

Integrated Health Information Platform

What is Integrated Health Information Platform

- IHSP is an information platform that integrates data from various “registries” to provide real-time information on health surveillance from all across India for decision-makers to take action.
- All data contained in IHSP has the public health surveillance attributes: Person, Place, Time and all data has geocoded for geographic reference
- The design and development of this platform found are attributed to the strengthening of India’s Public Health Surveillance System

Why is IHSP needed?

- As part of IHR core capacity building and to strengthen public health surveillance system, India needs a comprehensive information system to monitor emerging and emerging public health threats, disasters and mass events.
- IHSP provides the Union health ministry, State health ministries, local governments, municipalities to real-time information on health surveillance from anywhere on any electronic device.

What are the essential differences between IDSP portal and new IHSP?

- IDSP was designed to:
 - Capture aggregate data only
 - Paper-based data collection
 - Not to link data from S, P and L forms
 - Weekly surveillance
 - Monitor only 13 health conditions
- IHSP is designed to:
 - Capture disaggregate data of persons at all levels
 - Link data from S, P L, EWS 1 and 2 forms
 - Capture real-time or daily surveillance data
 - Provide analysis on mobile and electronic devices
 - Monitor more than 33+ health conditions
 - Integrate with ongoing surveillance programs

IDSP's Workflow in India's Geographic Context



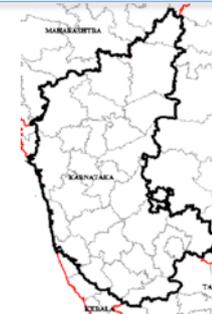
Village
(655075)



Sub-district
(6267)

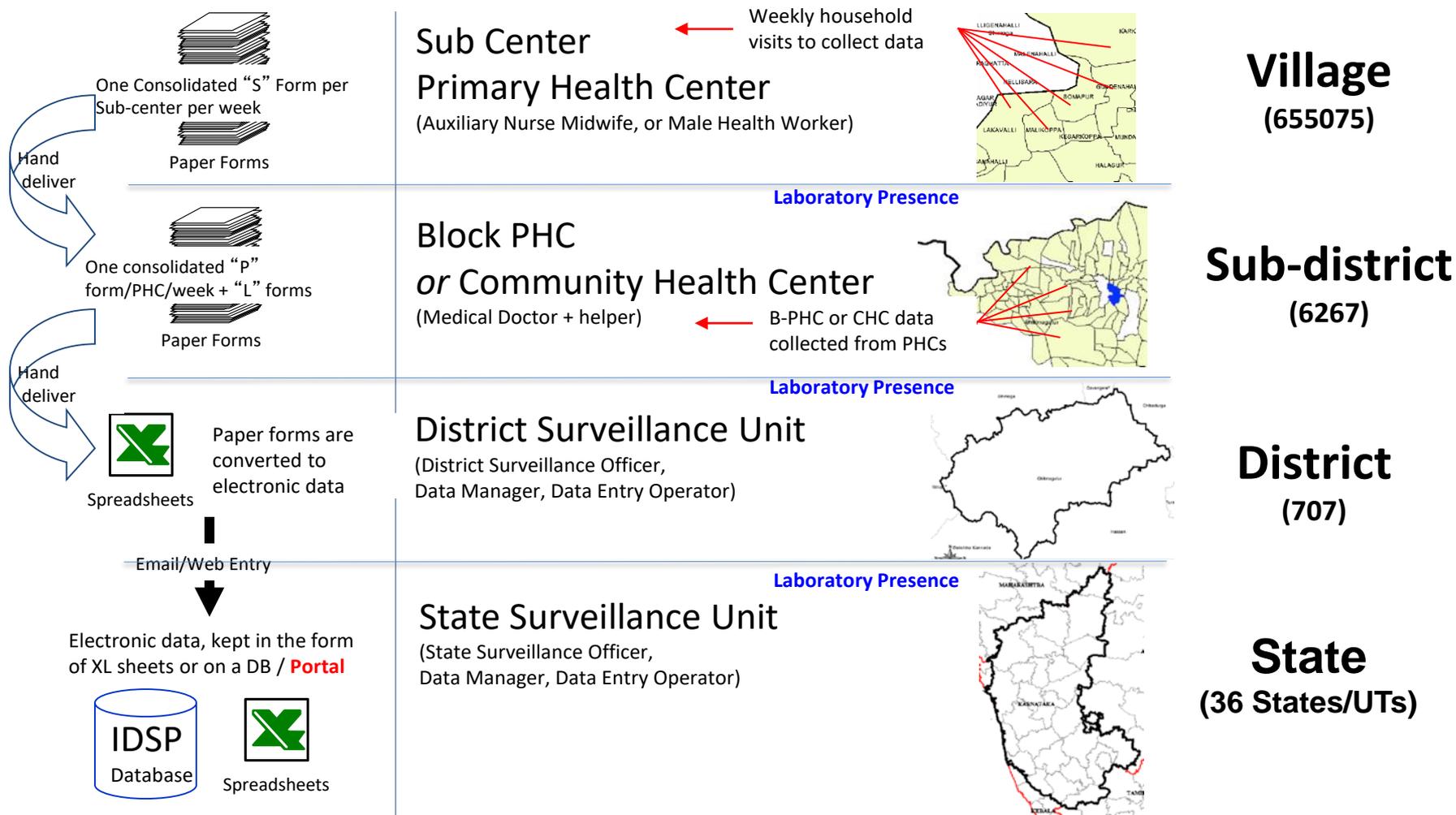


District
(707)



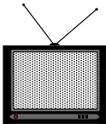
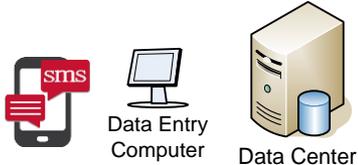
State
(36 States/UTs)

IDSP's Data Collection Process at State-level

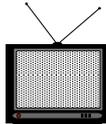


IDSP's Access to ICT Infrastructure at State-level

<p>Mobile reporting</p>	<p>Sub Center <i>or</i> Health Sub Center Primary Health Center</p>		<p>Village (655075)</p>
<p>Portal access Mobile Reporting</p>	<p>Block PHC <i>or</i> Community Health Center</p>	<p>Laboratory Presence</p>	<p>Sub-district (6267)</p>
<p>Portal access Mobile Reporting</p>	<p>District Surveillance Unit</p>	<p>Laboratory Presence</p>	<p>District (707)</p>
<p>Portal access Mobile Reporting</p>	<p>State Surveillance Unit</p>	<p>Laboratory Presence</p>	<p>State (36 States/UTs)</p>



Broadband
Connectivity



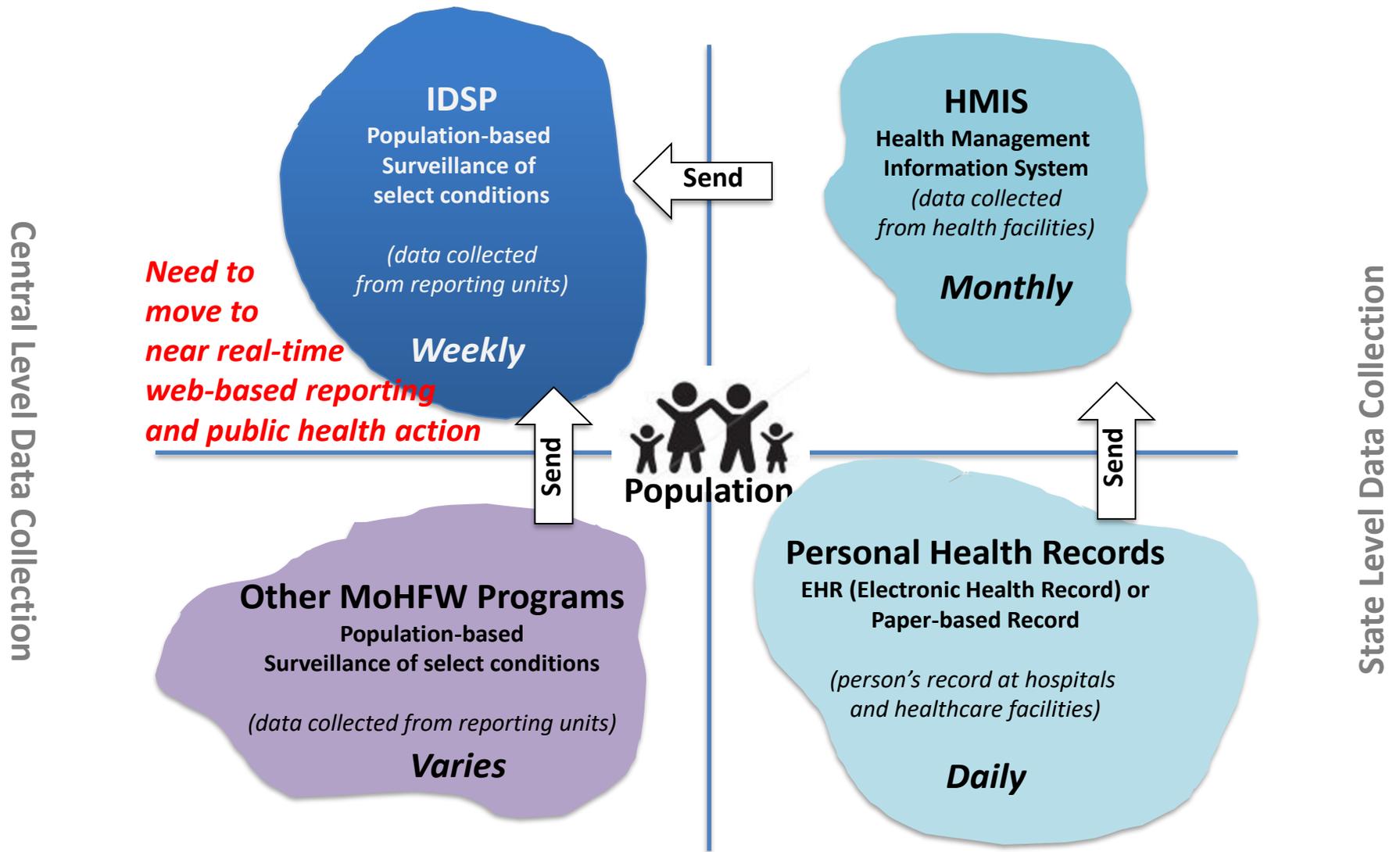
Broadband and
Satellite-based
Connectivity

PH-EOC

24-HOUR CALL CENTER

Proposed System: Portal access allows reporting of all data from DSU, CSU, SSU to CSU/IDSP in near real-time. Mobile reporting is both store and forward and near real-time. Data analytics and results will be accessible at all levels for action.

MoHFW Health Data Collection – Simplified View





Ministry of Health & Family Welfare
Government of India



Information and Communications Technology Master plan

Integrated Diseases Surveillance Program

FINAL DRAFT DOCUMENT
FOR OFFICIAL USE ONLY
NOT FOR CITATION

Original draft: 28 May 2017
Revised 2 July 2017, 10 August 2017, 19 August 2017
Submitted to IDSP 11 September 2017



Joint

Nat
Re

Su



Surveillance

Name of Reporting Unit:	
Type of reporting unit:	
State:	District:
Officer in-charge:	Name of form:
DPO/IDP	

5	No	Syndromes	No
1	Acute diarrhoeal disease		Ca
2	Diarrhoea		
3	Stools		
4	Few		
5	Few		
6	Few		

Name of the Laboratory		
7	Few	State:
8	Few	Lab Officer-in-Charge:
9	Few	IDSP Reporting Week:
10	Acute	Year:

11	Dog	Diseases	EWS I.D.
12	Snake		Section A
			Name of the R
			State:
		Dengue	No of cases
		Chikungunya	Please if Source of
		J/E	Section 1
		Meningitis	Total no. affected
			Comments of the case
			Lab invest
			Blood
			Stool
			Sputum
			Throat swab
			Nasal Swab
			CSF
			Food
			Water

Integ

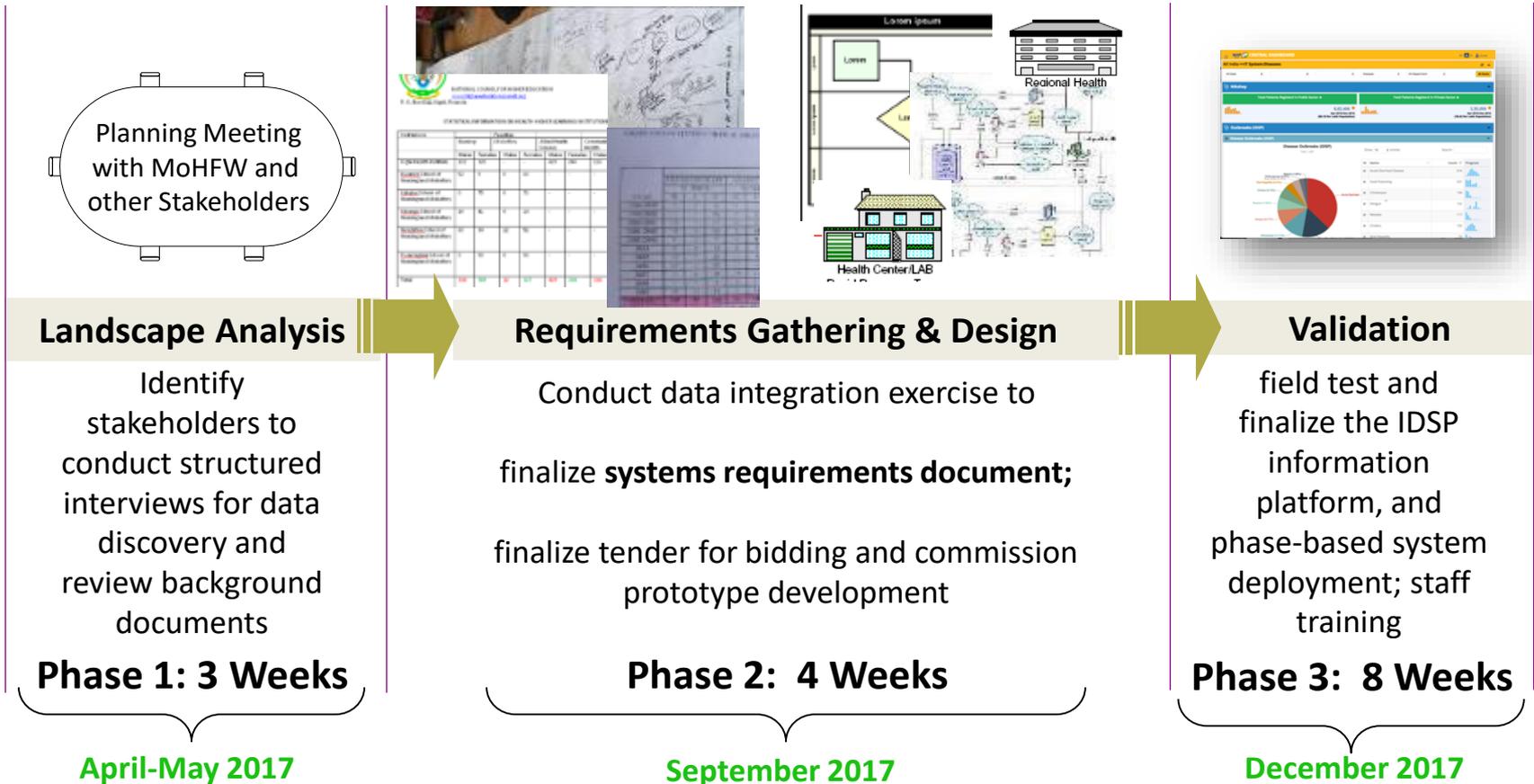
This
Nation



Draft Wor

Major Milestones in the Evolution of Integrated Health Surveillance Platform

Timeline for development of **integrated health** surveillance platform



Articulation of Integration Health Surveillance Platform *Four Conceptual Pillars*

Pillar 1: Envision IDSP's integrated near-real-time eSurveillance

Pillar 2: Embed innovation and ensure quality data for decision-making

Pillar 3: Empower public health surveillance workforce

Pillar 4: Ensure sustained financing and continued leadership

IDSP Data-linked Information System

(simplified view)

Select number of data fields from considered for integration

MoHFW entities

- Revised National TB Control Program (RNTCP)
- National Vector Borne Disease Control Program (NVBDCP)
- National AIDS Control Program (NACP)
- National Leprosy Eradication Program (NLEP)
- Health Management Information System (HMIS)
- Emergency Medical Relief (EMR)
- International Health and Point of Entry (IH & PoE)

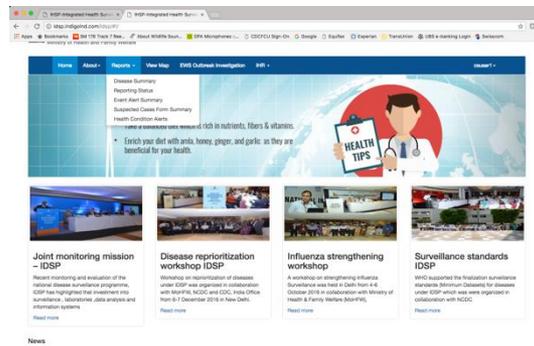
Non- MoHFW GoI entities

- National Animal Disease Reporting System (NADRS)
- Geospatial Data from National Informatics Center (NIC)
- Civil Registration System (CRS)
- Public Assets (Airport, Seaport, Transportation datasets)

Data integration

IDSP Reporting Platform

(secure access to all reporting units)



Platform access provided to all registered public and private reporting entities and contributing MoHFW Programs

Data distribution

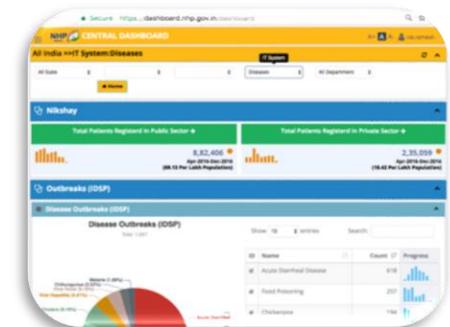
IDSP Dashboard

(secure access to all reporting units)

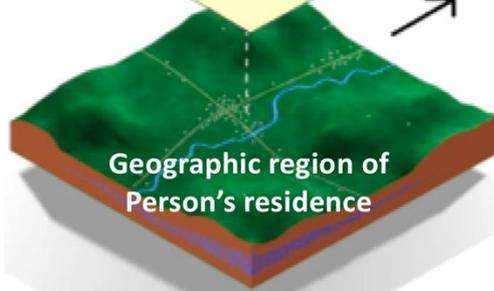
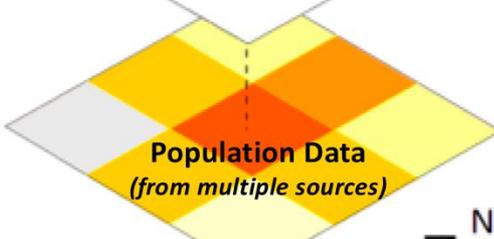


(Selected number of indicators made available to NHP Dashboard)

NHP Dashboard



Geo-tagging data for area specific rapid response



Integrated Health Surveillance Portal

Integrated Disease Surveillance Programme

Ministry of Health and Family Welfare

Near real-time, web-enabled, person-centric, national health surveillance portal to track data for routine surveillance, early warning signals, outbreak investigation, special surveillance, facility and lab reporting status, media scanning, customized dashboards

Home About Manage IDSP Forms Special Surveillance Reports View Map IHR

Data entry from phone or computer from anywhere in India

ARI/Influenza Like Illness (ILI)

ARI/Severe Acute Respiratory Infection (SARI)

Acute Diarrhoeal Disease

Male

≤ 5 Yr > 5 Yr To

22 0 22

Add New Patient Record **Add Death Patient Record**

Patient Details:

First Name* Middle Name Last Name

Patient Phone Number DOB* Sex*

Search Facility

Facility Type: Health Sub Centre

State: Karnataka

District: BAGALKOT

Sub-District: [Select]

Village/Ward: [Select]

Facility Name: [Text]

Reset

Health Facility Details | Essential Medical Supplies | Officer in Charge | Health Workforce Details

Facility Name: SOMMANAGI

Address: To be updated. To be updated

Name Identified: null

Facility Type: Health Sub Centre

State: null

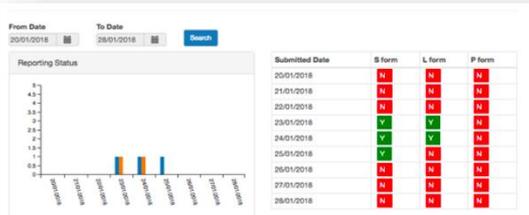
District: Bagalkote

State: Karnataka

Latitude: 16.2824

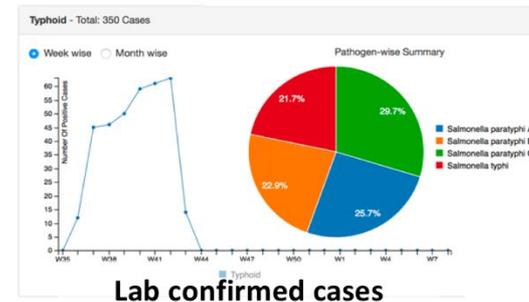
Longitude: 76.0105

Nation-wide monitoring for compliance



SID	Action	Name	Provisional Diagnosis	Test Performed	Date of Onset	Date of Sample Collection	Type Of Sample	Specimen Id	Date of Test Performed	Results
1	Edit	Raja M L	Leptospirosis	IgM ELISA	03/01/2018	18/01/2018	Blood-Plasma	a12344		
2	Edit	Raja M L	Leptospirosis	IgM ELISA	05/01/2018	20/01/2018	Blood-Plasma	a12344		
3	Edit	K Lost	Measles	IgM ELISA	04/01/2018	10/01/2018	Biopsy (mention type)	8736aww		
4	Edit	Rejeshwari M I	Dengue	NS1 by ELISA	10/01/2018	14/01/2018	Blood Film	s123		

System generated reports



Data Table-Typhoid

Export Data

28/08/2017	04/09/2017	11/09/2017	18/09/2017
P L	P L	P L	P L
0 0	1 1	1 1	2 2

Person Name Provisional Diagnosis Test Date of Onset Date of Collection

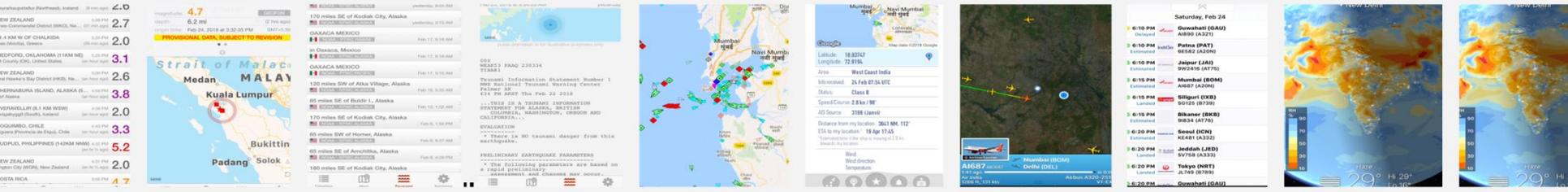
VENKATACHARI M Typhoid Widal Step 12, Step 13, 2017

SHAMALA D Typhoid Culture Step 14, 2017 Step 18, 2017

GPS Location of cases

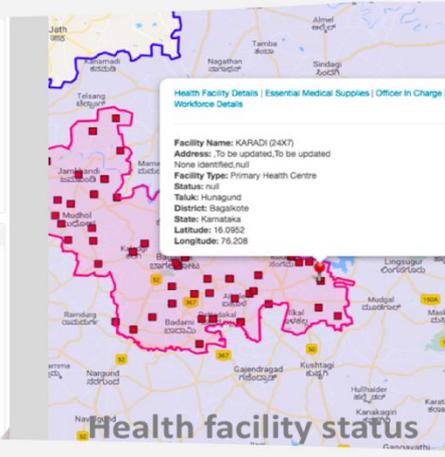
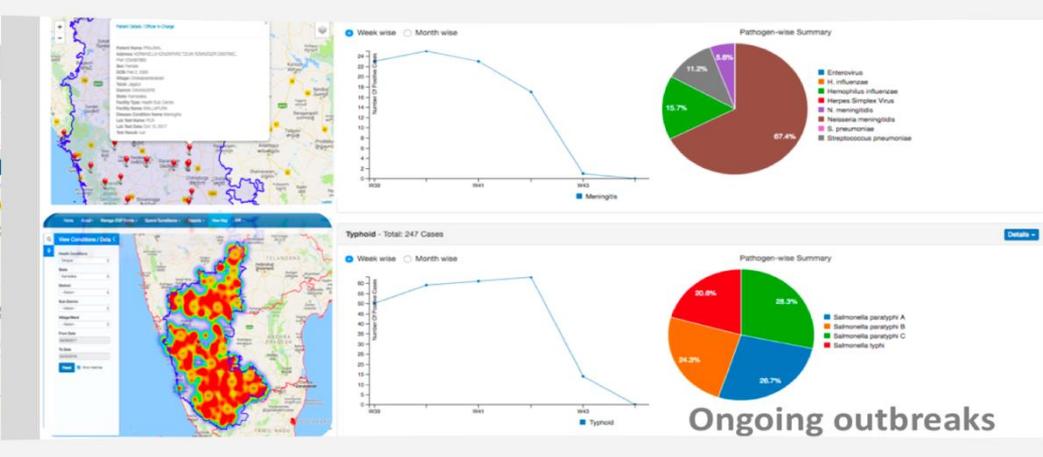
Aggregate report

Near real-time data gathering ability from 36 States, 707 districts, 6267 sub-districts, and 655075 villages



Previous	1	Next	Last	Download	
Name	Provisional Diagnosis	Test Performed	Date of Onset	Date of Sample Collection	Type of Sample
ATLACHIMI M	Typhoid	Widal	Sep 12, 2017	Sep 19, 2017	
ALA D	Typhoid	Culture	Sep 14, 2017	Sep 18, 2017	

Contact tracing



Modified after - Source: WHO. Artist rendering, 2015

MoHFW Integrated Health Surveillance Dashboard

Strategic Health Operations Center

Demonstration of Integrated Health Surveillance Platform

<http://localhost/idsp/#/:8080>

Thank you

For further information

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