

Cases of open data use in Korea 🔍
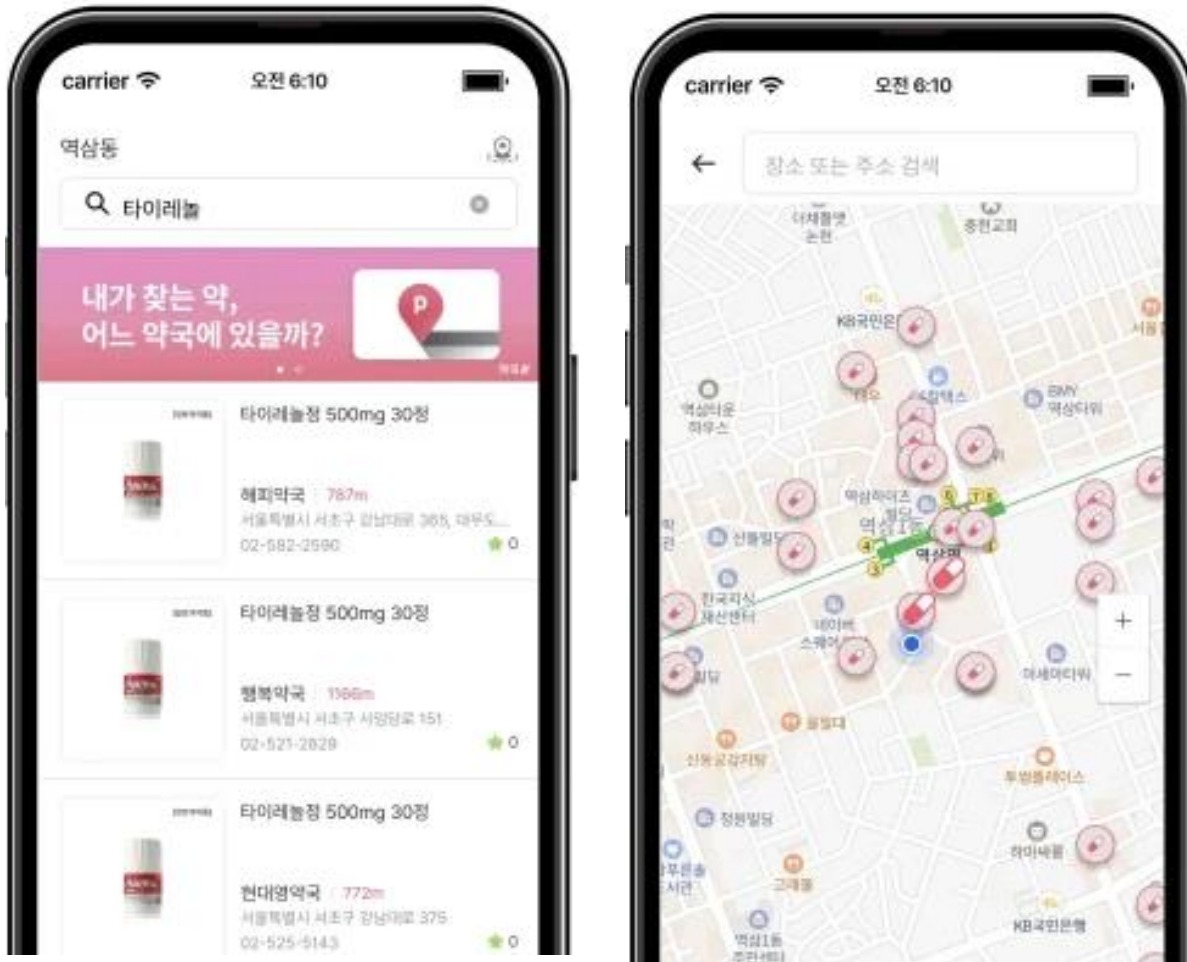
5. Pharm pharm

: Finding Pharmacies Open on Holidays and Searching for Drug Information

Ⅱ KOREA's Open Data policy

2. KOREA's Open Data policy

| 2.1. Open Data Policy | Open Data 2.0 Strategy(2021) 🔍 |

Provide the data that consumers need, not governments, in various forms

(AS-IS) Open Data 1.0

Supplier-led

Scale-driven Opening

Structured Data Mainly

Unilateral Provision

(TO-BE) Open Data 2.0

Consumer-focused

Quality-focused Opening

Diversify Data Formats

Public-private Partnership

2. KOREA's Open Data policy

| Direction of development Open Data policy(2022) 🔍

Leading the leap forward as a 'data powerhouse' by data-based government innovation

AS-IS	TO-BE

	AS-IS	TO-BE
Data-driven administration	▸ Analysis of unit tasks by institution ▸ Fragmentary work improvement	▸ Analysis of Strategic National Tasks ▸ Improve the way you work
Data opening	▸ Public-led quantitative opening	▸ Public-private Partnership ▸ Quality-focused Opening
Data using	▸ Open Data Start-up Competition, International Youth	▸ Customized Enterprise Support, Addressing data-driven regional issues

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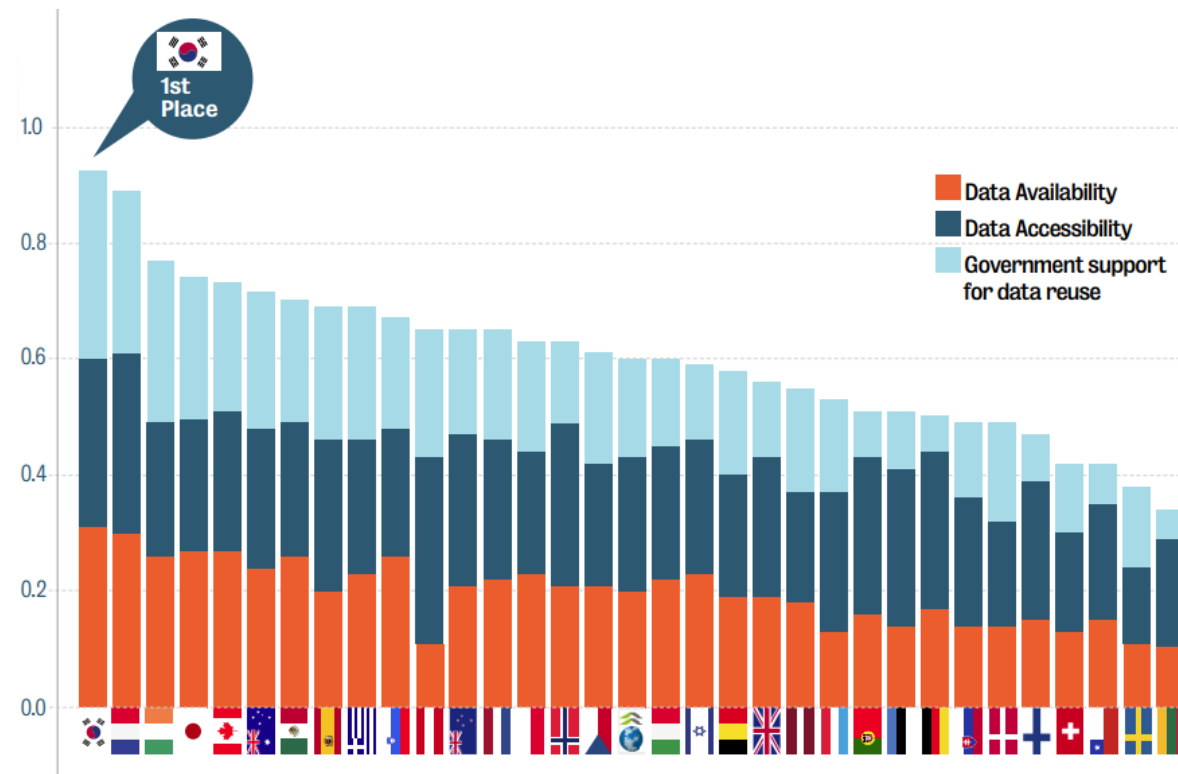# 2. KOREA's Open Data policy

Top-ranked in OECD OUR data index

Korea is top-ranked in OUR(Open, Useful, Reusable) data Index ('15, '17, '19, '23)

O(OPEN) = Availability
Demand Survey & Research, etc.

U(Useful) = Accessibility
Machine-readable, Open format, etc.

R(Reusable) = Government Support
Contest, Start-up Support, etc.

- OECD OUR Data Index: 2019 -

2. KOREA's Open Data policy

2.3. Open Data Policy | Top-ranked in OECD OUR data index 🔍

O(OPEN, Availability) : Highly availability 'National Core Data'
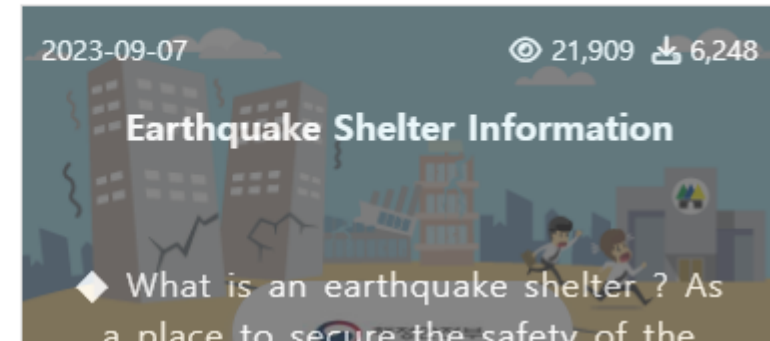
A total of 158 data

By name ▾ ⊞ ☰

Disaster management information

◆ Disaster Management Information - What is life safety guidance ? National disaster management information is information...

Drought Response Inf

◆ What is national drought response information? In the event of a water shortage, a total of 11 types were opened, including...

2023-09-07   👁 21,909 ⬇ 6,248

Earthquake Shelter Information

◆ What is an earthquake shelter ? As a place to secure the safety of the people from the risk of earthquake disaster, it is classified as an " earthquake outdoors shelter " which is an emergency evacuation site for the residents in the beginning of the earthquake , and a " earthquake...

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2. KOREA's Open Data policy

U(Useful, Accessibility) : Machine-readable Format Principles

	Level 1	Level 2	Level 3	Level4	Level5
Availability	Unable to upload data(data.go.kr)	Limited machine-readable format	Machine-readable format (Open Format)		
Definition	Can only be read by certain software	Read, modify, and convert from specific software	Read, modify, and convert from many different types of software	URI-based data structure	Can share with other data through the web
Example	PDF	PPT, XLS,	CSV, JSON, XML, XLSX	RDF	LOD

- Machine-readable(Open Format) Format's Definition -

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2. KOREA's Open Data policy

Top-ranked in OECD OUR data index

R(Reusable, Government Support) : Pan-Government Open Data Start-up Contest(Presidential Award)

Ⅲ A Open Data Portal with everything

3. A Open Data Portal with everything

3. A Open Data Portal with everything

3.1. Open Data Portal | What is Open Data Portal(data.go.kr) 🔍

The Open Data Portal(data.go.kr) is a pan-governmental open data integration window and is operated for the convenience of open data access to the public

Created, Acquired
- School
- central gov
- local gov

Provision, Management

ALL.DATA.GO.KR — Upload → — Open → DATA.GO.KR

Utilization
- Citizen
- Developer
- Company

Download →

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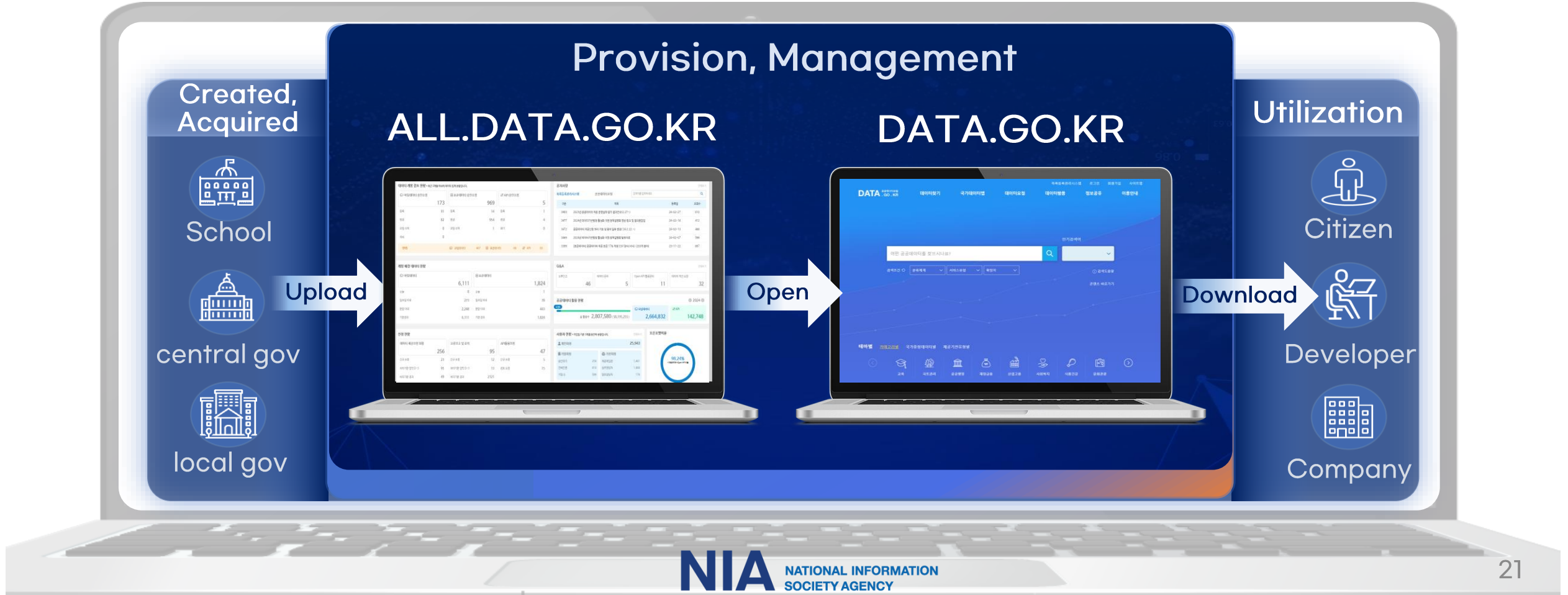
3. A Open Data Portal with everything

3.1. Open Data Portal	What is Open Data Portal(data.go.kr) 🔍

File Data
- 16 Categories
- National Core Data

Open API
- 16 Categories
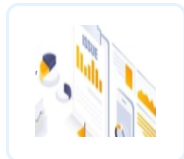- National Core Data

Standard Dataset
File Data   Open API   Grid

Issue & Recommendation Data
Provided in the form of a list of Issue data

Data Map
Provides correlation between data

Data Reuse
- Data visualization
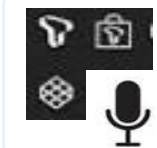- Examples of usage

Application for Provision of Open Data
Directly request data that is not available from the portal.

Contact Person in Charge
Error reporting and inquiry of Open Data.
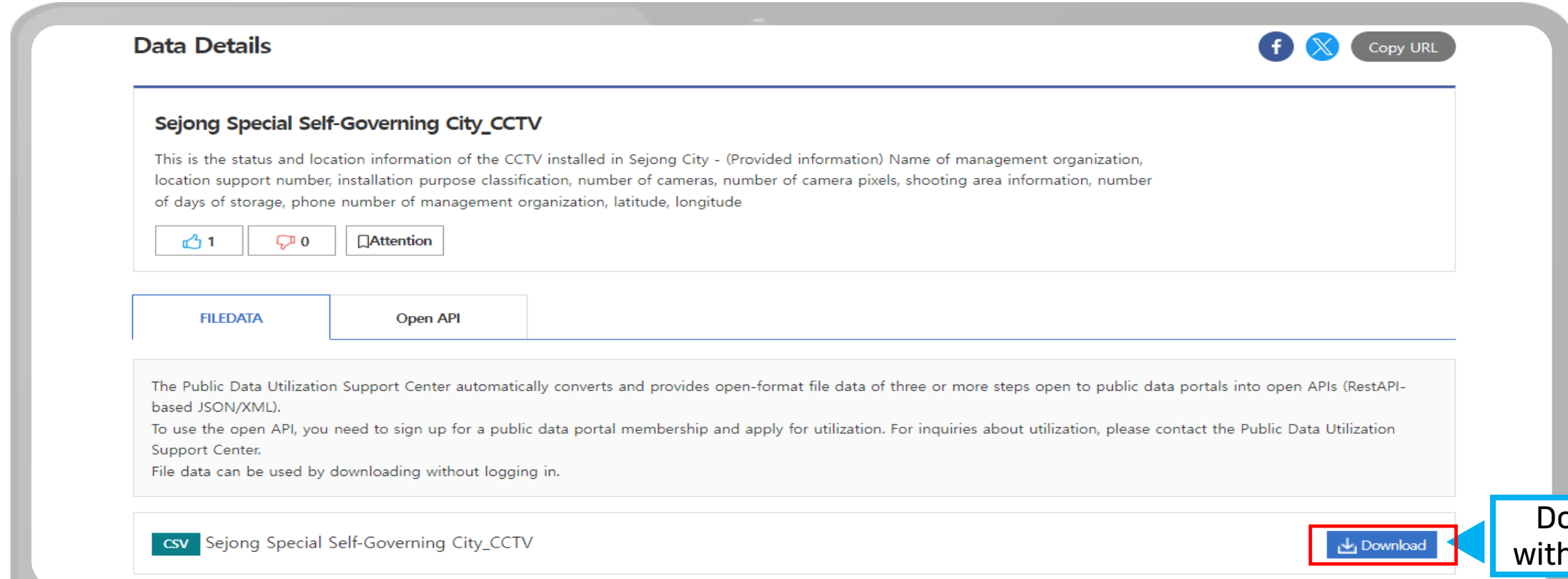
Community Forum
- Developer Network
- Q&A, FAQ

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3. A Open Data Portal with everything

3.2. Open Data Portal — Open Data provision formats - File data

File data : Original data provided in file form (e.g. cvs, xlsx, pptx …)

Data Details

Copy URL

Sejong Special Self-Governing City_CCTV

This is the status and location information of the CCTV installed in Sejong City - (Provided information) Name of management organization, location support number, installation purpose classification, number of cameras, number of camera pixels, shooting area information, number of days of storage, phone number of management organization, latitude, longitude

👍 1   👎 0   📄 Attention

FILEDATA | **Open API**

The Public Data Utilization Support Center automatically converts and provides open-format file data of three or more steps open to public data portals into open APIs (RestAPI-based JSON/XML).
To use the open API, you need to sign up for a public data portal membership and apply for utilization. For inquiries about utilization, please contact the Public Data Utilization Support Center.
File data can be used by downloading without logging in.

CSV Sejong Special Self-Governing City_CCTV   ⬇ Download

Download without login

3. A Open Data Portal with everything

3.2. Open Data Portal	Open Data provision formats - Open API 🔍

Open API : Real-time data reception interface for request and response methods(e.g. weather cast)

```
▼<body>
  ▼<items>
    ▼<item>
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        <airlineKorean>전일본공수</airlineKorean>
        <airport>서울/김포</airport>
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        <internationalThu>Y</internationalThu>
        <internationalTime>0745</internationalTime>
        <internationalTue>Y</internationalTue>
        <internationalWed>Y</internationalWed>
```

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3. A Open Data Portal with everything

Open Data provision formats - Standard dataset 🔍

Standard dataset : Standards of data opening established for everyone to understand and use in the same way (e.g. national traffic light)

Standard Data Detail

CSV **National Memorial Park Information Standard Data**

Data Catalog (Total 15 Count)

| File data	Gumi Facilities Corporation_Memorial Park Information	Modification date : 2024-02-20
File data	Gyeongsangnam-do_Sacheon City_Memorial Park Information	Modification date : 2023-12-06
File data	Gyeongsangnam-do_Tongyeong-si_Memorial Park Information	Modification date : 2023-09-06
File data	Jeollabuk-do_Gochang-gun_Memorial Park Information	Modification date : 2023-08-01
File data	Chungcheongnam-do_Geumsan-gun_Memorial Park Information	Modification date : 2023-07-11

1   2   3

3. A Open Data Portal with everything

3.3. Open Data Portal | Request for data provision 🔍

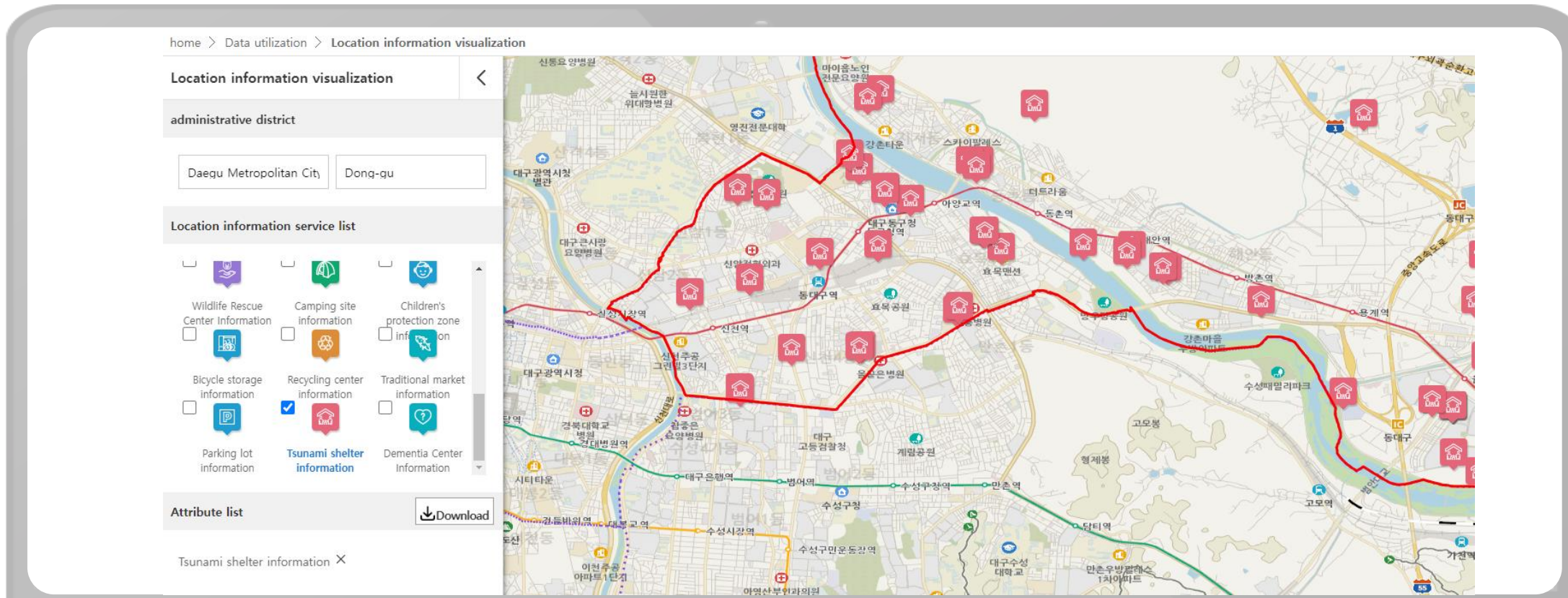We can directly request Open Data not provided on the portal from the government
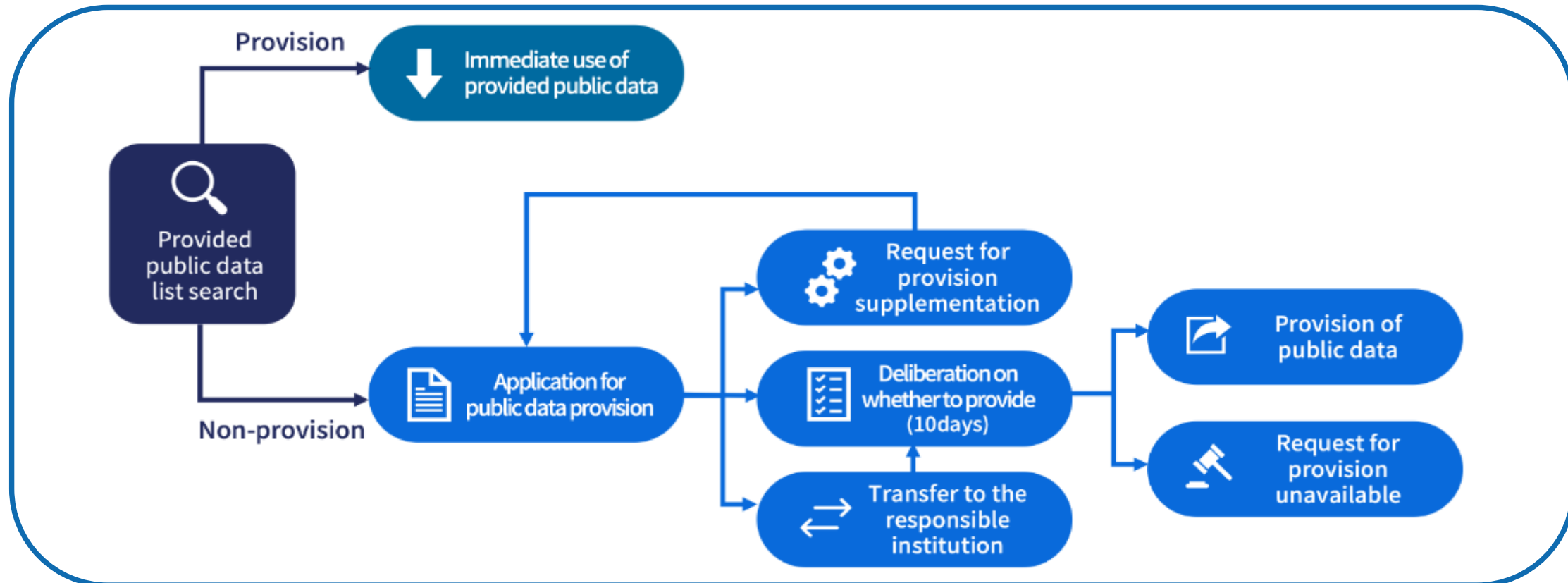
3. A Open Data Portal with everything

3.4. Open Data Portal — Visual utilization support

Users can create and share visualization charts using Open Data

3. A Open Data Portal with everything

3.4. Open Data Portal | Visual utilization support 🔍

Users can create and share visualization charts using Open Data

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OPEN DATA