

# Covid 19 vaccine rollout and digital tools in India

## Dr Pradeep Haldar (Advisor RCH)

# Presentation Overview

Basic Principles for  
COVID-19  
Vaccination

Electronic Platform  
for registration and  
reporting

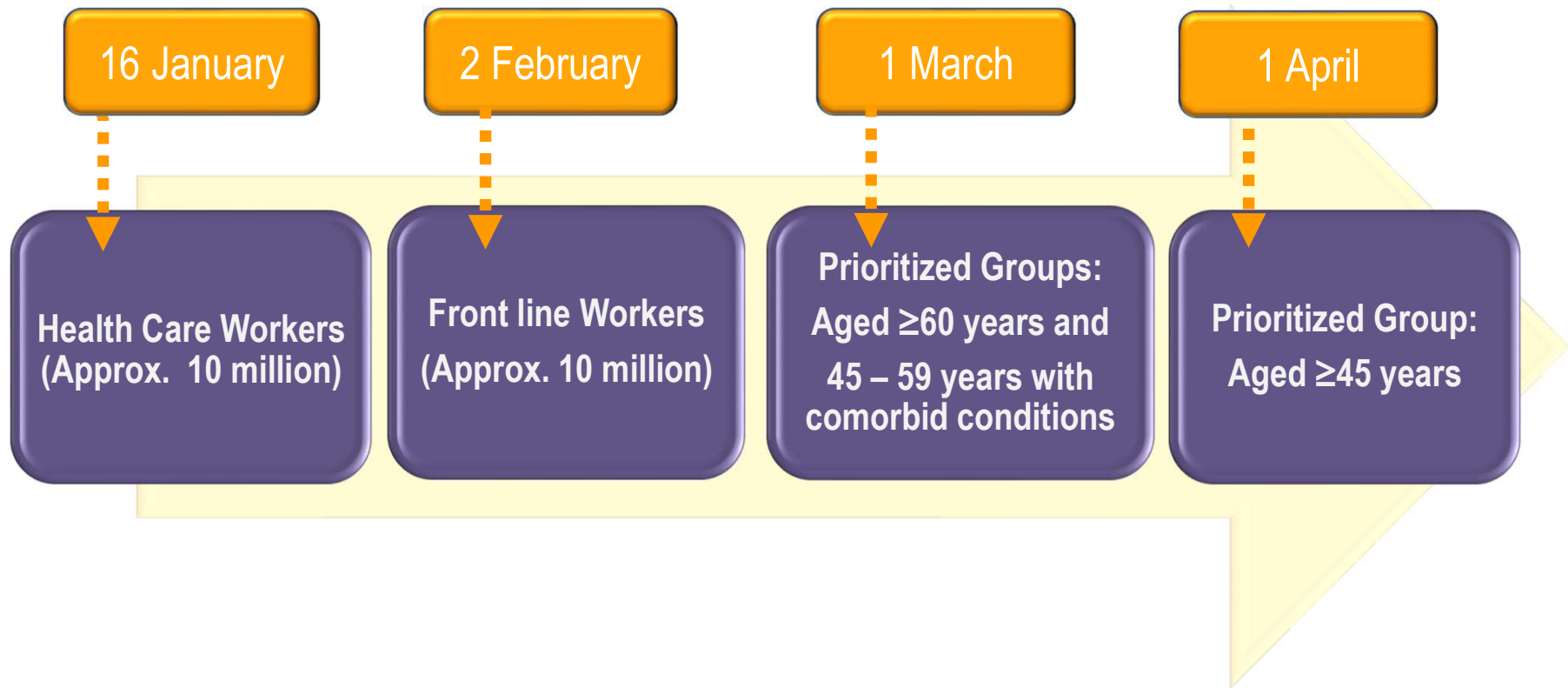
Tracking and  
Monitoring of  
Activities

# Basic Principles for COVID-19 Vaccination

- Vaccines from two manufactures being used
  - Covishield from SII and Covaxin from Bharat Biotech
  - One session having one type of vaccine to avoid mixing
- Routine Vaccination services continued as per plan
  - Vaccinators and other team members beyond routine immunization
- Cold chain capacity assessed and augmented
  - 22,863 electric equipment (4427 cubic meter)
  - 202,478 non-electric equipment (923 cubic meter)
- Cascaded training conducted using virtual platforms and face to face methods
  - 76,000 programme officers; 260,000 vaccinators and 475,000 team members oriented
- Managing adverse events at session site
  - All vaccination sessions equipped with Anaphylaxis kit
  - Vaccinators oriented to identify and manage anaphylaxis



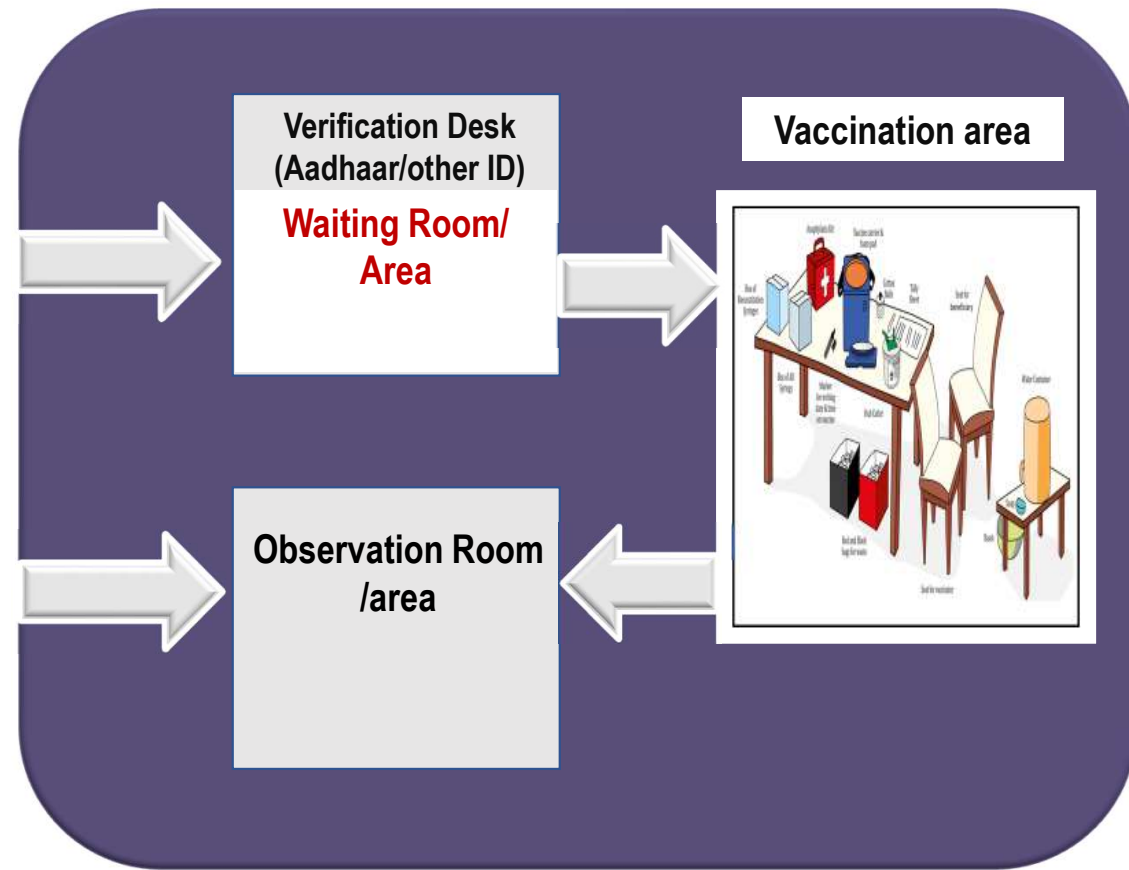
# Prioritization of Beneficiaries for COVID-19 Vaccination



Goal is to protect people, minimize societal and economic impact by reducing COVID-19 mortality

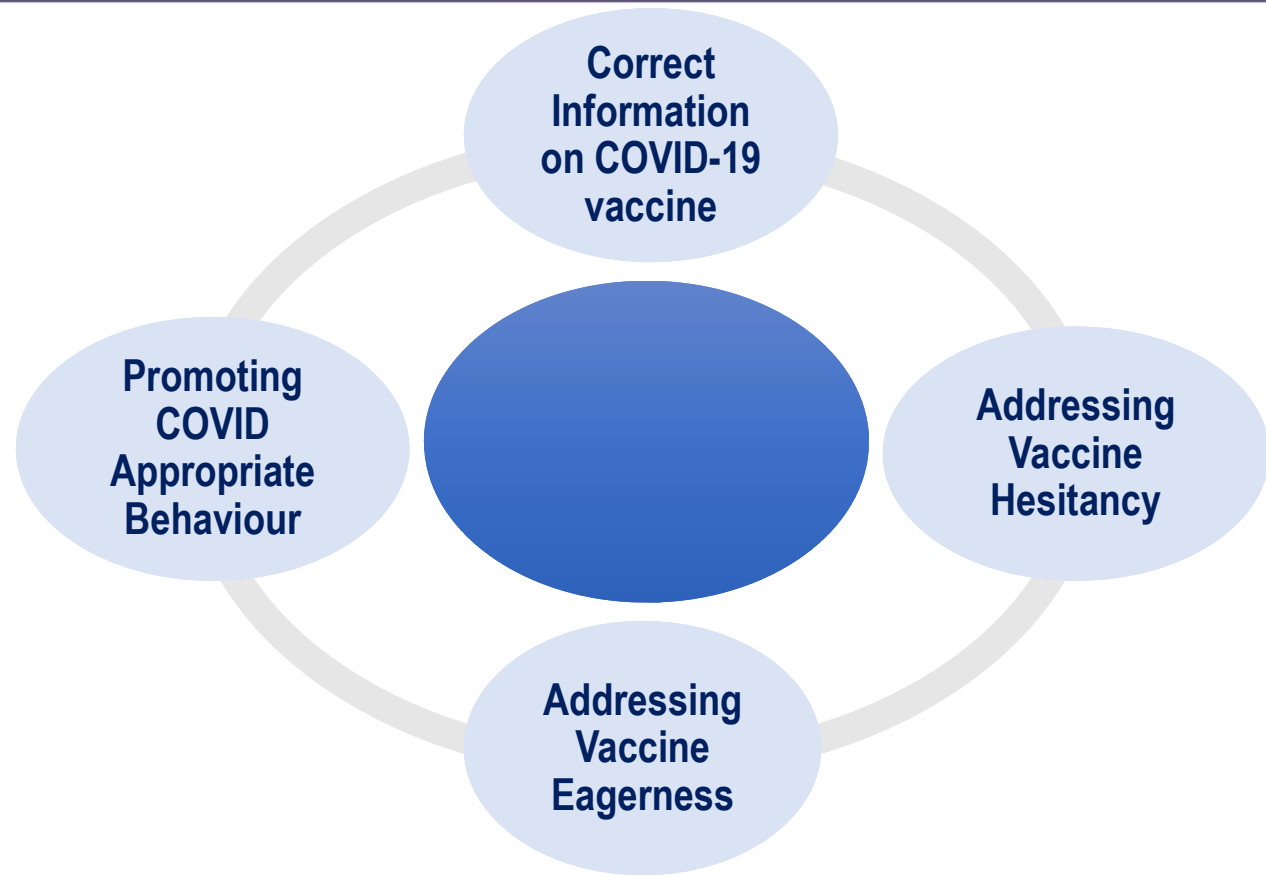
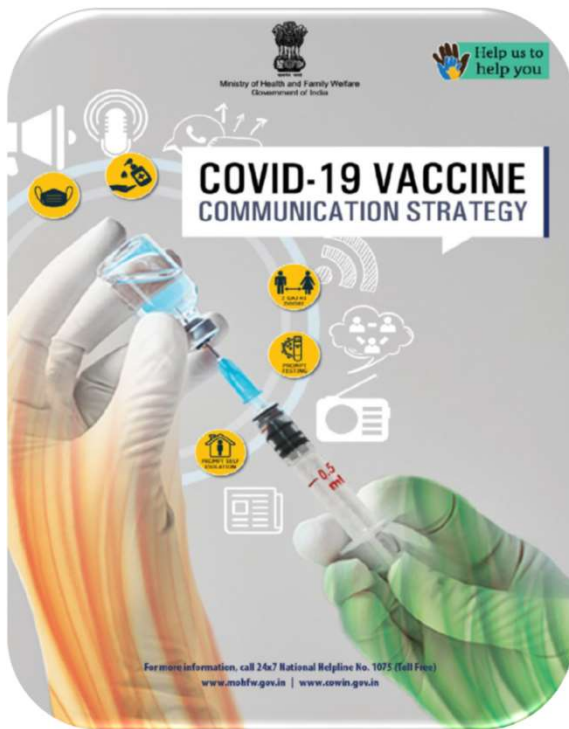
# Vaccination Site to Follow CAB

- Designate a separate entry and exit
- Designate 3 separate rooms or areas
  - **Waiting room**
  - **Vaccination Room**
  - **Observation Room**
- Infection prevention measures and physical distancing at session site
- Avoid criss-cross movement of beneficiaries at session site



Five-member team to vaccinate 100 beneficiaries

# Communication Strategy for Vaccination



COVID-19 vaccination is voluntary, through positive and correct information around vaccine, a positive vaccine seeking behavior has to be promoted.

# Steps Involved in Vaccination



REGISTRATION

Beneficiary  
Registration



Microplanning



Vaccination at  
planned site

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# Existing Platform Leveraged for COVID-19 Vaccination

## (From Electronic Vaccination Intelligence Network (eVIN) to Co-WIN)

### eVIN Mobile App

Easy-to-use **mobile app** for recording vaccine data

#### Health Worker updates:

- Issues
- Discards
- Receipts
- Orders
- Stock Counts

### Temperature Logger

Temperature loggers for accurate remote temperature monitoring in real time



### Co-WIN Dashboard

Web interface for real-time visibility

### Co-WIN App

#### Health Worker/ Manager is able to visualize:

- Alerts on low stock/expiry
- Optimal order recommendations
- SOP reminders
- Beneficiary Vaccination Status
- Monitoring Coverage

### Co-WIN Beneficiary Management Platform

#### Beneficiary

- Beneficiaries tracking
- Vaccination Session Management



# Scheduling Appointment in Co-WIN

The screenshot shows the Co-WIN self-registration process on the website selfregistration.cowin.gov.in. The page header includes the Government of India logo, Ministry of Health, and Co-WIN logo. The navigation bar contains the text "GOVERNMENT OF INDIA" and "FAQ | Toll free helpline number : 1075".

The main content area is divided into four panels:

- Panel 1: Register or SignIn for Vaccination**  
Text: "We will send you a One Time Password on your phone number"  
Form: "Enter Mobile Number" with input field containing "8800797666"  
Buttons: "GET OTP", "SignIn With AarogyaSetu", "SignIn With UMANG"
- Panel 2: Verification**  
Text: "You will get OTP via sms"  
Form: "Enter OTP" with input field containing "591078"  
Text: "161 sec"  
Buttons: "VERIFY"  
Text: "OTP Sent Successfully to Your Mobile"
- Panel 3: Register for Vaccination**  
Text: "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."  
Form: "Photo ID Proof" (dropdown), "Photo ID Number", "Name", "Gender" (radio buttons for Male, Female, Others), "Year of Birth"  
Buttons: "ADD"  
Text: "\* All fields are mandatory"
- Panel 4: Book Appointment for Vaccination**  
Text: "Choose your vaccination center near by"  
Form: "Search by District" with input field "Enter your Pincode" and "Search" button

Appointment confirmation message



Step – 1  
Register in Co-WIN

Step – 2  
Verify mobile number

Step – 3  
Provide basic details

Step – 4  
Schedule appointment

# SMS and Electronic Certificate Following Vaccination


Beneficiary vaccinated


SMS notification for particular dose with next date & time for subsequent dose

Digital certificate with QR Code

## SMS & Certificate template




  
सत्यमेव जयते

Certificate of Vaccination 

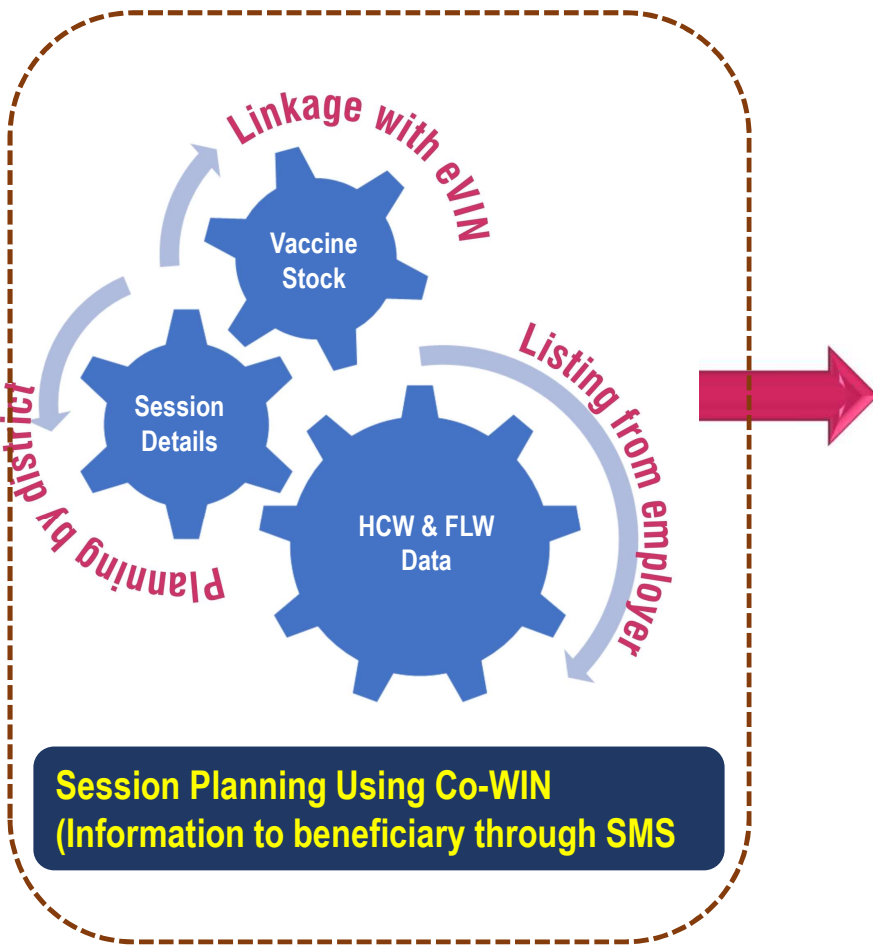
This is to certify that *Mrs. Sangeeta* Date of Birth *11/4/1967* resident of *8-101 Malviya Nagar, Jaipur, Rajasthan, 302017* is successfully vaccinated for Corona Virus as per schedule below:

Dose	Date	Place	Vaccinator	Vaccine Batch #
1 <sup>st</sup>	4/4/2021	AWC1, Jaipur	Santosh	1120BCCL-SII
2 <sup>nd</sup>	5/7/2021	AWC1, Jaipur	Santosh	234ME22-SII
3 <sup>rd</sup>	7/10/2021	AWC1, Jaipur	Santosh	3NJC2222-SII



Authorized Signatory

# Utilizing Learnings from HCW and FLW Vaccination



## Increasing vaccine accessibility:

- Vaccine also at private health facilities
- Vaccination at workplaces ( $\geq 100$  beneficiaries)
- Nearly 67,000 vaccination sites

## Simplified registration Process:

- Advance Self Registration and Appointment
- Facilitated registration through mobilizer
- Registration of walk-in beneficiaries

# Presentation Overview

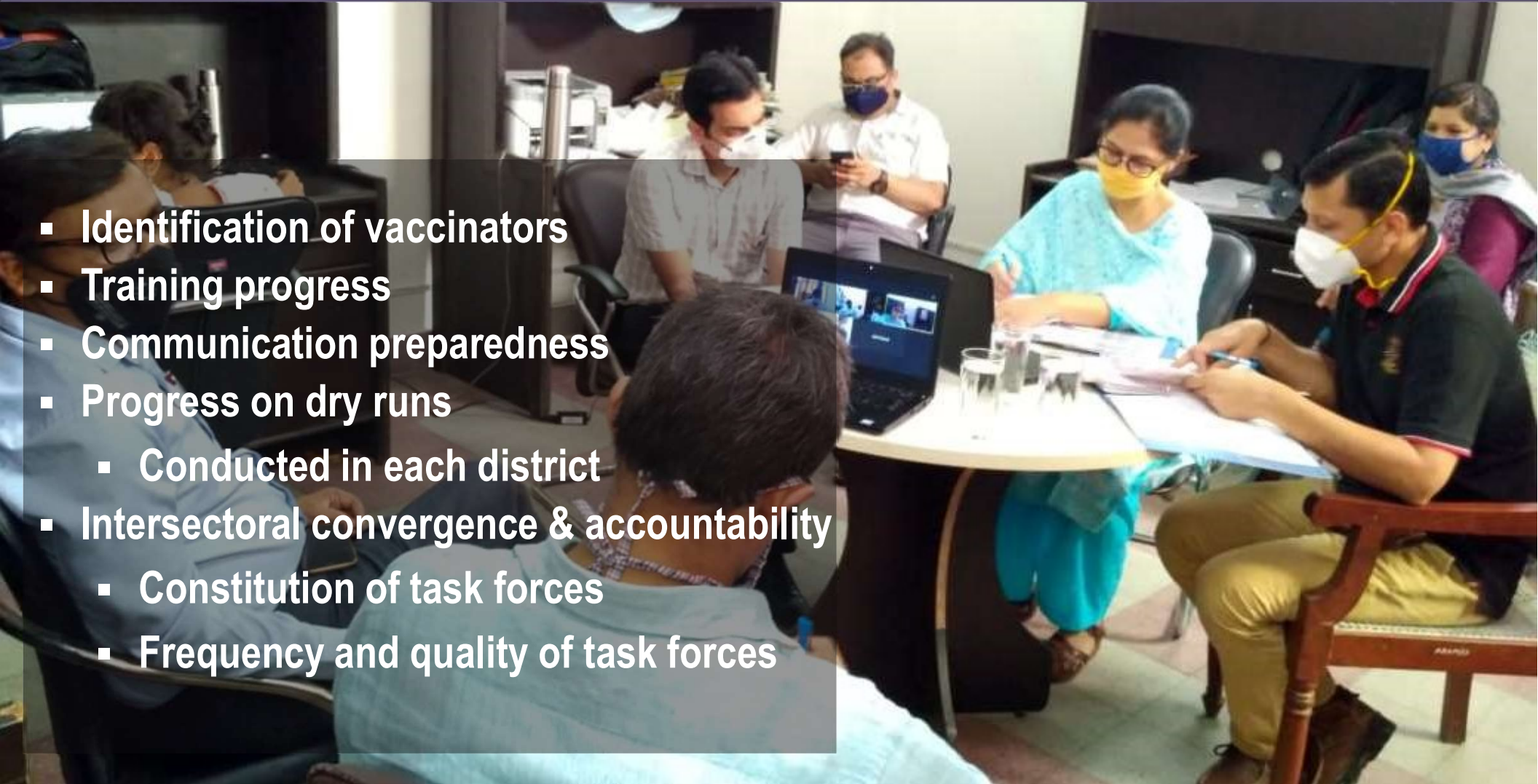
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# Tracking Preparedness Activities

- Identification of vaccinators
- Training progress
- Communication preparedness
- Progress on dry runs
  - Conducted in each district
- Intersectoral convergence & accountability
  - Constitution of task forces
  - Frequency and quality of task forces



# Tracking Tools to Capture Preparedness

S.No	State	District	Updated as of (DD/MM/YY) Date	Status of training (Completed/ Ongoing/ Planned/ Yet to be planned)	Modality of training (Virtual/ Face to face/Both)	No. of vaccinators expected	No. of vaccinators attended
1	Uttar Pradesh	Agra	2021-01-15	Completed	Face to face	136	136
2	Uttar Pradesh	Aligarh	2021-01-15	Completed	Face to face	156	156
3	Uttar Pradesh	Allahabad	2021-01-15	Ongoing	Face to face	146	
4	Uttar Pradesh	Ambedkar Nagar	2021-01-15	Planned	Face to face	56	
5	Uttar Pradesh	Amethi	2021-01-15	Completed	Face to face	54	54
6	Uttar Pradesh	Amroha	2021-01-15	Planned	Face to face	28	
7	Uttar Pradesh	Auraya	2021-01-15	Completed	Face to face	145	145
8	Uttar Pradesh	Azamgarh	2021-01-15	Yet to be planned		44	
9	Uttar Pradesh	Badaun	2021-01-15	Completed	Face to face	15	15
10	Uttar Pradesh	Badli	2021-01-15	Yet to be planned		10	
11	Uttar Pradesh	Baghpat	2021-01-15	Completed	Face to face	24	24
12	Uttar Pradesh	Bahraich	2021-01-15	Planned		66	
13	Uttar Pradesh	Ballia	2021-01-15	Completed	Face to face	60	60
14	Uttar Pradesh	Bairampur	2021-01-15	Ongoing	Face to face	48	
15	Uttar Pradesh	Banda	2021-01-15	Yet to be planned		44	
16	Uttar Pradesh	Barabanki	2021-01-15	Ongoing	Face to face	74	
17	Uttar Pradesh	Bareilly	2021-01-15	Completed	Face to face	16	16
18	Uttar Pradesh	Basti	2021-01-15	Completed	Face to face	72	72
19	Uttar Pradesh	Bijnor	2021-01-15	Completed	Face to face	62	62
20	Uttar Pradesh	Bulandshahr	2021-01-15	Completed	Face to face	122	122

S.No	Type	Region	State/UT	Date of feedback updated	Date of validation	Task Force formed (Yes/No)	Task Force meeting held	Chaired by	Remarks
4	STF	Bihar	BIHAR	2/2/2021	Yes	2/2/2021	Meeting chaired by Principal Secretary		
5	STF	Bihar	BIHAR	2/11/2021	Yes	2/2/2021	Meeting chaired by Principal Secretary		
6	STF	Bihar	BIHAR	2/11/2021	Yes	2/4/2021	Meeting chaired by Principal Secretary		
7	STF	Bihar	BIHAR	2/11/2021	Yes	2/5/2021	Meeting chaired by Principal Secretary		
8	STF	Bihar	BIHAR	2/11/2021	Yes	2/6/2021	Meeting chaired by Principal Secretary		
9	STF	Bihar	BIHAR	2/11/2021	Yes	2/8/2021	Meeting chaired by Principal Secretary		
10	STF	Bihar	BIHAR	2/11/2021	Yes	2/9/2021	Meeting chaired by Principal Secretary		
11	STF	Bihar	BIHAR	2/11/2021	Yes	2/10/2021	Meeting chaired by Principal Secretary		
12	STF	Bihar	BIHAR	2/11/2021	Yes	2/10/2021	Meeting chaired by Principal Secretary		
13	STF	Bihar	BIHAR	2/11/2021	0000-00-00	Yes	2/3/2021	Meeting chaired by Principal Secretary	
14	STF	Bihar	BIHAR	12/22/2020	1/4/2021	Yes	11/13/2020	Secretary	
15	STF	Bihar	BIHAR	12/22/2020	1/4/2021	Yes	12/5/2020	Meeting chaired by Principal Secretary	
16	STF	Bihar	JHARKHAND	9/9/2021	Yes	11/22/2021	Meeting chaired by Principal Secretary		06 STF of CC
17	STF	Bihar	JHARKHAND	12/22/2020	1/4/2021	Yes	9/21/2020	Secretary	STF on Gold
18	STF	Bihar	JHARKHAND	12/22/2020	1/4/2021	Yes	10/12/2020	Meeting chaired by Principal Secretary	Her future C
19	STF	Bihar	JHARKHAND	12/22/2020	1/4/2021	Yes	11/23/2020	Meeting not chaired by Principal Secretary	STF on Gold for COVID v
20	STF	Bihar	JHARKHAND	12/22/2020	1/4/2021	Yes	11/23/2020	Meeting not chaired by Principal Secretary	
21	STF	Bihar	JHARKHAND	12/22/2020	1/4/2021	Yes	11/22/2020	Secretary	
22	STF	Central	CHHATTISGARH	12/28/2020	2/3/2021	Yes	11/13/2020	Meeting chaired by Principal Secretary	1st STF
23	STF	Central	CHHATTISGARH	12/21/2020	2/3/2021	Yes	11/7/2020	Meeting chaired by Principal Secretary	2nd STF
24	STF	Central	CHHATTISGARH	12/23/2020	2/3/2021	Yes	11/15/2020	Meeting chaired by Principal Secretary	3rd STF
25	STF	Central	CHHATTISGARH	12/26/2020	2/3/2021	Yes	11/22/2020	Meeting chaired by Principal Secretary	4th STF
26	STF	Central	CHHATTISGARH	11/1/2021	2/3/2021	Yes	11/29/2020	Meeting chaired by Principal Secretary	5th STF
27	STF	Central	CHHATTISGARH	11/6/2021	2/3/2021	Yes	11/5/2021	Meeting chaired by Principal Secretary	6th STF
28	STF	Central	CHHATTISGARH	2/3/2021	2/3/2021	Yes	11/12/2021	Meeting chaired by Principal Secretary	7th STF

World Health Organization

Data Entry Form

STF/DTF

AEFI Data Entry Form

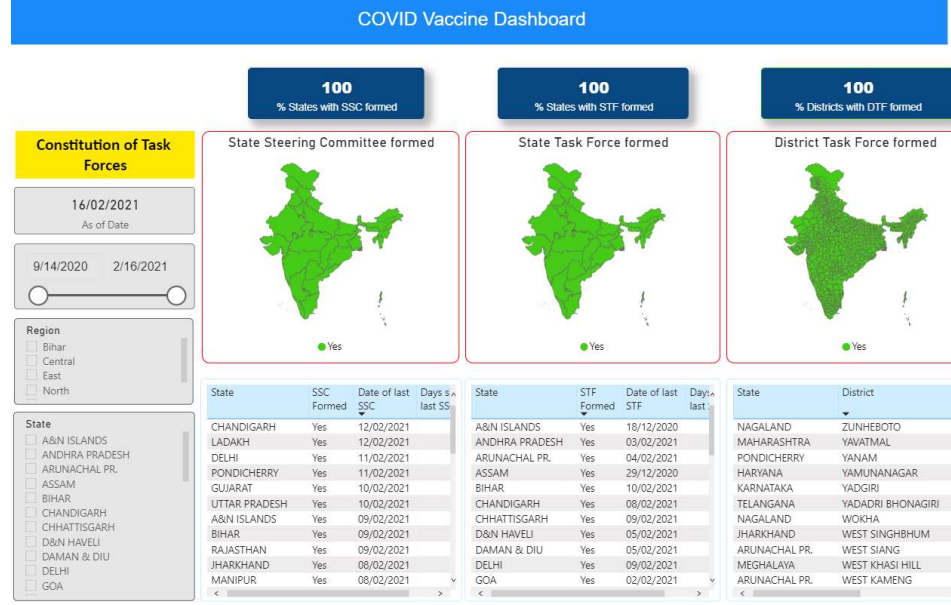
STF/DTF/OSLM/ODLM for COVID-19 Data Entry Form (Back)

Add New Records (Download/Edit)

Type

Select Category

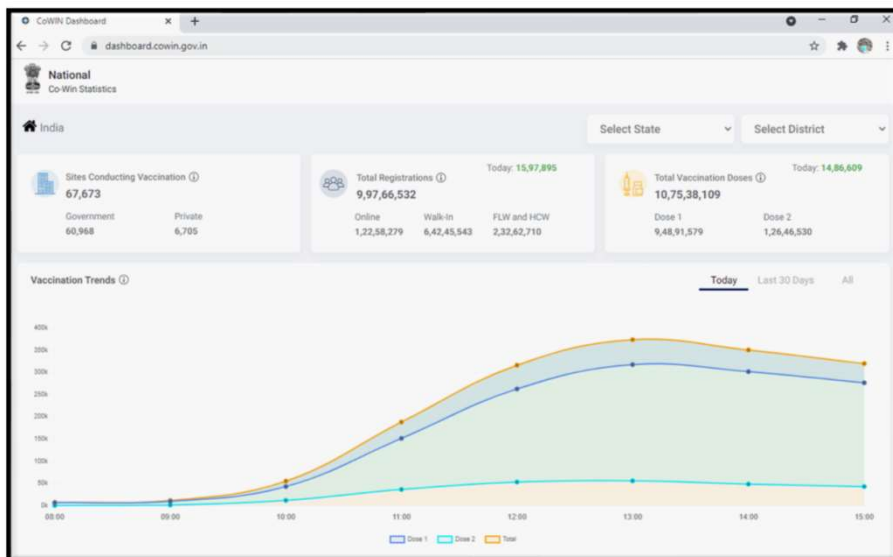
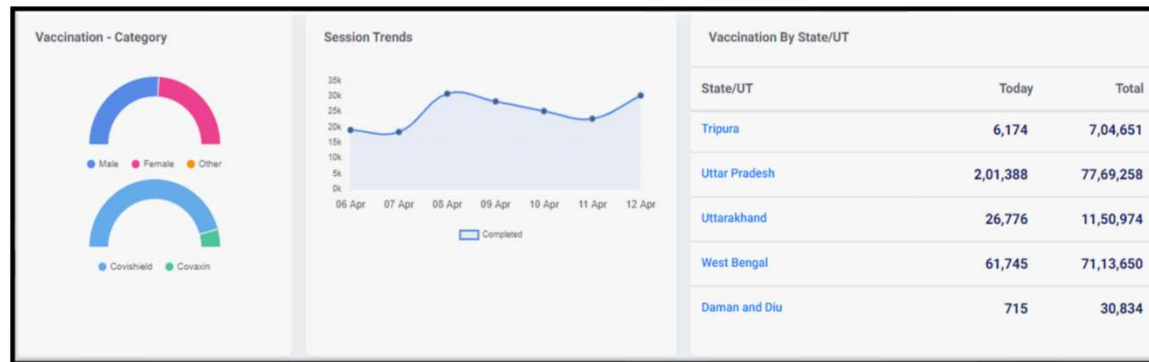
- State Steering Committee
- State Task Force
- Other state-level review meeting chaired by ACS / PS / MD (NHM)
- District Task Force
- Other district level review meeting chaired by DM / DC



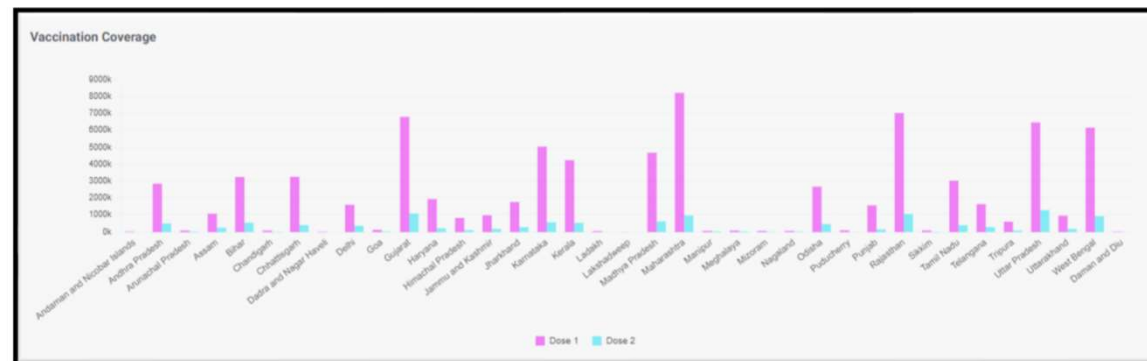
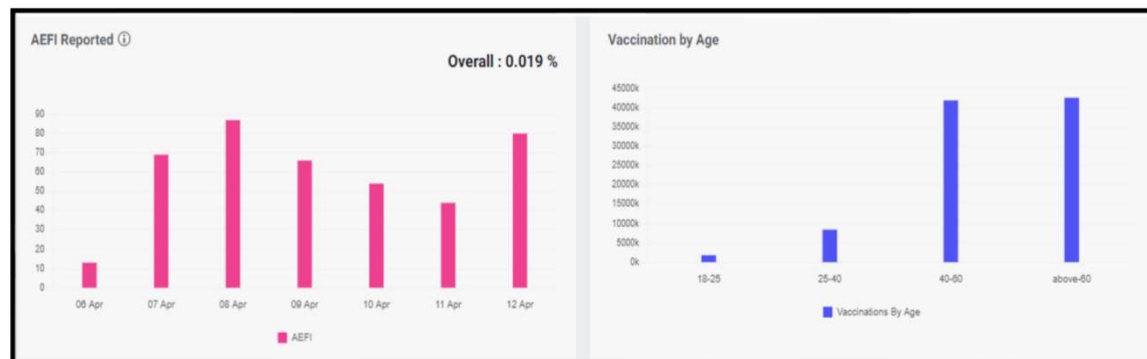
Data captured through Web Based Platforms and Google sheets

Feedback to guide corrective actions

# Vaccination Coverage and Trends, Session and AEFI details monitored through Co-WIN dash-board



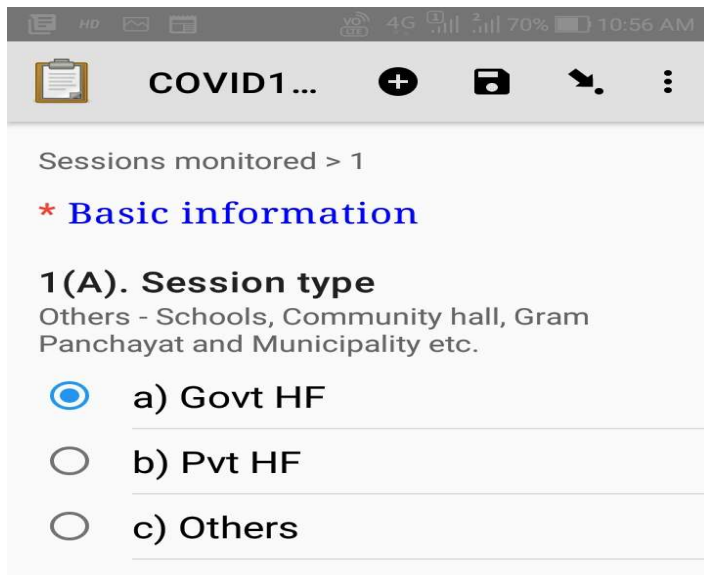
<https://dashboard.cowin.gov.in/>



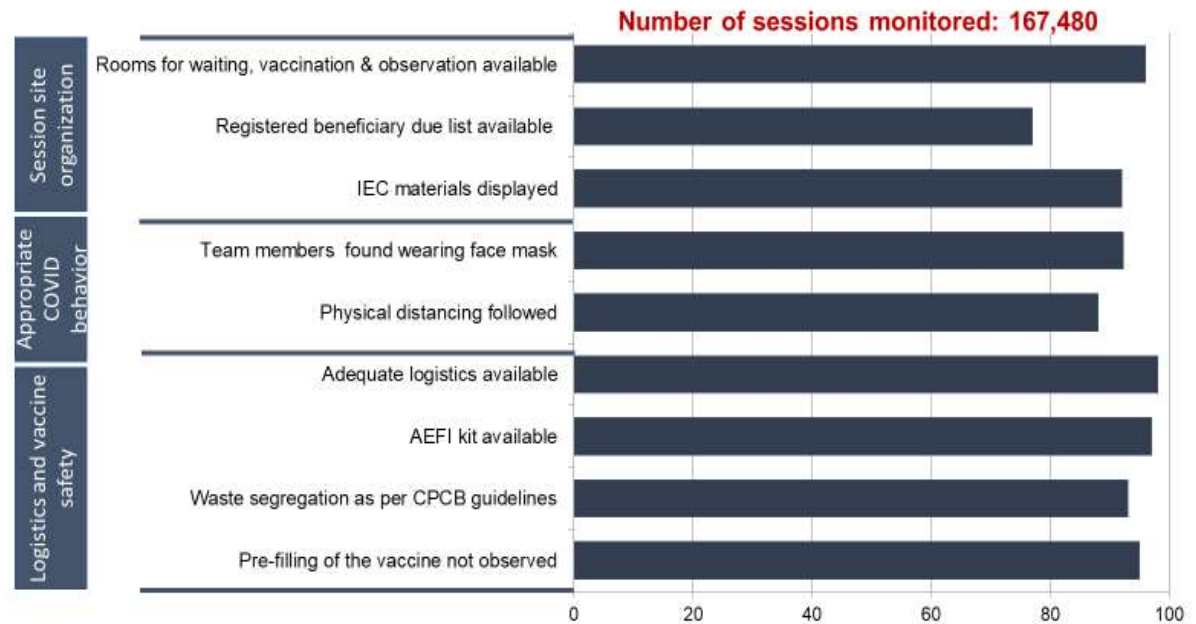


# Concurrent Monitoring Using Open Data Kit (ODK)

Standardized Monitoring Format  
Existing platforms leveraged  
Realtime monitoring data available



## Key Findings From Monitoring of Session Sites



Data Source: COVID-19 session site monitoring data as of 12 April 2021 ( Merged data WHO and UNICEF)

More than 160,000 Covid-19 vaccination sessions monitored

# Lessons Learnt

- Strong political and administrative commitment key for successful vaccine introduction
- Robust operational planning supported with communication strategy helped to maintain high pace for vaccination
- Engagement of private sector helped in increasing community reach
- Use of digital platform helped efficient tracking of vaccine and beneficiary
- Monitoring platforms for Polio, MR vaccination campaign and routine immunization leveraged to establish monitoring and accountability mechanisms



**Thanks**