



Digital Gov't System for COVID-19 QUARANTINE & TRACING

Release and Utilization of Open Data

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NIA NATIONAL INFORMATION
SOCIETY AGENCY



— Contents

- 1** Intro : What is Open Data?
- 2** Release of COVID-19 Open Data through Data Portal
- 3** Process for Releasing Sales of Mask Data
- 4** Apps/Web Services Developed to Responding to COVID-19
- 5** Role of Public Sector as Enabler

01 Intro : What is Open Data?

| Open Data

Data created and retained by the government, municipal organization, and public organization available to the public.

| Open Data Governance Framework of Korea



Open Data Strategy Council

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

- Deliberate, coordinate, monitor and evaluate government's major open gov't data policies, plans and their implementation



Ministry of
the Interior and Safety

MOIS (leading ministry)

- Open gov't data master planning & evaluate implementation, create a data infrastructure, release datasets, etc.



NIA (policy and technical supports)

- Operate an open data center, support the release and re-use of open gov't data



Open Data
Mediation Committee

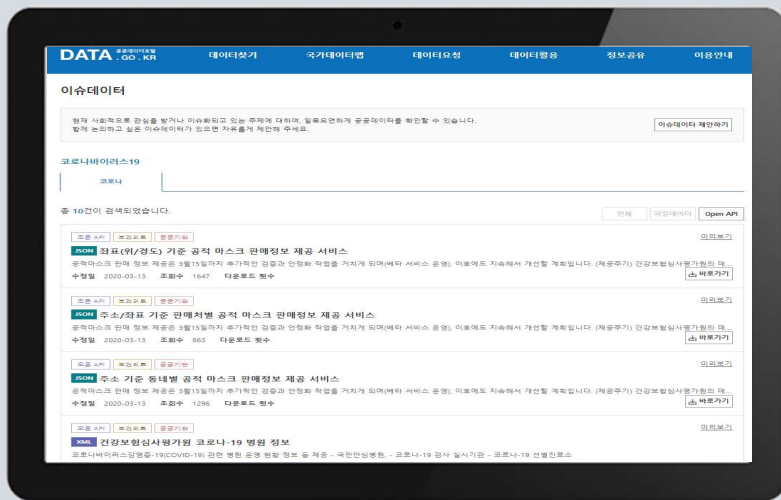
ODMC (mediation of disputes)

- Mediate disputes for release of open gov't data refused or suspended by public institutions

02 Release of COVID-19 Open Data through Data Portal

Government of Korea has released key datasets as issue data through national data portal for its re-use and analysis by private sector

Data Portal



Key Datasets

Overall status

Status of COVID-19 by location, age, sex.
list of screening centers and
national security hospital

Mask data

API format of mask sales data

Public welfare support data

Central/local supporting policies
for economic recovery

Daily life

E-learning materials, public open lectures,
security issues of countries

**“Providing information as DATA is a crucial role for Gov.,
then private use the data to develop useful services quickly”**

03 Process for Releasing Sales of Mask Data(1)

Civic hackers suggested the idea of releasing open data related to COVID-19 through Gwanghwamun 1st Avenue(March.4) and public-private TF was established(March.5)

Gwanghwamun 1st Avenue



Stages

1st Stage (Mar.2 – Mar.9)

Series of meeting with private sector/public, developing ideas, created online community

2nd Stage (Mar.10 – Mar.12)

Release of Mask sales data, operation of help desk, distribution of developing guide

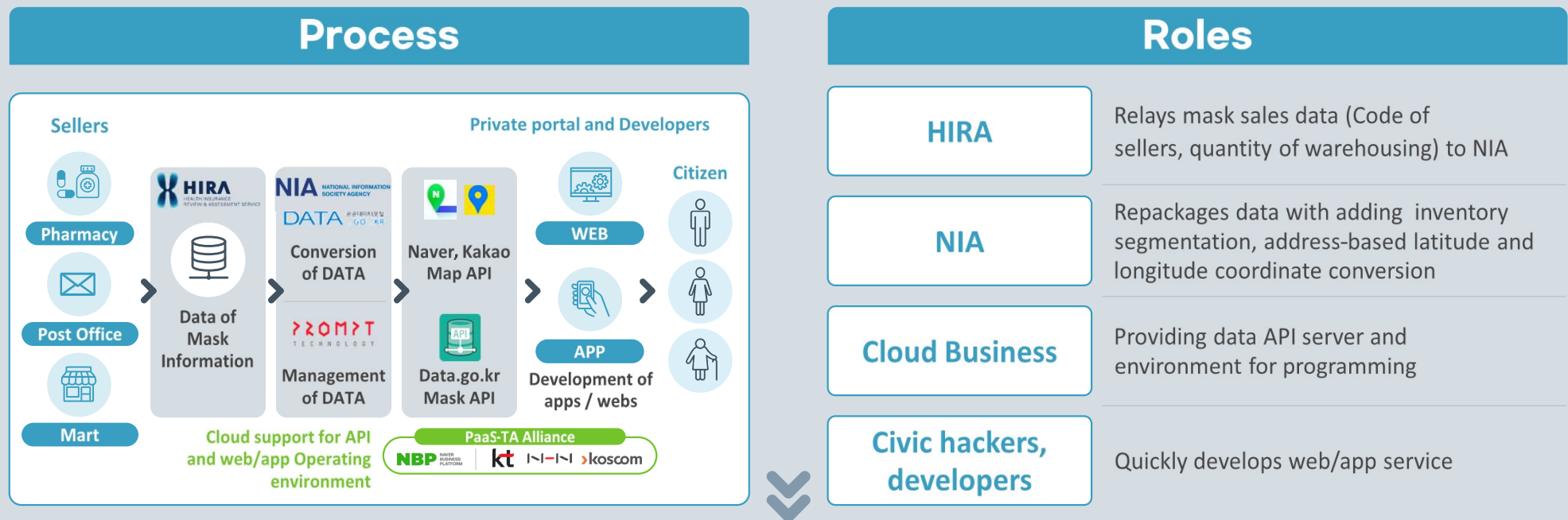
3rd Stage (Mar.13 – Mar.16)

Development and distribution of vulnerable group(elders, disabled) user guide

“Government immediately responded to ideas suggested by private and established P-P-P TF”

03 Process for Releasing Sales of Mask Data(2)

To solve social problems arising from purchase of masks in Korea, Government of Korea has released mask data(Code of sellers, time and quantity of warehousing, number of mask sales) and hit 571,013,946 calls



“ Successful cases of PPP where **all stakeholders** have participated **utilizing capacity of private sector** and professional solutions “

04 Apps and Web Services Developed to Responding to COVID-19

Mask

Utilizing mask data(location of seller and quantity of warehousing displayed in 4 different colors), apps/webs providing **real-time** quantity of mask left in nearby sellers(150 apps/web services)

Mask app
(Good-DOC)



Increase in the % of pharmacies sold out all masks

67.9%



Before



After

92.5%

Decrease in civil complaints

480



Day 1



Day 7

10

04 Apps and Web Services Developed to Responding to COVID-19

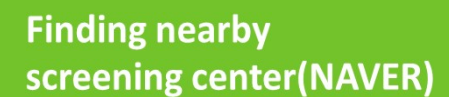
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Utilizing data of screening centers(including drive-thru), app/web provides information(operation time, telephone number) of nearby screening centers

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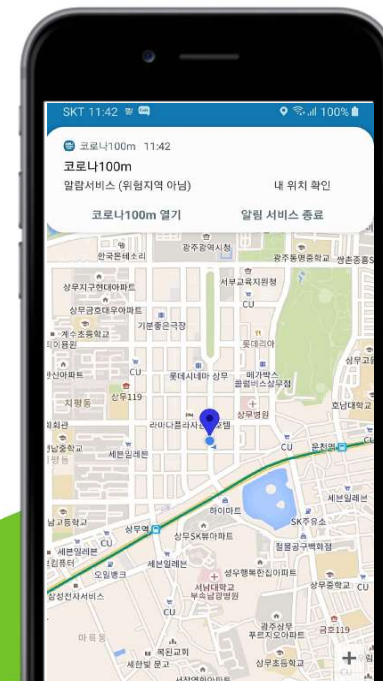
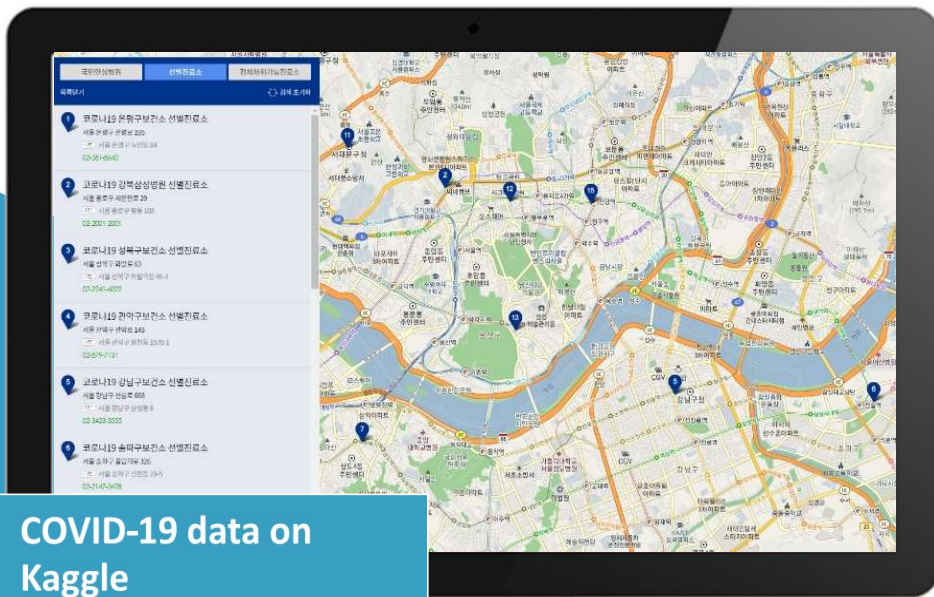
04 Apps and Web Services Developed to Responding to COVID-19

Overall status

Utilizing data of confirmed cases, developers and IT companies repackaged the data by adding geographic information, sharing on global platform Kaggle for AI research

Movement path

Utilizing data of movement paths of infected patients, apps providing visit record whether confirmed patients visited or not, or notifying the area where confirmed patients visited



Checking path of confirmed cases app (Corona 100m)

05 Role of Public Sector as Enabler



Release and share on the basis of IT Infrastructure

- **(Data portal)** Utilize the portal where citizens and developers use easily
- **(Cloud-based sharing Platform)**
Inauguration of consultative group of local cloud business named 'PaaS-TA'



Collaborating process within Gov.

- **(Systematic process of Data release)**
Selection and release of high-demand, high-value core data for new industry
- **(Community of data skilled human resources)**
Consists of data skilled workers of central government



Collaborating process within Gov.

- **(ODF)** Communication platform for public-private-partnership
- **(Join project for starting biz)** Supporting data business
- **(Open community for open data)**
Consists of 5 groups (Government, Public organization, Private sector, Civil Society, Students)

Thank You

