



## A Web Enabled Geo-spatial platform National database for Emergency Management (NDEM)

NDEM essentially serves as national repository of GIS based data for entire country coupled with multi-scale database & set of Decision Support System (DSS) tools to assist the disaster manager in decision making during emergency situations. NRSC/ISRO has operationalize NDEM for all 36 States/UTs.

In order to enhance NDEM features & services, NDEM version 3.0 is designed & developed using open source technologies powered with OpenLayer 3, Bootstrap & Model/View/Controller (MVC) framework. NDEM version 3.0 provides comprehensive geo-spatial data visualization with enhanced rendering capabilities and high level vector display. The portal is compatible across multiple devices.

The salient feature of the portal are :



### Disaster Dashboard

Disaster related alerts, Warnings, Live/Historical news from authorized sources.



### Data Visualization

Multi-Scale Geospatial Data Services with Satellite Imagery.



### Incident Reporting

Disaster event reporting through Mobile Apps, SMS, Portal.



### Decision Support Tools

Customized GUI based tools for decision making.



### Interaction Tools

Communication & data exchange, Audio/Video live chat amongst users.



### Utility Tools

Standards GIS based tools like Distance & Area Measurement, search etc.



### Mobile Apps

Apps for Relief Management, Attribute Collection & Geo-Tagging of Facility.



### IDRN Database

India Disaster Resource Network (IDRN) database for rescue equipment.



### Resource Management

Resource management covers inventory, allocation, Organisation of essential commodities during disaster time



# Features

## Disaster Dashboard

This feature highlights disaster alerts, warnings, portal Updates and disaster related current/historical news from authorized sources.

## Geospatial Services

Multi-scale geospatial data services are seamlessly integrated for entire country. Essential database elements of disaster management complemented with satellite imagery. Historical disaster specific database is integrated with query builder.

## Decision Support Tools

Customized GUI based tools for decision making. Proximity tool for identifying emergency facilities. routing tool enables finding shortest way to shelters, hospitals etc. Multilayer analysis tool for analyzing disaster criteria.

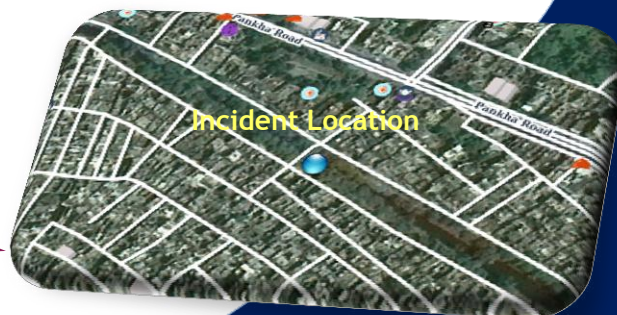
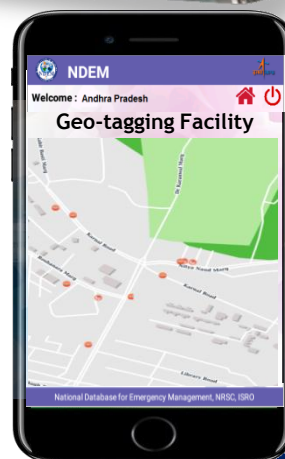
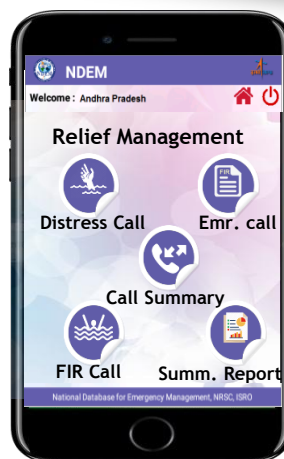
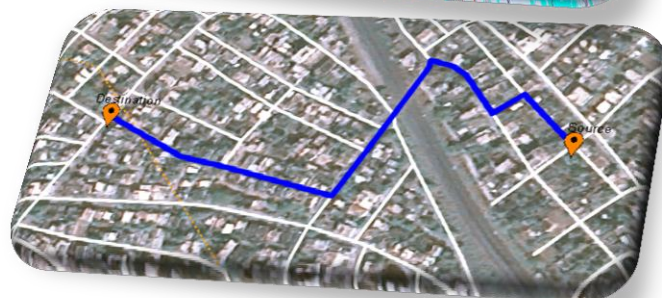
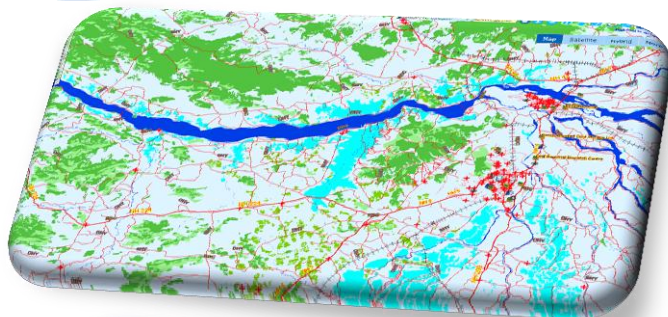
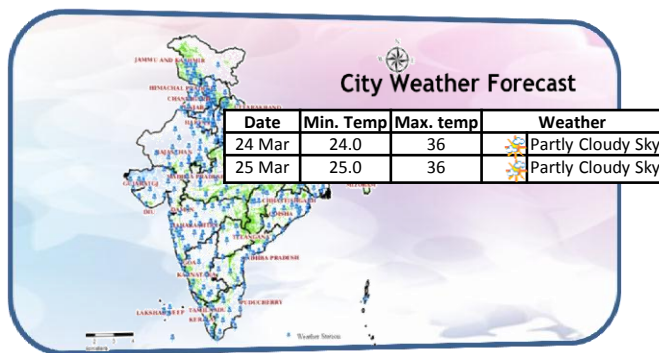
## Mobile Apps

Mobile applications for incident reporting, data collection of emergency facilities, geo-tagging of facilities information using online maps, performing relief management for effective decision making.

## Incident Reporting/Interaction Tools

Incident Reporting from Disaster site in the form of SMS/Portal/Mobile App is transmitted into portal for necessary action.

Data exchange amongst relief managers for better co-ordination. Real time field data sharing through audio/video system.



Get Connected

+91-40-23884543

ndem\_admin@nrsc.gov.in

ndem.nrsc.gov.in

Project Director , NDEM  
National Remote Sensing Centre  
ISRO, Dept. of Space, Govt. of India  
Hyderabad - 500037