

Experiment about COVID-19 Verifiable Credential for Vaccination in ROK

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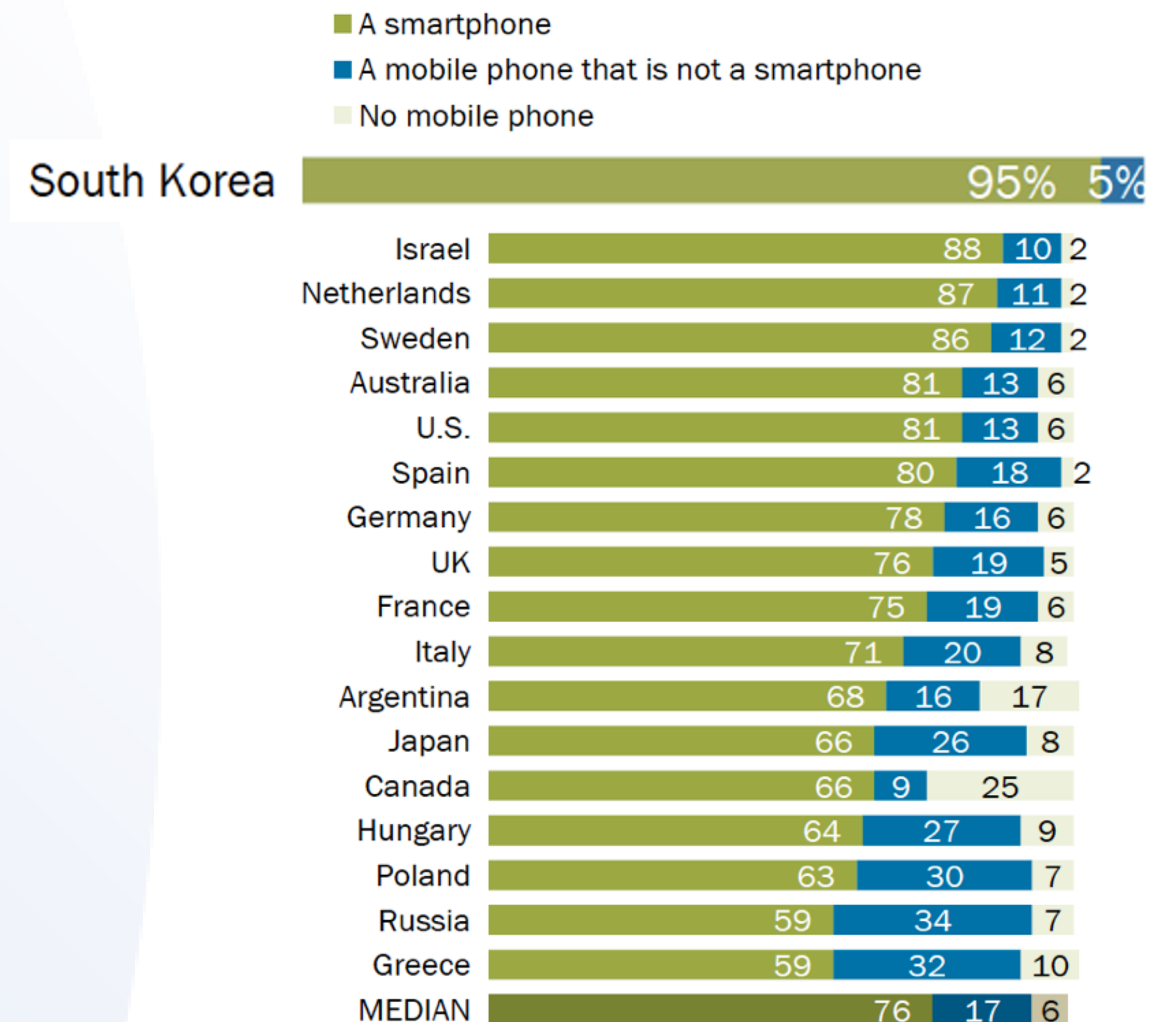
Korea Disease Control and Prevention Agency



A Need for Vaccination Certificate System

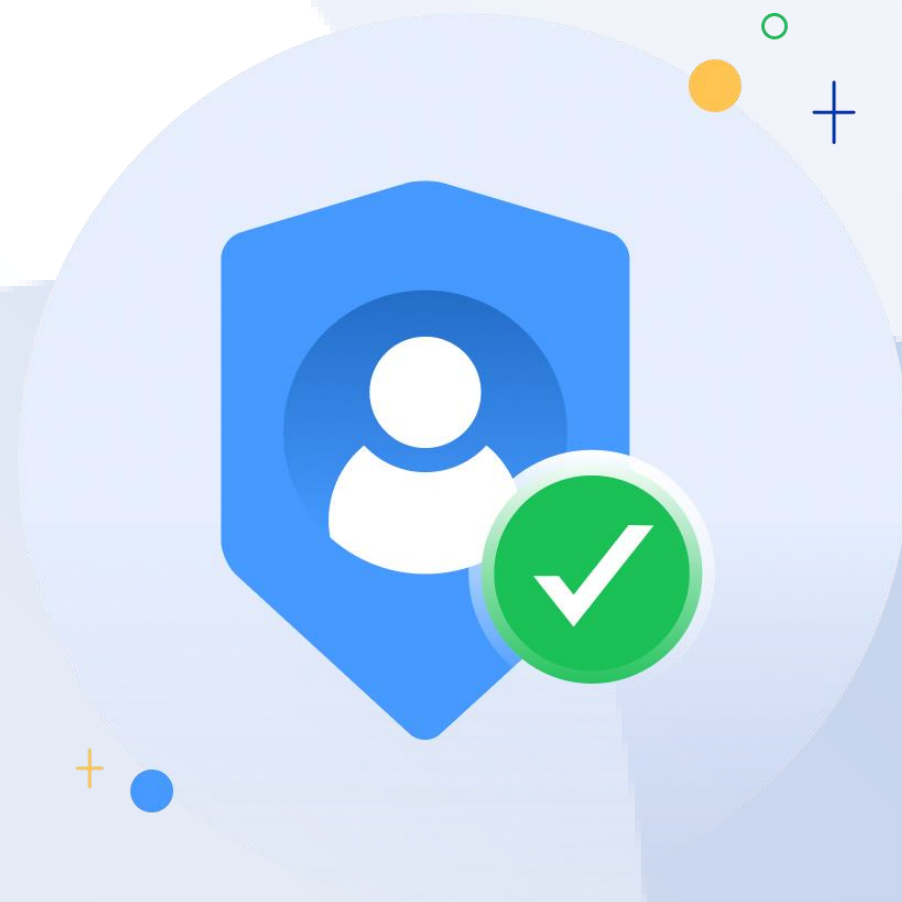
- A system to verify individual's COVID-19 vaccination records is needed
- Empowering the global efforts to overcome COVID-19
- Mobile system to complement paper-based vaccination certificate

% of adults who report owning ...





What is goal



**Complete
Privacy
Protection**



**Verify
Digital
Credentials**



**International
Compatibility**



Last Webinar...

- Shared Experience about COOV
- How to completely protect privacy using Blockchains
- Multi-purpose Credential Verification





CooV Technology

- Highly scalable government blockchain
 - Proof of Transaction(PoT) → Up to 2000TPS & No Native Cryptocurrency
- Global interoperability
 - First decentralized identity issued by government for most of the Koreans
 - At least 32M people have KDCA's public DIDs
- International Compatibility
 - Ready to VTL with other countries(possible for participating in multi-issuer)



How COOV works

Issuing the digital credentials



Vaccination Institutions

Record vaccination Information



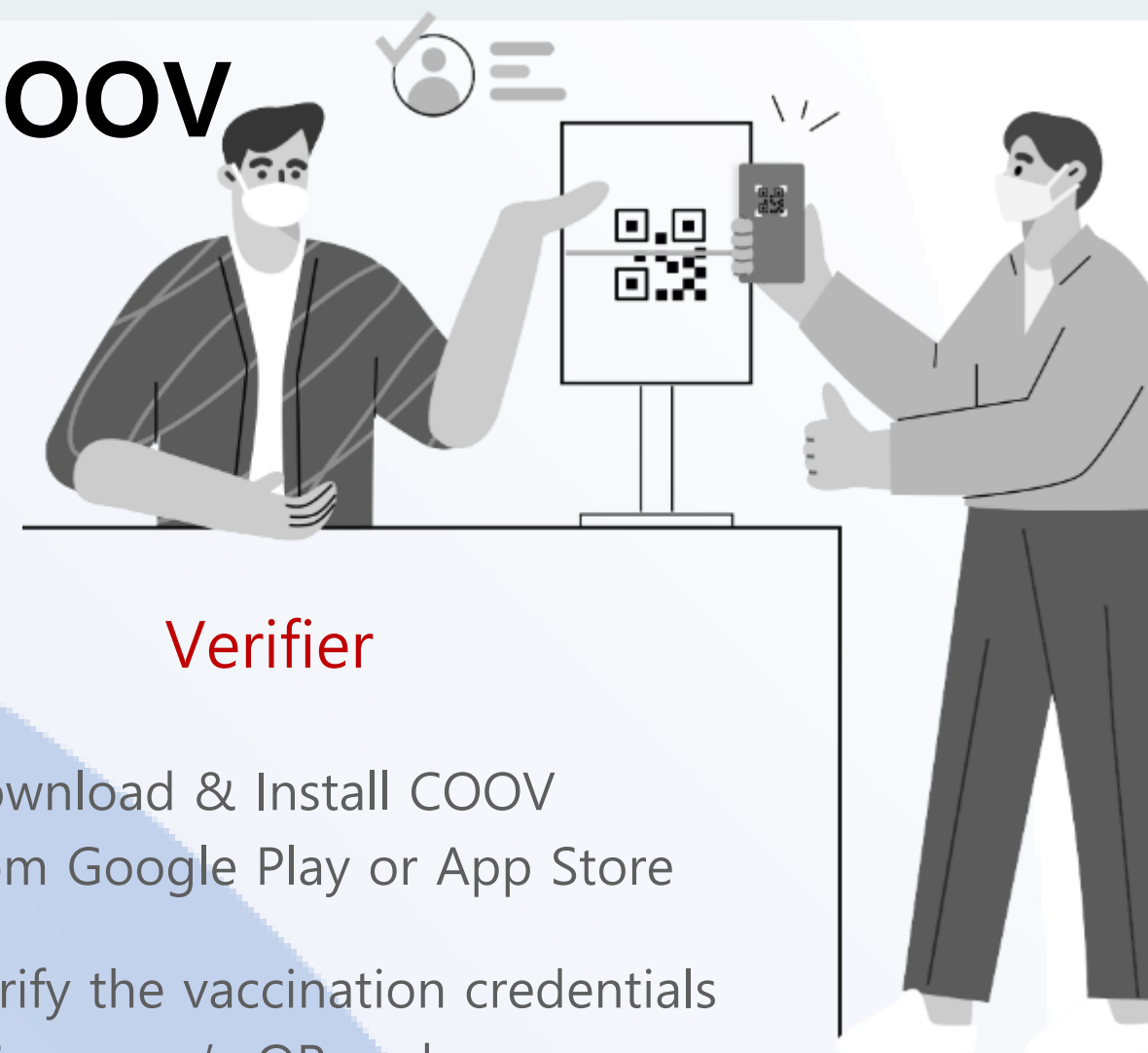
KDCA(Issuer)

Issue the digital vaccination credentials



Vaccinated Individual

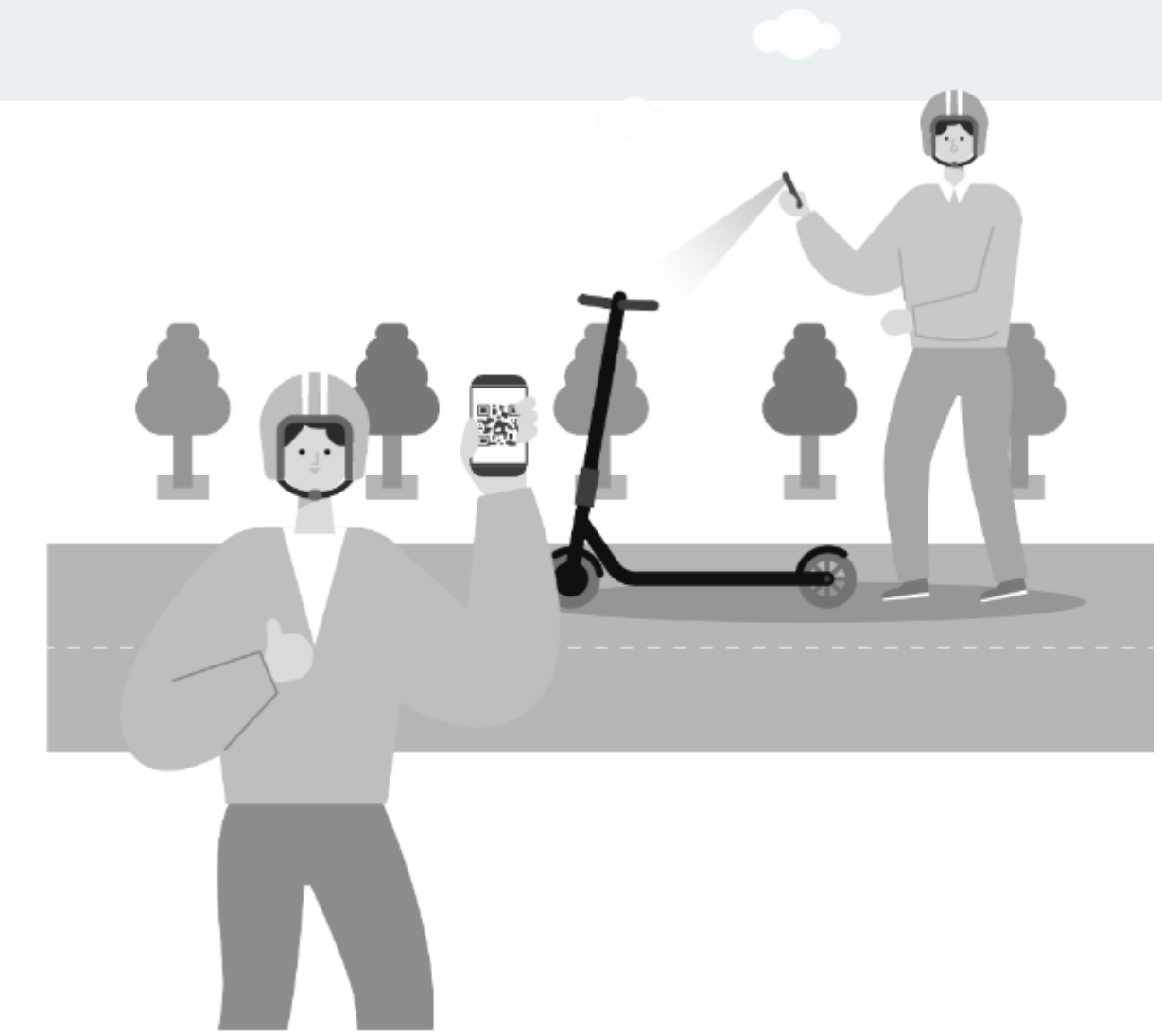
Using COOV



Verifier

- Download & Install COOV from Google Play or App Store
- Verify the vaccination credentials - Scan user's QR code

User



- Download & Install COOV from Google Playstore or App Store
- Receive the COVID-19 vaccination credential
- Present the credential QR code to an interested party

※ Users can access public places like airports, sports centers, hotels by presenting the QR code. And the credential allows users to be exempt from quarantines, and to hold private gatherings with more than 5 people



Trace of Experiment #1

- COOV is launched on April 15th, 2021
 - Vaccinated Koreans can download app and certification
 - They can verify someone else's credentials by scanning their QR-code
- Ex) Vaccinated Koreans can take a vacation(4 hours) when he vaccinate, and they can prove submitting QR-Code to their boss



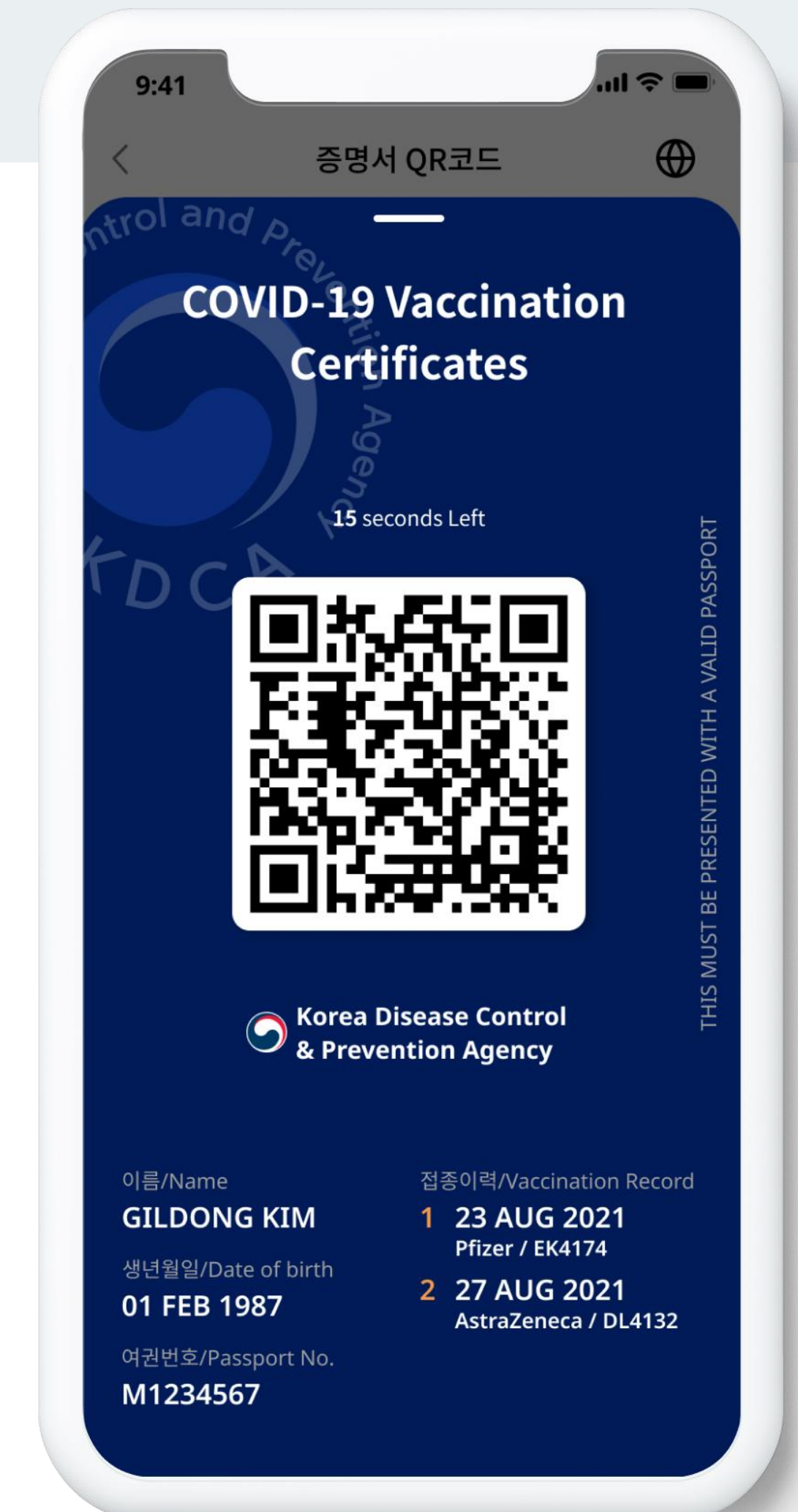
Trace of Experiment #2

- Vaccine Pass(Nov. 2021 ~ Feb. 2022): QR Check-in X COOV
 - Integration of visitors' access record services ran by 6 the most popular IT platforms in ROK
 - Government is planning incentives to those who are vaccinated(would support as the validation system)
- Verifying up to..
 - 1.2K times per second / 1.3M times per day



How to Respond to overcome COVID-19 #3

- EU DCC : International Certification
- Ready to finish operation
- In this year, Disease Class of COVID-19 is changed from 2 to 4
- COOV will be unoperated simultaneously





Winnings of COOV

- Innovation Contest Winner of the year(2021)

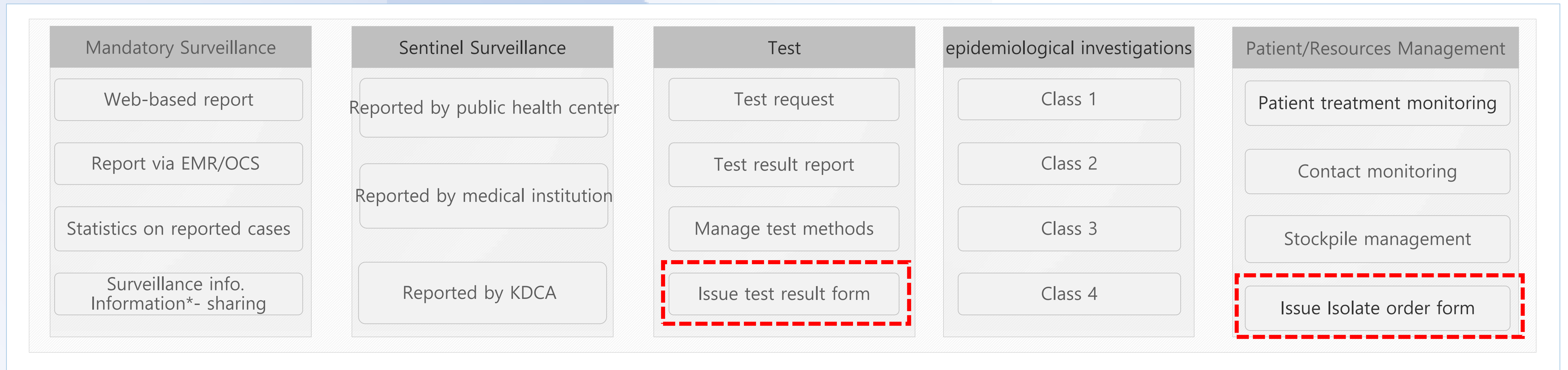




About Future System

- Being operated by KDCA to computerize infectious disease response from prevention, control and treatment

Disease Management Integrated Information System(Function)



Thank you

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