CommonPass

A health data trust framework
to support safe border reopening

Overview

September 2020

A Challenge for all Countries

Countries around the world are working carefully to reopen their borders and allow international travel and trade to resume, while protecting their populations' health.

In developing and implementing border control policies during this evolving pandemic, all countries face a common challenge:

How to trust a lab result or vaccination record from another country?
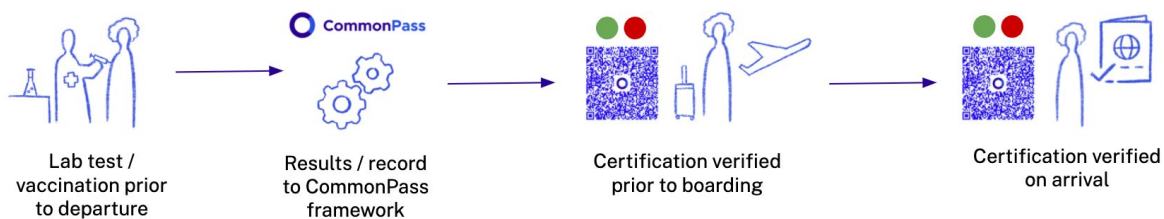

Without the ability to trust individual health data from another country, many countries will feel compelled to retain full travel bans and mandatory quarantines for as long as the pandemic persists.

If individual health data can be trusted, countries have the opportunity to implement more nuanced policies. They can set specific health screening requirements - a negative PCR test before departure, or hopefully soon a COVID-19 vaccination - and have confidence that the travelers they admit actually satisfy those requirements.

A Common Trust Framework

Operating under the guidelines of the International Health Regulations, The World Economic Forum and The Commons Project are launching CommonPass - a shared global framework to allow individuals to document their COVID-19 status electronically and present it when they board a plane or cross a border.

Lab test /
vaccination prior
to departure

Results / record
to CommonPass
framework

Certification verified
prior to boarding

Certification verified
on arrival

Countries set entry requirements based on nationality, point of origin,
type of testing (e.g. PCR) and timeframe (e.g 72 hours)

CommonPass

A Flexible Trust Framework

The CommonPass framework was designed to address the following key questions for countries in evaluating health screening compliance:
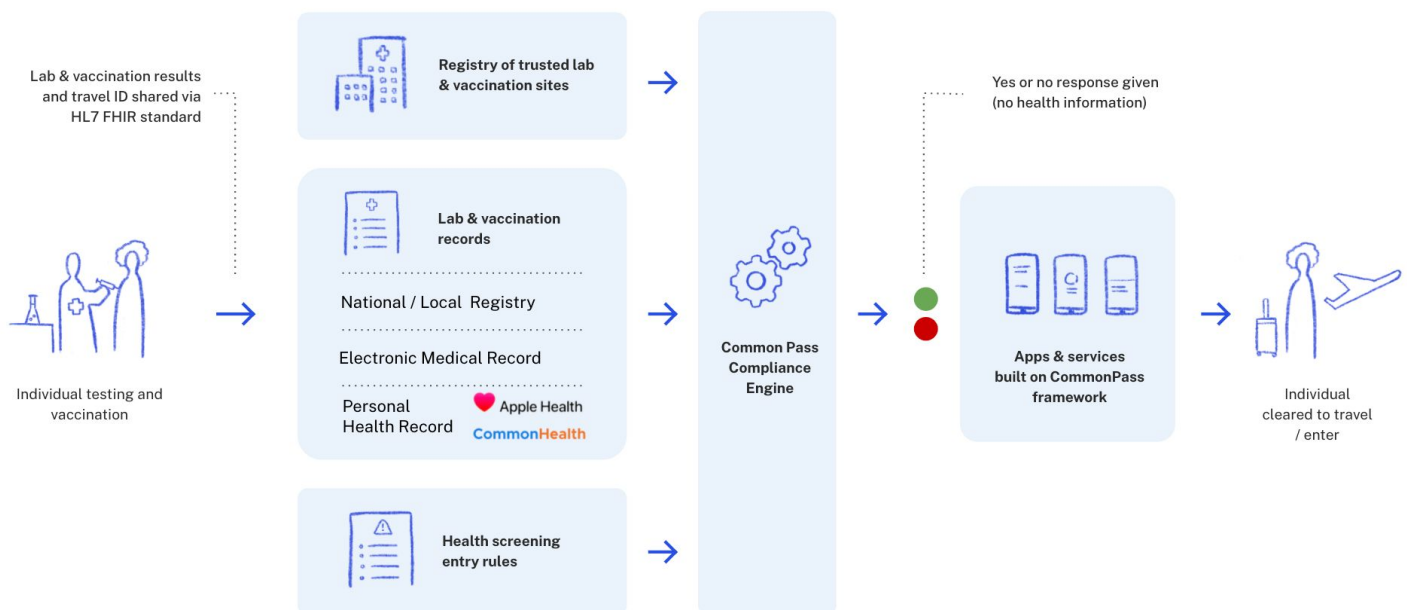
Key Questions

Is the lab or vaccination facility accredited / certified?

What kind of lab test / vaccination was it?
When was it?
What was the result?

Is it the same person?

Do they meet our entry criteria?

Framework Elements

Registry of accredited / certified lab & vaccination sites

Common model for making lab & vaccination data accessible using global health data interoperability standards

Privacy preserving model for linking lab results & vaccination records to travel ID

Framework for countries to publish health screening entry requirements

Rules engine for determining compliance with entry requirements

Tools to embed framework services in 3rd party apps & systems

The framework lets countries implement their own border entry and health screening requirements, including whether and what type of lab tests or vaccinations to require. The framework then verifies that incoming travelers' health data satisfies the destination country's entry requirements, and generates a green travel certification that airlines and countries can rely on to board a flight or allow border entry.

Lab & vaccination results and travel ID shared via HL7 FHIR standard

Registry of trusted lab & vaccination sites

Lab & vaccination records

National / Local Registry

Electronic Medical Record

Personal Health Record — Apple Health CommonHealth

Health screening entry rules

Individual testing and vaccination

Common Pass Compliance Engine

Yes or no response given (no health information)

Apps & services built on CommonPass framework

Individual cleared to travel / enter

WORLD ECONOMIC FORUM

The Commons Project

Data Privacy

The framework is designed to protect data privacy and satisfy data privacy regulations by adhering to the following privacy principles:

- **Agency**: Data are stored or shared only with explicit, informed consent
- **Data Minimization**: Only the minimum amount of personal data are used for any transaction
- **Federation**: Personally identifiable health information is stored only at the source or on the user's phone
- **Use**: Data are only stored to the extent necessary and never used for any other purpose

Interoperable Global Framework

On July 9th, The World Economic Forum and The Commons Project convened over 350 public and private sector leaders from 52 countries to discuss the challenges of safe border reopening and launch the CommonPass initiative.

A key message from that session and subsequent regional convenings was the need for an interoperable global framework. While solutions may initially be deployed within specific travel bubbles or corridors, they will eventually need to interconnect. Ultimately, the model must work for a passenger coming from anywhere and going to anywhere.

Global Coalition - Key Stakeholders & Roles

We are now engaged with governments, international organizations, health and travel industry leaders in every region to implement CommonPass as an interoperable global framework. We are working with the following stakeholders in each participating country:

Health Agencies

Register accredited / certified labs & vaccine sites in the CommonPass registry.

Determine health screening entry requirements.

Border Agencies

Publish updated health screening entry criteria using common format.

Accept health screening status from foreign visitors through the CommonPass Framework.

Lab & Vaccine

Collect patient ID using international standards at time of sample collection / vaccination.

Make results available via internationally recognized standards (HL7 FHIR, LOINC).

Travel

Integrate CommonPass framework into reservation / check-in / boarding process via API.

Global Phased Rollout

The initial pilot deployment of the CommonPass framework will take place between London and New York at the end of September with expansion to additional routes across Europe, the Americas, Africa, the Middle East and Asia during the balance of the year.

These initial pilots are being implemented in collaboration with the major airlines and airports in each region and with governments participating as observers to evaluate the framework in operation. The goal of the pilots is to demonstrate to governments that they can rely on CommonPass as a health data trust framework as they evolve their border control policies through the course of the pandemic.

Full scale deployment of the framework is planned for the beginning of 2021.
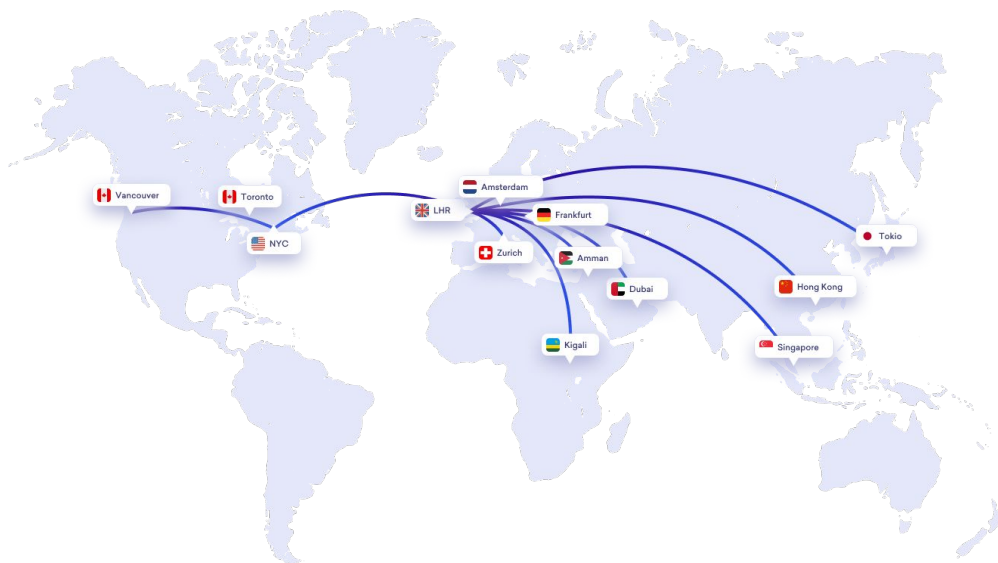
Global Working Groups

In addition to public-private working groups formed for each demonstration route, the following working groups have been established to guide the ongoing development and deployment of the framework globally.

Government

- Borders & Transport
- Health
- Industry & Tourism

Public-Private

- Travel Industry
- Labs & Vaccination
- Identity

Participating countries are invited to designate participants to the relevant working groups.

For more information, contact info@commonpass.org

About

The World Economic Forum is the International Organization for Public-Private Cooperation. The Forum engages the foremost political, business, cultural and other leaders of society to shape global, regional and industry agendas.

It was established in 1971 as a not-for-profit foundation and is headquartered in Geneva, Switzerland. It is independent, impartial and not tied to any special interests. The Forum strives in all its efforts to demonstrate entrepreneurship in the global public interest while upholding the highest standards of governance. Moral and intellectual integrity is at the heart of everything it does.

The Commons Project is a non-profit public trust building global digital services and platforms for the common good. Founded with support from The Rockefeller Foundation and headquartered in Switzerland, it was established to build and operate the shared platforms and services that neither governments nor tech companies are well positioned to create. The Commons Project's public trust governance structure is designed to ensure that people's interests are served above all.