
Open Data of KOREA

Boo Mann, Choung

Vice president, Department of Government 3.0
Executive Director, Open Data Center
National Information Society Agency

cbm123@nia.or.kr

I . NIA Introduction

National Information Society Agency (NIA)

In a world of newly emerging knowledge and information paradigms, NIA continues to be the definitive expert agency charged with a central role in the information of the nation society.



2015.9

Moving office to Daegu and Jeju

2009.5

Integrate launched as National Information Society Agency (NIA)

2003.1

Reorganized as Korea Agency for Digital Opportunity and Promotion (KADO)

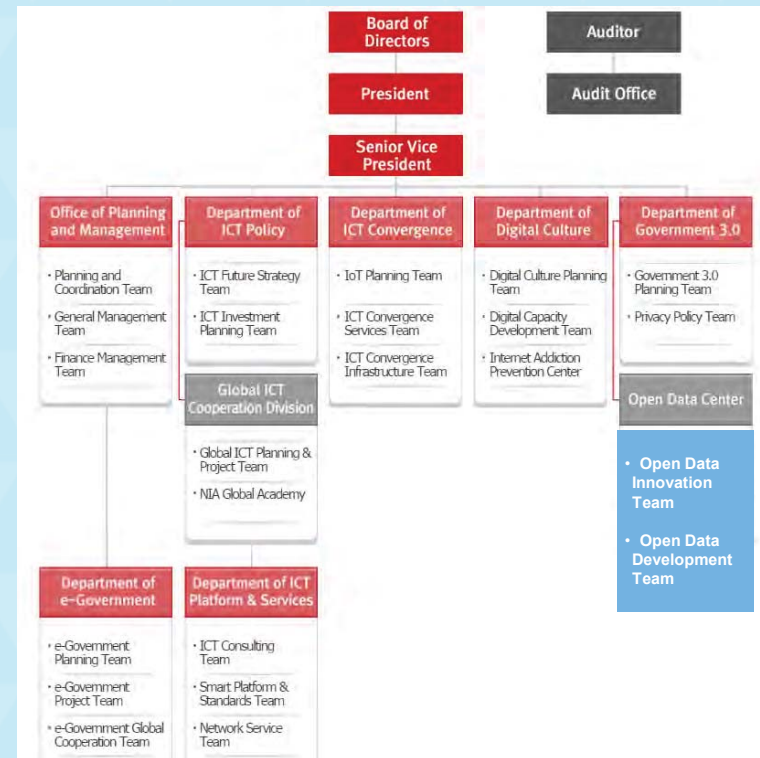
1987.1

Established as National Computerization Agency (NCA)

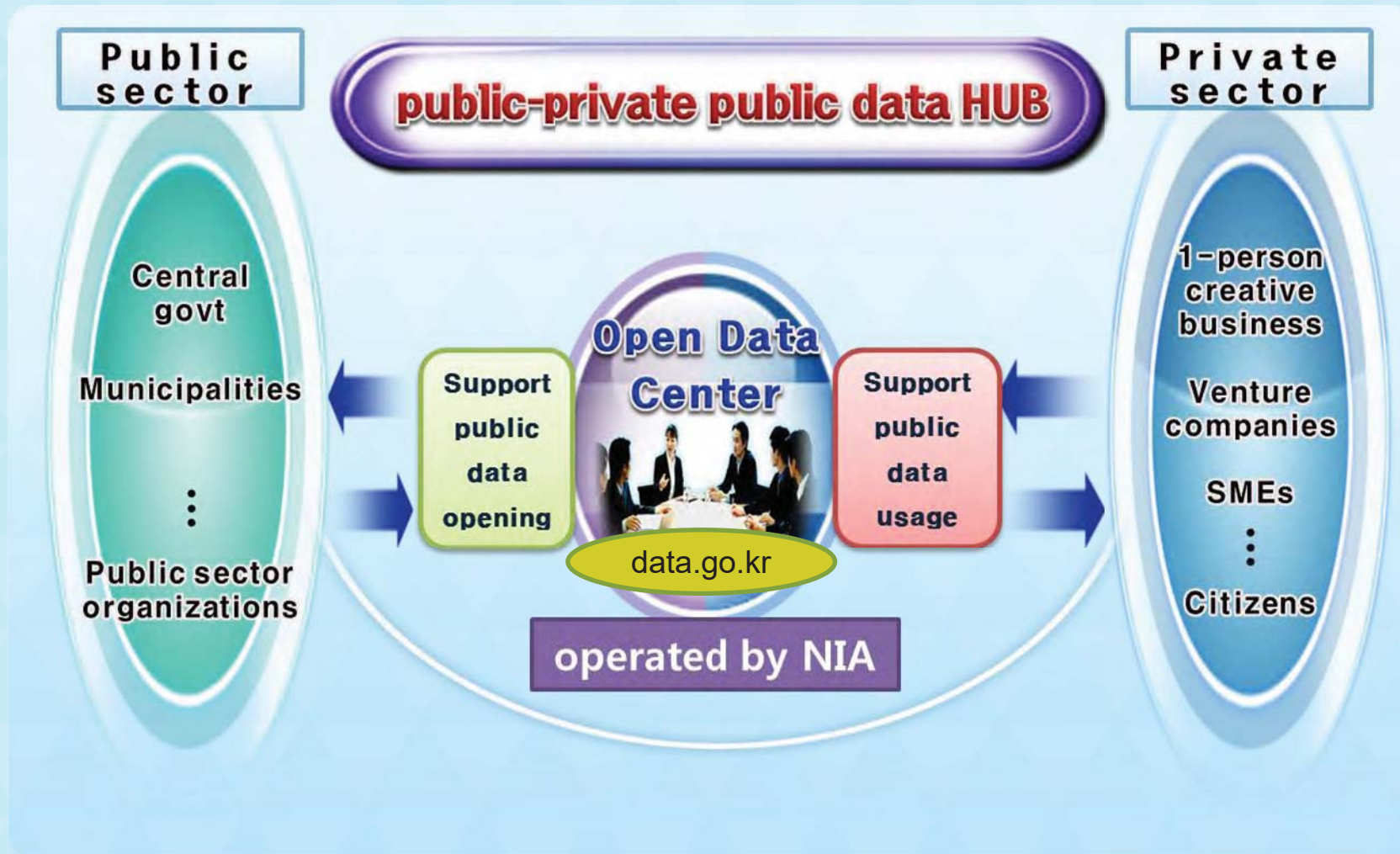
II. Open Data of KOREA Overview

Open Data Center

The Open Data Center launched in November, 2013 and established and operated by 『Open Data Law』 Art. 13 of Act on promotion of the provision and use of open data



Open Data Center



* NIA : National Information Society Agency

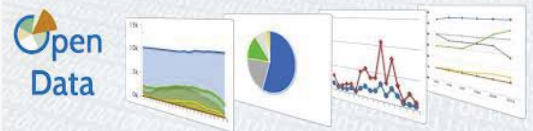
General Consensus on Open Data Direction

Strategy

- Opening up all open data in **Negative list way** to maximize effect (open by default)
- Ensure **right to use** open data freely
- Ensure **equality principle** in open data access
- Ensure **commercial use** of open data to produce virtual goods/services & profit generation

Open data **scope**

- Electronic information or data produced, obtained, managed by public orgs
 - Ex. geo, weather, maritime, environment, economy, population, transportation, leisure, agri, crime, patent, etc



Open data **provision**

- Opening up of data to allow access and use in machine readable form
 - **machine-readable** : state in which data structure can be verified and data can be modified, transformed, filtered through software

Provision **exceptions**

- Data subject to non-disclosure by 'Information Disclosure Act' (national security, personal info, etc)
- Data containing third party rights which have not been cleared
- Data subject to non-disclosure by relevant laws

Momentum building for concrete policy action

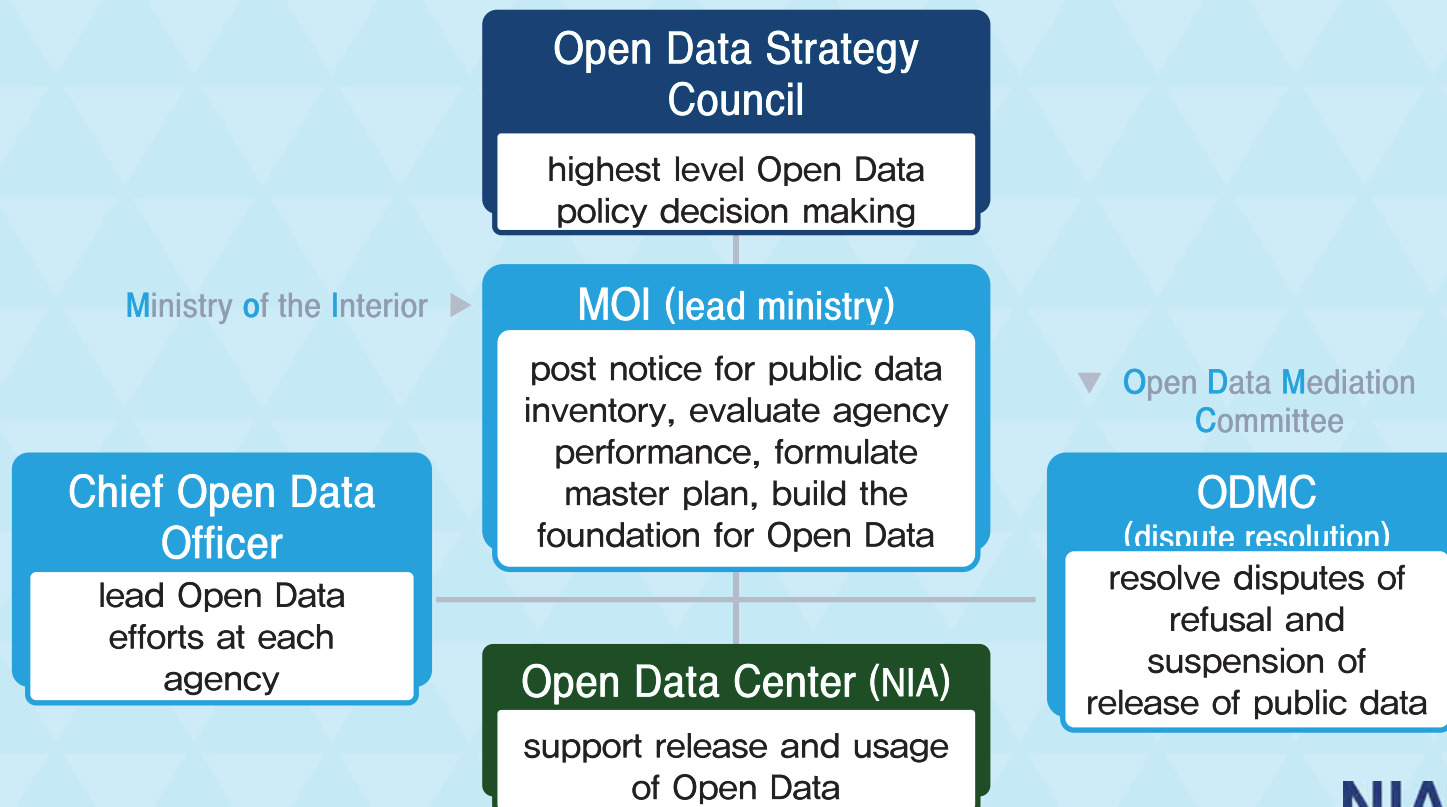
Law and Organization Framework

『 Open Data Law 』 enactment (world 1st)

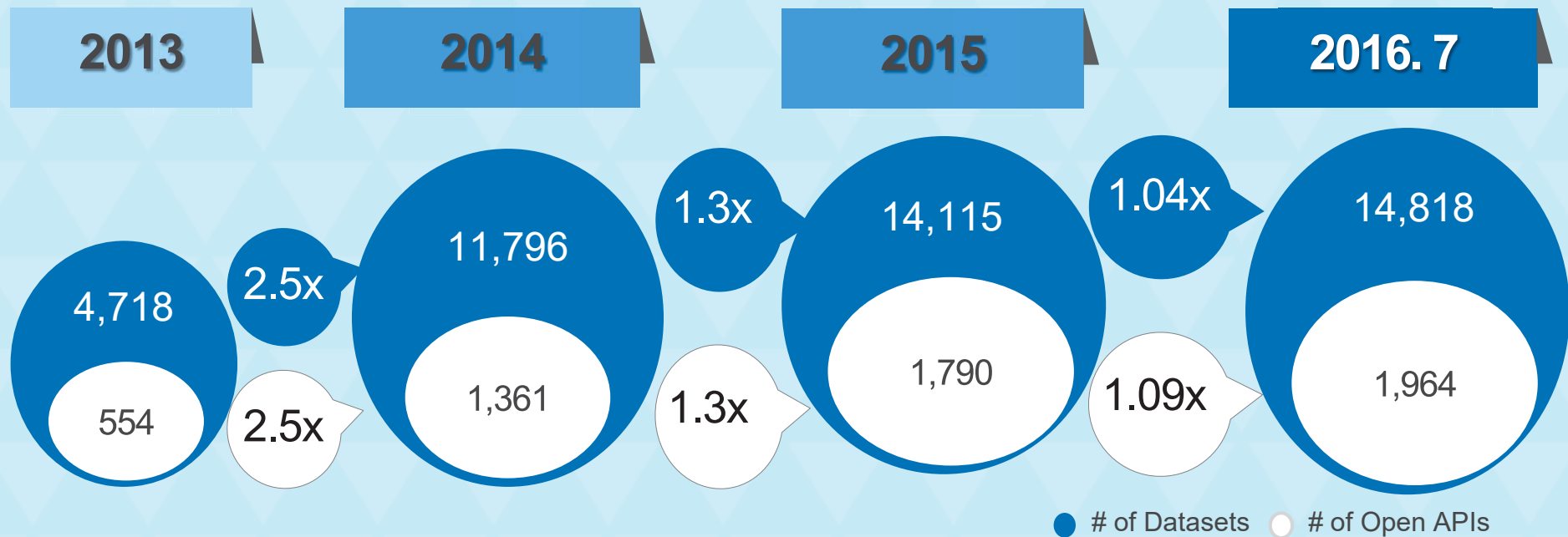
a law to effectively coordinate pan-government policy on open data

* passage at National Assembly(June 27, 2013) → effective(October 31, 2013)

Key points : Open by **default**, ensure **right** to use data (incl **commercially**), data provision **obligation** and **immunity** from liability



Results of Open Data Disclosure



PUBLISHER

655

14,818 datasets published

1,964 Open APIs published

PUBLISHED STATUS

16,794

Private Sector Use of Open Data

2016.7

2014.12

Download
Datasets



119,633
datasets

9.88x

1,182,465
datasets



Applying for
Open APIs usage



33,687
open APIs

3.6x

121,542
open APIs



Development
Private Services



395
services

2.31x

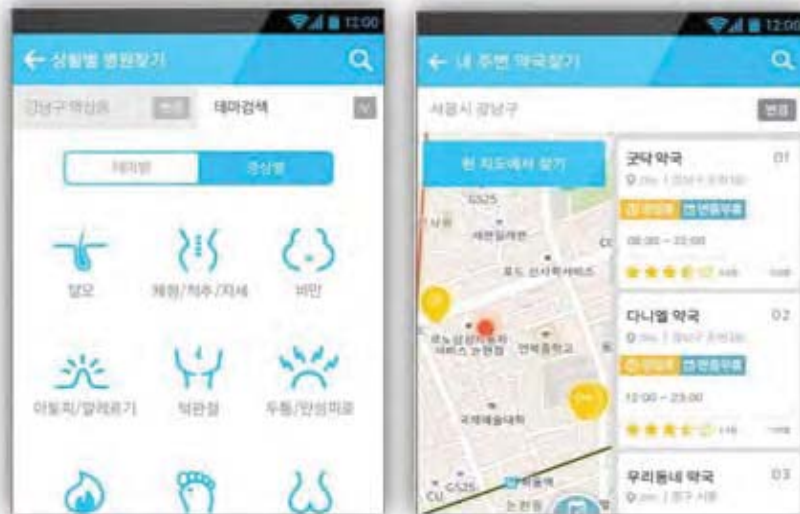
913
services



*calculation of a cumulative sum

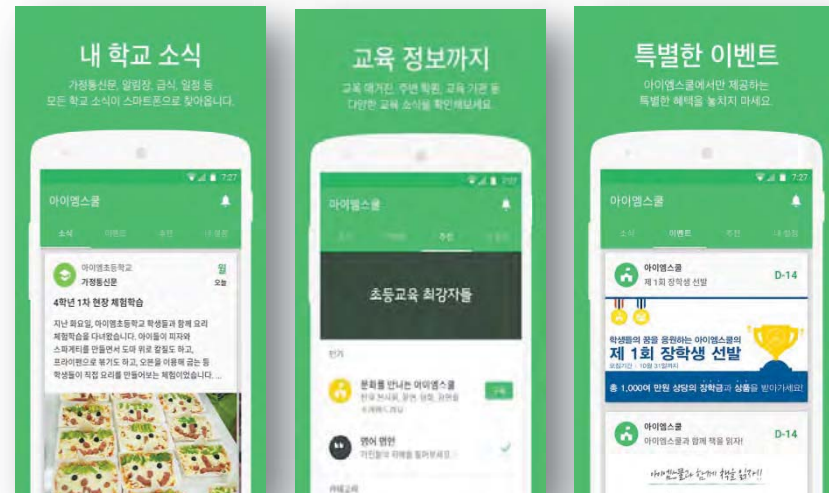
Open Data Case Studies

Goodoc (Yello Mobile)



- Data Sources : Hospitals and pharmacies information
- Services : Nearest and available Hospitals and pharmacies information in your location
- Highlights :
 - Increased revenue 167%(YoY) : total \$3.5 million in 2015, compare to \$1.3 million in 2014
 - Open data best practices recognized by the UN

IAMSCHOOL (IAMCOMPANY)



- Data Sources : School calendar and meals information
- Services : Integrated school news providing service (notice, school meals etc.)
- Highlights :
 - No.1 school mobile announcements in Korea(based on the second half of 2015)
 - 100 schools conducted services after entering Taiwan market in three months.

III. Main Services of ODC

Policy Plans and Guidelines

*

Master Plan

The 1st Open Data 3 year Master Plan (December 2013)

The 2nd Open Data 3 year Master Plan in Progress (2017~2019)

*

Yearly Plan

2014/2015/2016 Open Data Plans

(all central govt ministries, provincial level govts : 60)

*

Guidelines

Open Data Management Guidelines (March 2014)

*Mandated by 『 Open Data Law 』

Open Data Strategy Council

*

Operating the **private-public collaboration activity** “Open Data Strategy Council”:

Established on the basis of Art. 5 of the Open Data Law ; composed of **government and local governments** departments and **technical experts of private sector** related to the data area to deliberate and adjust the **government's major policies** and **plans on open data** and **check and evaluate its implementation**.



Open Data Mediation Committee

*

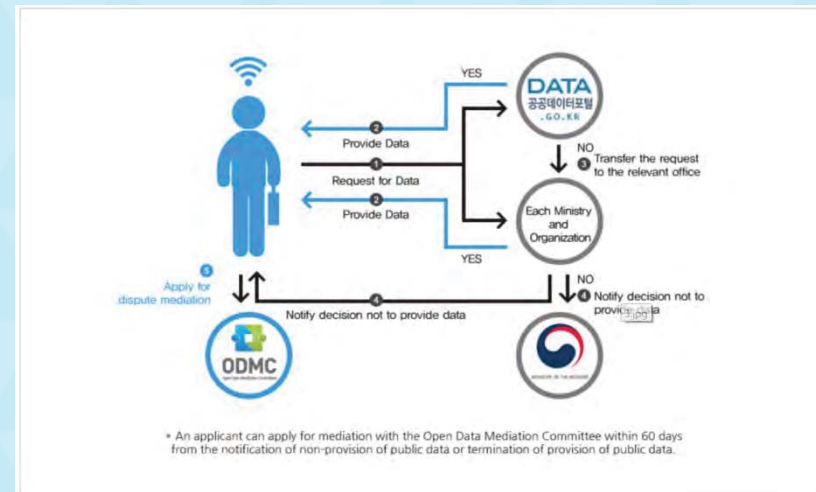
What is open data dispute mediation system?

The system provides simple procedures for mediating open data disputes when public institutions refuse or stop providing public data

*

Open Data Mediation Committee

Dispute mediation, pre-mediation, consultation, and training related to public data provision



Open Data Portal (data.go.kr)

*

How to use open data?

Go to the open data portal (data.go.kr) and search for data you want for downloading and use. If the data you want are not available, you can request disclosure of open data.

***663 Government and public institutions** opening up government data,
15,186 File Data and **2,025 Open APIs** provided(as of August 2016)



Published Key Data for Korea (Data BigBang Project)

*

Key data for Korea in 36 areas selected by people

*Data BigBang Project : Opening high value and high demand 36 areas data

weather, transportation, land, food/medicine, agri/livestock, culture/tourism, disaster/safety, health/welfare, procurement, patent, maritime/fisheries, laws/justice, science/technology, labor/employment, environment etc.



Open the public data in 11 areas covering national health, real estate, and hiking courses

2015



Fully open in 22 areas including real estate transactions, food and medicine information, national disasters, education and public administration

2016



Complete providing open data in 36 areas including written judgments

Making more government information available to the public to meet the popular needs

2017

Data Quality Management and Standardization

*

Public DB quality management & open API

- Support DB quality management especially in strategic areas and establish pan-government common quality management process
- Expand open API provision : 503(2013) → 3,000 (2017)

- Public DB quality management projects
→ 35 projects(2013), 40 projects(2014), 41 projects(2015), 40 projects(2016)
- Support open API development
→ 25 projects(2014), 25 projects(2015), 30 projects(2016)

*

Standardization

- High quality data infrastructure via maintaining accuracy and consistency of data through pan-government efforts

- Public data standardization projects standardize data fields, terminology, format, code of each type of data (e.g. parking facility)
→ data structure and format standardization for machine readable open format

Quality Control for Open Data

*

QC evaluation : Define the five levels for QC process for open data

*

Expand use of open format : Increase up to 70% of all files by 2017



Check Data Error and Open API Services

*

Error checking for open data of Open Data Portal

*

Quality improvement, such as real-time fault diagnosis, for Open Data Portal and API Providers



- The 'Open Square-D' is an one-stop support center for startup to support brainstorming, starting-up, and supporting each step of business using open data.
- Currently a total of 11 Corporates tenants, Investment Seminar, 1:1 customized consulting services



Open Square-D



The Open Data 500 Korea

- Business-to-business community using open government data to generate new business and develop new products and services.
- 301 companies registered(as of 2015) ▶ 200 companies expected to register additionally(end of 2016)

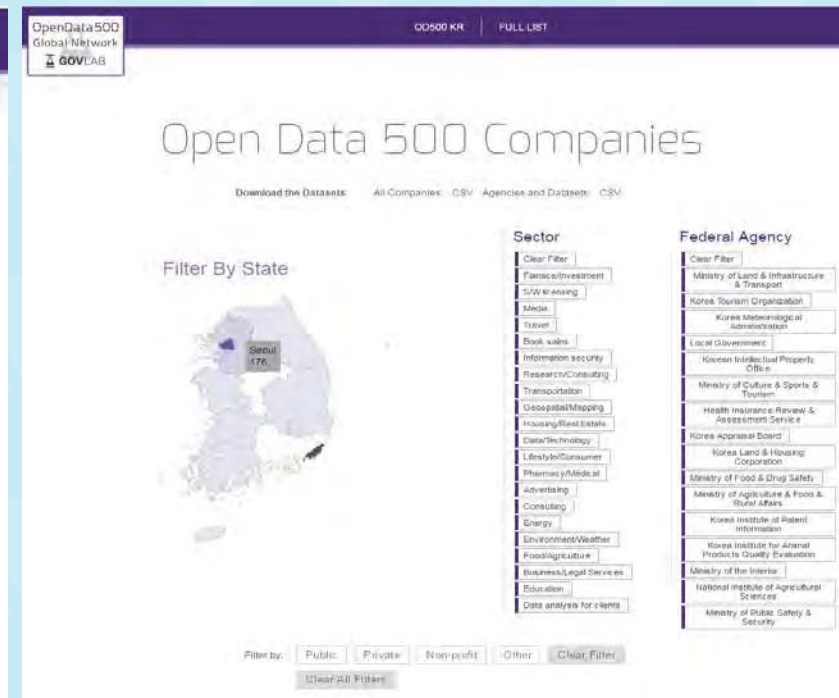


OpenData500 Global Network
GOVLAB

The OD500 Global Network

The OD500 Global Network is an international network of organizations that seek to study the use and impact of open data. Coordinated by the Governance Lab (GovLab), the OD500 Global Network enables participating organizations to analyze open data in their country in a manner that is both globally comparative and domestically specific. The OD500 Global Network starts from the assumption that only by mapping the use of open data within and across countries, can new approaches for understanding the economic and social impact of open government data be generated.

Australia Mexico United States
Italy Korea Canada



OpenData500 Global Network
GOVLAB

Open Data 500 Companies

Download the Datasets: All Companies - CSV Agencies and Datasets - CSV FULL LIST

Filter By State

Seoul (176)

Sector

Clear Filter

- Finance/Investment
- TV/Broadcasting
- Media
- Tourism
- Book sales
- Information security
- Research/Consulting
- Transportation
- Geospatial/Mapping
- Housing/Real Estate
- Data/Technology
- Lifestyle/Consumer
- Pharmacy/Medical
- Advertising
- Consulting
- Energy
- Environment/Weather
- Food/Agriculture
- Business/Legal Services
- Education
- Data analysis for clients

Federal Agency

Clear Filter

- Ministry of Land & Infrastructure & Transport
- Korea Tourism Organization
- Korea Meteorological Administration
- Local Government
- Korean Intellectual Property Office
- Ministry of Culture & Sports & Tourism
- Health Insurance Review & Assessment Service
- Korea Appraisal Board
- Korea Land & Housing Corporation
- Ministry of Food & Drug Safety
- Ministry of Agriculture & Food & Rural Affairs
- Korea Institute of Patent Information
- Korea Institute for Patent Product Quality Evaluation
- Ministry of the Interior
- National Institute of Agricultural Sciences
- Ministry of Public Safety & Security

Filter by: Public Private Non-profit Other Clear Filter

Clear All Filters

Open Data Startup Talk Show

- Objectives : Leverage value and awareness of Open Data
- Target : Potential startups, students and the general public
- Agenda : Open Data case studies, support projects and policies
(Total of 5 times held, more than 1,000 participants accumulated)



Open Data Startup Competition

- Objectives : Dissemination and awareness raising of Open Data, developing innovative business models and commercialization
- Status : The 4th startup competition is presently in progress (since 2013)
- Categories : Ideas planning, product and service development, mashups
- Reception status : Total of 1260 cases (average competition ratio 27 : 1)
- Result : 27 of 47 teams start business successfully (success rate in product and service development 92%)



Open Data Hackathon

- Objectives : Increase life-based public service using open data through ideas of the people
- Theme : "Adding the Open Data in your life? Convenient LIFE 3.0! "
- Reception status : Total of 1260 ideas (May 23-Jun 9, 2016)
- Awards : 5 teams award and receive cash prizes(Minister's Awards etc.)



Open Data Town in Gov.3.0 Festival

- Objectives : To share experiences the advantage of using open data in life
- Theme : Government at your fingertips
- Contents : VR(Virtual Reality) of Open Data usage cases, startup services, introducing Open Data policies etc.
- Visitors : 100 thousand people, President, diplomatic missions of US etc.



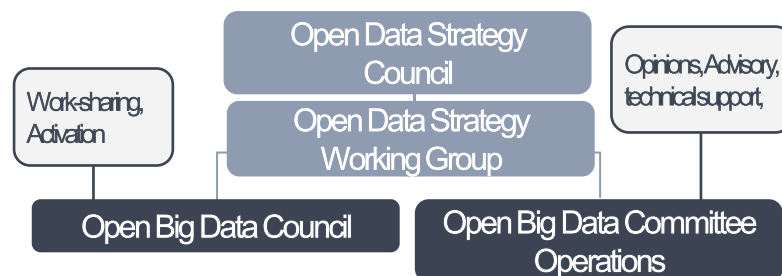
*

Implementation and value expansion of Big Data system

Implementation of Big Data System

Open Big Data Council and Committee Operations

Policy and strategy to promote and dissemination of Open Big Data



Evaluation System

Development reasonable analysis model of Big Data and evaluation system for using Big Data

Standard Cost Estimate for effectively manage Big Data Business

Value Expansion of Open Big Data

The education on the public Big Data

Strengthen the education on the public Big Data usage and professional manpower training



Open Big Data advertisement

Advertisement and international expansion



*


Implementation of Analytical Project & Development on Standard Model

Implementation Big Data

Implementation of Analytical Big Data Projects



 Korea Forest Service
Forecast Forest Fire Danger

 MINISTRY OF PUBLIC SAFETY AND SECURITY
Global Inspiration GyeongGi-Do
Fiscal Transparency Improvement in Apartment Maintenance Fee

Development & extension on standard analytic model

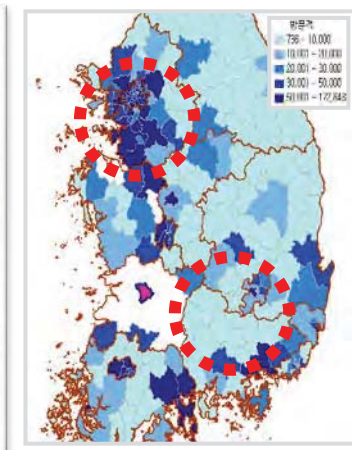


The Case of Big Data Project

Vitalization of Local Tourism

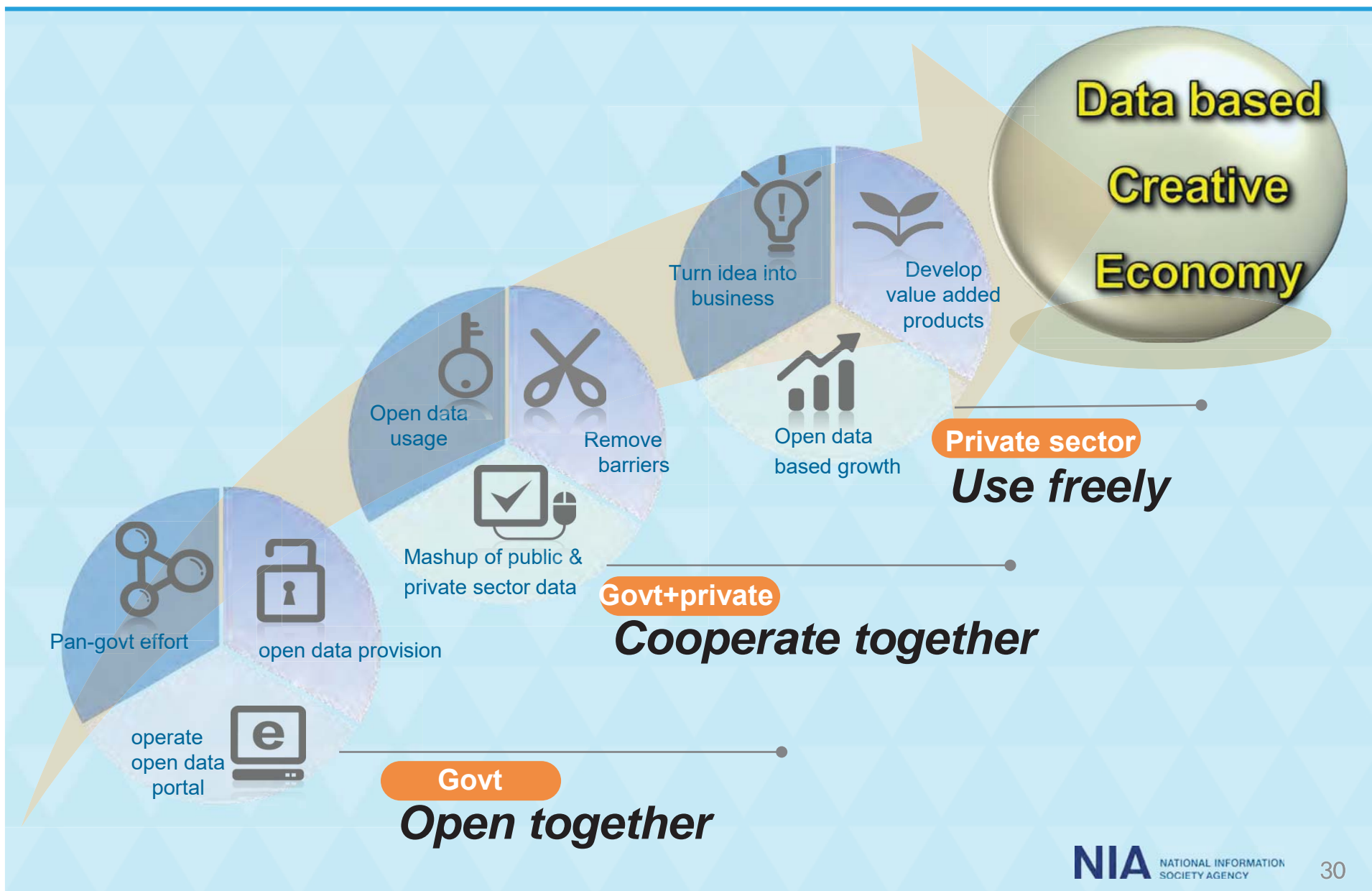
Analysis of floating population/commercial area/IoT data of Jeonju Hanok Maeul

► Establish customized tourism policy



IV. Wrap Up

Realization of Data based Creative Economy



V. Future of OGP in Asia Pacific

Propose for the future of Open Government Partnership in Asia Pacific

- * To share opening policy on open data
- * To share best practices of open data and promote cooperation between enterprises
- * Developing an agenda for open data disclosure and use of Asia Pacific
- * Setting up an Asia Pacific open data portal

Share and use open data between Asia Pacific countries

Thank you !

Boo Mann, Choung

Vice president, Department of Government 3.0
Executive Director, Open Data Center
National Information Society Agency

Contact to: cbm123@nia.or.kr