



Regional EGM on Community of Practice of Georeferenced Information System for Disaster Risk Management (Geo-DRM) 23-25 April 2014, Bangkok, Thailand

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The Country Context

üLandlocked Himalayan Country in South Asia

üFederal Democratic Republic Country

üArea: 147,181 Km²

üPopulation: 29.5 million

üMulti-lingual, multi-ethnic, & secular country diverse culture

 \ddot{u} Uneven geographical terrain (ranging from 60 m in the south to 8848 m in the north from MSL)



Nepal, the hotspot of Disasters

üNepal 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).

üNepal ranked 20th most disaster prone country in the world

ü Nepal ranked 11th most risk country to earthquakes

üNepal 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

Act and regulation for Disaster Management

ÜNatural Calamity Relief Act 1982 (Amended in 1982 & 1992)
Ü Water Resources Act 1992
ÜNational Action Plan on Disaster reduction 1996
Ü Environmental Protection Act 1996
ÜLocal self governance act (LSGA, 1999)
ÜNational Water Resource Strategy, 2002
ÜNational Water Plan, 2005
ÜThree Year Interim Plan (2008-2010)





Institution and Organization involved in Disaster Management

- üMinistry of Home Affairs(MoHA)
- üNational Emergency Operation Center.
- üDisaster Section.
- ü Diffirent line ministries(MoLD, MoH, MoPP 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.
- ü Disaster Preparedness Network(DP-NET), etc.

Role of Ministry of Home Affairs

üFormulation of national policies and their implementation üPreparedness and mitigation of disaster üImmediate rescue and relief works ü Data collection and dissemination üCollection and distribution of funds

Operation Cycle of NEOC

Normal Phase

normal plan of action)

Recovery Phase

(NEOC coordinates the Early Recovery efforts and once the recovery interventions inters its more stable phase the NEOC deactivates from emergency phase to Normal functions)

Alert Phase

(NEOC alerts the respective agencies and authorities of an imminent emergency)

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Response Phase (NEOC leads the

coordination and communication of the esponse and relief to the disaster)

Rescue and Relief

üCNDRC – 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 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

Need for Disaster Information Management System (IMS) in Nepal

- Despite the fact that the Nepal government and development partners spend significant financial resources on preparedness, mitigation and response every year, a comprehensive disaster database and a unified system of disaster information dissemination is still a key challenge
- There is lack of effective systems to monitor and archive disaster related data, and the mechanism to engage multiple stakeholders in information management processes

Need for Disaster Information Management System (IMS) in Nepal

- Lack of a standardized national database on disaster for the implementation of immediate relief measures
- Ensure that response operations are focused upon the correct tasks, in the right order of priority

Information Required

- Pre-Disaster Situation. collation and compilation of baseline data of the country and hazard (to improve the existing knowledge base), risk assessment, prevention, mitigation and preparedness
- *Post-Disaster Situation*. Real-time data of the disaster impact and resource to respond, plan for recovery and rehabilitation.

Need of Geo-Portal

- Effectiveness of disaster risk management depends greatly on the efficiency in managing relevant information. In a disaster situation, authorities always need an up-to-date information, particularly the geospatial information to make decisions and actions quickly and timely
- There is a need of analyzing geospatial data in a geographical information system in the form of satellite imagery, and field data alone cannot be analyzed without geo-referenced system.

Need of Geo-Portal

- The majority of information is spatial and can be mapped. Once information is mapped and data is linked to the map, disaster management planning will be in shape
- Disaster management personnel can expedite the formulation of mitigation, preparedness, response and recovery programs on the basis of linkage with geo-information system
- With the use of GIS, it can be identified the disaster management needs prior to an incident

Sources of Data

üMinistry of Home Affairs
üHydro meteorological data – Department of Hydrology and Meteorology (DHM)
üSatellite images, Land-use and topographic maps: Survey Department
üDepartment of Health
üAnd many others

Geo-Portal

Geo-Portal is a web-based application and platform for developing geospatial information systems (GIS) and for deploying spatial data infrastructures (SDI). It is designed to be extended and modified, and can be integrated into existing platforms.

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