

Response to COVID-19 with ICT

April 28, 2020

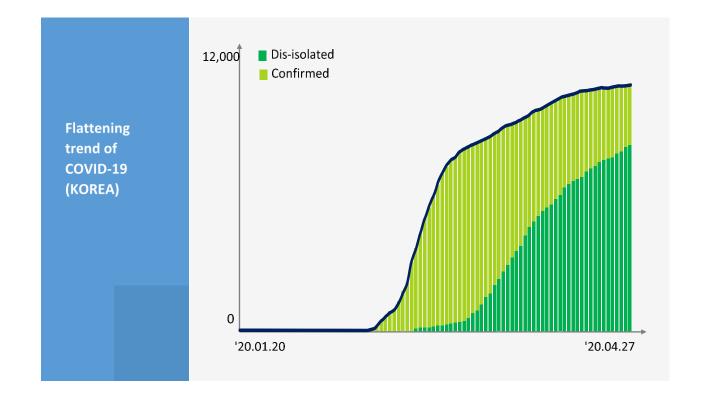






COVID-19 Situation in Korea

- Korea's COVID-19 cases per day reached a peak of 909 on Feb. 29
- The number of new cases per day dropped to around 10 as of now





Test Kits Development













Seegene started focusing on coronavirus.



The first version of test kit was made available.



The test kit was **approved** by the KCDC.

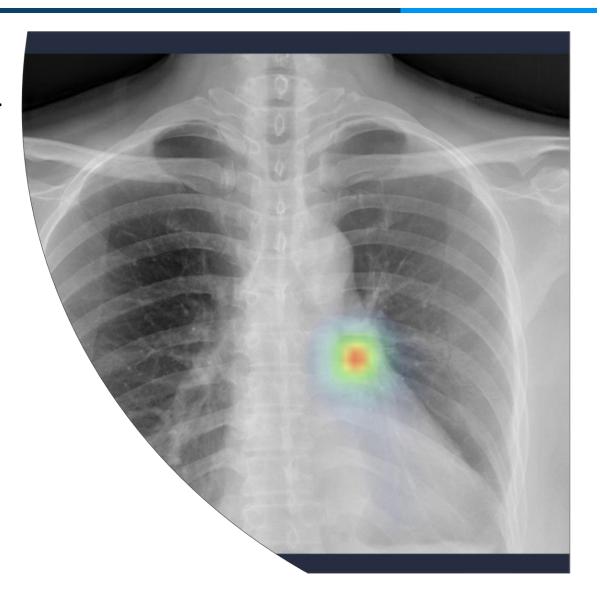
An artificial intelligence-based big data system made possible to develop a test kit quickly. It would have taken 2-3months without the Al system

The normal process for approval would take a year and a half



Al-Assisted Diagnosis

- Detect abnormal lung conditions of COVID-19 patients in just a few seconds
- Connected to portable X-ray equipment in COVID-19 screening centers or ambulances





Self-quarantine Safety APP

[Installation]

- Voluntary-based for residents in Korea
- Required at entry since April 1

[Registration]

personal information and location data

[Self-diagnosis]

- Submit selfdiagnosis reports twice a day

[Case Officers Notified]

- When subjects become symptomatic or leave the designated location



Epidemiological Investigation Support System

COVID-19 SMS * Paperwork and contacts needed amongst 28 organisations supporting KCDC have been replaced with the automatic system Before application After application **Analysis** on the movement of confirmed Manual analysis Automatic analysis cases by officials via system (taking 24 hours) (less than 10 minutes) Management of access to personal information Inefficient management Efficient management by hand-written records by computerised records Coordination between organisations Overloaded work Real-time information interchange and delayed contact

<Privacy Protection>

- Access control
- Minimum data collection
- Activities of each user under strict surveillance
- Temporary operation
- All data to be deleted after
 COVID-19 is over



ICT Infrastructure Emergency Response

- Communications infrastructure
 - Staggered shifts for key facility management staff
 - Emergency backup team in case of a workforce shortage
 - Remote network operations in case of shutting down

- Preparation for traffic surge
 - Call capacity of KCDC's COVID-19 hotline increased
 - Call capacity of home shopping channels increased
 - EBS servers and IXP capacity increased





Support for Remote Learning/Working

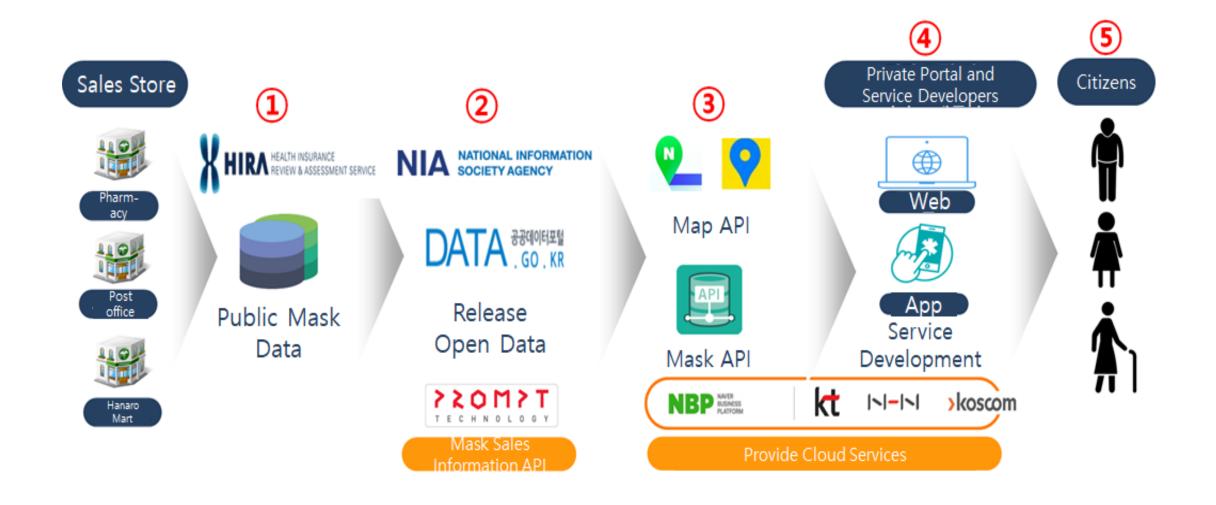
- Remote Learning
 - 8.4 million students(elementary, middle, high school and university)
 - EDISON (Online simulation platform)
 - Zero-rating for educational web sites

- Remote Working
 - A website providing information about remote working solution companies





Publicly Distributed Mask Info Service





Financial Supervisory

Response To Telecom Scams

- Alert SMS to prevent smishing on a regular basis
- Phishing prevention app; mobile antivirus software
- Phone numbers used for phishing will be immediately suspended upon the report of the scam cases



using fake COVID-19 guidance SMS

If you received a suspicious SMS,

- Don't click on suspicious telephone number and internet address(URL) in the SMS

[Normal SMS(example)]

[Abnormal SMS(example)]

[MOIS] Please maintain enhanced personal hygiene measures, such as wearing a mask and frequently washing your hands to prevent the spread of COVID-19

[Web] Rapid spread of COVID-19. Go to check the identity of confirmed and the contact people news.naver.com.

(Gyeonggi Provincial Office) Please refrain from attending religious events including c hurch services, Buddhist or Catholic servic es, as well as a variety of other large gathe rings (Call #031-120).

[Web] a confirmed patient contacted with a large number of people at the http:///pDX Go and check the rest area

Data: National Police agency

※ KCDC(☎1339), HIRA(☎1644-2000) may call or send SMS to prevent the disease, but hang up if you were requested money or installation of an app.

If you were requested installation of an app.

 If a malicious app was installed, account number. personal information may be leaked.

Therefore don't install a suspicious app

- Never enter the password even if app was installed
- If you already remitted,
- Request immediate suspension of account payment to the bank(customer center) or police (☎182) or FSS(☎1332)









Putting best efforts together...

- COVID-19, A big threat to all humanity
- ICT, an effective tool to fight against pandemic
- With ICT and international collaboration, hope to overcome the pandemic shortly

For more information, visit https://www.msit.go.kr/english/msipContents/contentsView.do?cateId=tst60&artId=2832048 (How Korea responded to a pandemic using ICT, Flattening the curve on COVID-19)

Thank You

