

Mobile ID Services in Korea

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➤ Identity Card

- Driver's License

- 
- Passport



2. Current Digital ID Services

➤ Background

- ✓ It has become possible to buy desired items **without a wallet**.
- ✓ Recently, as the limitations of real identity have been re-ignited and personal information protection and **data sovereignty have emerged**, discussions on mobile ID cards based on DID technology have been conducted.

➤ Why mobile ID?

- ✓ As the demand for **non-face-to-face** services increased due to the spread of covid-19, the need for new authentication methods to replace physical identification cards in digital has gradually emerged.
- ✓ In the case of existing online financial services, it is necessary to confirm the real name and have limitations such as having to obtain separate certification for identification.
- ✓ Existing ID cards contain important personal information, so sensitive information is exposed during the confirmation process, and the **possibility of information leakage** and theft has been steadily raised when lost.

2. Current Digital ID Services

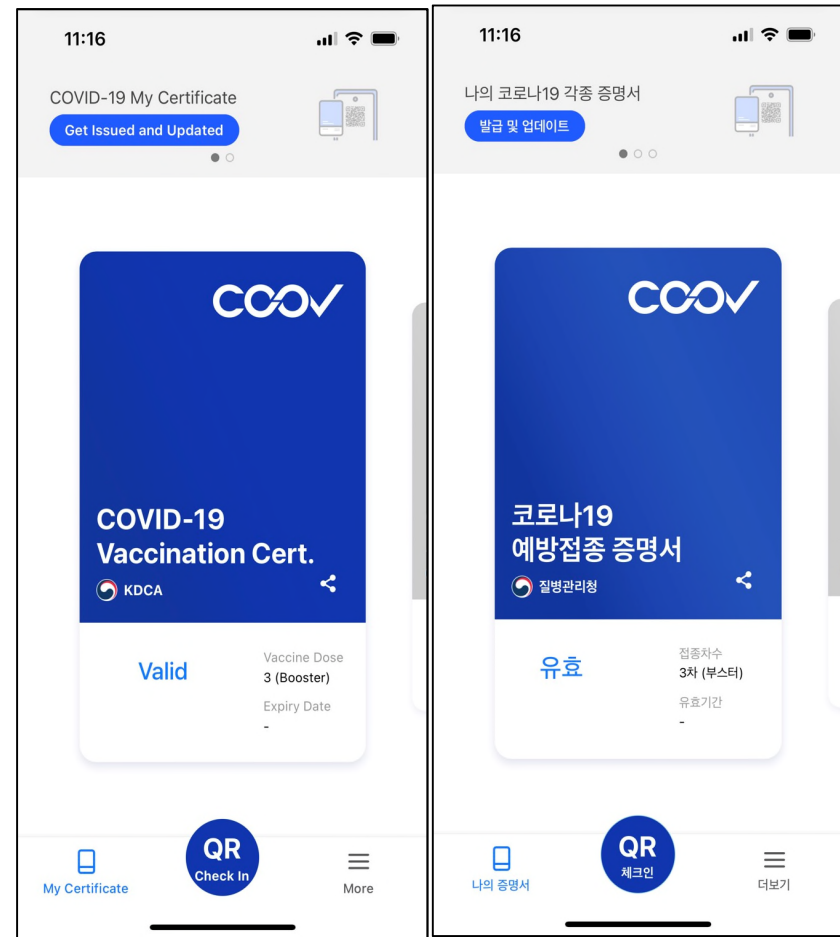
- ✓ The need to disclose personal information and guarantee **self-sovereignty** in each country has emerged, and the demand has increased so that they can certify themselves and manage their data without brokers such as the state and trust organizations.
- How will it be used for mobile ID?
 - ✓ KISA introduced DID-based mobile identification cards for the first time as a public institution, and is also being implemented by **KFTC and NH Nonghyup Bank** in the private sector.
 - ✓ Ministry of Public Administration and Security(行政安全部) plans to expand the scope of issuance of ID cards from the second half of 2021, starting with the introduction of **civil servant certificates(公務員證)**, **driver's licenses and registration cards for the disabled**.

※ KISA : Korea Internet & Security Agency

※ KFTC : Korea Financial Telecommunications & Clearings Institute(金融決済院)

2. Current Digital ID Services

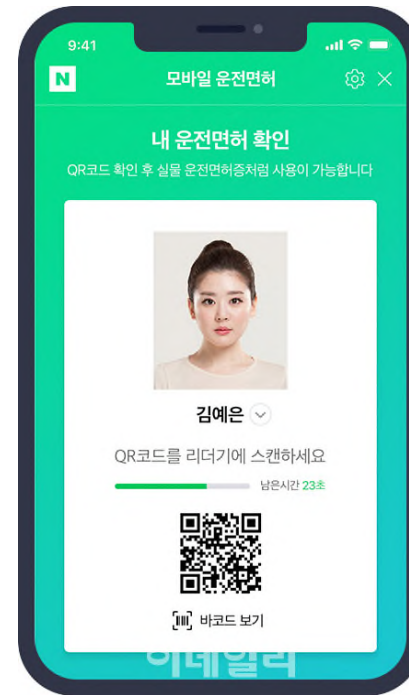
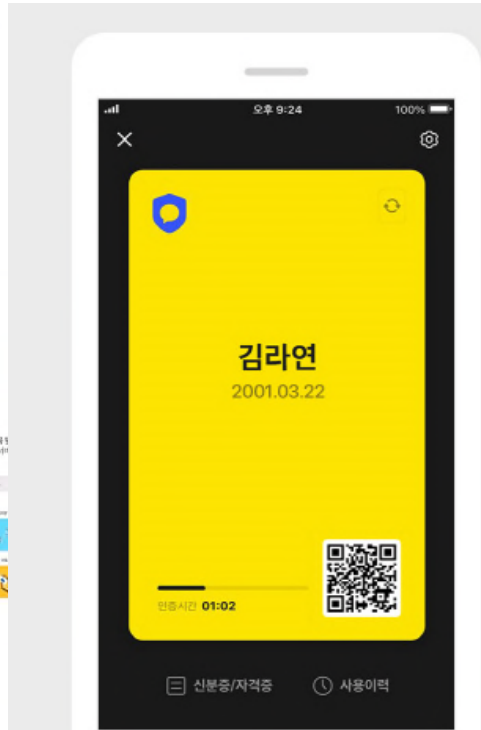
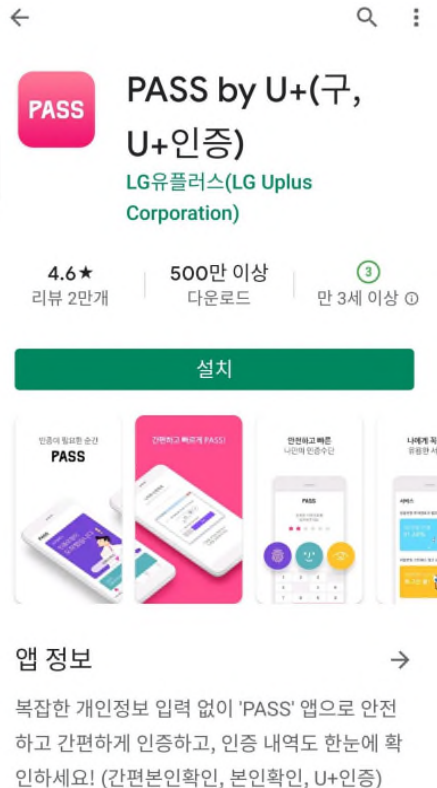
- COOV : COrona OVercome
- It is the world's first **blockchain-based Corona 19 digital vaccination certification app** developed by the KDCA and Blockchain Labs Co., Ltd.
- Blockchain technology makes it **impossible to forge and alter digital certificates**, and it **does not leave a record on any server** when authenticating certificates, so it can protect sensitive personal information perfectly.
- The Korean, English version of apps are available and additional language-versions are developing .



※ KDCA(疾病管理廳) :
Korea Disease Control and Prevention Agency

2. Current Digital ID Services

- A **financial certificate** is an online seal certificate that can replace your identity online.
- Through this financial certificate, various official documents can be issued by public institutions, and financial institutions such as banks can also view various banking services.



3. Plan of Digital ID Services by Government

- Ministry of Public Administration and Security(行政安全部, 2021. 7. 28.)
 - ✓ It will promote the project to build a 'mobile registration card mobile confirmation service' that can confirm the identity through smart phone even if it does not have a resident registration card from the first half of 2022.
 - ✓ This service provides a function to show the contents of the resident registration card such as name, resident registration number, address, issuing agency_through the smartphone and confirm the authenticity of the service, thereby reducing the inconvenience of having a resident registration card.
 - ✓ In particular, the Ministry of Public Administration and Security explained that there is no concern about personal information leakage because it does not store the resident registration card in the smartphone and receives encrypted information in real time from the resident registration system.

※ <https://www.yna.co.kr/view/AKR20210728068100530>

3. Plan of Digital ID Services by Government

< 본인확인 및 서비스 선택 >



정부24 실행 후
공동인증서,
휴대전화인증,
간편인증 등을
통해 본인확인



주민등록증 모바일
확인서비스를 통해
본인의 주민등록증
수속사항 확인 또는
타인의 주민등록증
진위확인

< 수속사항 확인 >



본인확인시스템에서
신분확인번호
(QR코드) 수신
(1분유효)



내 주민등록증
(홍길동) 정보를
화면에 표시

< 진위확인 >



카메라로 다른
사람의
신분확인번호
(QR코드) 스캔



본인확인시스템을
통해 카메라로
인식한
신분확인번호
(QR코드)를
조회하여 진위확인

3. Plan of Digital ID Services by Government

➤ Mobile License Demonstrated in January of 2022

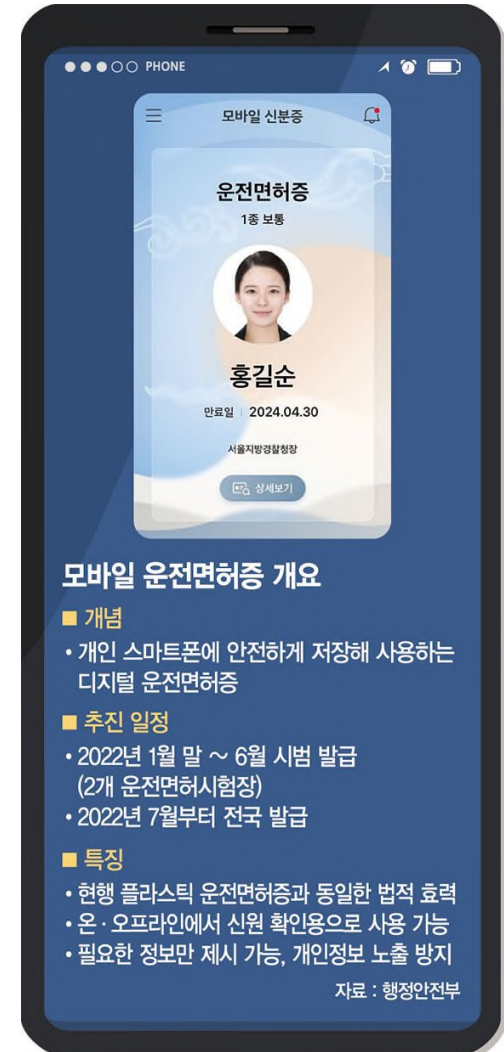
- ✓ They will pilot mobile licenses at two local governments nationwide at the end of January, 2022.

- ✓ <http://www.newswatch.kr/news/articleView.html?idxno=58027>

- ✓ Government mobile driver's license service is implemented based on **blockchain DID technologies**.

※ <https://www.fnnews.com/news/202112141743059132>

※ <https://zdnet.co.kr/view/?no=20210713164907>



4. Conclusions

➤ Concern

- ✓ The voice of concern about information leakage is also growing.
- ✓ Also, the terminal that recognizes when using the mobile ID card can be hacked and the difficulty of identifying the identity in case of an emergency such as fainting.

➤ Countermeasure & Promotions

- ✓ It applied the concept of self-sovereign identity to minimize concerns about privacy violations while using of ID cards.
 - ✓ The history of using ID cards is stored on a personal smartphone so that you can check it, and it is not stored on the central server.
 - ✓ The DID technology that realizes the self-representation of identity encrypts personal information for identity verification and stores it in block units.
- ✓ Mobile ID cards should be promoted in consideration of technology standards and cooperation between countries so that global linkage can be made not only in Korea but also in the country.

Thank you!!!!



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