



Use of Geo-Referenced Information on Enhancing the South Asia Disaster Knowledge Network (SADKN)

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The Country Context

ü Landlocked Himalayan Country in South Asia

ü Federal Democratic Republic Country

ü Area: 147,181 Km²

ü Population: 27 million

ü Multi-lingual, multi-ethnic, & secular
diverse culture

ü Uneven geographical terrain (ranging from 60 m in the south to 8848 m in the north from MSL)



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Nepal, the hotspot of Disasters

ü Nepal is a disaster prone country. Its rugged and fragile geophysical structure; high peaks, the angular slopes, complex geology, variable climate conditions and active tectonic plates make the country very vulnerable to a wide range of natural hazards (UNDP, 2004).

ü Nepal ranked 20th most disaster prone country in the world

ü Nepal ranked 11th most risk country to earthquakes

ü Nepal ranked 30th in terms of flooding

ü These are the major recurring disasters in Nepal: Floods, Earthquake, Landslides, Fire, Drought, GLOF, Avalanches, Hailstone, Windstorm, Thunderbolt, Cloudburst , Epidemics

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Act and regulation for Disaster Management

ü Natural Calamity Relief Act 1982 (Amended in 1982 & 1992)

ü Water Resources Act 1992

ü National Action Plan on Disaster reduction 1996

ü Environmental Protection Act 1996

ü Local self governance act (LSGA, 1999)

ü National Water Resource Strategy, 2002

ü National Water Plan, 2005

ü Three Year Interim Plan (2008-2010)

Institutional Framework for Disaster Management



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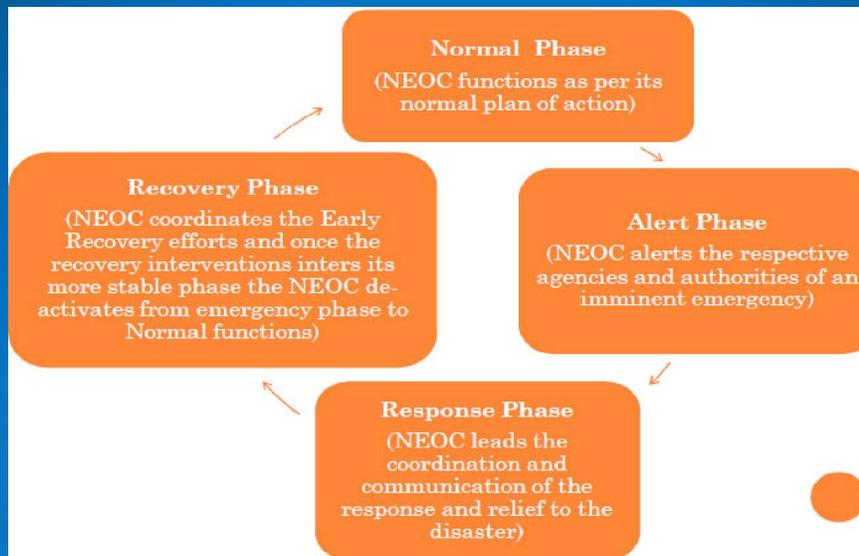
INSTITUTIONS AND ORGANIZATIONS INVOLVED IN DISASTER MANAGEMENT.

- ü Ministry of Home Affairs (MoHA)
- ü National Emergency Operation Center.
- ü Disaster Section.
- ü Different line ministries (MoLD, MoH, MoPP & W, MoI etc)
- ü Nepal Red cross society
- ü UN agencies (UNOCHA, UNDP, WHO, etc).
- ü International agencies - KOICA, WFP, ICRC etc.
- ü Nepal Police, Nepal Army, Armed Police Force.
- ü Regional and District Administration Office.
- ü VDC, DDC, Municipalities.

Role of Ministry of Home Affairs

- ü Formulation of national policies and their implementation
- ü Preparedness and mitigation of disaster
- ü Immediate rescue and relief works
- ü Data collection and dissemination
- ü Collection and distribution of funds

Operation Cycle of NEOC



RESCUE AND RELIEF

- ü CNDRRC –policy making/recommendations
- ü Nepal emergency operation center-communication and networking.
- ü DNDRC,LNDRC-rescue and relief work
- ü Nepal police,Nepal Army,Armed Police Force,Nepal Red
- ü Cross Society, I/NGOS,CBOs.
- ü Search and rescue groups.
- ü Establishment of relief co-ordination center
- ü Assignment of institutions/persons in charge.
- ü Emergency health service.
- ü Providing relief goods to victims

NEOC Website

Select Language : English

 Nepal Government
MINISTRY OF HOME AFFAIRS

National Emergency Operation Center

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The National Emergency Operations Centre (NEOC) was opened on the 17 December 2010, by the Minister of Home Affairs and is operated under the Planning and Special Services Division. It has been running by a nine-member personnel team under the leadership of under-secretary.

Sahana
Disaster Management System

Flood Forecasting Project

Forest Fire Detection & Monitoring in Nepal

Kathmandu Valley Earthquake Emergency & Response Management System

News **Events**

Currently Running System

üSahana Disaster Management Software

üFlood Forecasting project

üForest Fire Detection and Monitoring System

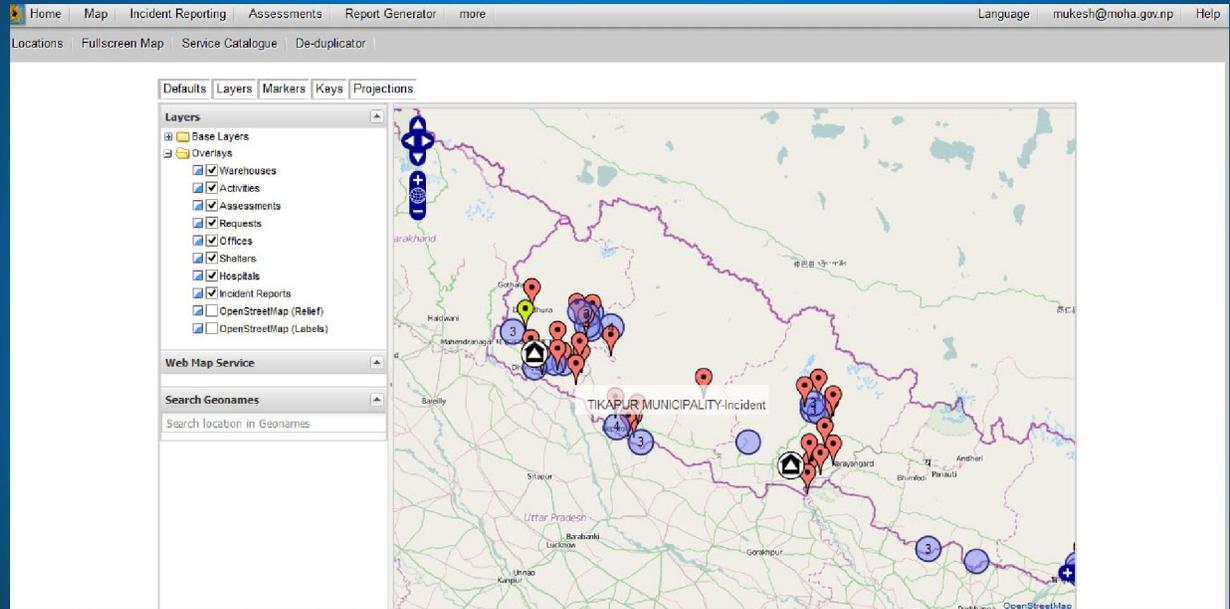
üKathmandu Valley Earthquake Emergency and Response Management System etc

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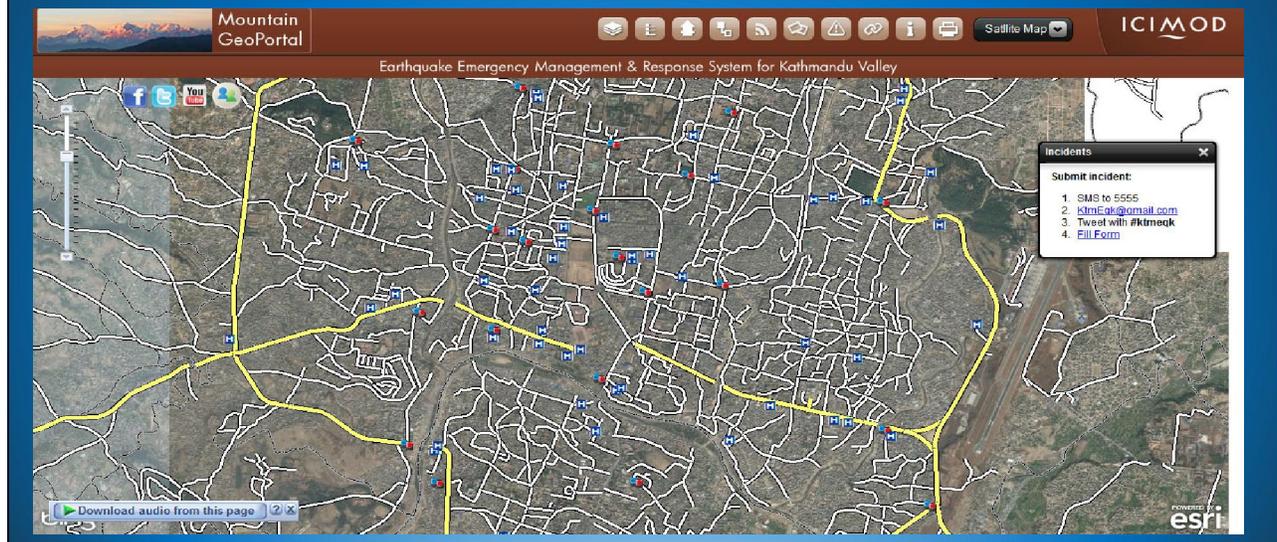
Sahana Disaster Management System

The screenshot displays the Sahana Disaster Management System interface. At the top, there is a navigation menu with links for Home, Map, Incident Reporting, Assessments, Report Generator, and more. On the right side of the menu, there are links for Language, Login, and Help. Below the menu, the header area features the National Emergency Operation Center logo on the left, the text "National Emergency Operation Center" and "Sahana Disaster Management System" in the center, and the UNDP logo on the right. The main content area is divided into three columns: SITUATION, DECISION, and RESPONSE. The SITUATION column contains buttons for Incidents, Assessments, and Warehouses. The DECISION column contains buttons for Gap Report, Gap Map, and Map. The RESPONSE column contains buttons for Activities and Requests. Blue arrows indicate a flow from SITUATION to DECISION and from DECISION to RESPONSE. At the bottom of the interface, there is a footer that reads "A Disaster Management System for NECC".

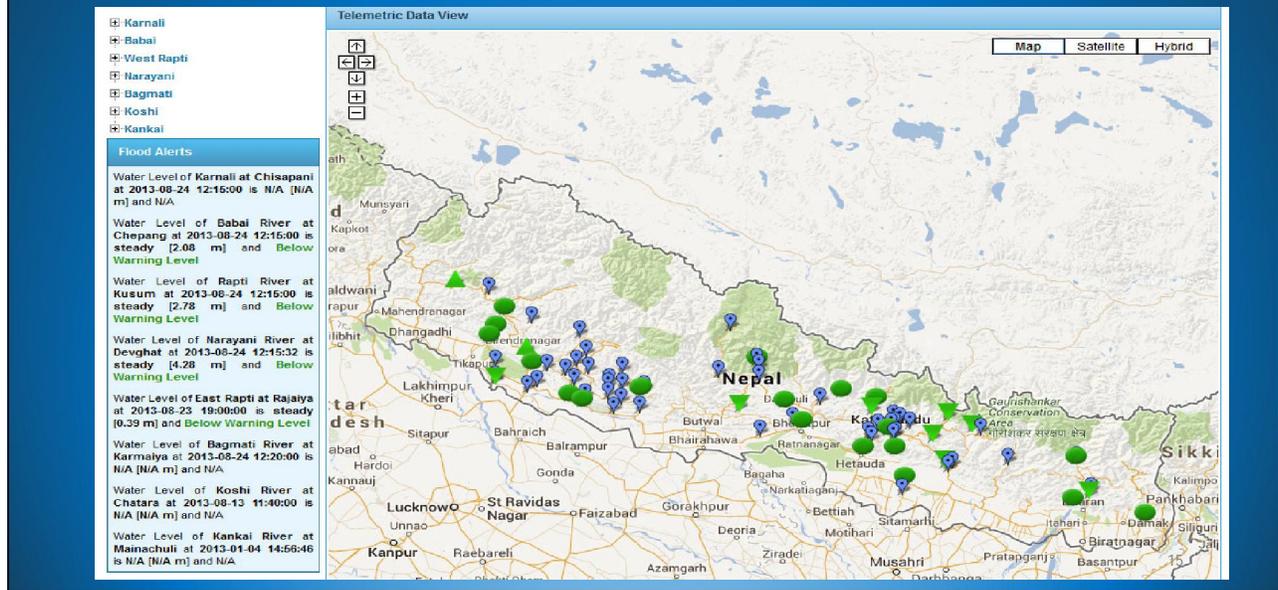
Sahana Disaster Management System



Kathmandu Valley Earthquake Emergency and Response Management System



Flood Forecasting Project



Use of Geo-Referenced Information

üAsia-Pacific is the hardest hit region by natural disasters and its impact is largely felt by small/low income economies.

üIn a disaster situation, authorities need up-to-date information, particularly the geospatial information to make decisions quickly

预览已结束，完整报告链接和二维码如下：

https://www.yunbaogao.cn/report/index/report?reportId=5_6854

