

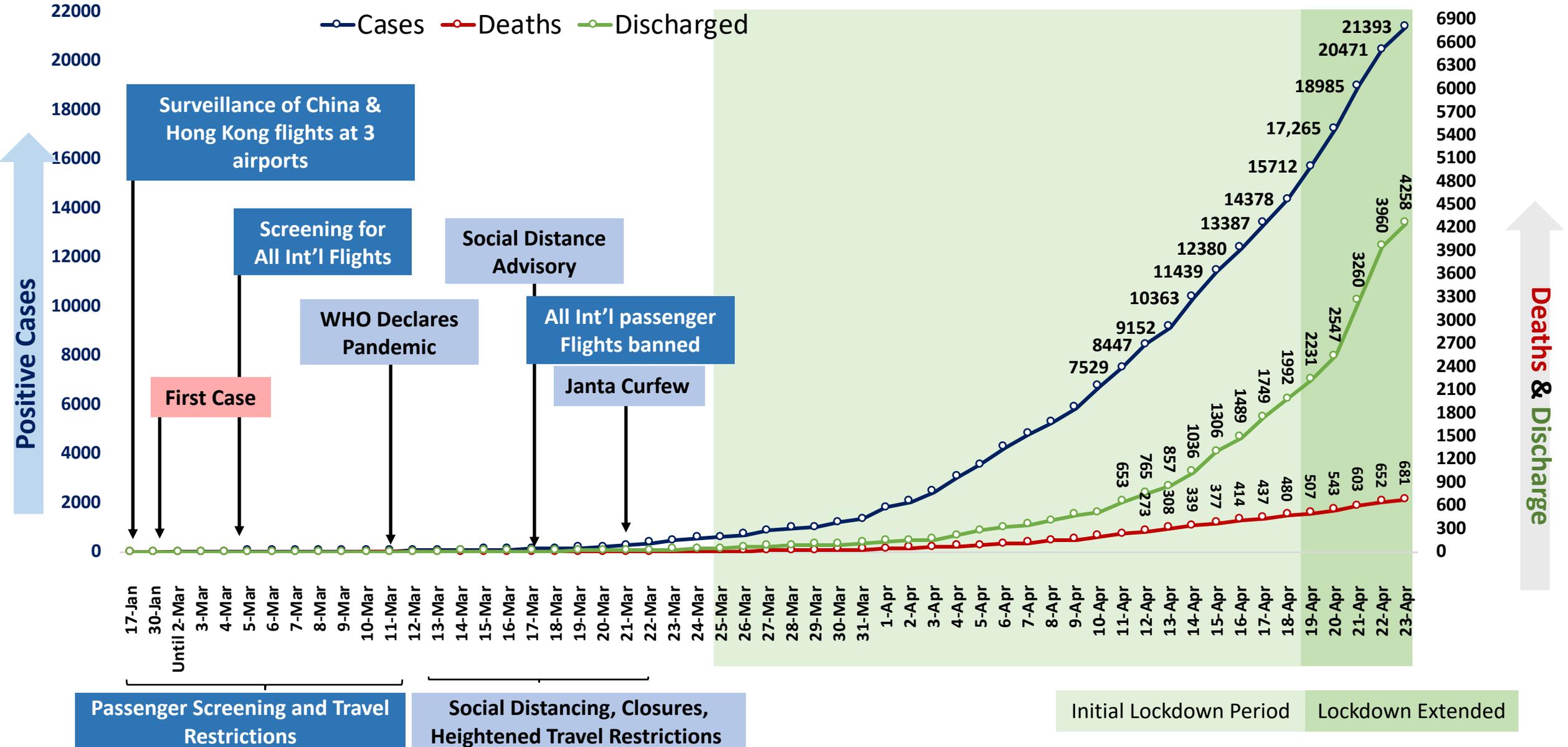
# India's Public Health Response

WHO

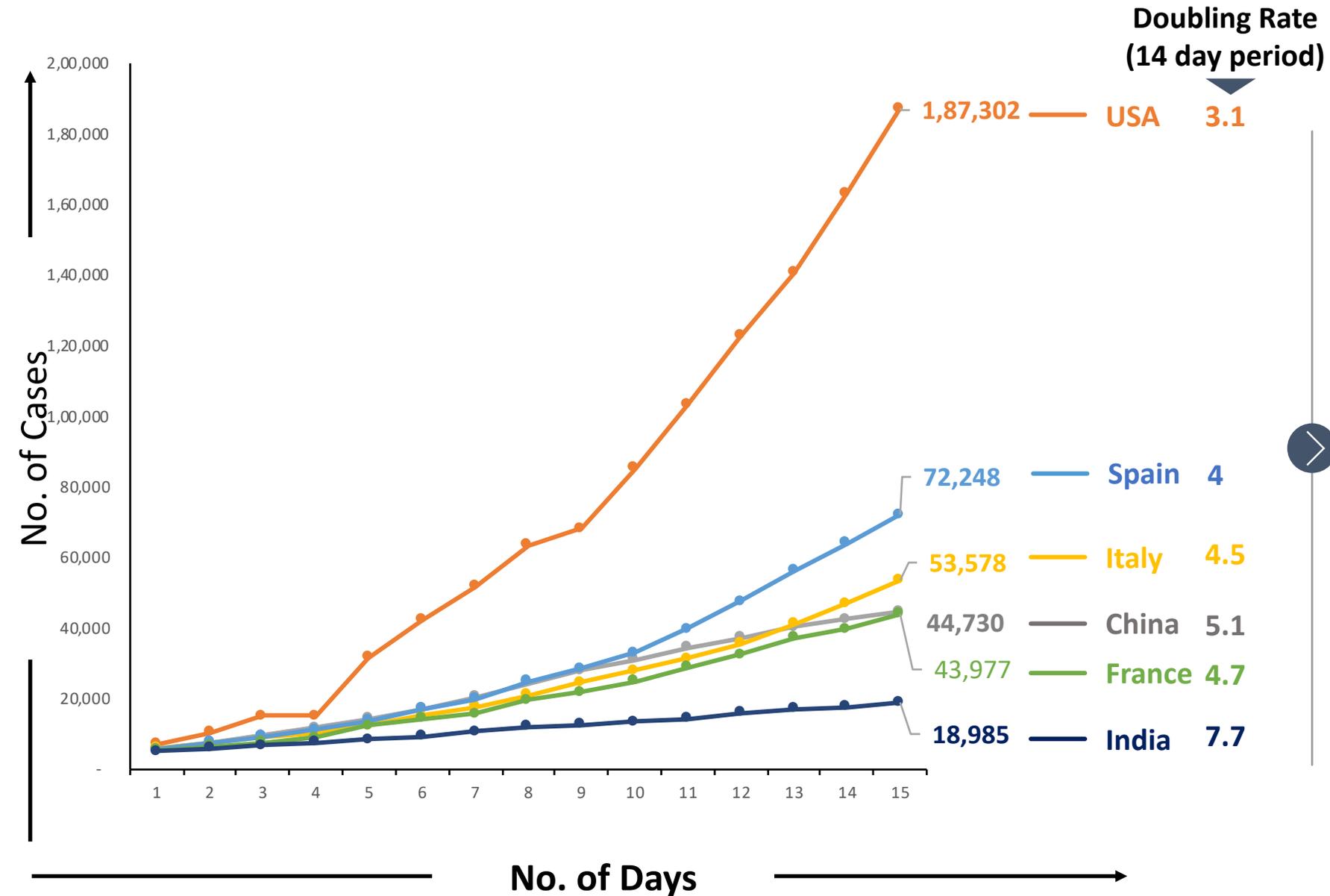
23<sup>rd</sup> April 2020

# India's Graded Response

(As on 23<sup>rd</sup> April 2020)



# Journey of India after 5,000 cases vis-à-vis major affected countries as on 21<sup>st</sup> April 2020



- Post 5,000 cases, **India reported less than half cases vis-à-vis Italy, China, Spain & France**

# Institutional Response Framework

- **Hon' PM** daily **Monitoring & Oversight**
- Continuous engagement with **Chief Ministers** and State Health Ministers
- Group of Ministers (**GoM**) **Monitoring**
- **Health** Ministry Review Meetings & Advisories to States since **17<sup>th</sup> Jan**
- Committee of Secretaries (**CoS**) coordinating **response**
- Regular interaction with **States** by Government of India
- **11 Empowered Groups** formed by Government of India for Integrated Response
- **National Task Force** of eminent medical & **public health experts** guiding Strategy
- Senior Officials **deputed** to **States** to act as a continuous Link

# Strategic Interventions for COVID Management



# Surveillance – Airports

- 18 Jan: Surveillance at **3 airports** for **China** and **Hong Kong**
- Thermal screening at **all airports** for **all international flights**
- **Health risk profiling** of passengers and **quarantine** as per protocol
- Information **shared with states** for community level screening

**15.25** lakhs passengers **screened** at **30 international airports** till 23 Mar

# Surveillance - Seaports & Land borders

## Sea Ports

- Thermal screening at **12 Major Ports** and **65 Non-major Ports**
- Isolation wards set up at major ports
- Cruise ships prohibited
- 1062 vessels and **49,588 passengers** screened

## Land Borders

- Thermal Screening at integrated check posts since 29 Jan
- Movement through land borders **restricted to 20 Check posts** & ICPs having robust screening
- **20.70 lakh people** screened

# Evacuation

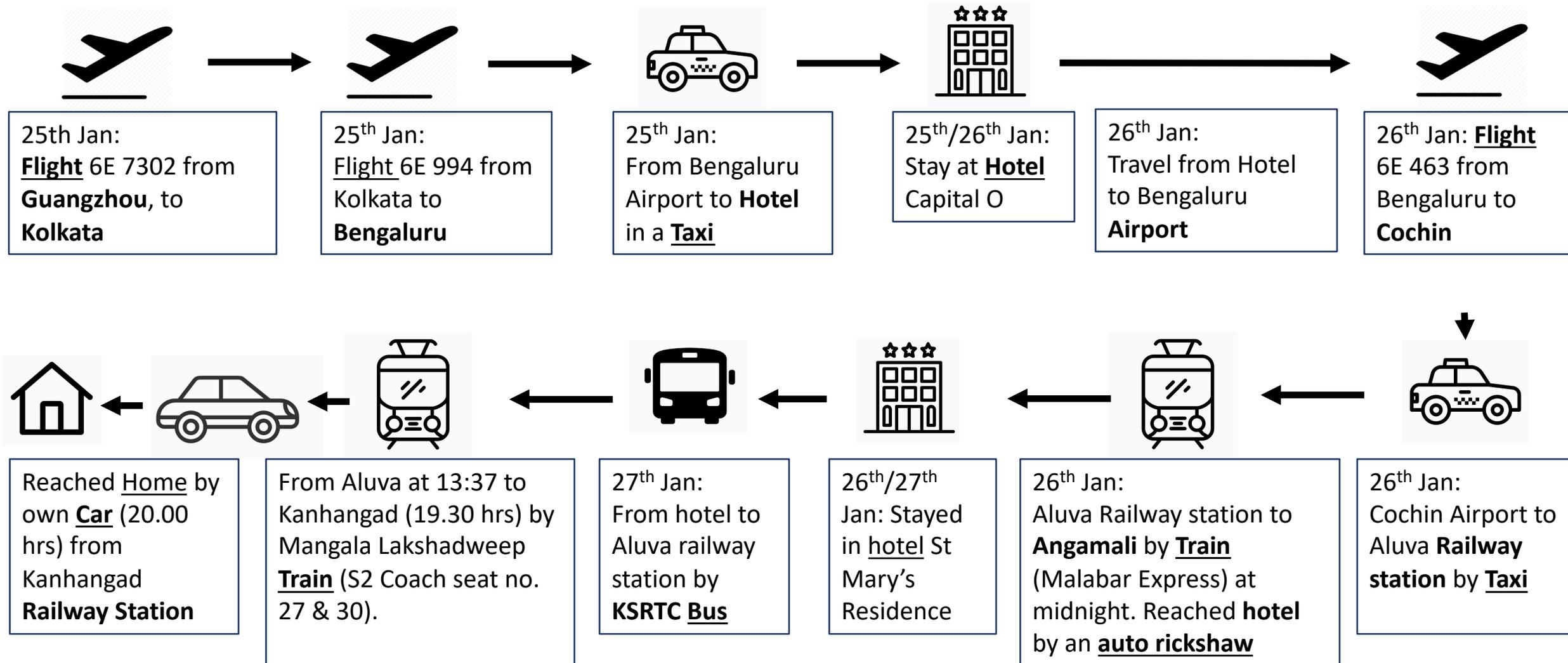
<b>From</b>	<b>Indians</b>	<b>Date of Arrival</b>
<b>Wuhan, China</b>	723	1 - 27 Feb
Diamond Princess Cruise, <b>Japan</b>	119	27 Feb
<b>Iran</b>	1,138	10 - 29 Mar
<b>Italy</b>	564	11 - 22 Mar
Total	<b>2,544</b>	

# Community Surveillance

- Monitoring by State & District **Surveillance Officers** with support from **Rapid Response Teams**
- 17 Jan - **Advisory** to all States for **acute respiratory illness** surveillance
- **9,42,225** passengers brought under **community surveillance**
- **70,841** found **symptomatic and referred**
- **14,017** hospitalized
- Confirmed cases hospitalized & **Contact Tracing** initiated

# Tracing Travel History of COVID Positive Patient

Case: 23 years, Male student in Wuhan, Hubei - **162 contacts traced**



# India Testing Strategy- From Searching for Virus to Saving Lives

## TESTING STRATEGY

- **RT-PCR based tests**
  - All Symptomatic: Intl Travel in last 14 days
  - All symptomatic contacts of lab confirmed case
  - All symptomatic healthcare workers
  - All hospitalized patients of Severe Acute Respiratory Illness (SARI)
  - Asymptomatic high risk contacts (HCW, family members) of lab confirmed cases (5-14 days)
- **Rapid Antibody Test**
  - ILI patients from Containment Zone

## Judicious Testing & Efficient Response

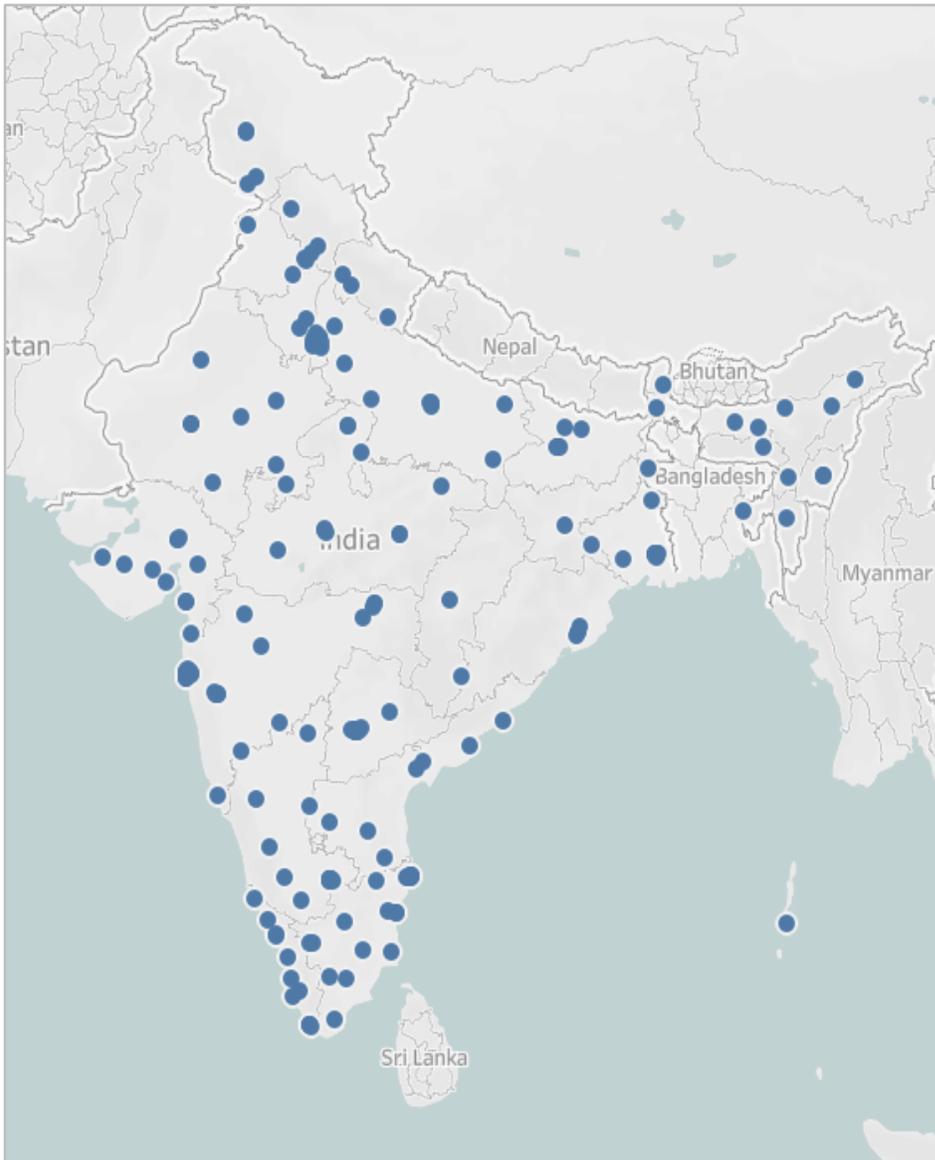
As on 23<sup>rd</sup> April, 2020

**Total Numbers Tested: 4,97,209**

- Tested on 18<sup>th</sup> April : 37,173
- Tested on 19<sup>th</sup> April : 29,742
- Tested on 20<sup>th</sup> April : 35,852
- Tested on 21<sup>st</sup> April : 28,273
- Tested on 22<sup>nd</sup> April : 35,074

COVID-19 Testing - Plan to increase from **55,000** tests / day (22 Apr, 2020) to **1,00,000** tests / day (31 May, 2020)

# Laboratory network



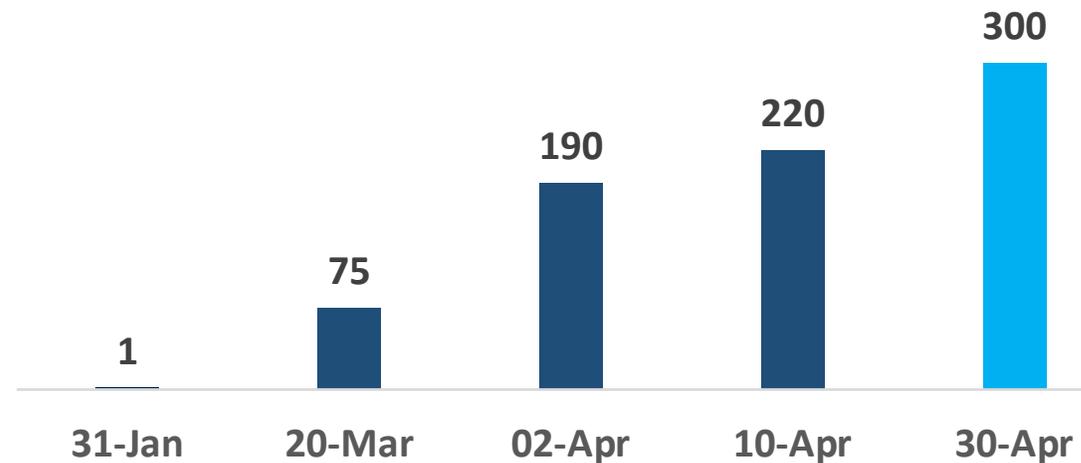
- **Government Labs**

- **230** laboratories approved

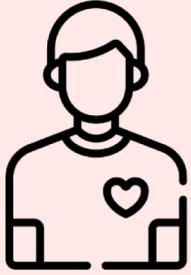
- **Private Laboratories**

- **87** NABL accredited laboratory chains, including the most extensive networks such as SRL, Metropolis, Lal PathLabs, Thyrocare, Apollo hospitals
- **16,000** collection centres pan India

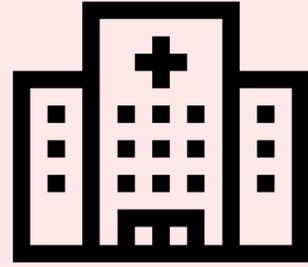
## COVID-19 labs – Planned (**Apr - May**)



# Mapping of Patients to Care Centers



**Severe/Critical**



**Dedicated COVID hospitals (DCH)**

- ICUs, Ventilators and Oxygen support
- Private hospitals also designated
- Referral centers for Dedicated COVID Health Centers & COVID Care Centers



**Moderate Clinical Symptoms**



**Dedicated COVID Health Center (DCHC)**

- Mapped to 1 or more DCH
- Beds with assured Oxygen support
- Dedicated Basic Life Support Ambulance (BLSA) equipped with oxygen support

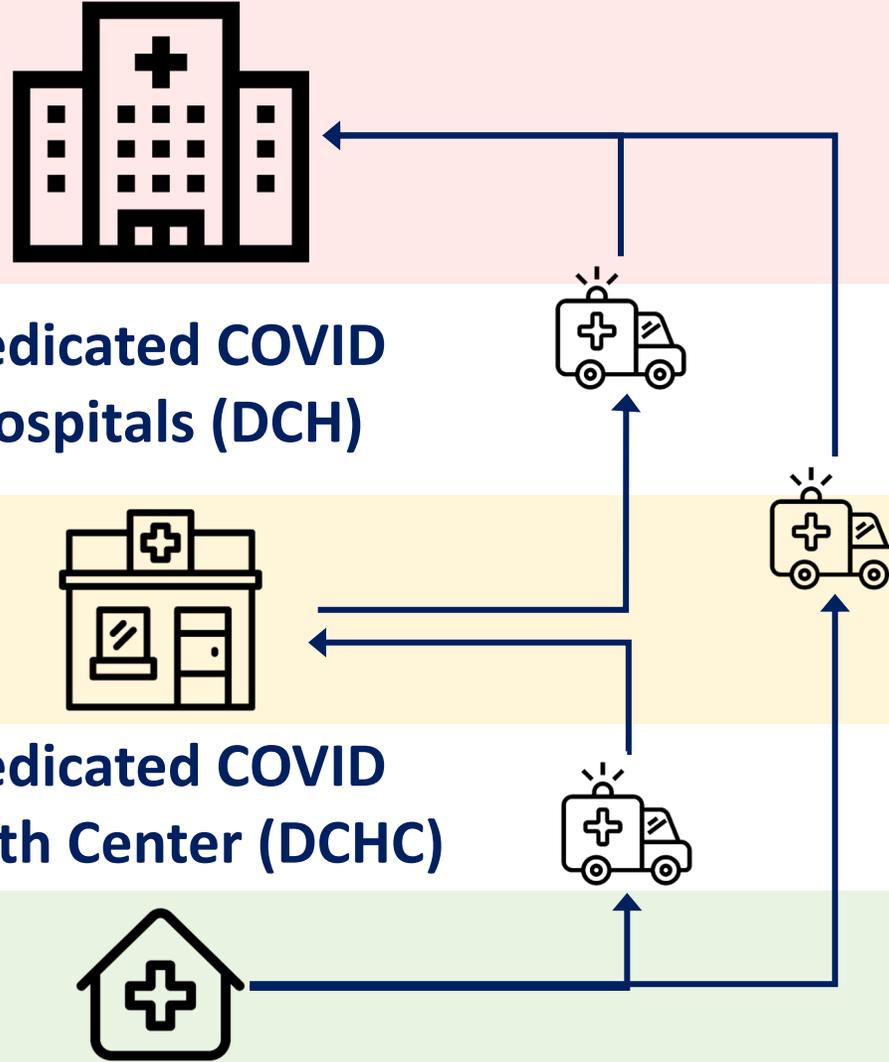


**Mild/Very Mild symptoms**



**COVID Care Center**

- Makeshift facilities to be set up in hostels, hotels, schools, stadiums, etc, both public and private Beds with assured Oxygen support
- Mapped to 1/more DCHC & at least one DCH for referral



# Hospital Infrastructure

State/UTs	Dedicated Covid Hospitals (DCHs)				Dedicated Covid Health Centres (DCHCs)				Total Functional COVID Dedicated Facilities			
	No of DCHs	Total Isolation beds (excluding ICU Beds)	Total ICU beds	No of Ventilators	No of DCHCs	Total Isolation beds (excluding ICU Beds)	Total ICU beds	No of Ventilators	No of Facilities	Total Isolation beds (excluding ICU Beds)	Total ICU beds	No of Ventilators
States and Central Facilities	736	1,13,458	15,931	8,945	1,297	80,568	8,713	3,426	2,033	1,94,026	24,644	12,371

## Dedicated Covid Care Centers

#	State / UT Name	No of Facility	No of Districts Covered	Total Isolation beds (excluding ICU beds)
	States and Central Ministries	1741	195	1,66,960

# Community Engagement

- **Daily Press Briefing** and media release
- **Risk communication** material - distributed through print, electronic & social media
- **IEC** material distributed to states in **regional languages**
- **Dos and Don'ts** – 5.5 billion SMSs
- **Caller-tune messages** to **11.7 billion** telecom subscribers in **13 Languages**
- **24x7 National Control Room** (011-23978046 & 1075 Toll Free)
- **104 Helpline** – also being used for COVID by **State Call Centers**

# RISK COMMUNICATION

- MyGov platform using Web, App, Chatbot and Social Media for creating awareness with more than 161 million impressions.
- Dedicated Twitter handle #IndiaFightsCorona, daily news bulletin and fact check PIB unit for responding to queries.

Tweets	Facebook Posts	YouTube Videos	Press Releases	Press Briefings
1099	858	77	124	69

**Novel Coronavirus COVID-19** Is your healthcare facility ready to manage COVID-19 cases?

Establish a triage station at the healthcare facility entrance, prior to any waiting area, to screen patients for COVID-19.

Display information, such as posters and flyers, remind patients and visitors to practice good respiratory and hand hygiene.

Prepare a well-defined and separate waiting area for suspected cases.

Ensure availability of alcohol-based hand rub or soap and water and at handwashing stations for the use of healthcare workers, patients and visitors.

Maintain one meter distance from those who have symptoms such as cough, fever or difficulty in breathing.

**Stay protected! Stay safe from Coronavirus!** Contact Ministry of Health and Family Welfare Helpline: **+91-11-23978046**

**NAMASTE OVER HANDSHAKE.**  
DO NOT TRANSFER GERMS WHILE GREETING YOUR FRIENDS

**HAND SHAKE**  
124 MILLION BACTERIAL COLONY (CFU)

**HIGH 5**  
55 MILLION BACTERIAL COLONY (CFU)

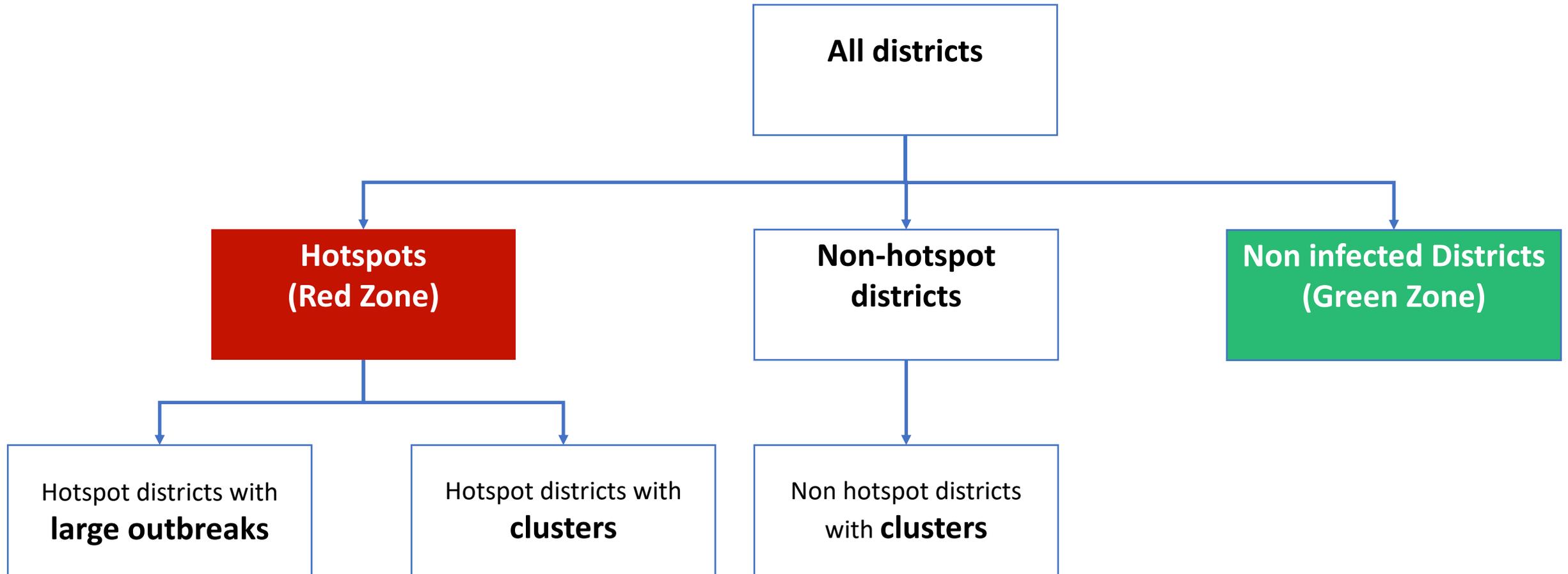
**FIRST BUMP**  
7 MILLION BACTERIAL COLONY (CFU)

**ZERO BACTERIAL TRANSFER**

Decline of Germs Transferred from **124,000,000 to Zero**



# Current Status



Criteria for shifting categories



*A district currently in **hotspots** can move to **green category** if no new cases arise in 28 days*

# Hotspots- Clusters and Large Outbreaks

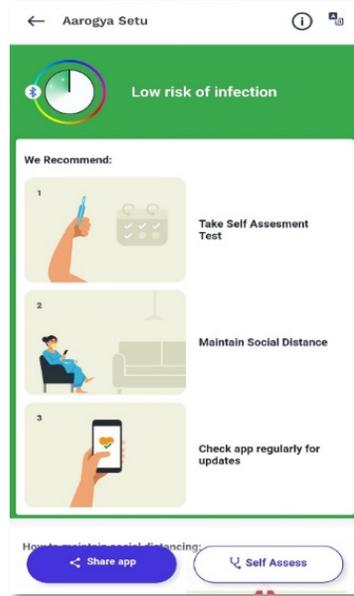
- **Large Outbreak**
  - Localized increase in the incidence of COVID-19 cases occurring within a defined geographic area e.g., in a village, town, or city.
  - Cases may not be epidemiologically linked
  - More than 15 cases
  - Implies progression of a small cluster or evolution of multiple clusters
- **Cluster**
  - Less than 15 cases in a limited area
  - Cases are epidemiologically linked

# Hotspots - engaging the Cutting-edge

Continuous engagement with **Districts Collectors, Municipal Commissioners, Surveillance officers, SPs and States**

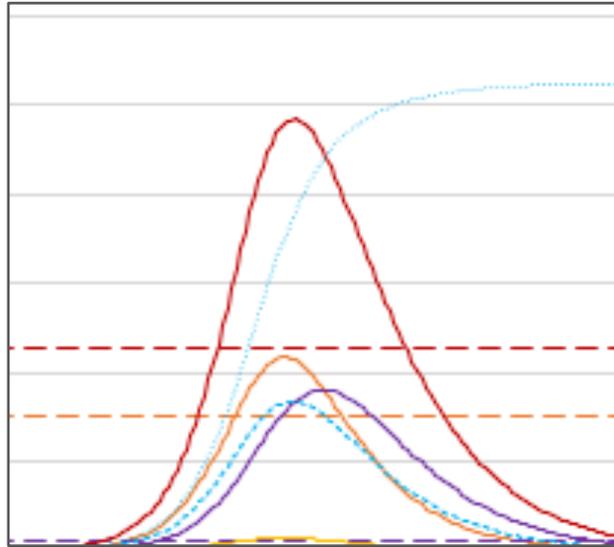
- Orientation on **Containment Action Plan**
- **Best practices** shared by districts
- Focus on over **preparedness** at district level
- Continued focus on **surveillance, contact tracing, patient management**

# Leveraging Digital Interventions



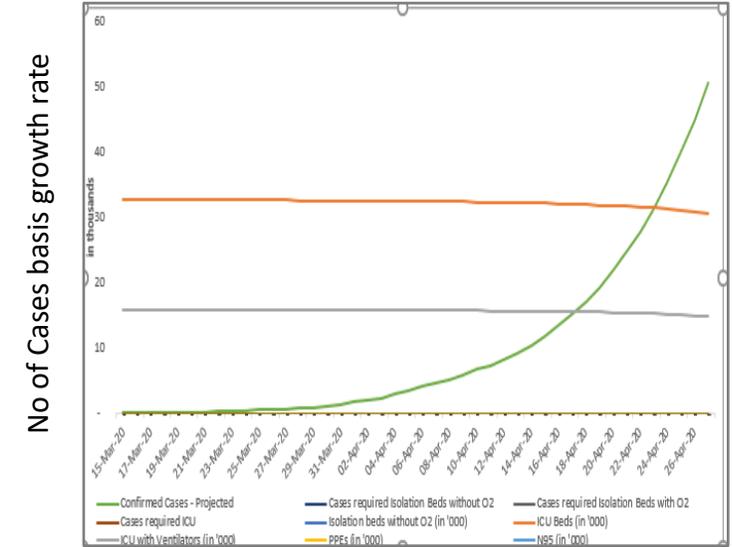
## Aarogya Setu App (Total downloads: 72.19 million)

- It enables citizens to **assess the risk** of catching the Corona Virus infection.
- Designed in 11 languages, and uses cutting edge technology such as Bluetooth technology, algorithms and artificial intelligence in calculating the **COVID risk around the user**



## Healthcare Infrastructure Gap Analysis at a Peak Load Tool

- This tool helps in analyzing the **gap in infrastructure** (Isolation Bed without O2 and with O2, ICU Bed, Ventilator) at maximum cases in a State or District/City.



## Case Load and Healthcare Infrastructure Forecasting Tool

- This tool helps in **forecasting number of cases based on the historical trend or assumed growth rate** of confirmed cases and analyze infrastructure sufficiency over a period of time.

# India – Overall Update

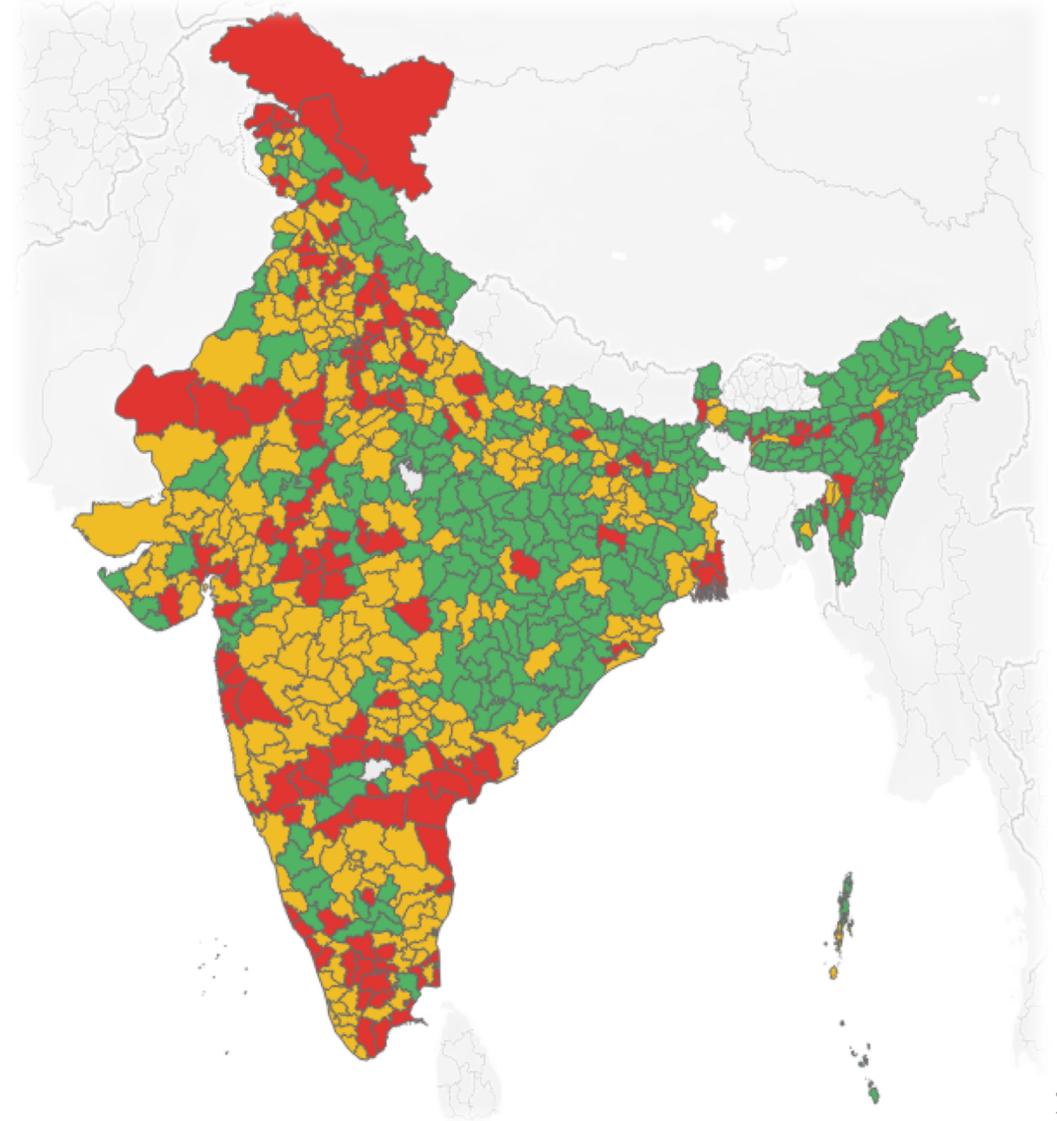
**21,393**  
total cases

**681** deaths  
*(3.2% fatality rate vs. 6.9% global)*

**8.7** days  
doubling rate over last 14  
days

**4,258**  
recovered

District Heat Map



Hotspots or 'Red Zones'

Non-hotspot districts or 'Orange Zones'

Non-infected districts or 'Green Zones'

# TECHNOLOGICAL INTERVENTIONS

- Involving **start-ups, academia, R&D Labs and industry**
- **Virus isolated**; India amongst 5 countries to do so.
- **Consortium** formed to support the development of **Medical equipment, Diagnostics, Therapeutics, Drugs & Vaccines**
- **First Indigenous kit** developed by Start up - MyLabs in Pune; Manufacturing scaled up
- Manufacturing facility for **indigenous development of Ventilators, imaging equipment and ultrasound & high end radiology equipment**
- **Vaccine development** supported
- Research on **Therapeutic and drug development** initiated
- **Surveillance** using digital and molecular methods, including **genome sequencing** of the virus strains
- **Repurposing drugs** and **developing new drugs** etc
- R&D in Hospital assistive equipment

# Government of India Relief and Support Measures

## PM Garib Kalyan Ann Yojana (Grains and Pulses) (PMGKP)

- ✓ **Target Beneficiaries: 80 Cr for grains and 19.4 Cr for pulses**
- ✓ **Amount: Rs. 51,061 Cr (~USD 6.7 bn)**

## COVID-19 Emergency Response and Health System Preparedness

- ✓ **Strengthen and build resilient National and State health systems**
- ✓ **Amount: Rs. 15,000 Cr (~USD 2 bn)**

## PM Ujjwala Yojana

- ✓ **Target Beneficiaries – 8.0246 crore (Free gas cylinders for 3 months)**
- ✓ **Amount: Rs. 13,500 Cr (~USD 1.8 bn)**

## PM Kisan Yojana

- ✓ **Target Beneficiaries – 8 Cr**
- ✓ **Amount – Rs. 16,000 Cr (~USD 2.1 bn)**

## PM Jan Dhan Yojana

- ✓ **Target Beneficiaries – 20.4 crore**
- ✓ **Amount – Rs. 31,000 Cr (~USD 4.1 bn)**

## Health Insurance for health workers

- ✓ **Target Beneficiaries – 22.12 Lakh**
- ✓ **Amount – Rs. 130.508 Cr (~USD 17 mn)**

# Focus Areas

## Surveillance

- **International** passengers and **Migrant** workers
- **Contact tracing** and management
- Survey and **Testing** of **Influenza** and **Respiratory** illnesses

## Dedicated COVID Hospitals

- Isolation beds, ICU beds, ventilators, PPEs
- Focus on **preventing Case Fatality**

## Human Resource Upgradation

- Continued **Trainings** on clinical management, infection prevention and control, and biomedical waste management
- **Online training** from AIIMS, M/o Health etc
- Involve **ex-servicemen**, **retired** healthcare professionals, **NGOs**, **NCC** & **NSS**



Implement  
Containment  
Plan

- Senior state officials - **supervisory** role
- DM – overall **coordinator**
- Geographic **quarantine** - strict **perimeter control** / lockdown
- Deployment of **Rapid Response Teams**
- Demarcation of **Containment** and **Buffer** zone
- **House-to-house surveillance** through special teams
- Rigorous **contact tracing**
- Enhanced **surveillance** within containment zone and nearby areas  
(for ILI / SARI)
- **Isolation** and **treatment** of cases in COVID-19 hospitals
- Risk **communication** and community engagement

## Social Distancing

- Social distancing as a behavioral changes approach.
- The most potent Social Vaccine available presently

**THANK YOU**