



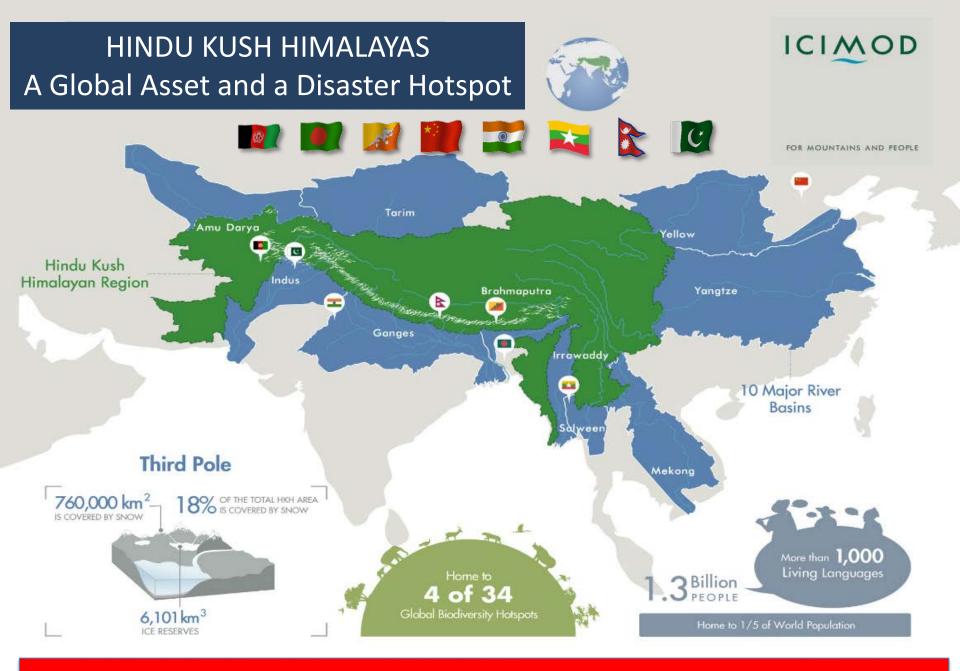
### Sudip Pradhan

Programme Coordinator, Regional Database Initiative

International Centre for Integrated Mountain Development

Kathmandu, Nepal

May 16, 2016



One of the most vulnerable regions of the world due to environmental and climate change

# MENRIS

SERVIR-Himalaya Initiative



Regional Database Initiative

### Regional Programmes

### Goal

Policies and programmes related to mountain livelihoods and ecosystems effectively implemented through support from a regional information system in the greater Himalayan region

### **Outcome**

Strengthened information networking and regional capability, facilitating adoption of evidence-based mountain development policies and practices by the regional member countries



# Information Products and Services – Thematic Focus



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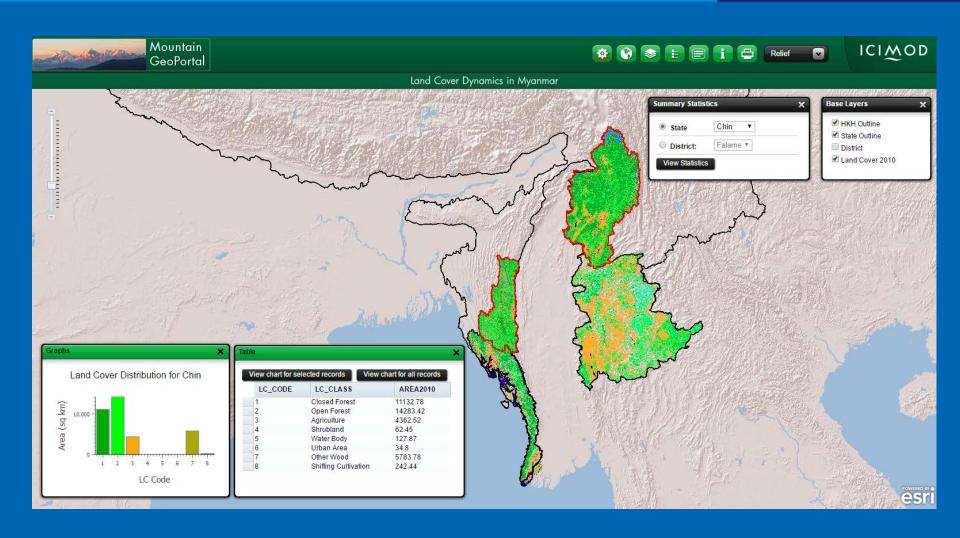


- Climate
  Information
  Services
- Integration of social, economic and environmental information
- Improving environmental and developmental decision-making

tions and Needs Asse

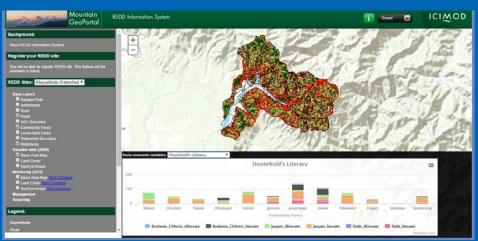
### Ecosystem/Biodiveristy

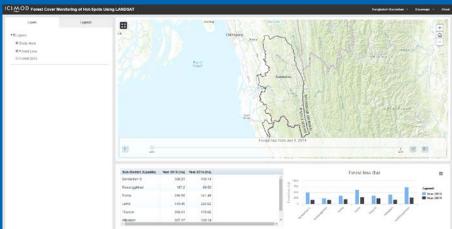


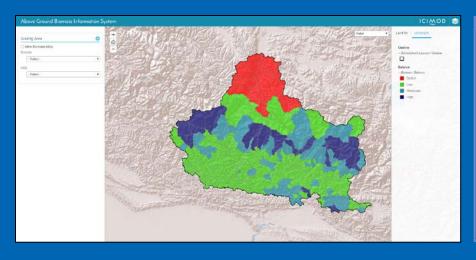


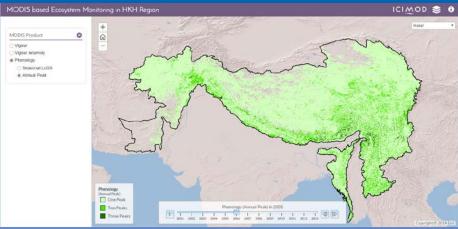
# Ecosystem/Biodiversity





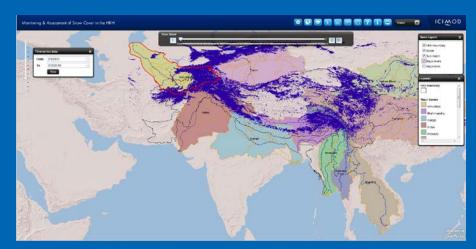






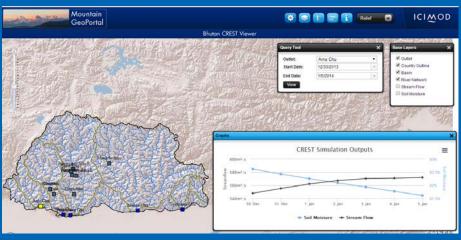
# Cryosphere







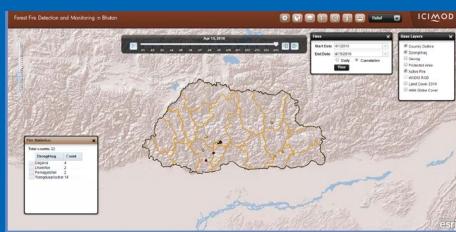


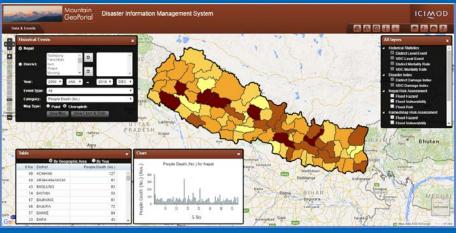


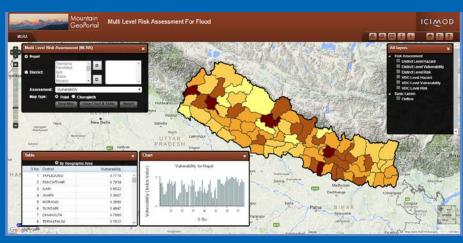
### Disaster & Natural Hazards











### Disaster Recovery and Reconstruction Information Platform





- Integration of data and information at the national level
- Interactive Profile, story map journal and visualization
- A single Gateway for timely and credible information for decision support
- Transparency,Accountability andSocial Audit
- Information and as "public good"



















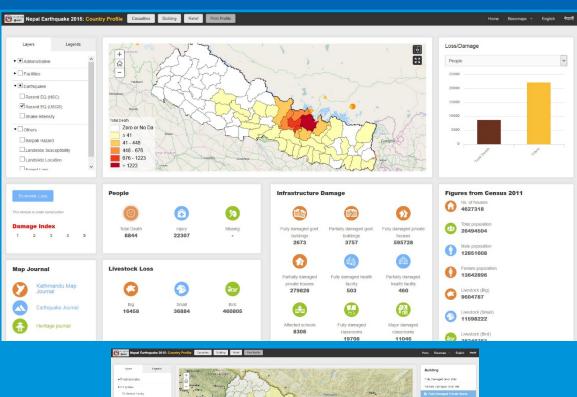




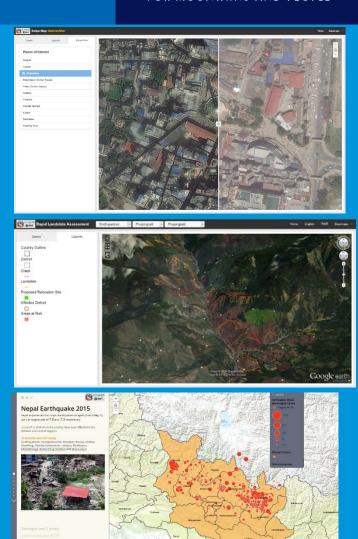


# Disaster Recovery and Reconstruction Information Platform



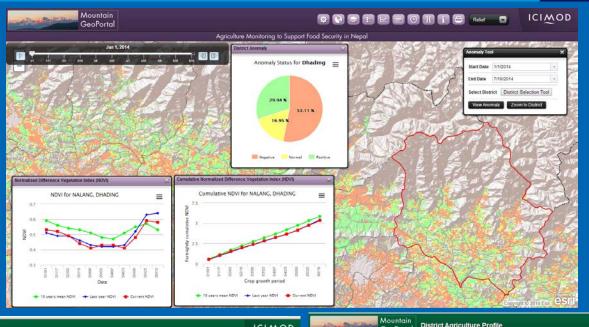


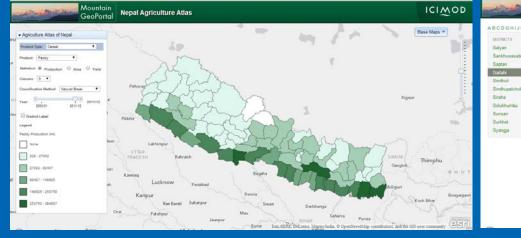


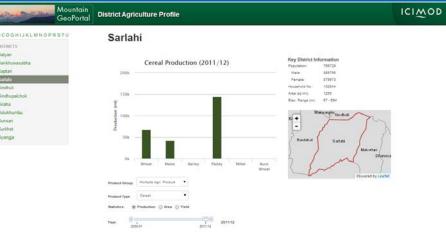


### Agriculture & Food Security



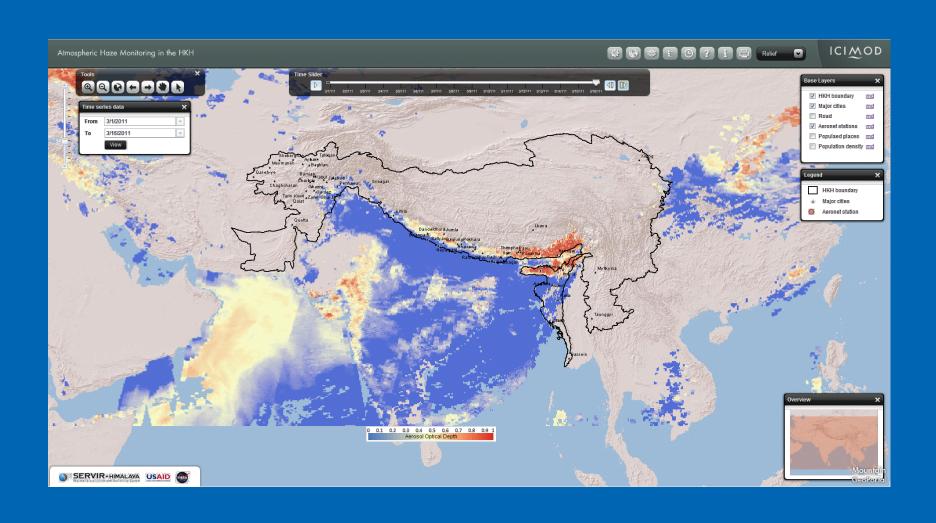






### Air & Atmosphere





### Mountain GeoPortal

geoportal.icimod.org



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#### Science Applications

A collection of innovative and interactive web mapping applications that provides dynamic visualization of spatial data along with the tools to support informed decision making.



#### Status of Glaciers in the HKH Region

Comprehensive glacier inventory and status of the entire Hindu Kush Himalayan region



### Land Cover Dynamics in Bhutan

Statistics on the harmonised land cover database of Bhutan for 1990, 2000 and 2010



#### Nepal Disaster Information Managemer System

Historical disaster events data and information on multi-level hazard, vulnerability and risk assessment

View all



View Details

View Details

View Detail

# Science Applications

### geoportal.icimod.org/Home/ScienceApps

# ICIMOD

#### FOR MOUNTAINS AND PEOPLE



the HKH Region



Land Cover Dynamics in Bhutan



Information

Management System



Phobjikha Valley Resource Inventory

urtem in Phythe



Historic Changes in Snow Cover in the HKH Region

in the Hindu Kush Himalaya region



Atmospheric Haze Monitoring in the HKH



Agricultural Monitoring to Support Food

Security across Nepal using time series



Indicators & Trends

View Details



Climate change

Adaptation

Ecosystem

Vulnerability and

Strategies of Forest

Monitoring of Hotspots Using LANDSAT

The web app on climate change







Glacier Dynamics in Nepal Himalaya



Glacier Dynamics in Bhutan Himalaya



Nepal Land Cover 1990 and 2010

Land cover data of Nepal for 1990 and 2010 with crowd feedback



HKH Glacial Lake Inventory of the HKH



Flood Forecasting for Bangladesh



Land cover dynamics in Myanmar



**Decision Support** Tools for Central Karakoram National

View Details

to support key components of the decision making process for CKNP.



### Forest Fire Detection



#### Above Ground Biomass in Nepal

ICIMOD under SERVIR-Himalay Biomass (AGB) dataset for Nepal









Agriculture Atlas of



CREST Model Viewer for Bhutan



Forest Fire Detection & Monitoring in Nepal



Land cover dynamics in Pakistan

Pakistan that lie in the HKH region for 1990, 2000 and 2010



Land cover dynamics in Greater Chittagong area



Emergency Management & Response System



**DSS for Flood** Management



**REDD Information** 



View Details

System in Pakistan



Multi Level Risk Assessment For Flood

disaster event and loss data base

Information Platform

2015 Disaster

















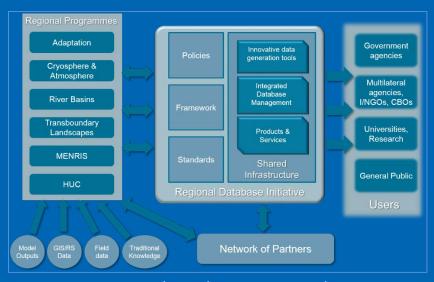




# Regional Database System



- A central data repository for different thematic areas in the Hindu Kush Himalayan (HKH) region
- Provides easy access to the data through a web-based portal.
- As part of establishing the RDS, ICIMOD has put in place:
  - Infrastructure to facilitate storage and management of data
  - Adoption of data and metadata standards
  - Data sharing policy and operation guidelines



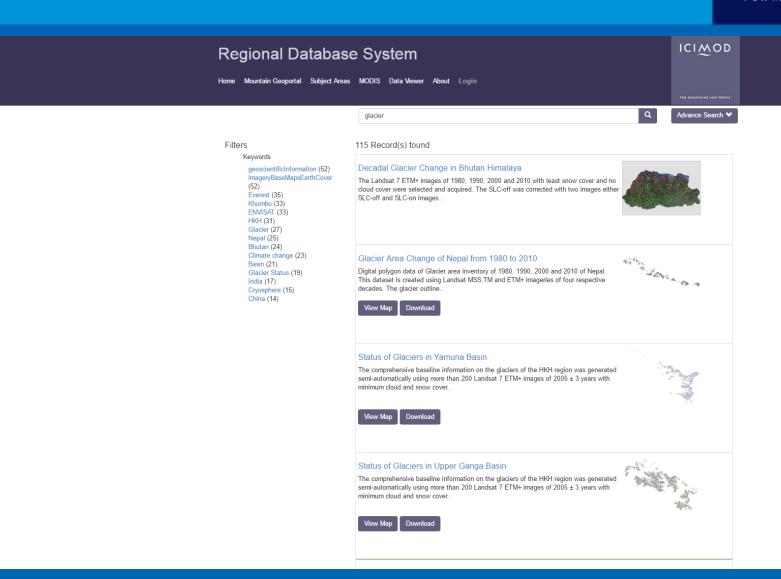
Regional Database Framework



rds.icimod.org

# Regional Database System





### Bhutan GeoSpatial Portal

one stop access to geospatial data and application



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### National Consultation Workshop

- To discuss on the conceptual framework of the national geospatial portal and ways of building collaboration
- To assess requirements of the functionalities, extent of customization and level of user support for effective implementation of the portal.



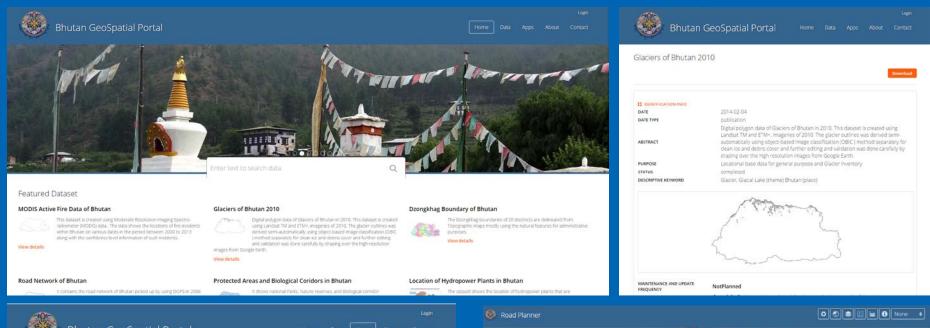


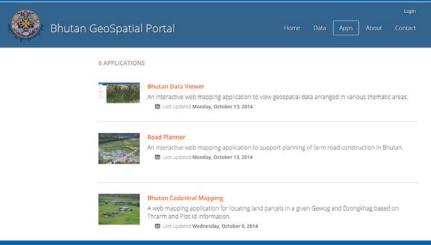


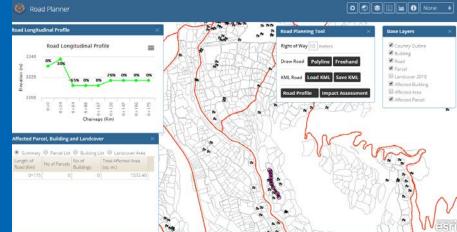
# Bhutan GeoSpatial Portal

geo.gov.bt



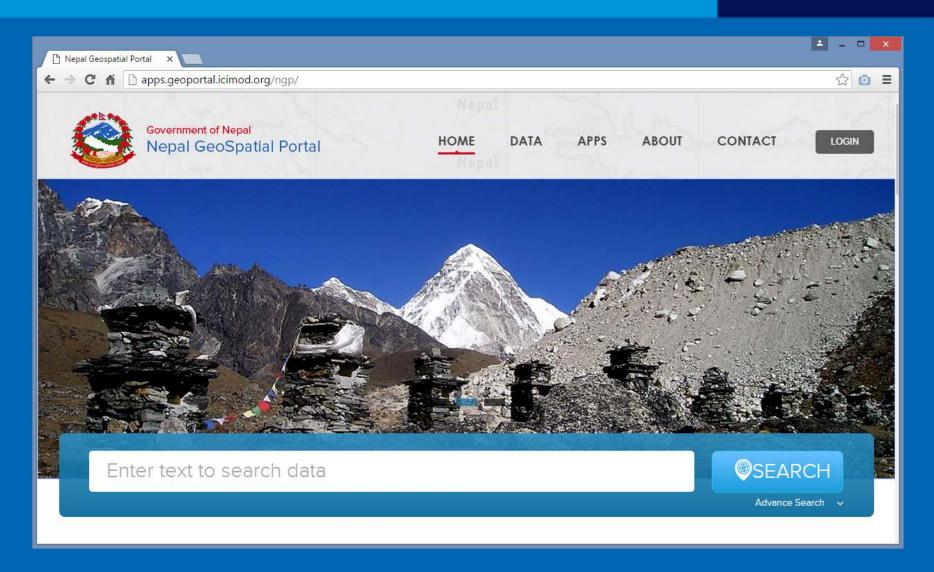






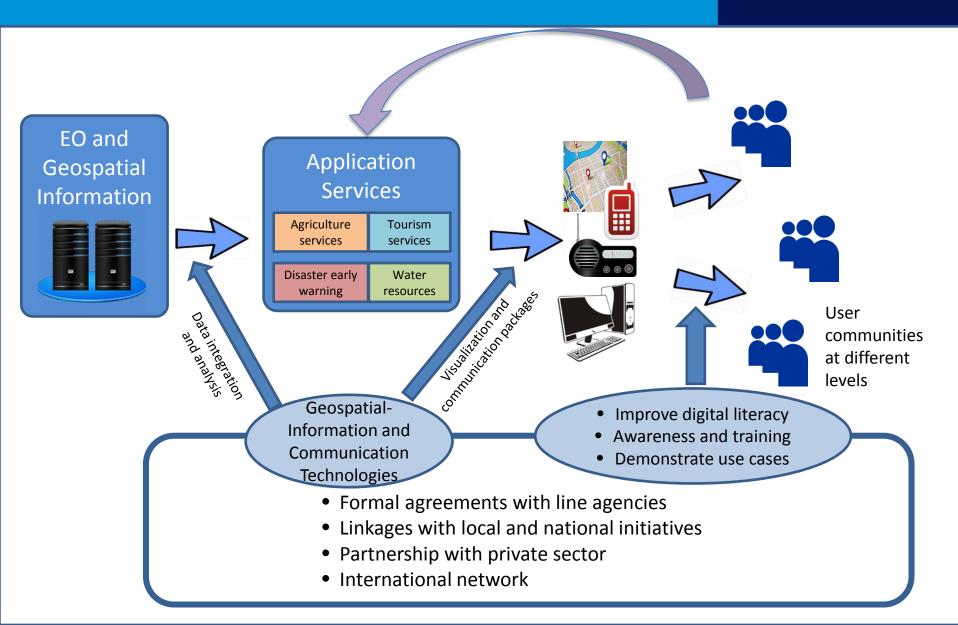
# Nepal GeoSpatial Portal





### **Enabling Systems**





# Thank You



