सत्यमेव जयते
Goverment Of India

Co-WIN

Tech Backbone of India’s Vaccination Program

India – A Perspective

Population
1.36 Billion

Male: Female
1000 : 943

Rural : Urban
65 : 35

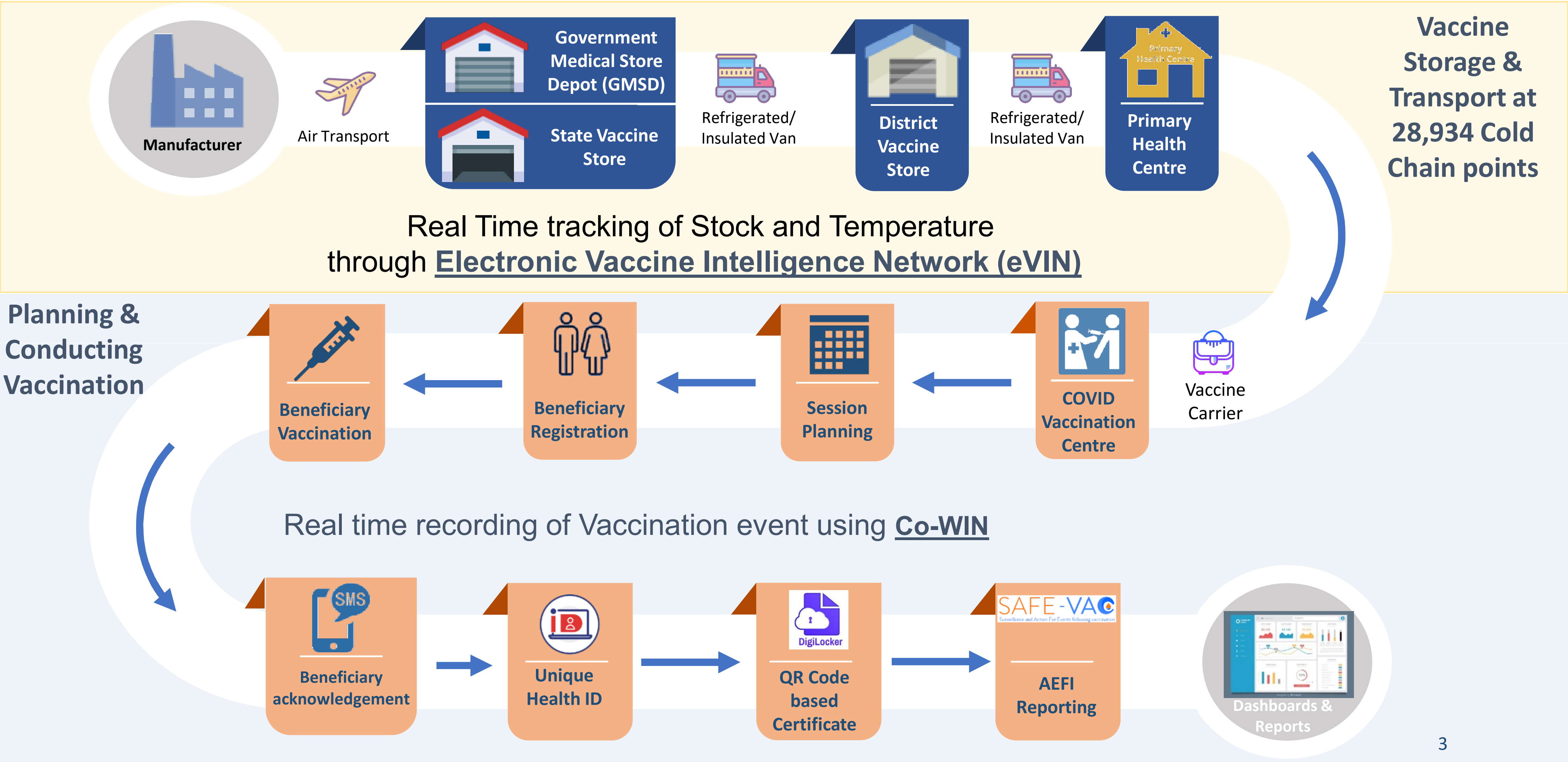
tribes india

ट्राइब्स इंडिया

Tribal Population
100:8.6

Low internet & mobile density

COVID -19 Vaccine Delivery Management System



Manufacturer

Air Transport

Government Medical Store Depot (GMSD)

State Vaccine Store

Refrigerated/ Insulated Van

District Vaccine Store

Refrigerated/ Insulated Van

Primary Health Centre

Vaccine Storage & Transport at 28,934 Cold Chain points

Real Time tracking of Stock and Temperature through **Electronic Vaccine Intelligence Network (eVIN)**

Planning & Conducting Vaccination

Vaccine Carrier

COVID Vaccination Centre

Session Planning

Beneficiary Registration

Beneficiary Vaccination

Real time recording of Vaccination event using **Co-WIN**

Beneficiary acknowledgement

Unique Health ID

QR Code based Certificate

AEFI Reporting

Dashboards & Reports

Co-WIN – *A Scalable, Inclusive and Open Platform for Universal Vaccination by 2022*

Co-WIN

Co-WIN
Helpline
#LARGEST
VACCINE
DRIVE
Check your nearest vaccination center and slots availability
Register or SignIn for Vaccination
Get OTP

Covid Vaccine Intelligence Network

A tech-based platform facilitating the planning, implementation, monitoring, and evaluation of Covid-19 vaccination in India

Guiding Principles

Equitable and Inclusive

Equitable vaccination across multilingual states, with multiple modes for registration to ensure accessibility for all

Single Source of Truth

Unbiased distribution of vaccines through a single source of data to remove information asymmetry and align stakeholders

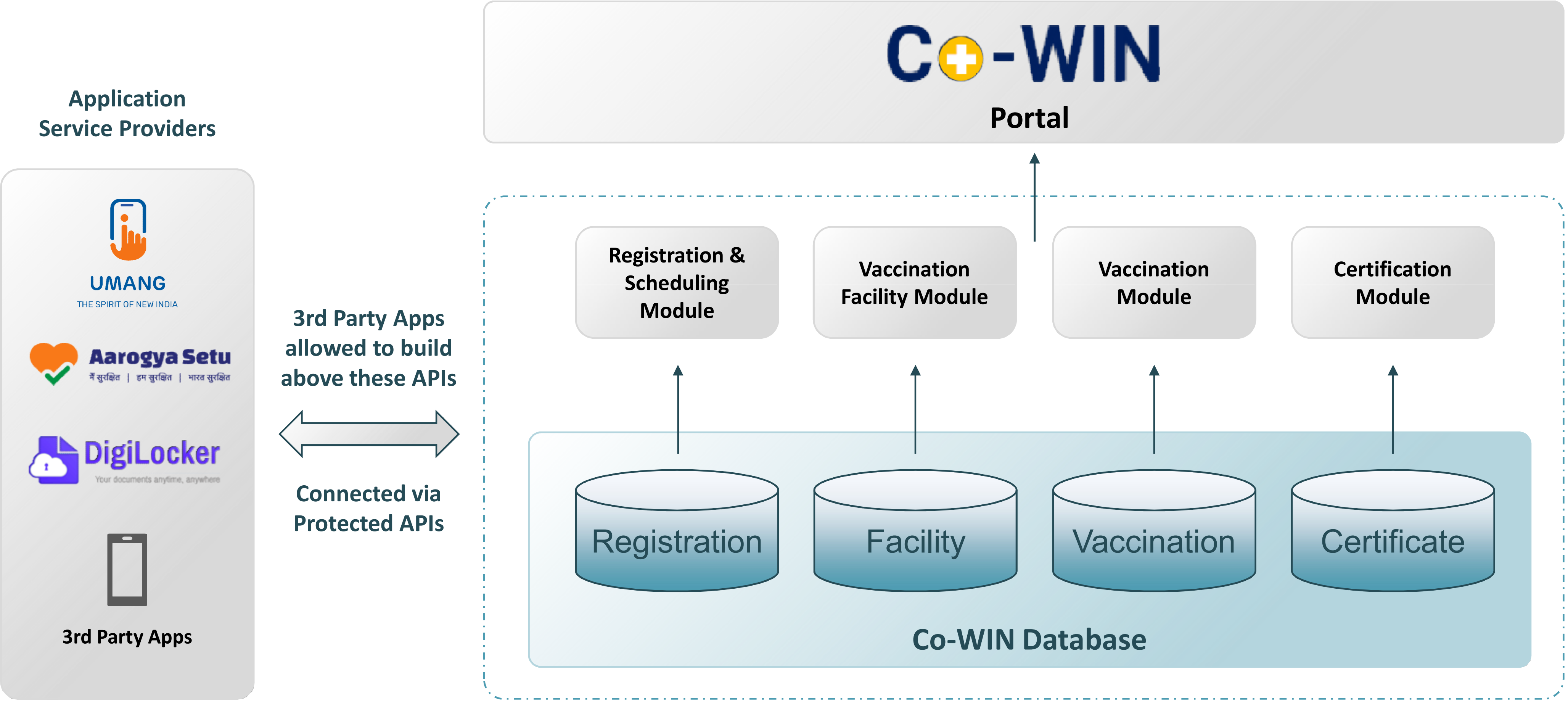
Evolvability and Scalability

Dynamic architecture capable of evolving and accommodating changes as per circumstances, built for a scale of a billion plus citizens

Feedback and Analysis

Data on vaccination and recording of AEFI helps form data-driven public health policy and evaluate the efficacy of different vaccines

Architecture of Co-WIN – *Open and interoperable*



Application Service Providers

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DigiLocker
Your documents anytime, anywhere

3rd Party Apps

3rd Party Apps allowed to build above these APIs

Connected via Protected APIs

Co-WIN
Portal

Registration & Scheduling Module

Vaccination Facility Module

Vaccination Module

Certification Module

Registration

Facility

Vaccination

Certificate

Co-WIN Database

Open APIs – *Interoperability that enables innovation*

Multiple Access Points

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Registration and Scheduling APIs

- Provide more fronts to let citizens register for vaccination
- Discover available vaccination slots and schedule or re-schedule appointments

Vaccination at Facilities APIs

- Government and Private Hospitals can integrate these APIs with existing systems
- Record vaccination data for certification
- Report AEFI for a beneficiary

Certification APIs

- Travel or office portals can gain integrate these APIs with their user-facing platforms
- Access vaccination certificates based on a reference id / registered mobile number

For the Citizens

Advantages for Citizens – *Agency at the core, luxury of choice*

Core Functionalities

Blended Registration
Digital & Offline Walk-ins
Mobile # | Choose from 9 Photo IDs

Track Vaccination Schedule
Guidance on interval between two doses based on vaccine brand

Convenience in Slot Booking
Choose vaccination slot based on convenient time and location

Instant Digital Certificate
Issued post vaccination
Universally authenticable

Modes of Registration

- Offline on-site registration
- Online registrations through portal
- Assisted registration through support centres and call-centres

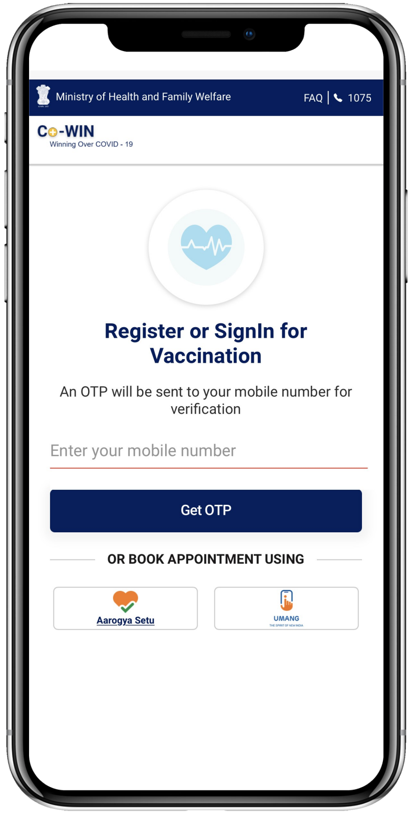
Simplified Access

- Find vaccination centre using maps
- Sign-up with mobile number and verify with a four-digit OTP
- Multilingual – Power of vernacular

Minimal Data Inputs

- Non-sensitive data inputs
- Required - Name, age & gender
- Multiple photo identification options
- Monosyllabic / single-word prompts

Easy Registration – *Option of 9 photo IDs and 12 languages*



Ministry of Health and Family Welfare FAQ | 📞 1075

CO-WIN
Winning Over COVID - 19

Register or SignIn for Vaccination

An OTP will be sent to your mobile number for verification

Enter your mobile number

Get OTP

OR BOOK APPOINTMENT USING

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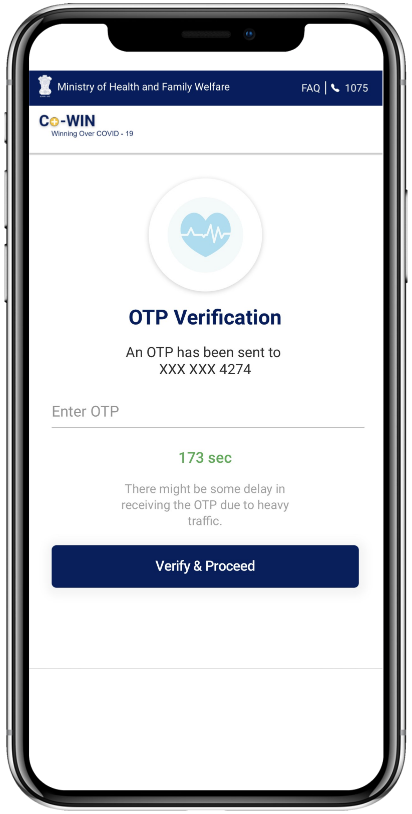

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CO-WIN
Winning Over COVID - 19

OTP Verification

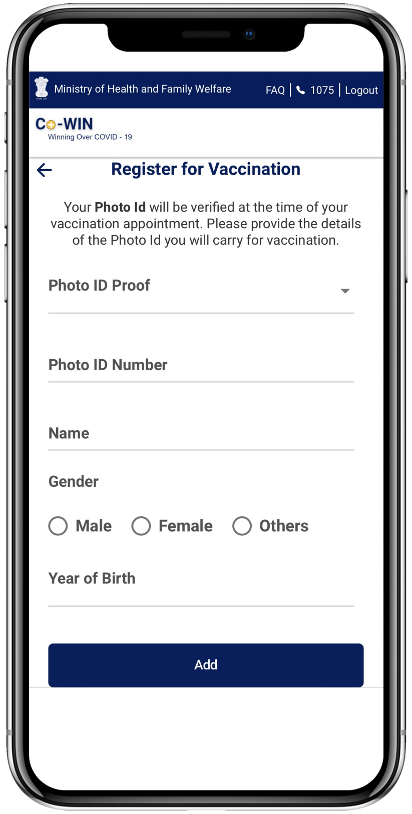
An OTP has been sent to XXX XXX 4274

Enter OTP

173 sec

There might be some delay in receiving the OTP due to heavy traffic.

Verify & Proceed



Ministry of Health and Family Welfare FAQ | 📞 1075 | Logout

CO-WIN
Winning Over COVID - 19

← Register for Vaccination

Your **Photo Id** will be verified at the time of your vaccination appointment. Please provide the details of the Photo Id you will carry for vaccination.

Photo ID Proof ▾

Photo ID Number

Name

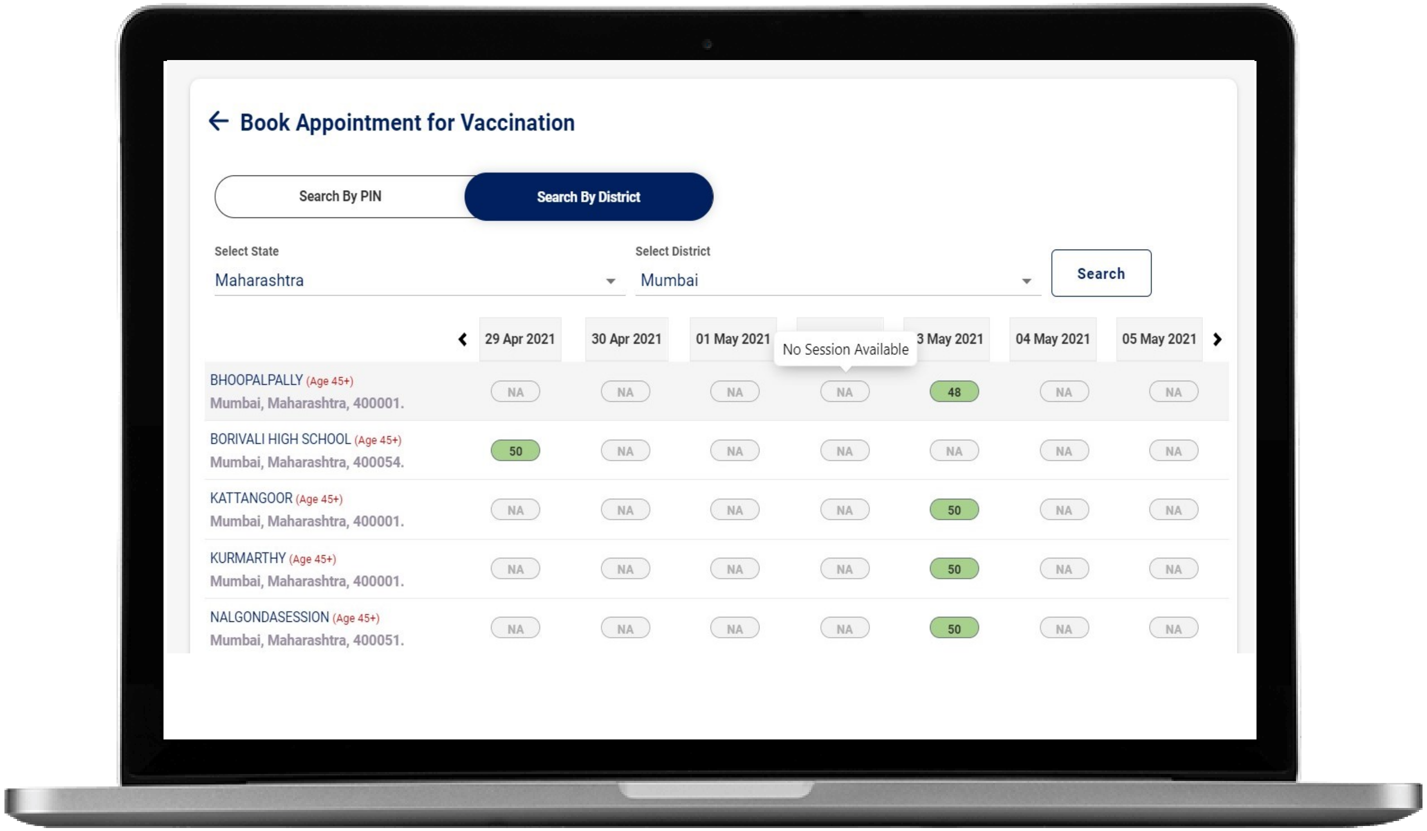
Gender

○ Male ○ Female ○ Others

Year of Birth

Add

Choice of Time and Location – *Book a vaccination slot as per convenience*



Book Appointment for Vaccination

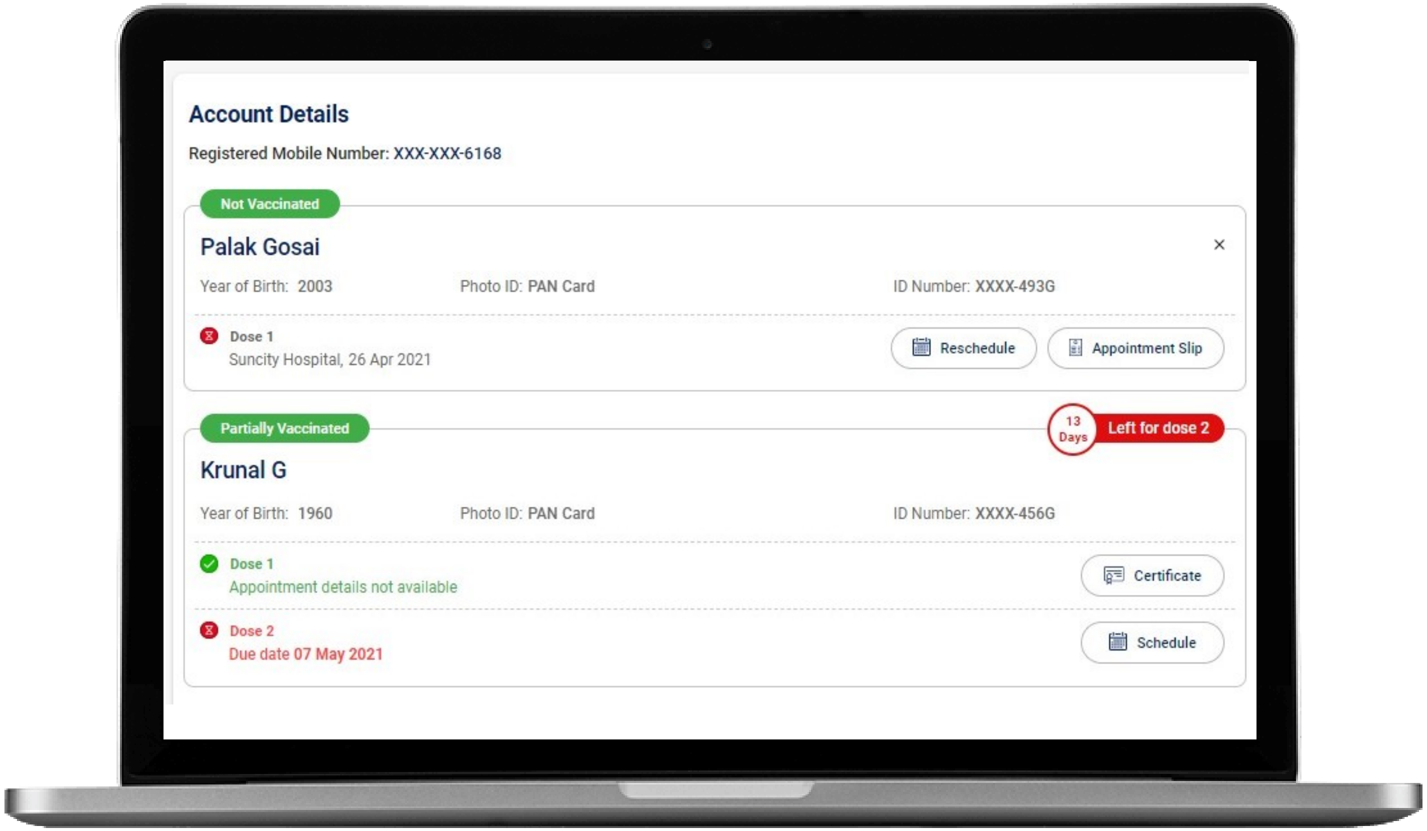
Select State: Maharashtra

Select District: Mumbai

No Session Available

	29 Apr 2021	30 Apr 2021	01 May 2021		3 May 2021	04 May 2021	05 May 2021
BHOOPALPALLY (Age 45+) Mumbai, Maharashtra, 400001.	NA	NA	NA	NA	48	NA	NA
BORIVALI HIGH SCHOOL (Age 45+) Mumbai, Maharashtra, 400054.	50	NA	NA	NA	NA	NA	NA
KATTANGOOR (Age 45+) Mumbai, Maharashtra, 400001.	NA	NA	NA	NA	50	NA	NA
KURMARTHY (Age 45+) Mumbai, Maharashtra, 400001.	NA	NA	NA	NA	50	NA	NA
NALGONDASESSION (Age 45+) Mumbai, Maharashtra, 400051.	NA	NA	NA	NA	50	NA	NA

Tracking Vaccination – *Book for up to 4 individuals, check schedule & download certificate*



×
Reschedule
Appointment Slip
Certificate
Schedule

Account Details

Registered Mobile Number: XXX-XXX-6168

Not Vaccinated

Palak Gosai

Year of Birth: 2003 Photo ID: PAN Card ID Number: XXXX-493G

Dose 1
Suncity Hospital, 26 Apr 2021

Partially Vaccinated

13 Days Left for dose 2

Krunal G

Year of Birth: 1960 Photo ID: PAN Card ID Number: XXXX-456G

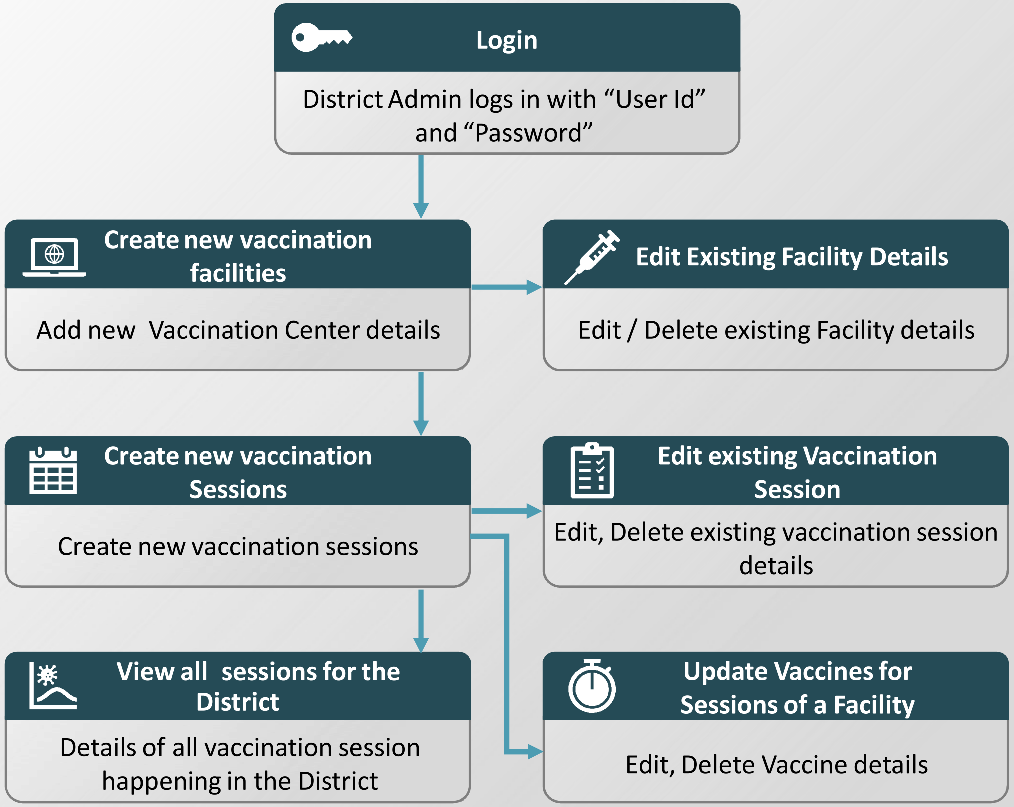
Dose 1
Appointment details not available

Dose 2
Due date 07 May 2021

For the Managers & Vaccinators

Advantages for Managers – *Uniform access across private and public, fixed or mobile*

Process Flow



Login

District Admin logs in with “User Id” and “Password”

Create new vaccination facilities

Add new Vaccination Center details

Edit Existing Facility Details

Edit / Delete existing Facility details

Create new vaccination Sessions

Create new vaccination sessions

Edit existing Vaccination Session

Edit, Delete existing vaccination session details

View all sessions for the District

Details of all vaccination session happening in the District

Update Vaccines for Sessions of a Facility

Edit, Delete Vaccine details

Features for Vaccinators

Vaccine Stock Management

Verify validity of stock supplied
Traceability of each vial of vaccine

Publishing Vaccine Schedules

Declare availability based on stock daily & define quotas for categories

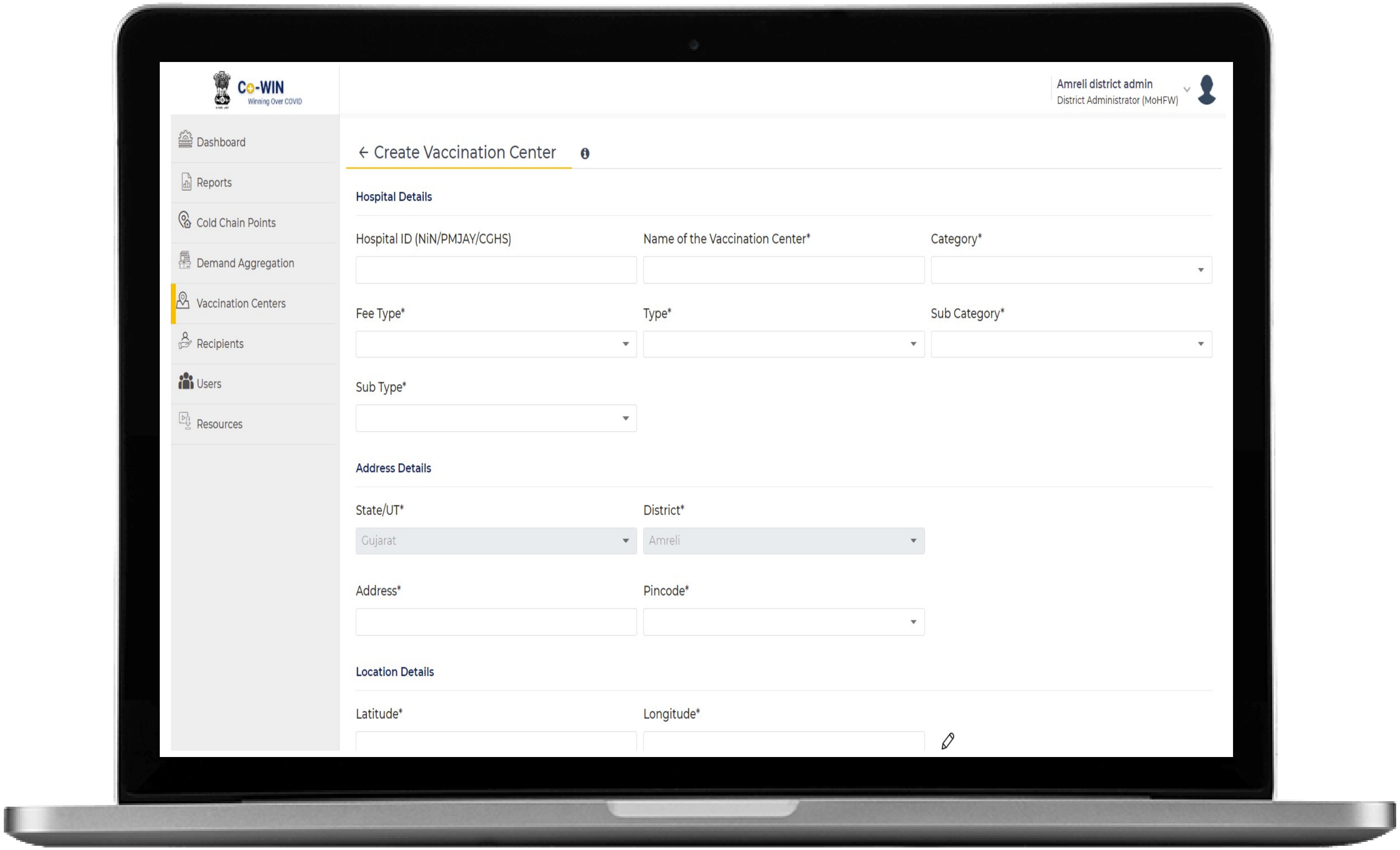
Verification of Citizens

Authenticate at point of vaccination Upload records of HCWs/ FLWs

Realtime Dashboards

Analytics provided to view all sessions at a vaccination facility

Onboarding Hospitals – *Registering vaccinating organizations on CoWIN*


Co-WIN
Winning Over COVID
Dashboard
Reports
Cold Chain Points
Demand Aggregation
Vaccination Centers
Recipients
Users
Resources
Amreli district admin
District Administrator (MoHFW)

← Create Vaccination Center

Hospital Details

Hospital ID (NiN/PMJAY/CGHS)

Name of the Vaccination Center*

Category*

Fee Type*

Type*

Sub Category*

Sub Type*

Address Details

State/UT*: Gujarat

District*: Amreli

Address*

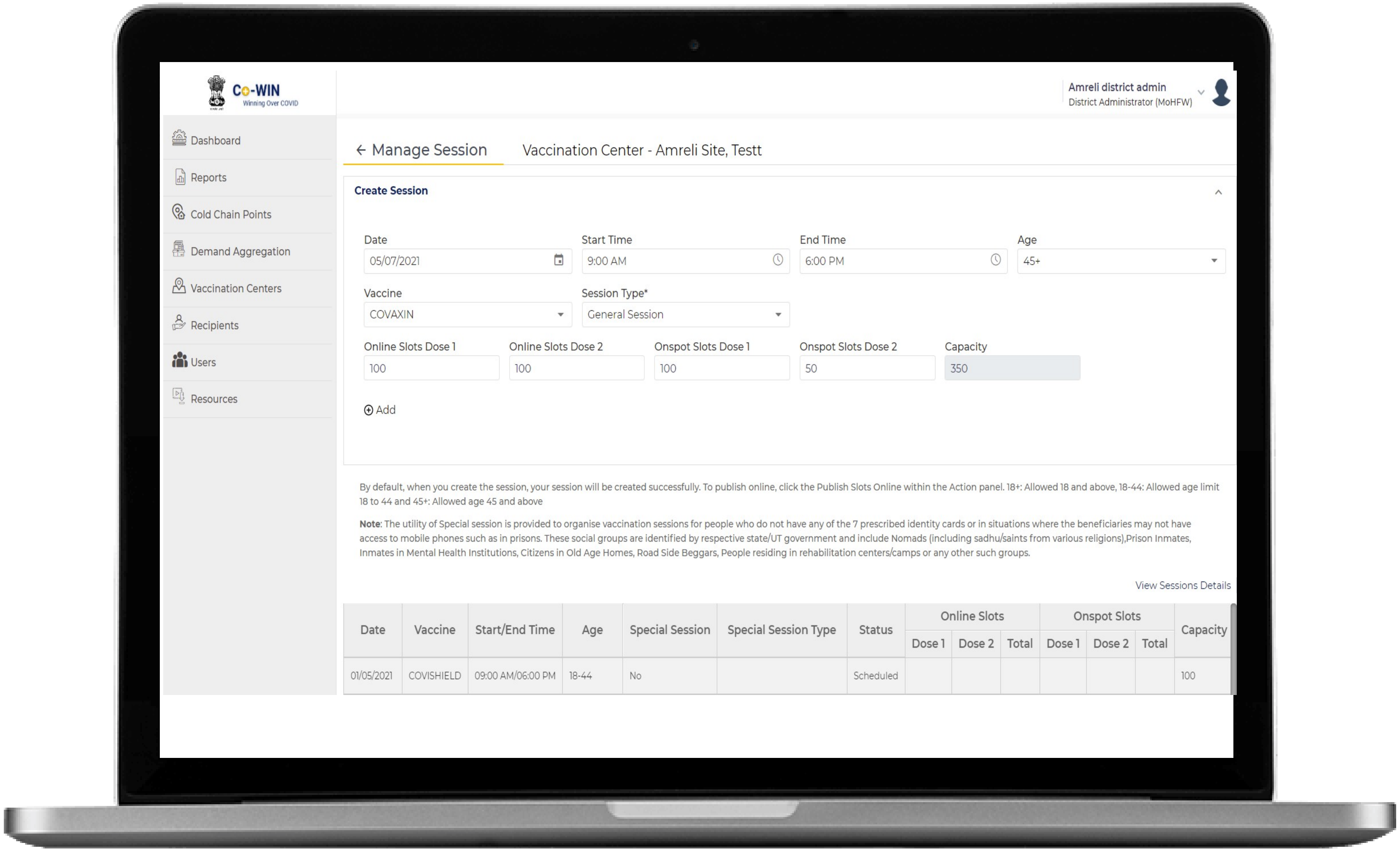
Pincode*

Location Details

Latitude*

Longitude*

Session Management – *Vaccination control, based on both vaccines & categories*


Co-WIN
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Amreli district admin
District Administrator (MoHFW)
Dashboard
Reports
Cold Chain Points
Demand Aggregation
Vaccination Centers
Recipients
Users
Resources
Manage Session
Create Session
Add
View Sessions Details

Vaccination Center - Amreli Site, Testt

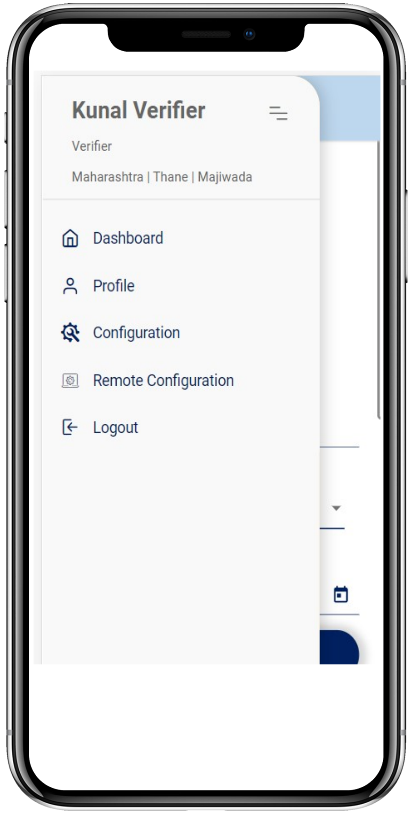
Date: 05/07/2021
Start Time: 9:00 AM
End Time: 6:00 PM
Age: 45+
Vaccine: COVAXIN
Session Type*: General Session
Online Slots Dose 1: 100
Online Slots Dose 2: 100
Onspot Slots Dose 1: 100
Onspot Slots Dose 2: 50
Capacity: 350

By default, when you create the session, your session will be created successfully. To publish online, click the Publish Slots Online within the Action panel. 18+: Allowed 18 and above, 18-44: Allowed age limit 18 to 44 and 45+: Allowed age 45 and above

Note: The utility of Special session is provided to organise vaccination sessions for people who do not have any of the 7 prescribed identity cards or in situations where the beneficiaries may not have access to mobile phones such as in prisons. These social groups are identified by respective state/UT government and include Nomads (including sadhu/saints from various religions),Prison Inmates, Inmates in Mental Health Institutions, Citizens in Old Age Homes, Road Side Beggars, People residing in rehabilitation centers/camps or any other such groups.

Date	Vaccine	Start/End Time	Age	Special Session	Special Session Type	Status	Online Slots			Onspot Slots			Capacity
							Dose 1	Dose 2	Total	Dose 1	Dose 2	Total	
01/05/2021	COVISHIELD	09:00 AM/06:00 PM	18-44	No		Scheduled							100

Mobile Access for Vaccinators – *Plug and play solution for Vaccinators*

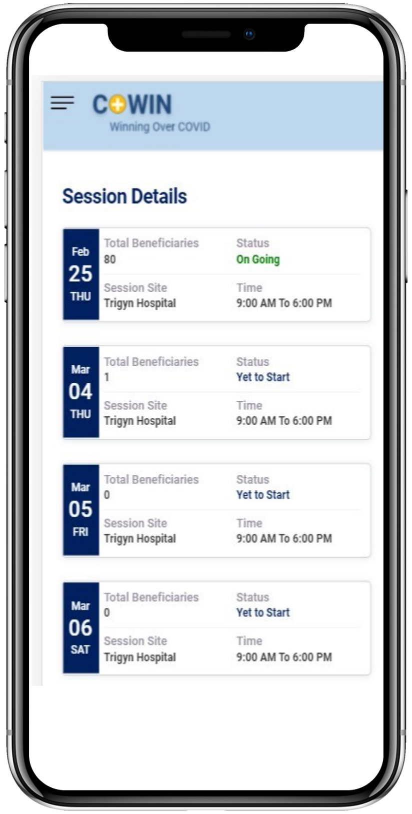


Kunal Verifier

Verifier

Maharashtra | Thane | Majiwada

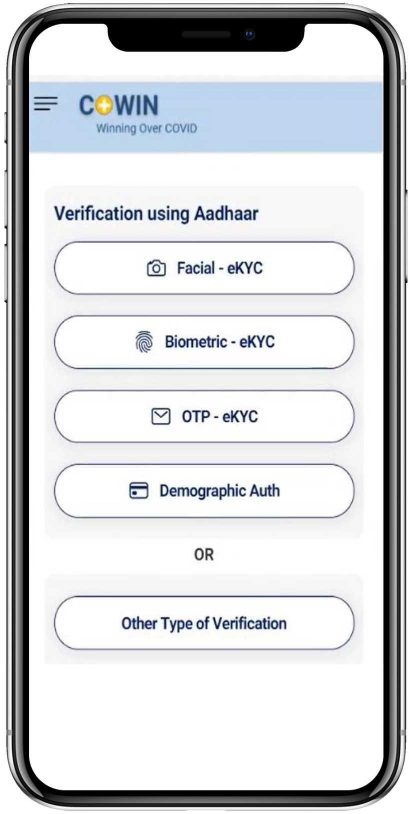
Dashboard
Profile
Configuration
Remote Configuration
Logout



COWIN
Winning Over COVID

Session Details

Date	Total Beneficiaries	Status	Session Site	Time
Feb 25 THU	80	On Going	Trigyn Hospital	9:00 AM To 6:00 PM
Mar 04 THU	1	Yet to Start	Trigyn Hospital	9:00 AM To 6:00 PM
Mar 05 FRI	0	Yet to Start	Trigyn Hospital	9:00 AM To 6:00 PM
Mar 06 SAT	0	Yet to Start	Trigyn Hospital	9:00 AM To 6:00 PM



COWIN
Winning Over COVID

Verification using Aadhaar

Facial - eKYC
Biometric - eKYC
OTP - eKYC
Demographic Auth
OR
Other Type of Verification

For the Policy Makers and Administrators

Advantages for Policy Makers – *No information asymmetry and alignment of departments*

Single Source of Truth

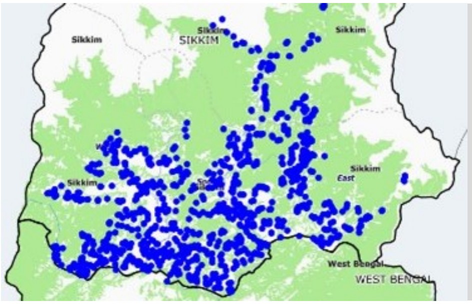
Aligns all stakeholders to prevent any form of rent-seeking and truly making each stakeholder accountable for their actions

Tracking AEFI for Vaccines

Allows recording of AEFI to form data-driven public health policy and evaluate the efficacy of different vaccines

Efficient Tracking of Certificates

Providing a reference point post first dose to guide citizens to follow the vaccination schedule and get the same second dose as first



Evaluating Geographical coverage

Facilitates coverage at a granular geographical level that helps get a view of each district at a state level to evaluate progress of vaccination

Inclusivity

Multiple modes of registration in offline walk-ins, online and assisted through help centres and call centres ensure access for all

CoWIN Dashboard – *Transparency of data for all stakeholders*

Features provided by Dashboard

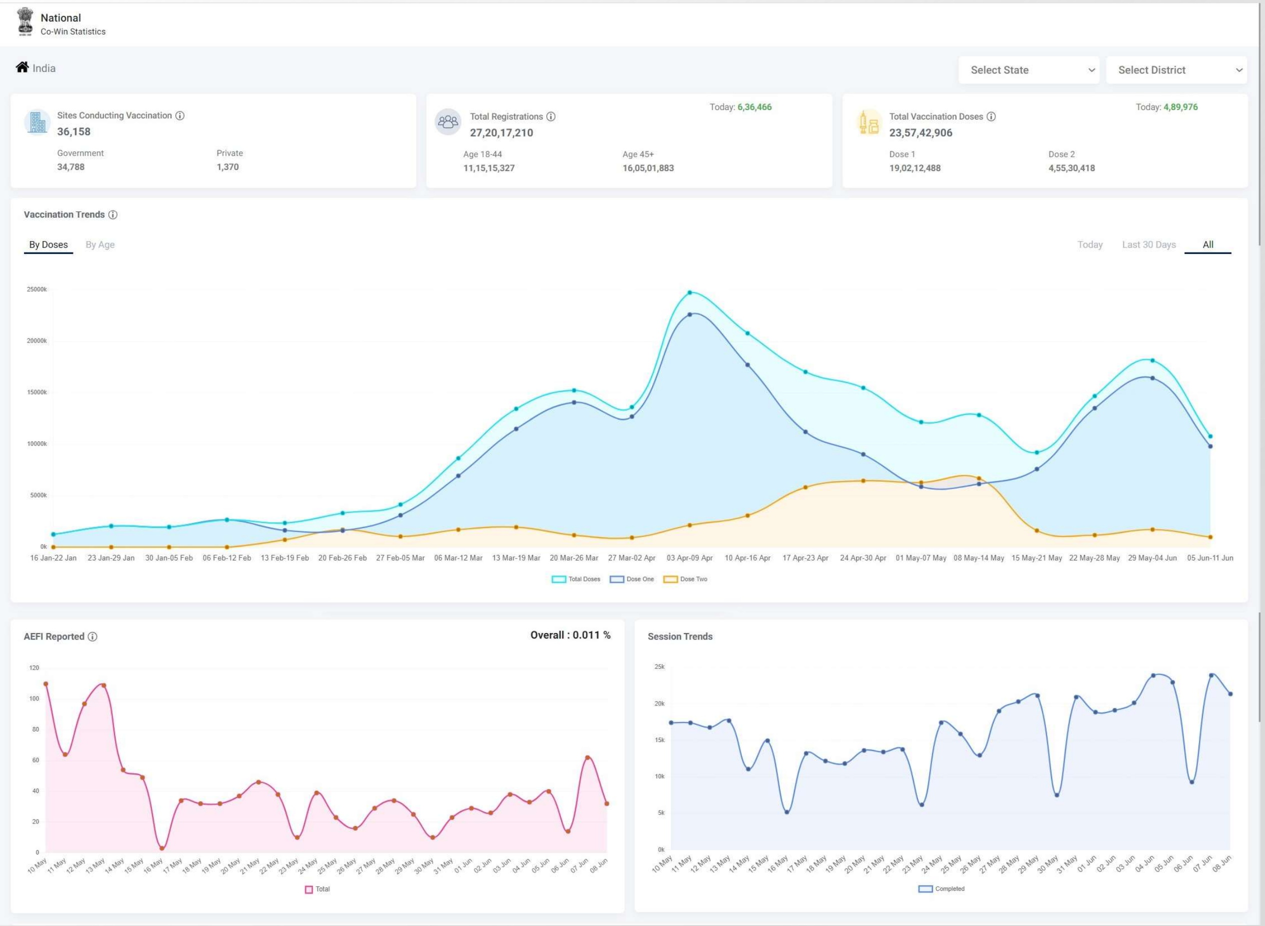
- Live Vaccinations Centres
- # of Citizens Registered
- # of Vaccine doses Administered
- Split b/w 1st & 2nd Dose
- AEFI reports
- Distribution by States & District
- Split by Age and Gender
- Split by Vaccines brands

Accessible by all

Hospitals
Vaccinators

Policy Makers
State & District
Administrators

All Citizens and
foreign entities



National
Co-Win Statistics

India

Select State

Select District

Sites Conducting Vaccination
36,158
Government 34,788
Private 1,370

Total Registrations
27,20,17,210
Today: 6,36,466
Age 18-44 11,15,15,327
Age 45+ 16,05,01,883

Total Vaccination Doses
23,57,42,906
Today: 4,89,976
Dose 1 19,02,12,488
Dose 2 4,55,30,418

Vaccination Trends

By Doses
By Age
Today
Last 30 Days
All
25000k
20000k
15000k
10000k
5000k
0k
16 Jan-22 Jan
23 Jan-29 Jan
30 Jan-05 Feb
06 Feb-12 Feb
13 Feb-19 Feb
20 Feb-26 Feb
27 Feb-05 Mar
06 Mar-12 Mar
13 Mar-19 Mar
20 Mar-26 Mar
27 Mar-02 Apr
03 Apr-09 Apr
10 Apr-16 Apr
17 Apr-23 Apr
24 Apr-30 Apr
01 May-07 May
08 May-14 May
15 May-21 May
22 May-28 May
29 May-04 Jun
05 Jun-11 Jun
Total Doses
Dose One
Dose Two

AEFI Reported

Overall : 0.011 %

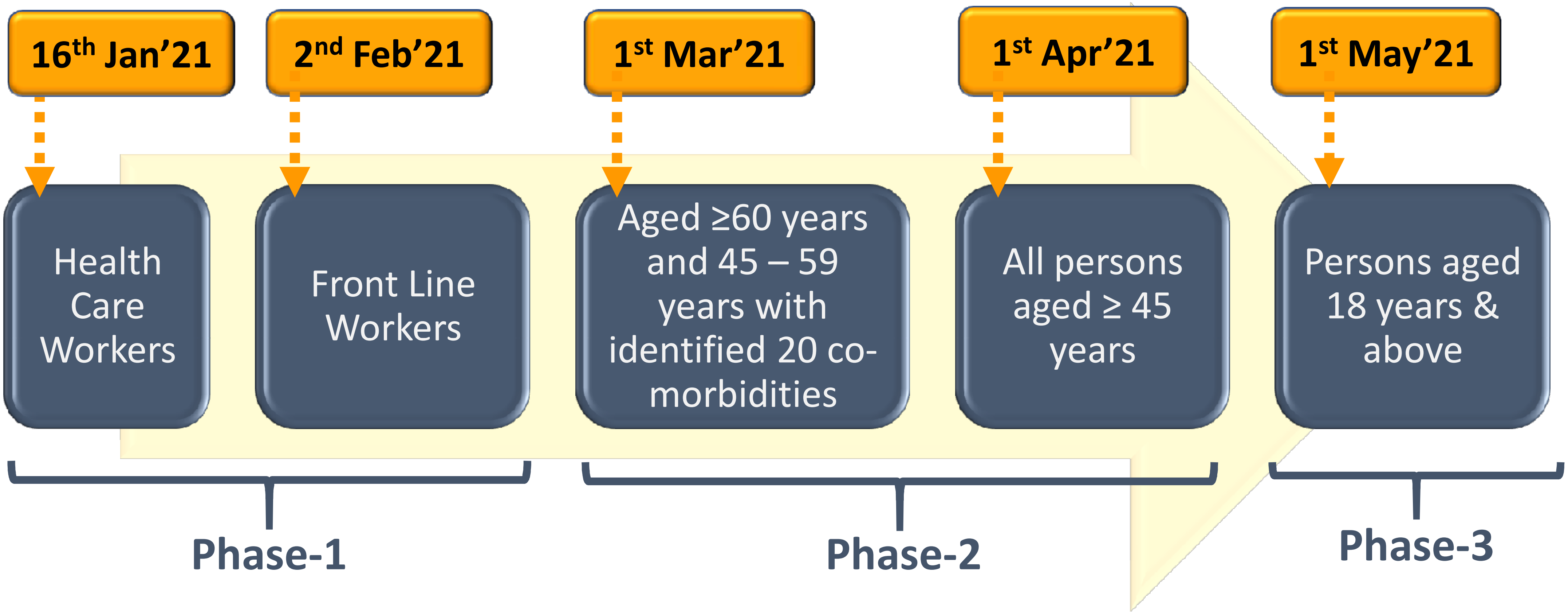
120
100
80
60
40
20
0
10 May
08 Jun
Total

Session Trends

25k
20k
15k
10k
5k
0k
10 May
08 Jun
Completed

Live Co-WIN Dashboard - https://dashboard.cowin.gov.in/

National COVID-19 Vaccination Milestones



16th Jan’21

Health Care Workers

2nd Feb’21

Front Line Workers

1st Mar’21

Aged ≥60 years and 45 – 59 years with identified 20 co-morbidities

1st Apr’21

All persons aged ≥ 45 years

1st May’21

Persons aged 18 years & above

Phase-1

Phase-2

Phase-3

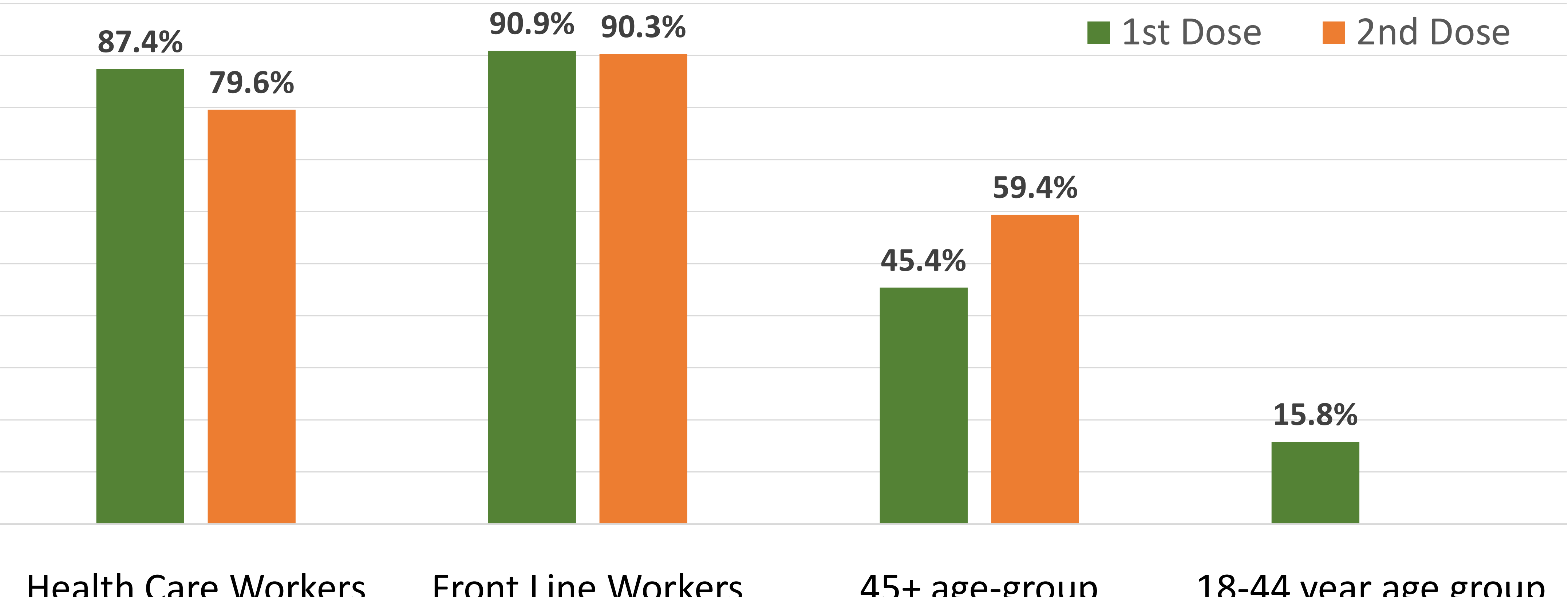
Phase 1 aim – To protect & strengthen the healthcare & pandemic response system and professionals who man it.

Phase 2 aim – To protect the most vulnerable population i.e. ≥ 45 years (contributing to 80% of COVID related mortality in the country).

Phase 3 aim – To protect the entire at risk population i.e. 18 years and above via a rapid scale up of vaccination

Vaccination Coverage in priority groups

(As on 2nd July'21)



2nd dose coverage against eligible beneficiaries i.e. 4 weeks after 1st dose of Covaxin and 12 weeks after 1st dose of Covishield

Co-WIN – Using technology to reach the unreached

Population
136 crore
~29.35 crore - at least one dose

Male: Female
1000 : 943
Coverage (doses)
1000 : 861

Rural : Urban
65 : 35
Coverage (doses)
57:43

Tribal Population (9%)
Coverage (doses/million)
100:122

Availability of internet – No constraint
Coverage (Doses)
22:78 (Online : Onsite)

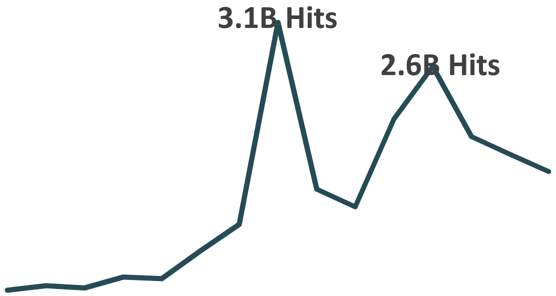
Sustainability of Co-WIN – *Fastest to be built, sustainable at scale of billion+ users*

200 Million+ in 4 Months

Time to Market

Fastest tech platform globally to amass 200 million registrations in <four months

Even tech giants took 14 months or more to even reach 100 million users



Robust System

Co-WIN handles a billion+ visits daily, and recorded **3.1 billion visits in a day**

Handled 13.7 million registrations within 8 hours of opening for 18 to 44 years

Privacy and Security

Minimal data inputs are taken from citizens, and no breaches of security recorded till date

State-of-the-art security checks in place

Vaccinator
STOP!

A BIG SALUTE AND THANKS TO OUR FRONTLINE WORKERS WHO OVERCAME ALL THE CHALLENGES TO MAKE INDIA THE FASTEST COUNTRY TO ADMINISTER MORE THAN 350 Million DOSES

#जज़्बे को सलाम #शक्ति को प्रणाम

OUR PARTNERS

सत्यमेव जयते

national health authority

Aarogya Setu

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UNDP

Empowered lives.
Resilient nations.

CSC

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Document Wallet to Empower Citizens

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Thank You