



NARAD

SURVEILLANCE OUTBREAK RESPONSE
MANAGEMENT & ANALYSIS SYSTEM

Real-time Digital Surveillance, Disease Control & Outbreak
Management including early detection and Line-lists

DATA COLLECTION TOOLS

- Surveillance & Fever Clinics
- Contact & PUI Tracing
- Manage Positive PUI Cases
- Line Listing Quarantines
- Testing Data & ICMR Integration
- Hospital Beds, Equipment & Supplies

DATA ANALYTICS

- Containment, Contacts Mapping
- Trend Analytics (Case Load, 2x, Fatality Rates)
- Cognitive Services for Twitter
- Hospital & Case Management
- Supplies & Equipment Gap Analysis
- GIS Visualization, CCR and CMO Dashboard

COMMAND & CONTROL HUB

- COVID Outbreak Management System
- Custom Built Command & Control Center
- Mobile App for MoH Field Contact Officers
- Case Loads & Hotspot Districts/Municipalities
- OCR & Spreadsheet Style Data Entry Options
- Cognitive Services Based Centralized Data Management On Cloud
- Real-Time Digital Surveillance
- Integrated with Microsoft Teams, O365 & Azure

WORKFLOW AUTOMATION

- Automation of manual tasks of capturing data
- Lists & Reminders for Field Cos & Data Entry
- Manage & Reporting To Various Authorities
- Managing Workflows
 - Auto mapping of contacts
 - Line Lists Management
 - Updates from Test Centers
 - Quarantine Facilities
 - Supplies teams
 - Hospitals

Chatbots, Twitter, Website, GIS & Other Integration Possible



Get started quickly



Empower Field, Labs, Hospitals



Diagnose & Investigate faster



Live Dashboards & Interactive Reports



Save Lives



Strategy



Cloud



Automation



Security



Analytics



AI

CloudSTRATS



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Intelligence to transform data to insights

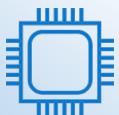
Cases &
Notification



Controls &
Outbreaks



Contacts &
Cases



People

Apps



Automated
systems



DETECT

Notification, Screening

VALIDATE

Investigation, Analysis

CONTROL

Treatment, Containment

Enables surveillance officers and epidemiologists to detect diseases based on real time health facility data and automatic notification

Enables decision-makers to respond immediately to incoming information and to take adequate measures via the public health officers

Information is made readily available for action and data quality assurance is performed as decontamination and isolation tasks are being carried out

Data → Intelligence → Action



Strategy



Cloud



Automation



Security



Analytics



AI

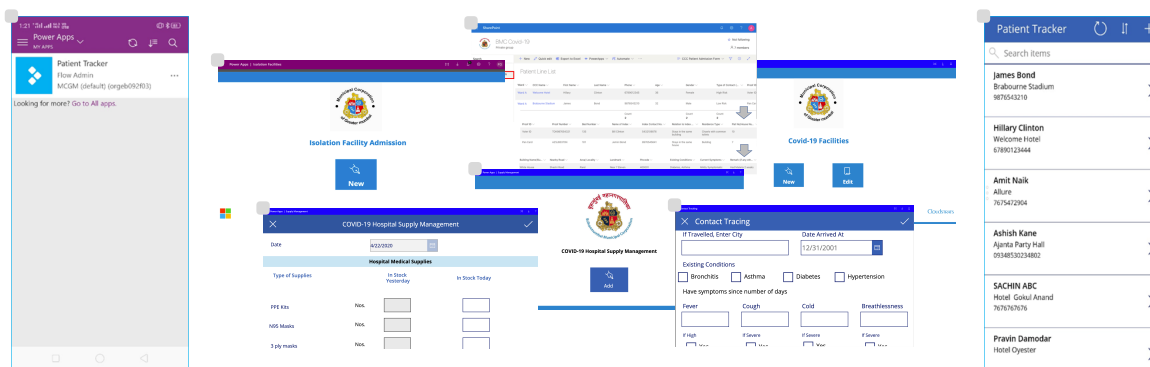
CloudSTRATS



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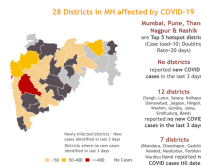
SURVEILLANCE OUTBREAK RESPONSE MANAGEMENT & ANALYSIS SYSTEM

Real-time Digital Surveillance, Disease Control & Outbreak Management including early detection and Line-lists

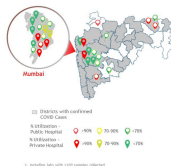


COVID-19 CURRENT CASE LOAD VIEW | MAHARASHTRA

Total Cases	Recovered %
4203	12.06
Recovered	Deaths
507	223
Critical	Asymptomatic
1590	8158



TESTING: TESTING LABS VIEW AS OF 14TH APRIL



DISTRICT LEVEL VIEW | CASE LOAD AND DEATHS

District	Critical	Total Progressive Admitted Positive Patient	Today Current Positive Admitted patients	Progressive Deaths Due to Corona	First Deaths Due to Other Reasons	Progressive Discharged
Ahmednagar	20	283	203	20	60	60
Amravati	40	412	315	38	50	50
Bhamburda	40	546	386	40	120	120
Nagpur	20	291	211	20	60	60
Nashik	60	723	483	60	180	180
Pune	290	3660	2700	290	870	870
Shirdi	40	1136	776	80	320	320
Total	1400	17671	12071	1400	4200	4200

COVID patients
Total COVID patients: 149
COVID positive: 37
COVID PUI pending: 112

Bed management
Available beds: 628
Available acute care beds: 578
Acute care occupancy %: 20%

Nurse staffing management
ICU Nurses Assigned: 10
ICU Nurse to Patient Ratio: 0.07

Discharges
Total Long Stay Patients: 169
Anticipated Next 24 Hours: 19
Yesterday actual discharge: (Blank)

Equipment
Total Vents: 30
Ventilators: 19

Supply by days on hand
Masks w/ Shaded (TLE): \$4.2
Masks w/ Shaded (TMA): \$1.0
PPE Kit: \$1.8
Droplet w/ Shaded (TLE): \$1.0
Droplet w/ Shaded (TMA): \$1.0

COVID Patient Information
Total COVID patients: 149
COVID PUI pending: 112
COVID positive: 37

COVID positive and COVID PUI pending by Date
Line chart showing the trend of COVID positive and COVID PUI pending cases over time.

COVID positive and COVID PUI pending by Acuity
Bar chart showing the distribution of COVID positive and COVID PUI pending cases by acuity level (e.g., TLE, TMA, ICU).