DIGITAL CREDENTIALING FOR C-19 VACCINATION

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THINKING DIGITAL INFRA, NOT A PACKAGED SOLUTION

MANY CONTEXTUAL INCLUSIVE SOLUTIONS SHOULD EXIST ON SAME DIGITAL BUILDING BLOCKS

Population scale digital credentialing requires various parts to be unbundled into a set of infrastructure elements that can be rebundled in many ways

MACHINE READABLE SCHEMA AND SHARED TAXONOMY

DECENTRALIZED ISSUANCE OF DIGITAL CERTIFICATE

DISTRIBUTION, PRINTING, ANYTIME ACCESS

USAGE (DIGITAL/PHYSICAL), VERIFICATION

MACHINE READABLE SCHEMA AND SHARED TAXONOMY

STANDARDIZED MACHINE READABLE "VERIFIABLE CREDENTIAL" SCHEMA FOR C-19 DIGITAL CERTIFICATE WITH SHARED TAXONOMY

MACHINE READABLE

VERIFIABLE CREDENTIAL

COMMON TAXONOMY

SELF DESCRIBING

INCLUSIVE

MULTILINGUAL

PRIVACY PROTECTING

EXTENSIBLE

URLs TO FEEDBACK & INFO


```
{
  "@context": [
    "https://www.w3.org/2018/credentials/v1",
    "https://www.who.int/2020/credentials/vaccination/v1"
  ],
  "id": "http://nha.gov.in/cred/ec58b28e-a6ab-49c2-a24d-ebefa02476cd",
  "type": ["VerifiableCredential", "ProofOfVaccinartionCredential"],
  "issuer": "https://nha.gov.in/",
  "issuanceDate": "2021-01-01T19:23:24Z",
  "expirationDate": "2025-01-01T19:23:24Z",
  "Print-template": "http://nha.gov.in/cred/ec58b28e-a6ab-49c2-a24d-ebefa02476cd.svg"
  "credentialSubject": {
    "id": "urn:in.gov.uidai.aadhaar:11111111111",
    "name": "Pramod K Varma",
    "age": 53,
    "gender": "Male"
    },
"evidence": [{
    "id": "https://nha.gov.in/evidence/vaccine/1234",
    "type": ["Vaccination"],
    "verifier": {
        "id": "https://nha.gov.in/evidence/vaccinator/3223",
        "name": "John Doe",
        "sig-image": "..." },
    "facility": {
        "id": "https://nha.gov.in/evidence/facilities/4545",
        "name": "ABC Hospital",
        "sig-image": "..." },
  }],
  "nonTransferable": "True",
  "proof": { ... }
}
```

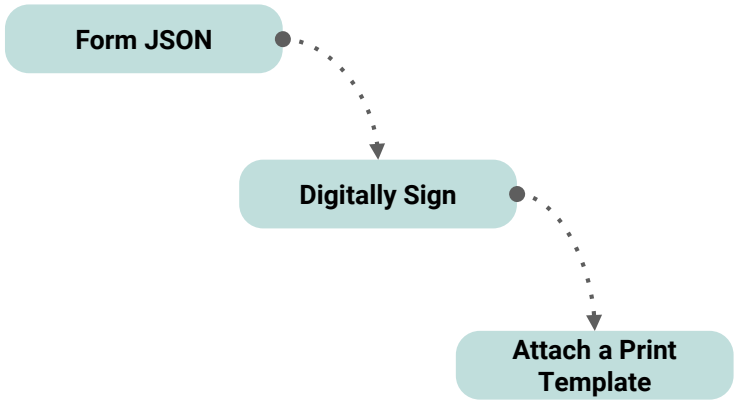

SAMPLE

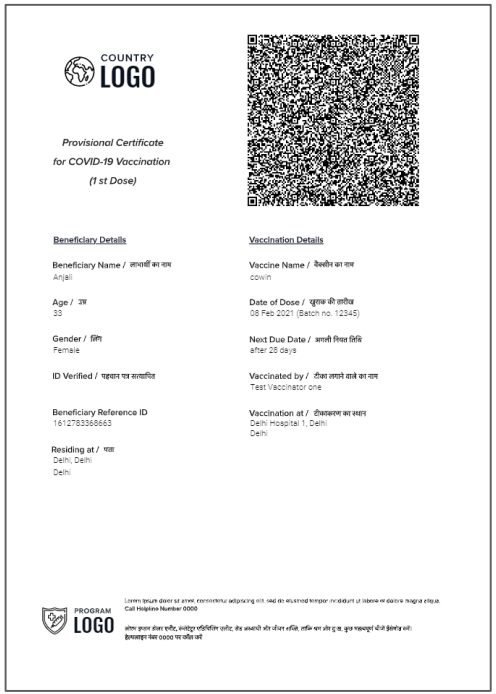
Reference: https://www.w3.org/TR/vc-data-model/

DECENTRALIZED ISSUANCE OF DIGITAL CERTIFICATE

COUNTRIES SHOULD BE ABLE TO ISSUE CERTIFICATES USING THE STANDARD FORMAT IN A DECENTRALIZED MANNER

- ONE OR MORE AGENCIES
- NO CENTRAL PLATFORM
- SELF CONTAINED
- STANDARD DATA SPEC
- CUSTOM VISUAL FORMATS
- STANDARD PKI CERTS
- AUTHENTICITY VERIFIABLE
- CUSTOM EXTENSIONS




COUNTRY LOGO

Provisional Certificate for COVID-19 Vaccination (1 st Dose)

Beneficiary Details

Beneficiary Name / लाभार्थी का नाम
Anjali

Age / उम्र
33

Gender / लिंग
Female

ID Verified / पहचान पत्र सत्यापित

Beneficiary Reference ID
16127833686863

Residing at / पता
Delhi, Delhi
Delhi

Vaccination Details

Vaccine Name / वैक्सीन का नाम
covin

Date of Dose / खुराक की तारीख
08 Feb 2021 (Batch no. 12345)

Next Due Date / अगली नियत तिथि
after 28 days

Vaccinated by / टीका लगाने वाले का नाम
Test Vaccinator one

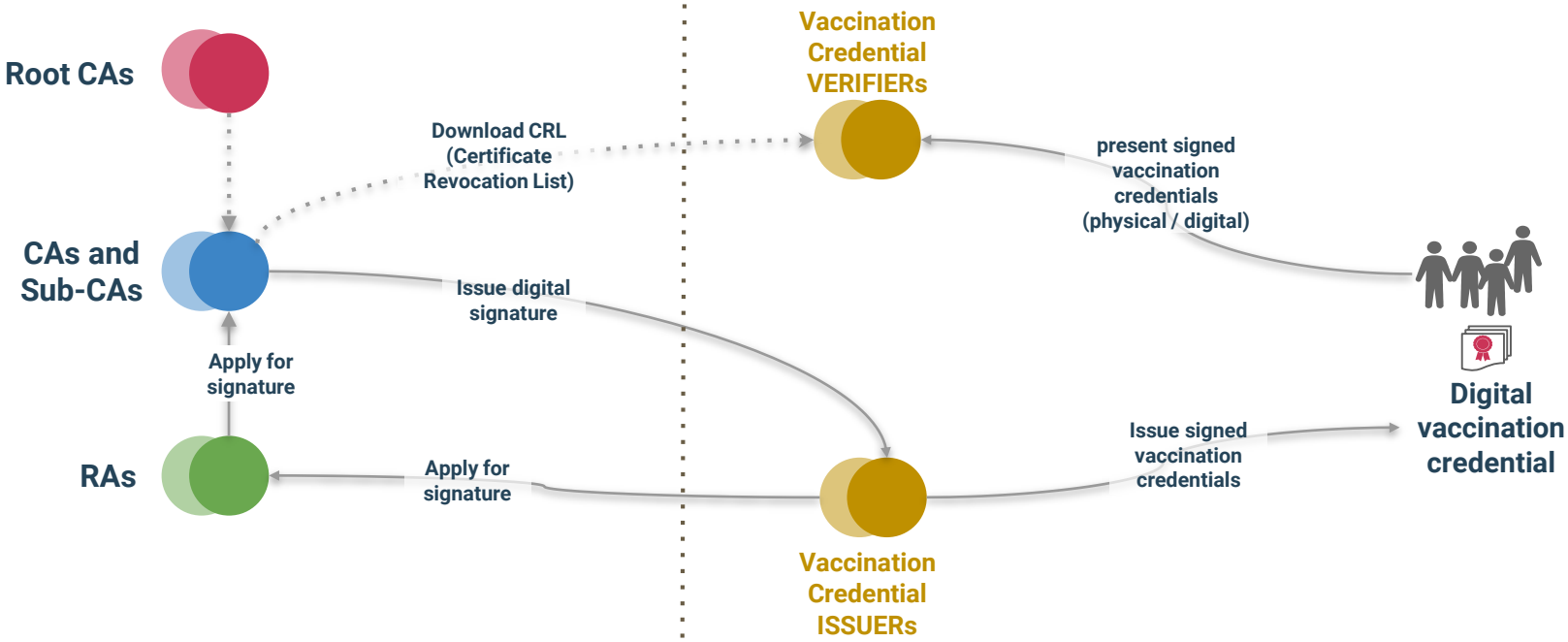
Vaccination at / टीकाकरण का स्थान
Delhi Hospital 1, Delhi
Delhi

PROGRAM LOGO

Call Helpline Number 0000

LEVERAGING PKI AND DIGITAL SIGNATURE

ALREADY AVAILABLE ACROSS THE WORLD



DISTRIBUTION,
PRINTING,
ANYTIME ACCESS

ONCE THE CERTIFICATE IS ISSUED, MULTI-CHANNEL DISTRIBUTION AND PRINT SCHEMES SHOULD WORK TO ENSURE COUNTRIES AND USERS HAVE A CHOICE

DIGITAL AND PHYSICAL

MULTI-CHANNEL DISTRIBUTION

ANY VISUAL TEMPLATE

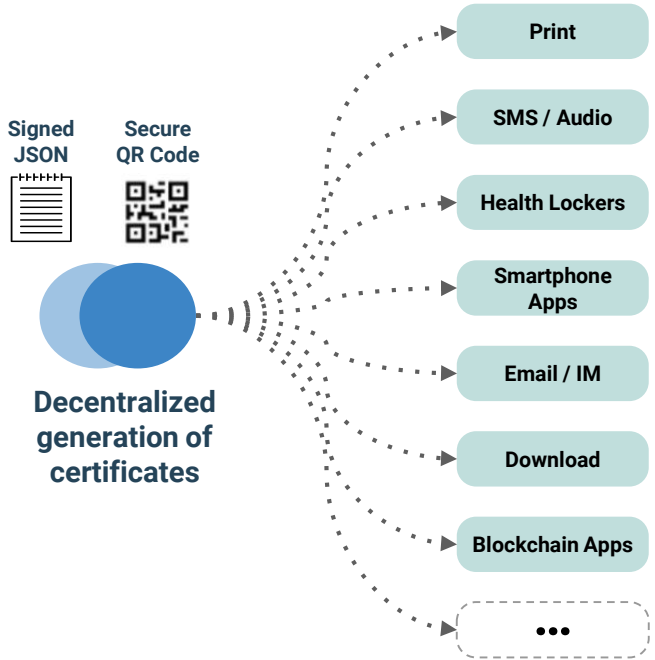
ACCESS ANYWHERE, ANYTIME

ACCESS VIA APPS/LOCKERS

SELF/ASSISTED MODES

SECURE DELIVERY

DELIVER AS QR CODE



Distribution via one or more channels for inclusive population scale access

USAGE (DIGITAL/PHYSICAL), VERIFICATION

INSTANT VERIFICATION

OFFLINE / ONLINE

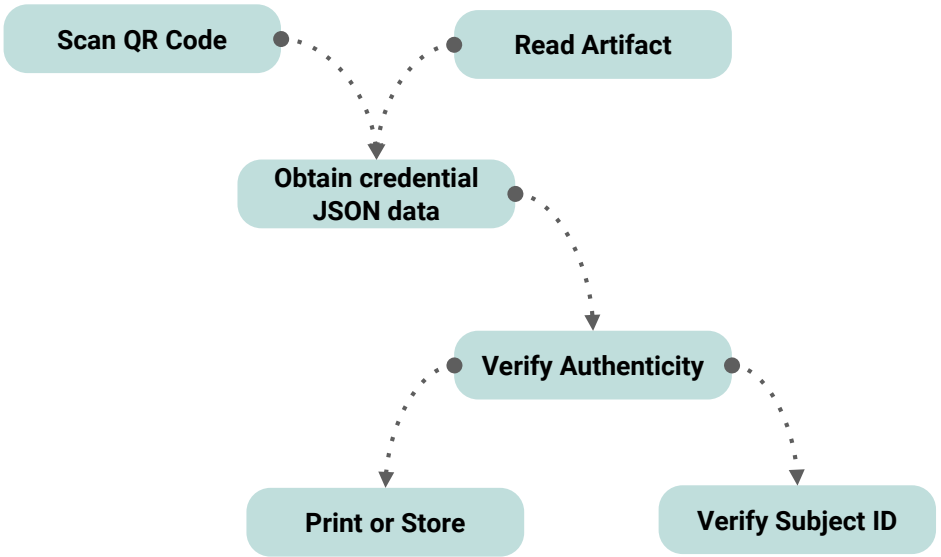
DECENTRALIZED

WITHIN / ACROSS BORDERS

PRESENT / PRESENCE-LESS

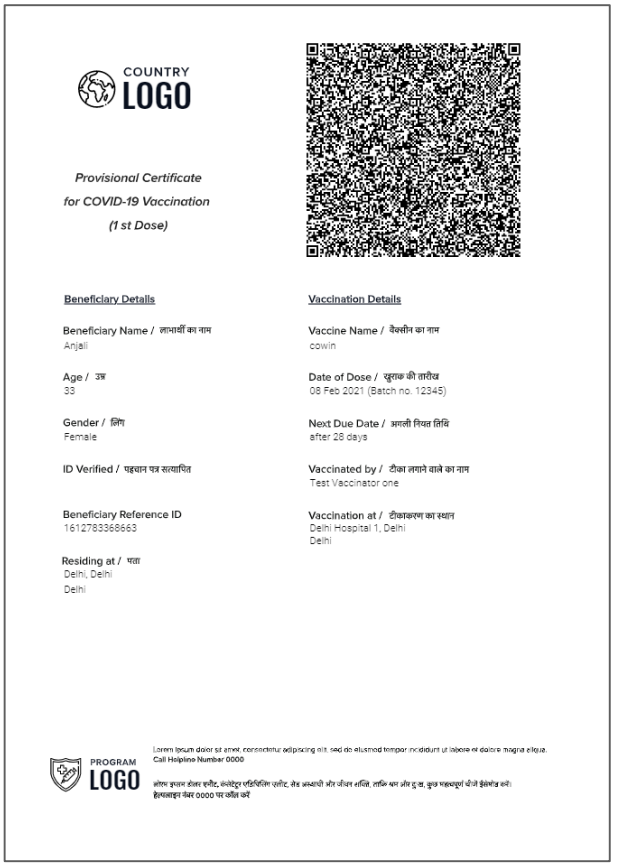
PHYSICAL / DIGITAL

MANUAL OR AUTOMATED VERIFICATION, PRESENT OR PRESENCE-LESS, WITHIN OR ACROSS BORDERS



VACCINATION CERTIFICATE INDIVOC

- 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 Lockers and other apps
- Easy integration with immunization e-registry



COUNTRY LOGO

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Delhi

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cowin

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Delhi Hospital 1, Delhi
Delhi

PROGRAM LOGO

Lorem ipsum dolor sit amet, consectetur adipiscing elit, sed do eiusmod tempor incididunt ut labore et dolore magna aliqua.
Call Helpline Number 0000

लोरम इपसम डोलर इमीट, कंसेक्टेटुर एडिपिसिंग एलीट, सेड अल्थापी और जीवन शक्ति, ताकि श्रम और दु:ख, कुछ महत्वपूर्ण चीजें ईसेमोड करें।
हेल्पलाइन नंबर 0000 पर कॉल करें

IHR guideline, page 53: https://www.who.int/ihr/publications/9789241596664/en/
W3C verifiable credentials: https://www.w3.org/TR/vc-data-model/

THANK YOU

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