

G20 Health Working Group & Indonesia's Implementation of DIVOC and EU DCC

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Co-Chair Health Working Group 1 G20
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G20 Health Working Group Priorities and Focus

Priority Issues

Programs

1. Building global health system resilience

a. Financial resource mobilization for pandemic prevention, preparedness and response.

b. Essential health resource mobilization for pandemic prevention, preparedness and response.

c. Optimization of Genomic Surveillance and Strengthening Trusted Data Sharing Mechanism to Provide Incentives for Robust Global Public Health

2. Harmonizing global health protocol standards

a. **The establishment of a global framework** facilitated by trust network for federated public trust directory, **to ease the verification COVID-19-related proof of vaccination against COVID-19 at Point of Entry**

3. Expanding global manufacturing and research hubs for pandemic prevention, preparedness and response

a. Expansion of global manufacturing hubs for vaccines, therapeutics, and diagnostics to developing countries.

b. Sharing of knowledge for prevention, preparedness and response to health crises.



Challenges during the Covid-19 Pandemic



228 Countries and Territories around the world have reported a total of **614,340,615 confirmed cases** of the coronavirus COVID-19 and **a death toll of 6,518,142 deaths**



UNWTO reported that International tourism arrivals for the years of 2020 and 2021 were respectively **73%** and **72% below** the value observed in 2019

Affecting many sectors, including:



Trade



Tourism



Education



Economy

Source : Worldometers

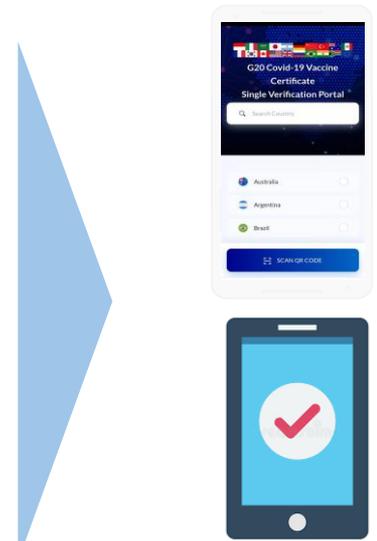
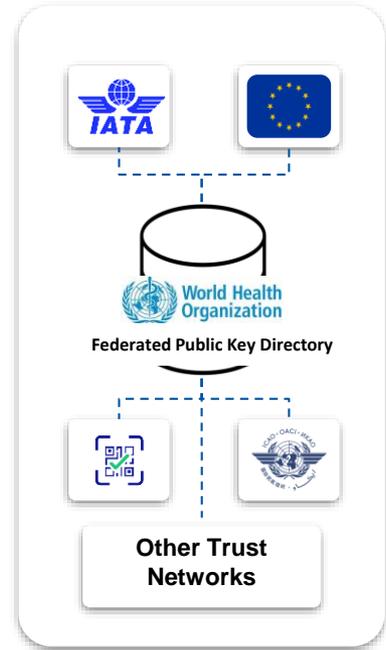
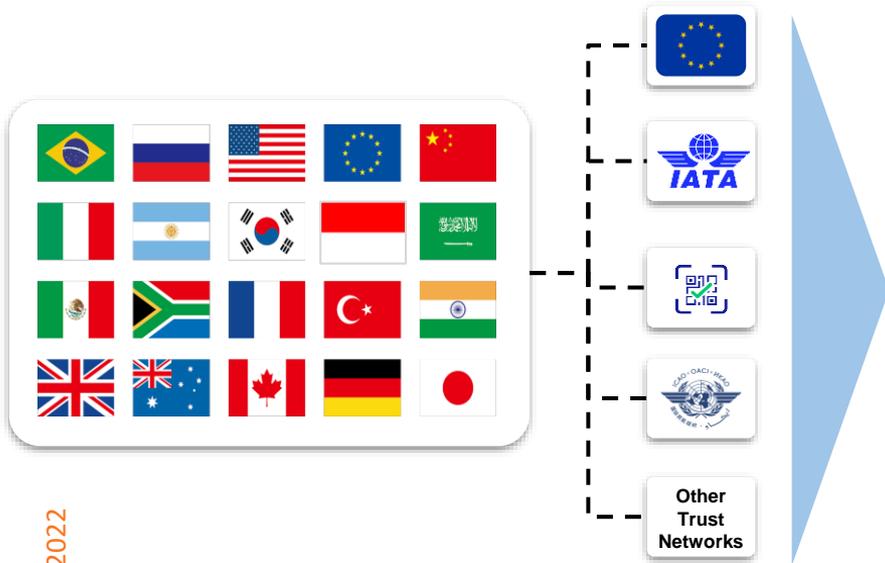
Background on the need for recognition of health documents related to COVID-19 for G20 countries:

- 1** Lack of Standardization on Covid-19 Test & Vaccine Certificate that is required for travel document across border
- 2** Countries have **different implementation of WHO Digital Covid-19 Certificate Guideline**
- 3** Countries have **different verification mechanism** for Digital Covid-19 Certificate
- 4** **Digital COVID-19 Certificate are not universally recognized** because Formal Agreement Needed

Thus, there is a **need for the mutual recognition** of digital covid-19 certificate in G20 countries



G20 Federated Public Trust Directory



Verifier Apps based on Federated Public Trust Directory

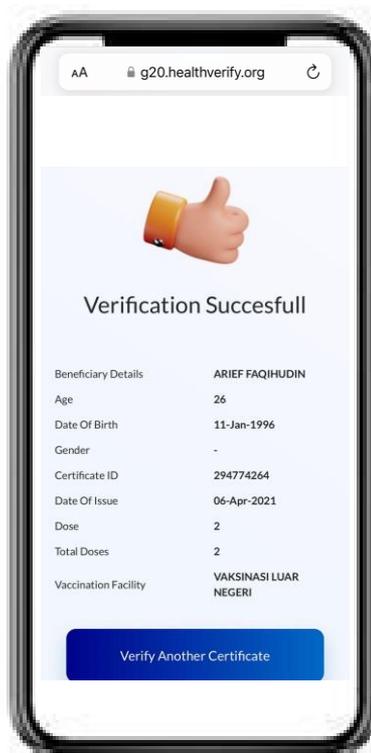
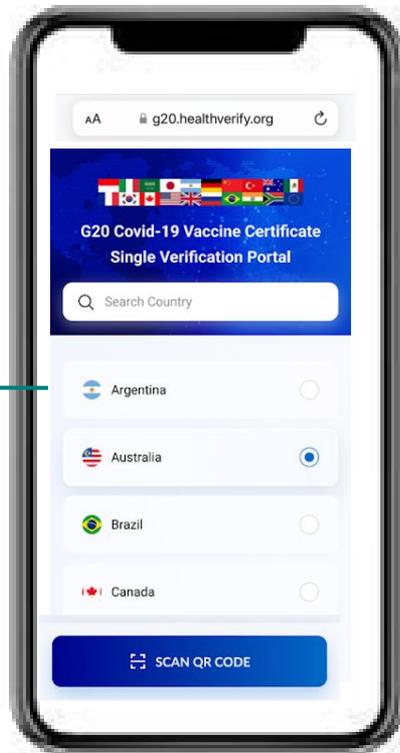
G20 countries has **different Trust Networks** (IATA, ICAO, EU Green Cert., Common Trust Network, etc)

Federated Public Trust Directory: Where different trust networks are harmonized to verify vaccine certificate or health documents which will be facilitated by WHO

Use of Federated Public Trust Directory for apps to verify vaccine certificates or health documents is ready to verify all QR codes and digital health documents for safe travels

Example of Usage of Public Key - Private Key Verification Scheme for G20 Countries

Through Federated Public Trust Directory, countries can use Public and Private Key Verification Scheme which is integrated with the gateway for verification of vaccine certificates



- 1 **No new standard** for QR code for digital Covid-19 health document
- 2 **No need to change** the country digital vaccine existing system & QR code.
- 3 **Privacy & security**, using public key scheme
- 4 **No any data exchange**, the output is data validation only
- 5 Open source and possible adjustable for the **wider applicability** and Vaccine Preventable Diseases

Future Usage



Establish **trust of digitally signed clinical algorithms** published by WHO through the SMART Guidelines work.



Allow for a **global product catalogue** of trusted medical products and devices.



Ensure information about a patient can **be accessed and trusted regardless** of where you are in the world.



Support **health systems resiliency** to address future outbreaks in a globalized economy.



Empower individuals to manage their own health and well-being; enabled by a personal digital record using IPS - international patient summary.



Prevent the digital divide from increasing - if WHO is not at the table, inequities would only increase as we have already seen.

In addition to verifying and validating COVID-19 certificates, a global digital health trust network can do the following

(Source: World Health Organization)



Progress for Health Working Group 1

Collaboration with WHO, OECD, GDHP, and ICAO

Session	Goal
G20 Health Working Group 1 Meeting 28-29 March 2022	<i>To share national experiences and best practice in implementing policy and mutual recognition for future provision and prevention. Ensuring swift and safe travel during the pandemic</i>
Weekly Technical Working Groups between G20 Countries, invited countries, and WHO, OECD, GDHP on Federated Public Trust Directory 5 April 2022 - on going	<i>To achieve harmonization amongst countries for seamless travel experience by using Federated Public Trust Directory</i>
1st Health Ministers Meeting 20-21 June 2022	<i>Alignment on the health priority issues, and pave the way for the agreement on the best course of action in dealing with the current global health challenges on interoperability and safe travels.</i>
High Level Meeting on Safe International Travel Spain, 7-8 July	<i>Political commitment on interoperability for seamless travel experience</i>
1st Connect-a-thon for G20 Pilot Project on Federated Public Trust Directory 20 July 2022 and will be followed by 2nd phase of Connect-a-thon	<i>Testing the interoperability mechanism and identify the requirement for testing and success indicator by using manual mechanism</i>
Weekly Technical Working Group between G20 Countries, invited countries, and WHO, OECD, GDHP: Discussion on Business Rules 2 August 2022 - on going	<i>To achieve alignment on business rules amongst countries</i>
2nd Connect-a-thon for G20 Pilot Project on Federated Public Trust Directory October (TBC)	<i>To achieve interoperability mechanisms between existing trust networks through automated mechanism</i>



Director General of WHO, Tedros Adhanom Ghebreyesus, with Minister of Health Indonesia, Budi G. Sadikin



Director General of WHO, Tedros Adhanom Ghebreyesus during 1st Health Ministers Meeting , trial Universal Verifier and Federated Public Trust Directory on Yogyakarta, Indonesia, 20th - 21st of June 2022

INDONESIA'S IMPLEMENTATION OF DIVOC AND EU DCC

PeduliLindungi Application

Indonesia's Super App for handling COVID-19

- 1 SCREENING**
Scan the QR Code to do digital screening and tracing. Including collaboration with more than 80 applications (**KMK No. HK.01.07 Menkes-5680-2021**)
- 2 ELECTRONIC HEALTH ALERT RECORD**
eHAC is expected to be a supporting tool for the Indonesian government to minimize the risk of transmission of COVID-19 by travelers.
- 3 COVID-19 TESTING**
User PCR/Antigen test results are directly connected to the laboratory input system via NAR
- 4 VACCINATION**
Vaccine Tickets (including Boosters), Nearest Vaccine Locations and Vaccine Certificates are integrated with PCare and KPCPEN systems. Includes WHO and EU standard vaccine certificates.
- 5 AVAILABILITY OF HOSPITAL BED**
Connect with SIRANAP to find out the availability of hospital beds in real-time
- 6 TELEMEDICINE**
Integrated with Isoman services by displaying a list of 17 Telemedicine Service Providers in collaboration with the Ministry of Health.
- 7 DIGITAL TRACING**
A contact tracing feature that utilizes Bluetooth signal exchange at close range to anonymously identify close contacts.

> 100 M

Total users

8 M

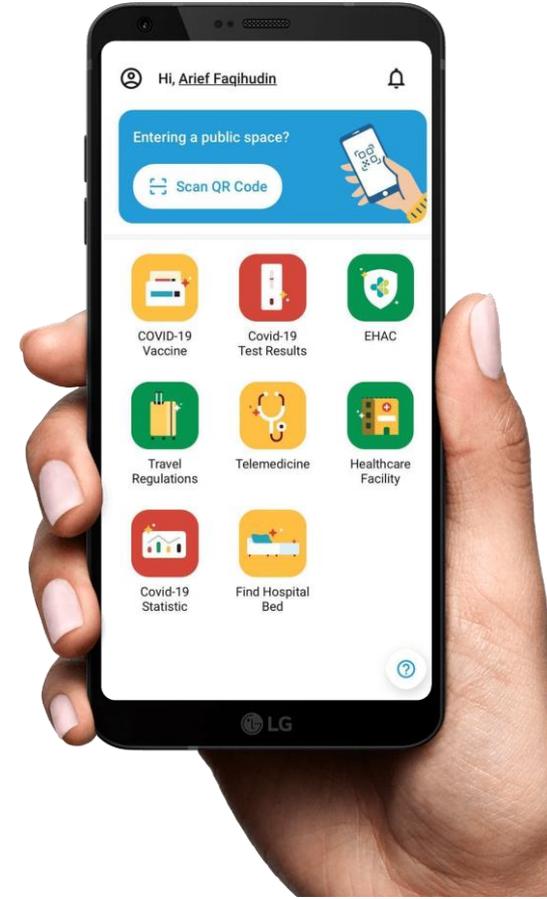
Average DAU

> 400 K

Average sample inputted to Lab System

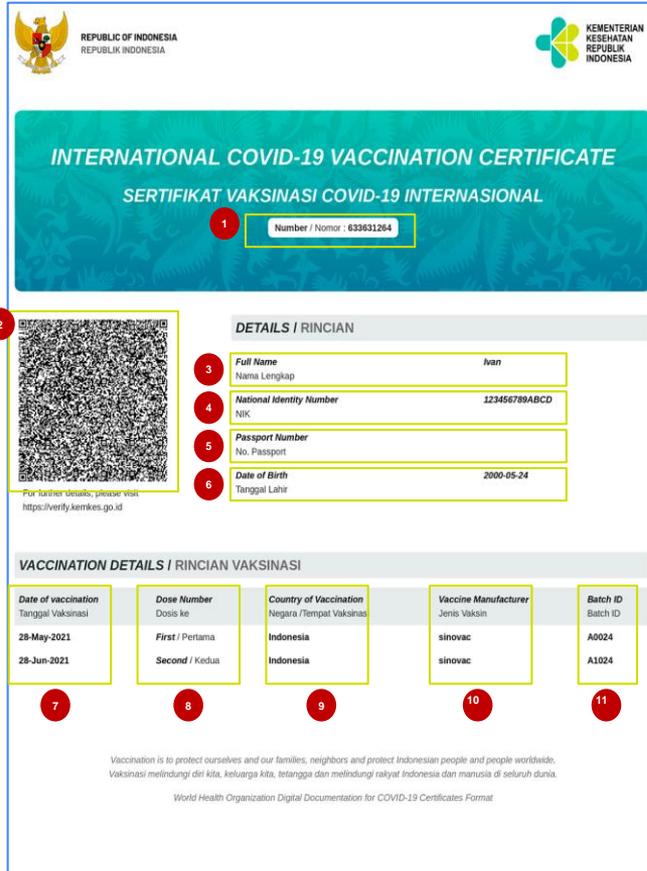
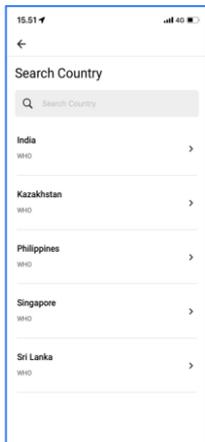
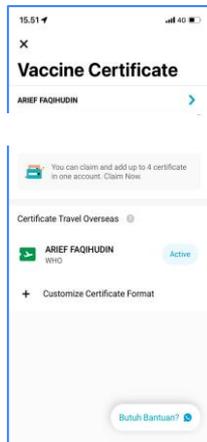
> 1,5 M

Average new users are registered in the Vaccination System every day



International COVID-19 Vaccination Certificate

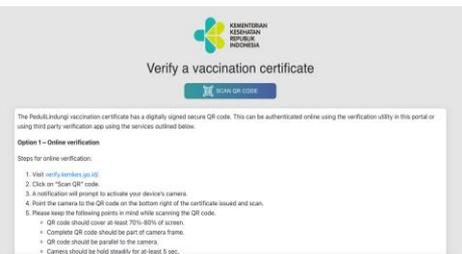
Recognition of Indonesian Vaccination Certificates to other Economies



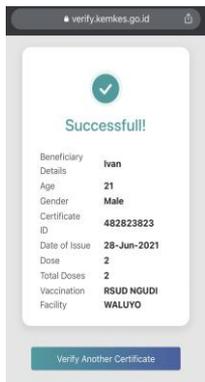
Indonesia has issued an international vaccine certificate (**International COVID-19 Vaccination Certificate**) following WHO standards so that it can be read and recognized abroad including the QR code listed in it.

The following is a detailed description of the International Covid-19 Vaccination Certificate:

1. Owner's unique serial number (numeric characters)
2. QR Code
3. Full name
4. ID number
5. Passport number
6. Date of birth
7. Vaccination Date
8. Dosage Number
9. Vaccination Economy
10. Vaccine Type (Sinovac/ AZ/ Pfizer, etc.)
11. Batch ID



Vaccine Verification Portal
verify.kemkes.go.id



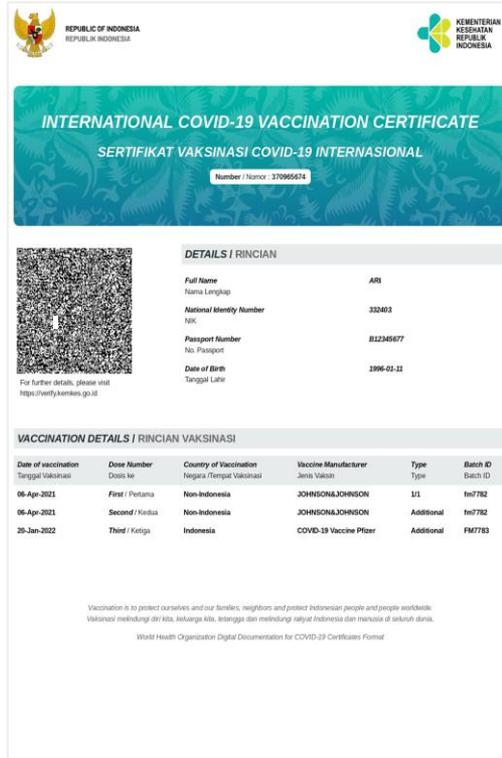
Vaccination is to protect ourselves and our families, neighbors and protect Indonesian people and people worldwide. Vaksinasi melindungi diri kita, keluarga kita, tetangga dan melindungi rakyat Indonesia dan manusia di seluruh dunia.

World Health Organization Digital Documentation for COVID-19 Certificates Format

DIVOC Digital Infrastructure for Verifiable Open Credentialing (DIVOC)



EU Digital COVID Certificate Recognition



INTERNATIONAL COVID-19 VACCINATION CERTIFICATE
SERTIFIKAT VAKSINASI COVID-19 INTERNASIONAL

Number / Nomor: 370965674

DETAILS / RINCIAN

Full Name / Nama Lengkap	ARI
National Identity Number / NIK	332403
Passport Number / No. Passport	812345677
Date of Birth / Tanggal Lahir	1996-03-11

For further details, please visit <https://verify.kemkes.go.id>

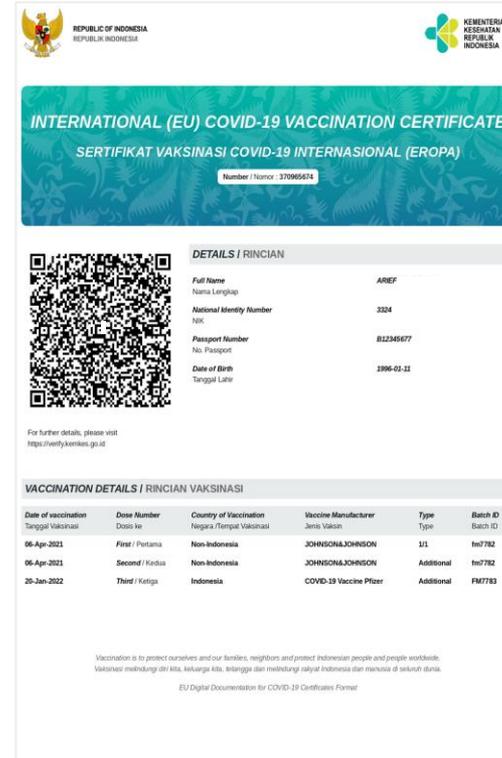
VACCINATION DETAILS / RINCIAN VAKSINASI

Date of vaccination / Tanggal Vaksinasi	Dose Number / Dosis ke	Country of Vaccination / Negara / Tempat Vaksinasi	Vaccine Manufacturer / Jenis Vaksin	Type / Type	Batch ID / Batch ID
06-Apr-2021	First / Pertama	Non-Indonesia	JOHNSON&JOHNSON	1/1	fm7782
06-Apr-2021	Second / Kedua	Non-Indonesia	JOHNSON&JOHNSON	Additional	fm7782
20-Jan-2022	Third / Ketiga	Indonesia	COVID-19 Vaccine Pfizer	Additional	FM7783

Vaccination is to protect ourselves and our families, neighbors and protect Indonesian people and people worldwide.
Vaksinasi melindungi diri kita, keluarga kita, tetangga dan melindungi rakyat Indonesia dan manusia di seluruh dunia.

World Health Organization Digital Documentation for COVID-19 Certificates Format

- Using the concept of Public Key
- Scan using the **verify.kemkes.go.id** portal
- Stored in a JSON format
- It has been built using a microservices architecture with open API integration capabilities and can be hosted on-cloud, on-premise cloud.



INTERNATIONAL (EU) COVID-19 VACCINATION CERTIFICATE
SERTIFIKAT VAKSINASI COVID-19 INTERNASIONAL (EROPA)

Number / Nomor: 370965674

DETAILS / RINCIAN

Full Name / Nama Lengkap	ARIEF
National Identity Number / NIK	3324
Passport Number / No. Passport	812345677
Date of Birth / Tanggal Lahir	1996-03-11

For further details, please visit <https://verify.kemkes.go.id>

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EU Digital Documentation for COVID-19 Certificates Format

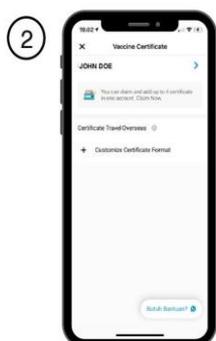
- Using the concept of Public Key
- Scan using the **eu-verify.kemkes.go.id** portal
- Stored in a JSON format
- 68 non-EU territories have joined the EU Digital COVID Certificate system
- Required MRZ code to be inputted regarding the certificate conversion, which is fn attribute
- The exchanged QR codes are based on a generated CBOR

How to Get an International COVID-19 Vaccination Certificate

The International Vaccination Certificate can be downloaded through the PeduliLindungi application



1 Open the PeduliLindungi App and select the **Vaccine Certificate** menu



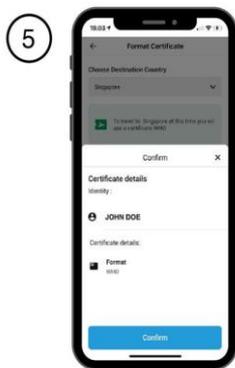
2 Click **Customize Certificate Format** to get a certificate of travel abroad



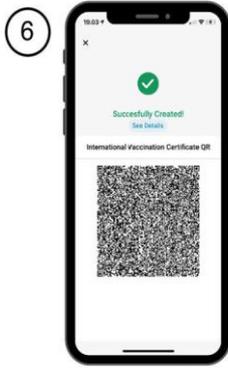
3 Select **the identity** to be converted into international certificate



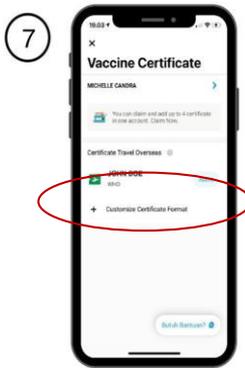
4 Select **Destination Economy** for customize travel certificate



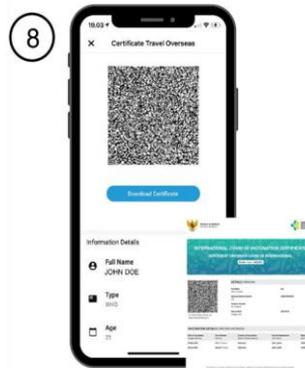
5 **Check and Confirm** the inputted data



6 After clicking confirm, a QR Code will appear. Click **View Details** to get the Certificate.



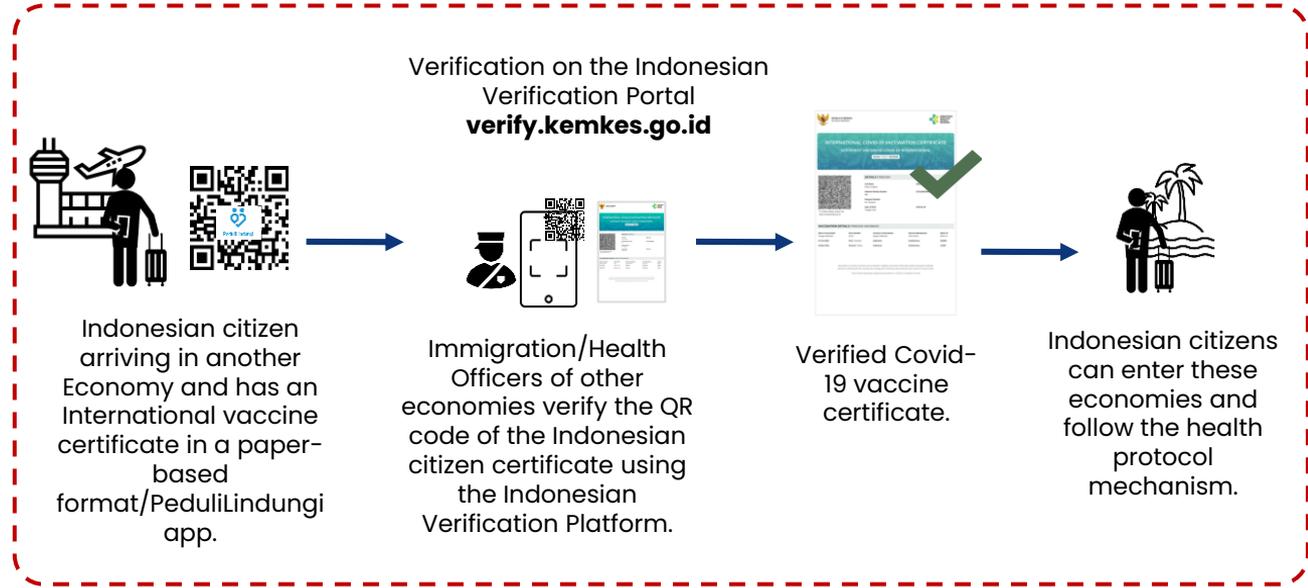
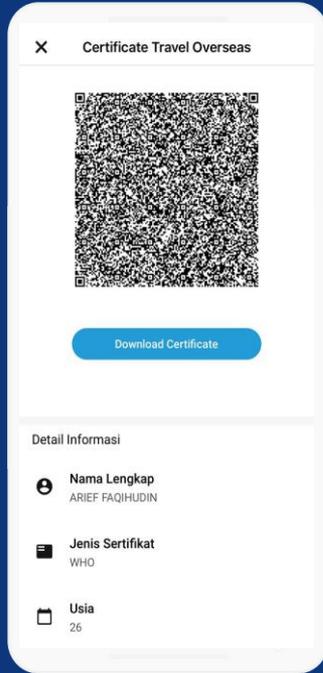
7 Open the **Vaccine Certificate** menu, then users can see their certificates that have been made



8 **Download** travel certificate abroad to save or print

Implementation of the International COVID-19 Vaccination Certificate

International Vaccination Certificate is used for overseas travel needs





ICAO

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