

Intelligent Data Solution for Disaster Risk Reduction | IDS-DRR

Data-driven solution to help prioritise public resource mobilisation and planning for disaster risk reduction

Intelligent Data Solution for Disaster Risk Reduction (IDS-DRR) assists authorities to plan, mobilise and prioritise resources to build long term disaster resilience. This platform brings together high-value datasets pertaining to climate, disaster, losses & damages, procurement, demographics and geo-spatial specifications for effective

flood mitigation strategies and enables robust evidence-based climate action.

IDS-DRR is informed by the universally accepted United Nation's Sendai Framework for Disaster Risk Reduction and helps attain and accelerate commitments under the United Nation's Disaster Risk Reduction (UNDRR) framework.

IDS-DRR Offers

1 Analytics Dashboard

Helps garner insights from the IDS-DRR data model to understand the flood-risk profiles through granular data ranging from sub-district, district as well as the whole state administrative boundaries

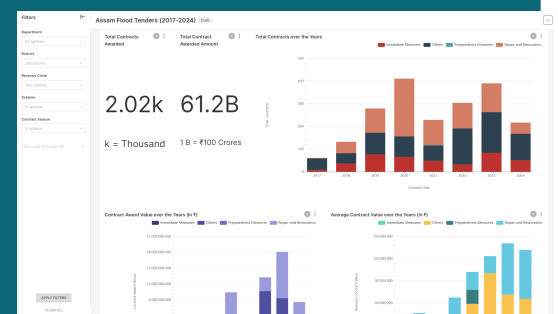
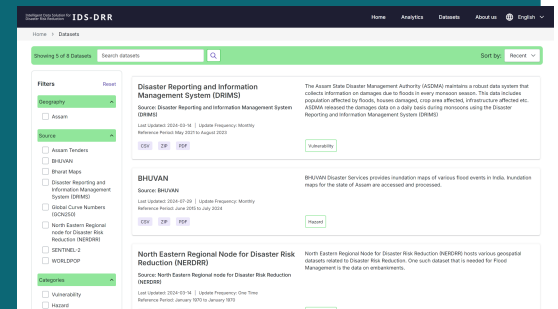
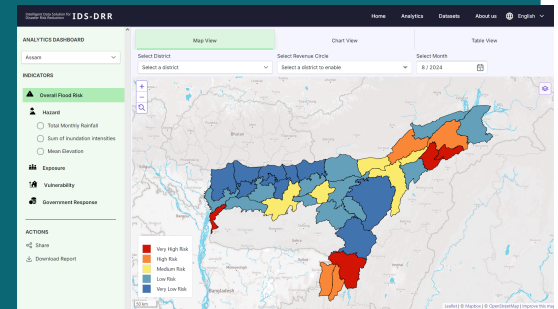
2 Open Access Disaster Data Repository

Helps you use reliable high-value datasets pertaining to:

- Inundation data
- Population and Demographics data
- Losses & Damages data
- Procurement data
- Geospatial data and Satellite imagery

3 Flood Procurements Dashboard

Provides data pertaining to tenders and bids issued by the government for flood management. Here, officials can analyse flood related Public Procurement Data across line departments, districts and seasonality. This helps them understand resource distribution for both immediate relief and long-term resilience.



Satellite
Data



Demographic
Vulnerability



Infrastructure
Access



Losses &
Damages



Government
Response

Our collaborative Intelligent Data Model generates insights from 5 categories of datasets

IDS-DRR combines these to derive a monthly flood risk score for each region



Hazard



Exposure



Vulnerability



Govt.
Response



Flood
Risk

Making Data Actionable with IDS-DRR



Additional Features

- Open Access Disaster Data Repository
- Intelligent Data Model & Platform
- Enhance Data Capacity of State & District Management Authorities
- Strengthening evidence based decisions for mobilising resources for the most vulnerable communities and geographies.
- Granular data from a revenue circle level to the district and even the whole state

Scaling to Other Geographies



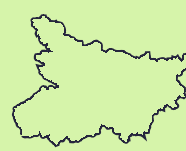
Assam



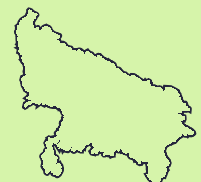
Himachal Pradesh



Odisha

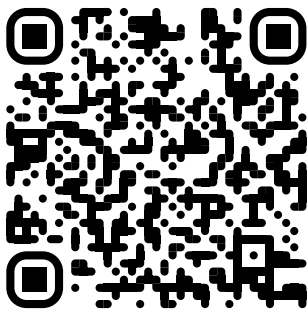


Bihar



Uttar Pradesh

We are working closely with Himachal Pradesh and Odisha to deploy it there and have started early testing for Uttar Pradesh and Bihar.



Scan to read more
about IDS-DRR

Early Success



Selected as one of the two entries from India for the AI Action Summit 2025 in Paris, among the AI Convergence Challenge's winning solutions.



UN's International Telecommunication Union's (ITU) Global Initiative on Resilience to Natural Hazards through AI Solutions has selected IDS DRR as one of the 10 case studies to be scaled across geographies.