

Open Source Digital Infrastructure for Verifiable Open Credentials



SHARED VISION

Enable countries to digitally orchestrate large scale vaccination certification programs using open source digital infrastructure as a public good.



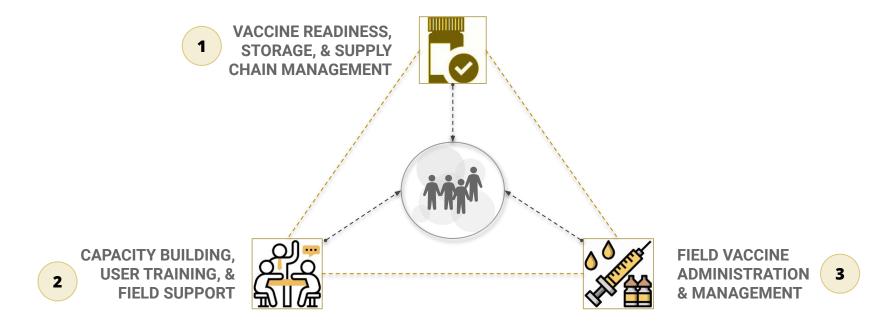
WE EXPECT 3 PHASES



Infrastructure should seamlessly allow these transitions



Large scale vaccination needs multiple systems interplaying seamlessly and orchestrated digitally

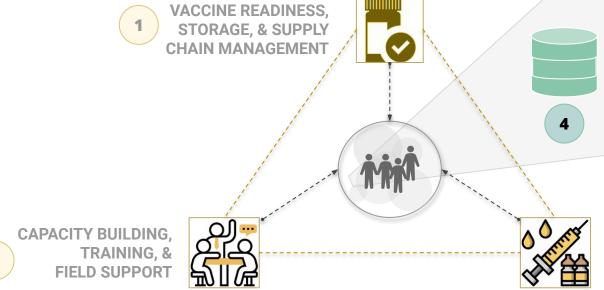


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A digitally verifiable vaccination certificate is critical to open up economy and countries can also use this to launch their immunization certificate registry

DIVOC

VACCINATION CERTIFICATES,
CERTIFICATE ACCESS,
CERTIFICATE VERIFICATION,
DASHBOARD & ANALYTICS
1-CLICK FEEDBACK CAPTURE
1-CLICK ACCESS TO INFORMATION
SECURE & MASSIVELY SCALABLE



FIELD VACCINE
ADMINISTRATION
& MANAGEMENT

3

COUNTRIES NEED

An approach that works at scale (10 million vaccinations/day) and scales what works (choice of vaccines, process improvements, etc.)

An elastic system (from 10,000 vaccinations a day to 10 million a day)

Digital first design that is evolvable

A system which is agile and responsive

Real time observability is key through telemetry and analytics





Guiding Principles

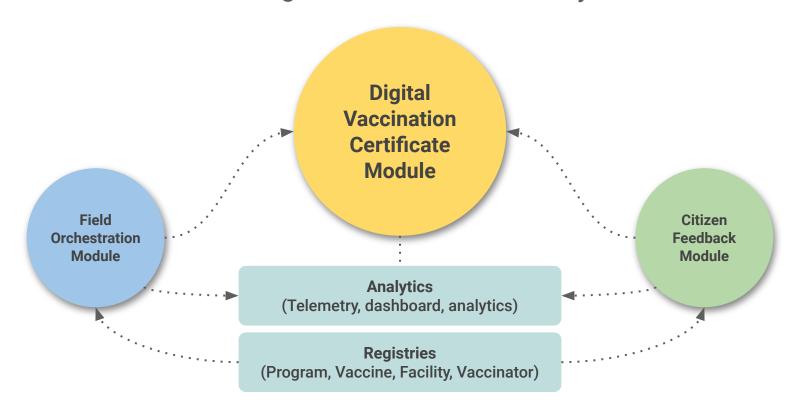
- Versatile
- Allows for plug & play
- Trustworthy
- Citizen-centric approach

Architecture Principles

- Micro-services & API based
- Interoperable
- Scalable
- Flexible & Configurable
- Observable
- Resilient
- Privacy & Security by design
- Open Standards
- Trustable
- Internationalizable

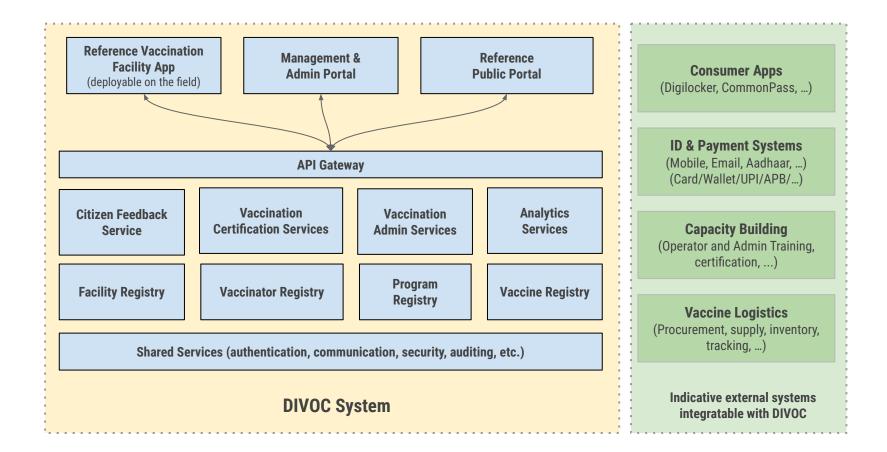


DIVOC consists of core certificate module and supporting modules each of which can be used independently or together and also integrated with other external systems

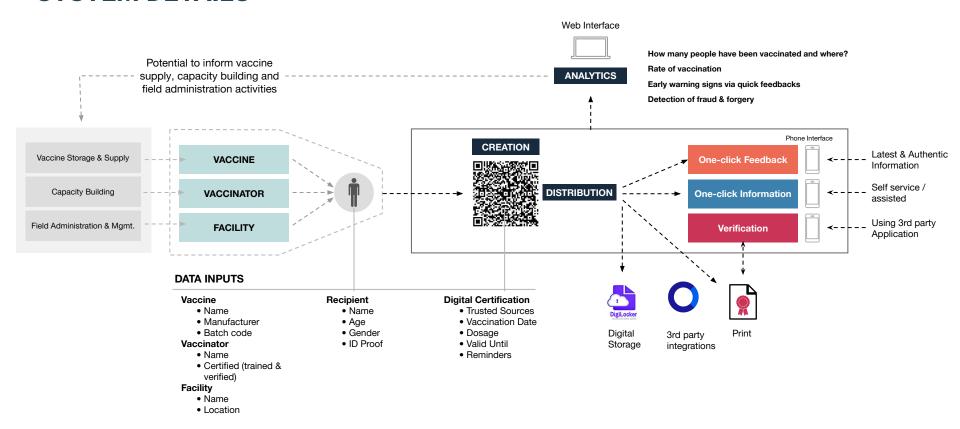


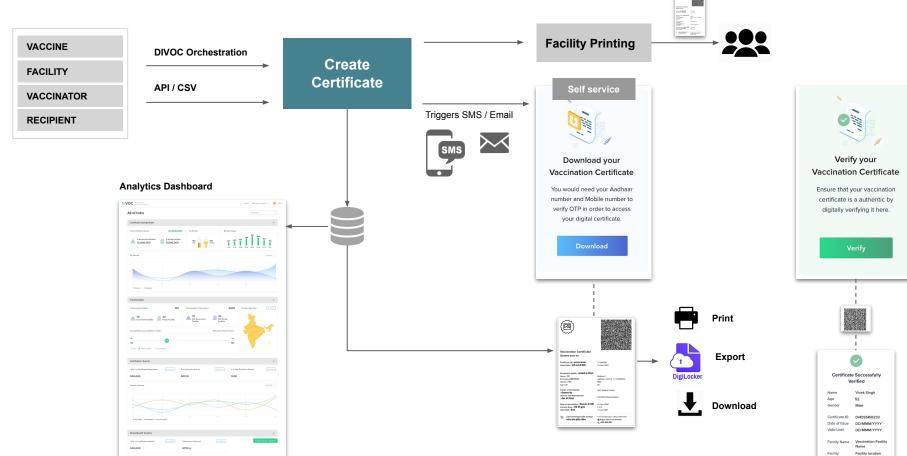


HIGH LEVEL ARCHITECTURE



SYSTEM DETAILS









DIGITAL CERTIFICATE MODULE



VACCINATION CERTIFICATE

- Conforming to WHO/IHR guidelines* based on
 W3C verifiable credential* specifications
- Aligns with FHIR or ICD codifications.
- Authenticity verifiable via digitally signed QR code
- Available digitally on smartphone with QR code
- Printable for non-smartphone users
- Multilingual templates (for data and layout)
- Ability for users to download/print after vaccination either at facility or from home in self/assisted modes
- Integratable to health Lockers and certificate lockers
- Easy integration with immunization e-registry



20-Jun-2021



Valid Until / वैधताः

This is a tagline यह एक टैगलाइन है For more information / अधिक जानकारी के लिए https://<vaccination-info-URL>

1800 1800 1800



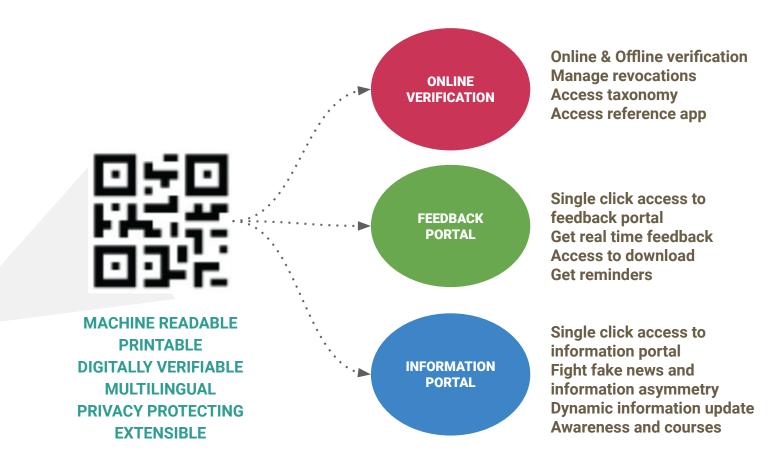
ENERGIZED VACCINATION CERTIFICATE

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Vaccination Certificate

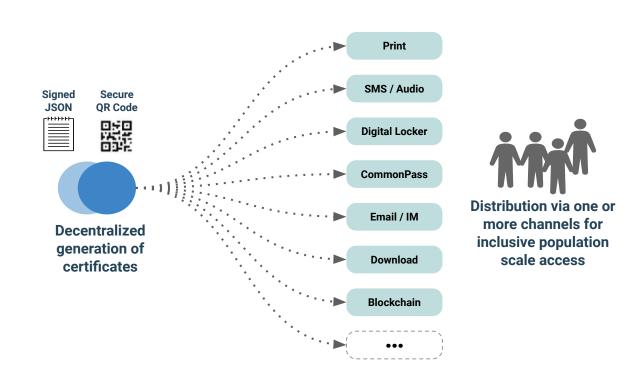
Centre of Vaccination

Certificate ID : DMESSRI0233 Issue Date: 23 Dec 2021





ONCE THE CERTIFICATE IS ISSUED, MULTI-CHANNEL DISTRIBUTION AND PRINT CAN BE ENABLED TO ENSURE INCLUSIVE ACCESS AND USAGE





HANDLING MULTIPLE DOSES AND REMINDERS

VACCINE REGISTRY

Approved vaccines

Active Status

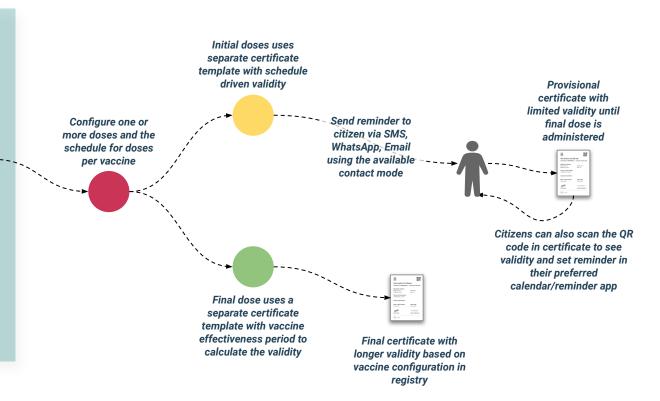
Vaccination schedule -

Batch deny list

Max retail price

Filter Rule if any

Vaccination Method





BENEFITING ALL



For the individual

- I. Proof of vaccination
- Verify authenticity offline/online
- 3. Reminder for doses
- 4. Meet people, get back to work
- 5. Get info via QR code
- 6. Provide feedback via QR code



For the society

- Opens up functions, meetings, businesses
- 2. Opens up economy
- 3. Track towards regional herd immunity



For the world

- 1. Open up travel, events
- 2. Opens up trade
- Incorporate certificate into travel passes
- 4. Opens global economy.

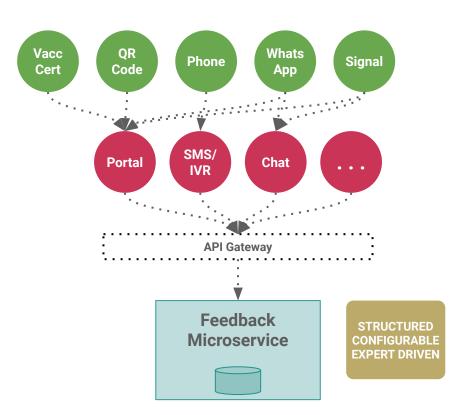


CITIZEN FEEDBACK MODULE



POST VACCINATION FEEDBACK

- Structured feedback
 - Configurable, expert driven
- Feedback Types
 - Vaccination response feedback
 - Facility/Vaccinator rating & feedback
- Multi channel, multi-lingual
 - Public portal, inbound sms, IVR, WhatsApp, other apps via API
 - Multiple languages
- Self service and assisted modes
- Integratable with AEFI systems and processes.





FIELD ORCHESTRATION MODULE

ORCHESTRATION CONTROLS

USING REGISTRIES

PROGRAM REGISTRY

Programs that are being rolled out
Active Status
Allowed vaccines
Start and end dates
Certificate Templates

VACCINE REGISTRY

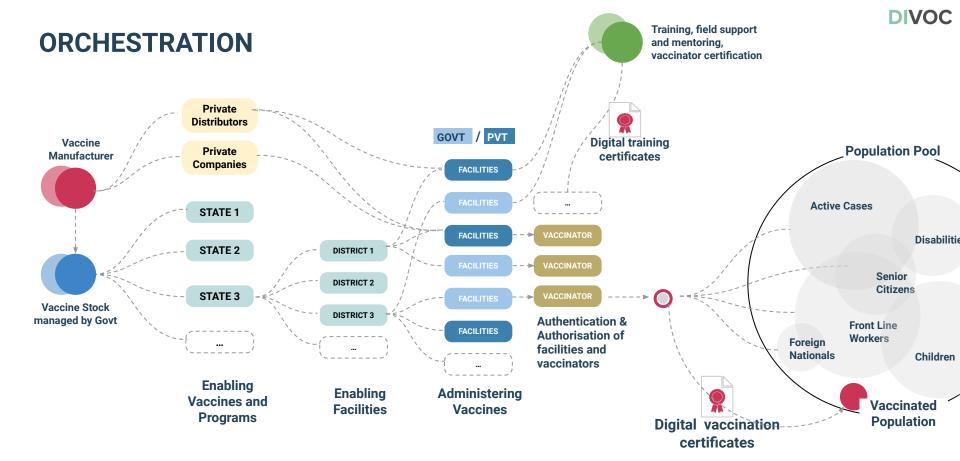
Approved vaccines
Active Status
Vaccination schedule
Batch deny list
Max retail price
Filter Rule if any
Vaccination Method

FACILITY REGISTRY

Approved facilities
Location (state, district, postal code)
Active Status
Vaccination daily rate
Max vaccination stations
Total supply (if available)
Rating & feedback

VACCINATOR REGISTRY

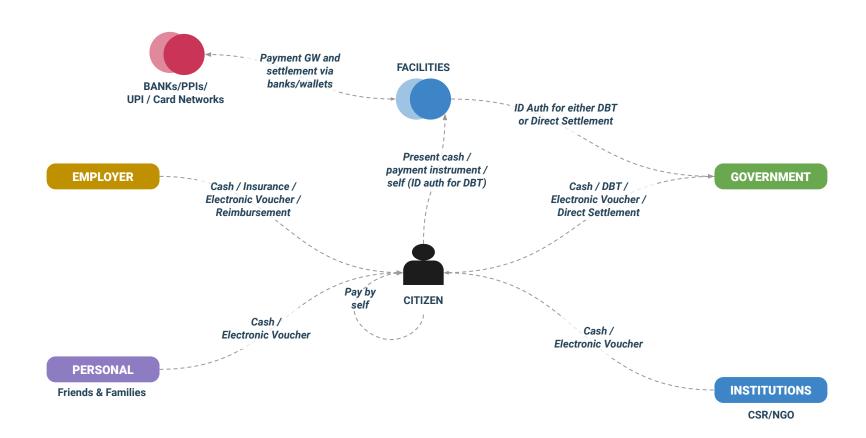
Trained vaccinators
Active Status
Training certificate
Associated facilities
Rating & feedback



A platform to orchestrate the complexity within an ecosystem of diverse players to administer a vaccine program across the country successfully.



LEVERAGING MULTIPLE PAYMENT MECHANISMS



DIVOC

An open source, global digital public good From the team who have built population scale platforms

DIVOC ENABLES COUNTRIES TO EASILY BUILD DIGITAL CERTIFICATE INFRA FOR VACCINATION AND OTHER PROGRAMS

along with other optional supporting modules, integrate with existing systems, extend it, and use it freely.

For more details, visit

https://divoc.egov.org.in/



THANK YOU