Health Protocol and Certification for International Travelling

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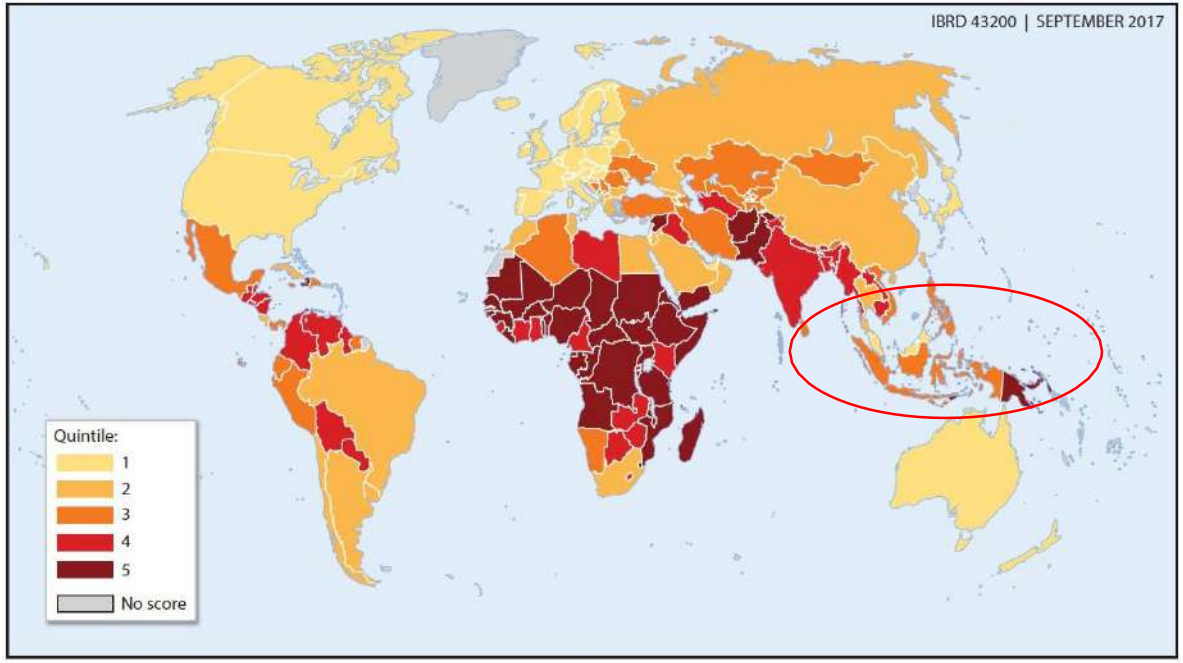
Disclaimer

- I have no potential conflicts of interest to report.
- The expressed opinions in the following slides are those of the individual presenter.

We are (not) ready for the pandemic

as predicted in The 2017 Global Distribution of Epidemic Preparedness



Note: Countries are grouped into quintiles of epidemic preparedness (1 = most prepared, 5 = least prepared).

Jamison, D. T., H. Gelband, S. Horton, P. Jha, R. Laxminarayan, C. N. Mock, and R. Nugent, editors. 2018. Disease Control Priorities: Improving Health and Reducing Poverty. Disease Control Priorities (third edition), Volume 9. Washington, DC: World Bank.

Pandemic mitigation scenarios

Curtailing interactions between infected and uninfected populations

Patient isolation, quarantine, social distancing practices, and school closures

Reducing infectiousness of symptomatic patients

Infection control practices, antiviral and antibiotic treatment

Reducing susceptibility of uninfected individuals

Vaccination

Jamison, D. T., H. Gelband, S. Horton, P. Jha, R. Laxminarayan, C. N. Mock, and R. Nugent, editors. 2018. Disease Control Priorities: Improving Health and Reducing Poverty. Disease Control Priorities (third edition), Volume 9. Washington, DC: World Bank.

The potential public health and economic value of a hypothetical COVID-19 vaccine in the United States: Use of cost-effectiveness modeling to inform vaccination prioritization

Michele Kohli [a,*], Michael Maschio [a], Debbie Becker [a], Milton C. Weinstein [b]

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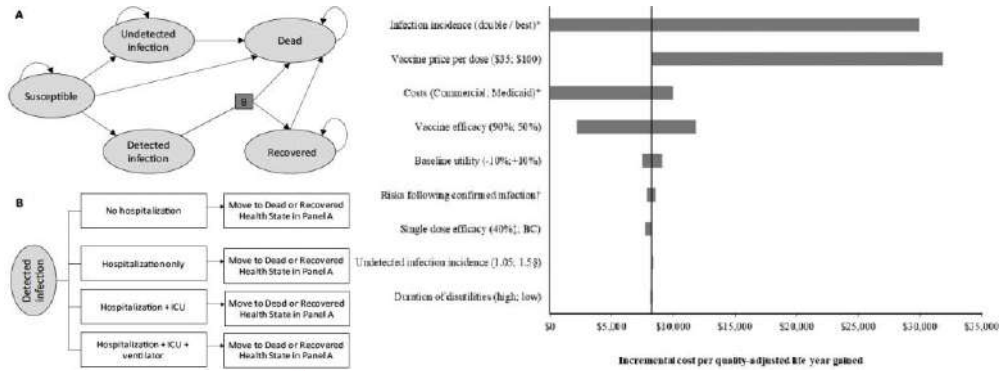
[b] Harvard T.H. Chan School of Public Health, 718 Huntington Avenue, Boston, MA, USA

Base case cost-effectiveness analysis results for the various tiers in each of the prioritization schemes.

	Vaccination Tier			
	1	2	3	4
Age-based prioritization scheme				
*Description**	*65+ yrs*	*50–64 yrs*	*18–49 yrs*	*n/a*
# eligible for vaccination	*56,051,566*	*63,292,950*	*139,327,967*	–
Base case ICER **	**Vaccination Dominates**†	**$8,000**	**$94,000**	**n/a**
Risk-based prioritization scheme				
Description*	• *Nursing homes* • *65 + yrs with or without serious medical condition*	• *Serious medical condition, 18–64 years* • *No serious medical condition, 50–64 yrs*	• *No serious medical condition, 18–49 yrs*	*n/a*
# eligible ICER for vaccination	*56,282,700*	*92,599,345*	*109,790,438*	–
Base case**	**Vaccination Dominates**†	**$10,000**	**$340,000**	**n/a**
Occupational-based prioritization scheme				
*Description**	*Priority§ and other critical occupations§*	*65+ yrs*	*50–64 yrs*	*18–49 yrs*
# eligible for vaccination	*21,700,000*	*54,706,166*	*57,390,550*	*124,875,767*
Base case ICER**	**$20,000**	**Vaccination Dominates**†	**$8,000**	**$94,000**



Key points

Covid-19 vaccination can be considered to be cost-effective

Covid-19 vaccine availability is critical on reducing morbidity and mortality rate

Infection incidence, vaccine price, vaccination cost and vaccine efficacy are the most influential parameters

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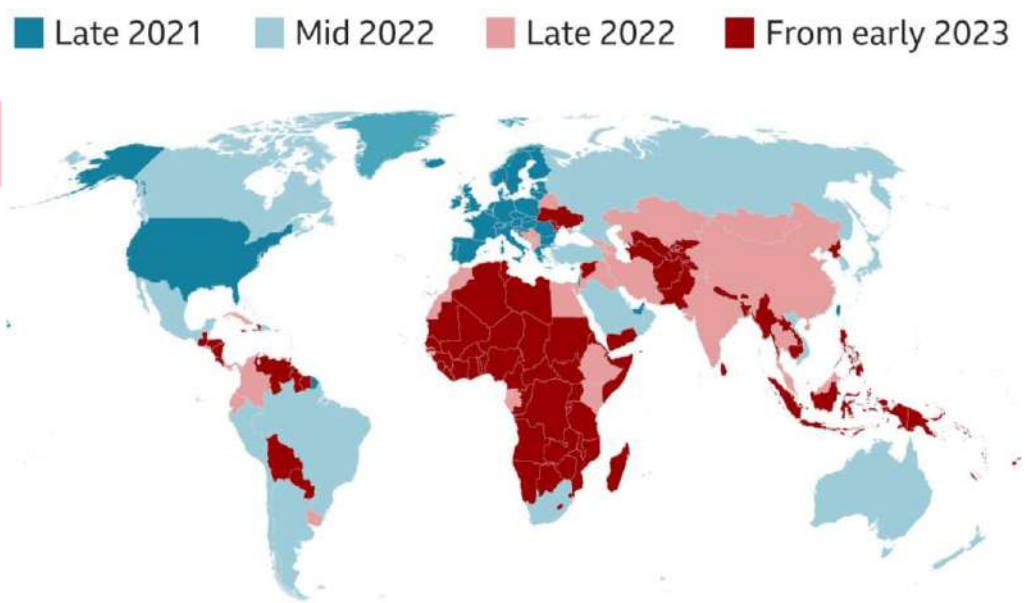
Kohli M, Maschio M, Becker D, Weinstein MC. The potential public health and economic value of a hypothetical COVID-19 vaccine in the United States: Use of cost-effectiveness modeling to inform vaccination prioritization. Vaccine. 2021 Feb 12;39(7):1157-1164.

Covid-19 vaccination: When will countries be fully covered?



https://www.bbc.com/news/world-asia-56150755

Resuming international travel

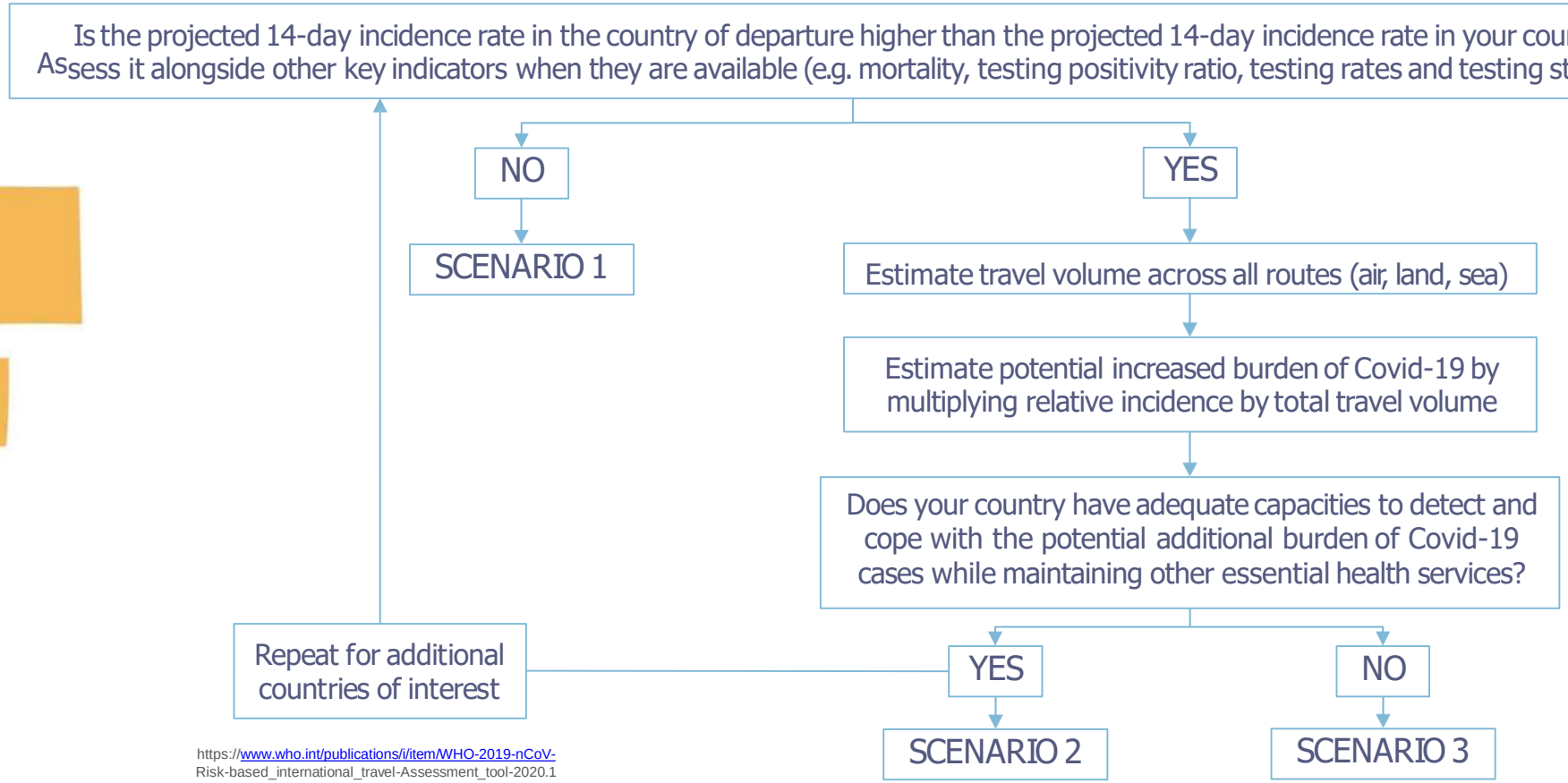
"There is **no zero risk** when considering the potential importation or exportation of cases in the context of international travel. Therefore, thorough and continuous **risk ass**

mitigate those risks, while balancing the socio-economic consequences of travel measures (or temporary restrictions) against potential adverse public health consequences."

—World Health Organization

https://www.who.int/news-room/articles-detail/public-health-considerations-while-resuming-international-travel

Risk assessment for international travel



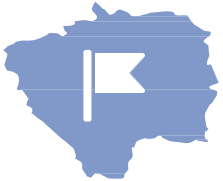
https://www.who.int/publications/i/item/WHO-2019-nCoV-Risk-based_international_travel-Assessment_tool-2020.1

Three scenarios in risk assessment

Scenario 1

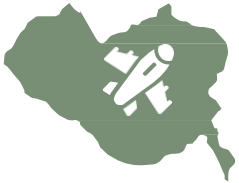
The **country of departure** (or sum of multiple countries assessed) has a projected case incidence lower than or equal to that of **your country**

Scenario 2



The **country of departure** (or sum of multiple countries assessed) has a projected case incidence higher than **your country**, and **your country** has adequate capacities to cope with the increased burden

Scenario 3

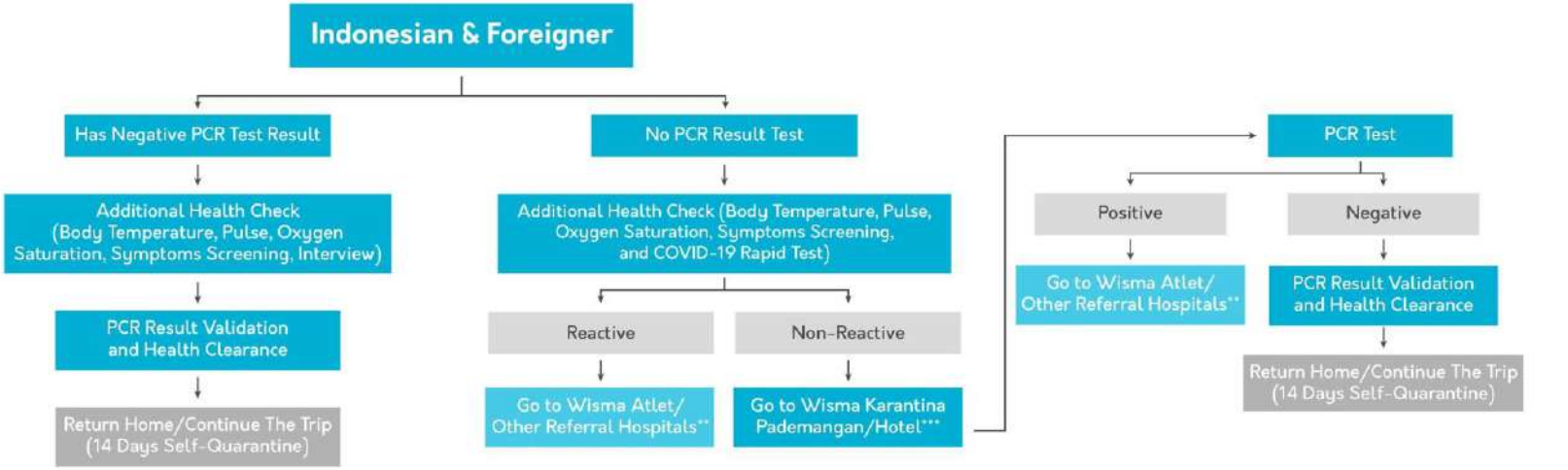


The **country of departure** (or sum of multiple countries assessed) has a case incidence higher than **your country**, and **your country** does not have adequate capacities to cope with an increased burden

https://www.who.int/publications/i/item/WHO-2019-nCoV-Risk-based_international_travel-Assessment_tool-2020.1

Health protocol for international arrivals in Indonesia

Refer to Indonesia Ministry of Health letter SE No. HK.03.01/MENKES/338/2020
and COVID-19 Acceleration Task Force letter SE No. 7 of 2020



*This information is subject to change at any time according to local authorities' policies without prior notice
** Emergency COVID-19 Hospital for Reactive Patients
*** Government quarantine facility for repatriated Indonesian citizens

https://backpanel.kemlu.go.id/PublishingImages/200729%20Health%20Protocol%20Arrival%20-%20EN.PNG

WHO's position paper regarding proof of COVID-19 vaccination for international travellers

"National authorities and conveyance operators should not introduce requirements of proof of Covid-19 vaccination for international travel as a condition for departure or entry, given that there are still **critical unknowns regarding the efficacy of vaccination** in reducing transmission. In addition, considering that there is **limited availability of vaccines**, preferential vaccination of travellers could result in **inadequate supplies of vaccines for priority populations** considered at high risk of severe Covid-19."

https://www.who.int/news-room/articles-detail/interim-position-paper-considerations-regarding-proof-of-covid-19-vaccination-for-international-travellers

Certificate/Passport of Vaccination/Immunity

Certificate

A document describing the medical situation of the individuals who hold it (combination of electronic and paper-based methods)

Vaccination Certificate

Proof of vaccination

Immunity Certificate

Proof of immunity or low risk of reinfection to Covid-19 (through serological test for antibodies)

Passport

Understood as being a one stop shop for all information to enable travel (e.g., test results, vaccinations and details of previous infection)

Vaccination Passport

Proof of vaccination and negative PCR test

Immunity Passport

Proof of vaccination, antibodies following infection and negative PCR test

Smart vaccination certificate (SVC)

SPECIFICATIONS & GUIDANCE DOCUMENTATION

1. Specifications document for a **digital vaccination certificate** (Smart Vaccination Certificate, SVC) for ***national*** level adoption
2. Implementation guidance for establishing **national trust frameworks** for issuing and validating trusted SVC
3. Specifications document for an **international trust framework** for validation of SVC

COUNTRY SUPPORT

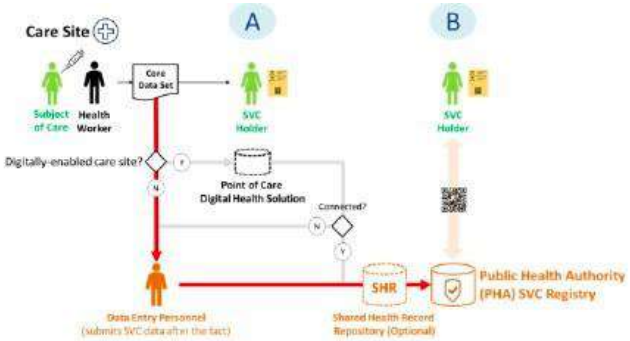
4. **White labelled applications** (reference implementations) for a digital vaccination certificate
5. **Community of practice** for sharing lessons learned in implementation of SVC across multiple countries
6. **Technical support to LMICs** at varying levels of immunization information system maturity through WHO, expert roster, and multi-agency support mechanisms
7. **Financing** to country-level implementation from COVAX mechanism

GLOBAL DIGITAL SERVICES

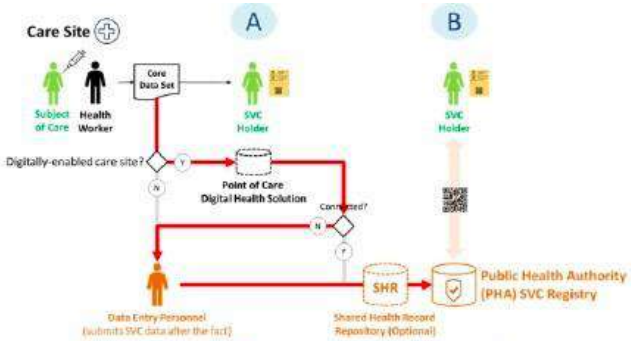
8. **WHO SMART Directory** of **public keys** for verifying and validating digital vaccine certificates
9. **Pre-qualified applications and verifiers** using Digital solutions clearing house mechanism
10. **Vaccine product registry**

https://www.who.int/publications/m/item/interim-guidance-for-developing-a-smart-vaccination-certificate

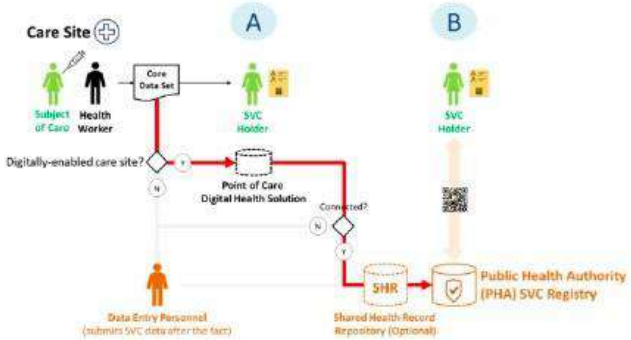
Continuity of SVC's care scenario variations



UC001 – "paper-first"



UC002 – offline digital health



UC003 – online digital health

https://www.who.int/publications/m/item/interim-guidance-for-developing-a-smart-vaccination-certificate

A scoping review of global vaccine certificate solutions for COVID-19

Country	Status	Approach
Estonia	Implemented	In pilot stage Vaccine Guard developed in collaboration with the World Health Organization and Guardtime
Denmark	Implemented	It has launched its own Corona passport. The passport grants the privilege to vaccinated citizens to travel beyond country borders. Vaccinated citizens are able to download the certificate from a government website. The government will soon be issuing digital certificates for business travellers
USA	Considering it	Details are not yet released
UK	Considering it	The proposals are being discussed at the Cabinet's COVID operational committee. There is no final decision yet
Pakistan	Considering it	Work in progress Vaccify by Trust Net Pakistan
India	Considering it	Work in progress DigiLocker - A government platform for issuing and verifying documents and vaccine certificate digitally
Russia	Considering it	Work in progress Covid passports would possibly be in a digital form
Finland	Considering it	The vaccine certificate would be available on “My Kanta” which is a nation-wide service platform for accessing health records
Australia	Considering it	It will allow people to access digital proof of vaccination via the Express Plus Medicare app and MyGov accounts. Approval is expected by March A paper form will also be available through Services Australia or through the vaccine provider
Italy	Considering it	Details are not yet released
Sweden	Considering it	Details are not yet released
Canada	Considering it	Details are not yet released
Switzerland	Considering it	Details are not yet released
Spain	Considering it	Spain supports the creation of a European Union document favouring vaccine certificate
Israel	Implemented	Green pass provides both digital and downloadable paper certificates. It shows whether the user is vaccinated and/or has a recent negative test
EU Commission	Implemented	Officially introducing Digital Green Certificate which will be available in both digital and paper format. Vaccine certificate will show details of inoculation and brand used, negative test certificates, and medical certificates for people who have recovered from COVID-19 in the last 180 days. Intended for travel between all EU countries.

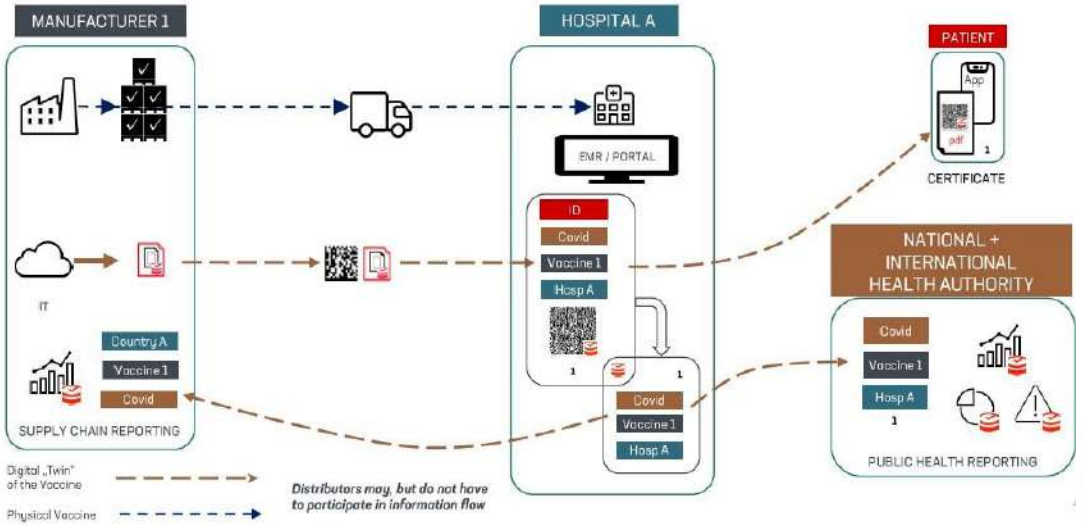
https://assets.researchsquare.com/files/rs-334258/v2/550a2986-b913-4a0d-ae2c-32801e1462f8.pdf

guardtime

Lessons learned from Estonia

HOW GUARDTIME VACCINEGUARD HELPS CURB COVID EPIDEMICS

VACCINEGUARD BY GUARDTIME LINKING VACCINATION RECORD WITH END-TO-END VACCINATION FLOW

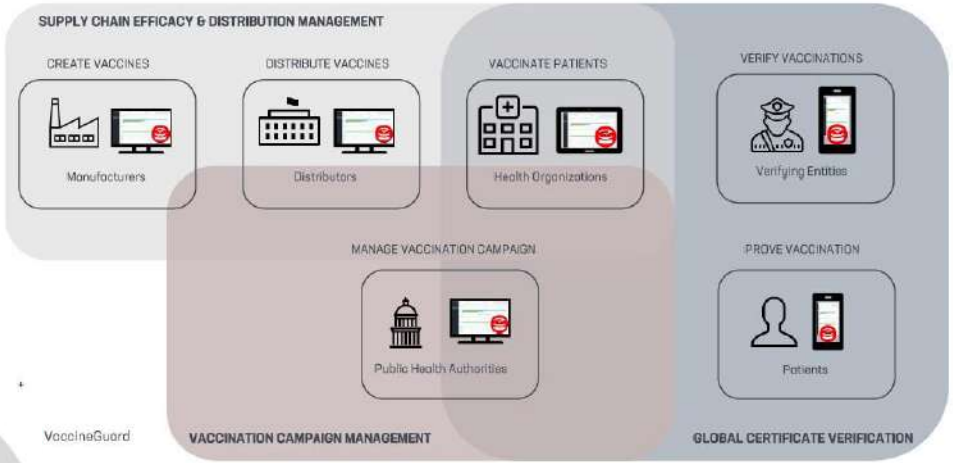


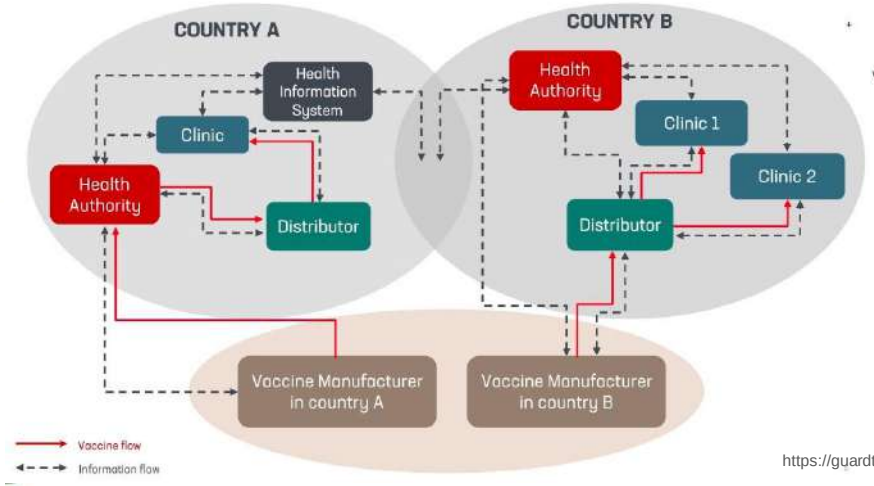
https://guardtime.com/vaccineguard

guardtime

VACCINEGUARD
RELIABLE VACCINATION PROGRAMS

VACCINEGUARD CONNECTS WORKFLOWS OF DIFFERENT ROLES AND ACTORS

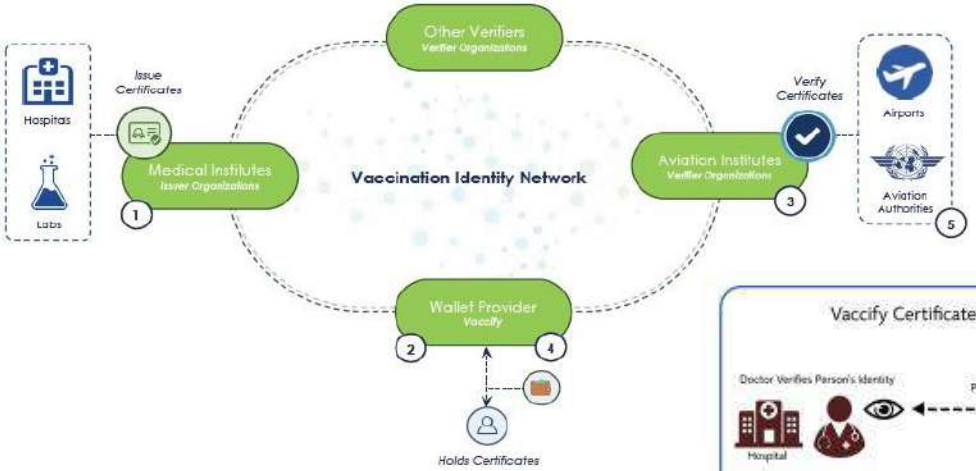


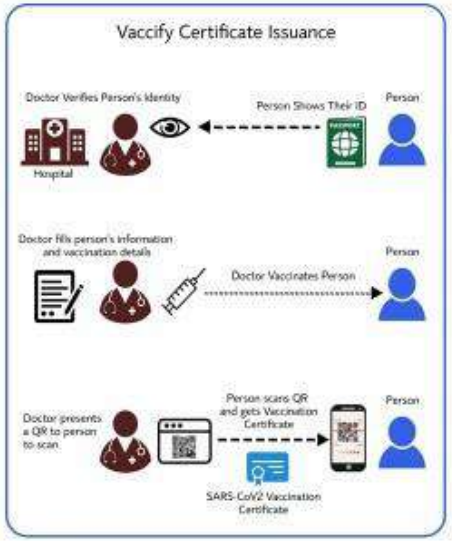


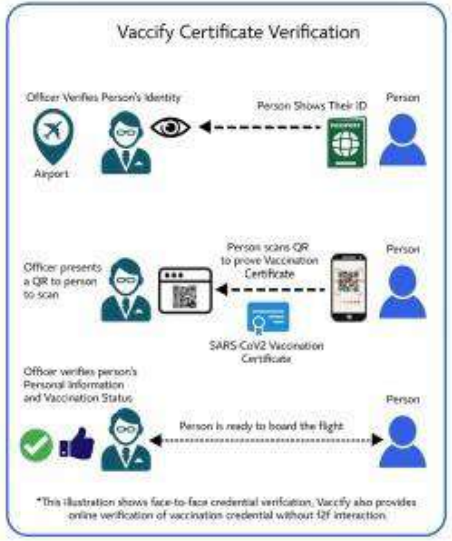
VaccineGuard

https://guardtime.com/vaccineguard

Vaccify: an initiative from Pakistan







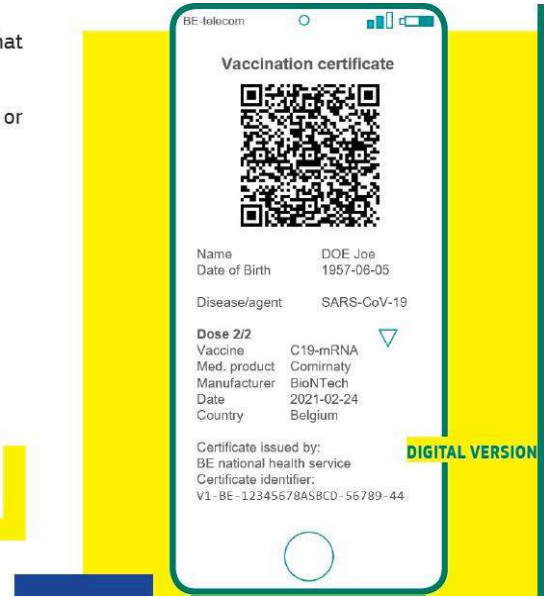
https://vaccify.pk/

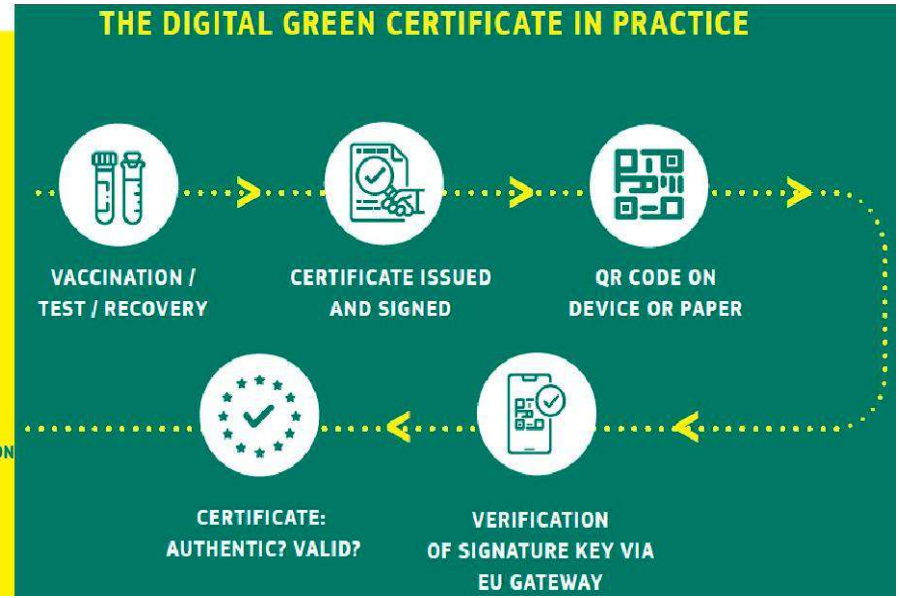
Digital Green Certificate by the EU Commission

A Digital Green Certificate is a digital proof that a person:

- has been vaccinated against COVID-19, or
- has received a negative test result, or
- has recovered from COVID-19.

› Digital and/or paper format
› With QR code
› Free of charge
› In national language and English
› Safe and secure
› Valid in all EU countries





https://ec.europa.eu/info/live-work-travel-eu/coronavirus-response/safe-covid-19-vaccines-europeans/covid-19-digital-green-certificates_en

Key Takeaways

Countrywide Covid-19 vaccination could take years. In the transition phase where population is partially vaccinated, an innovative ecosyst for faster socio-economic recovery

Mitigating the need of countless integrations among various stakeholders, saving time and funds while collaborating with existing identity infrastructure can impact post-COVID immunization phase to be faster and low-cost.

Slow the spread of Covid-19, stay home if you can

#AloneTogether