

The Role of Data Management in Disaster Management in Nepal



Disaster Preparedness Network- Nepal (DPNet)

May 19, 2023

Introduction

- Importance of data management
- Globally recognized in disaster management
- Particularly significant in Nepal due to its unique context

Risk Assessment and Planning

Historical data

Help to identify vulnerable regions and understand hazards

Geographic Information System (GIS) data

Help to visualize vulnerabilities

Predictive Analysis

- Environmental and seismic data
- Predictive models and early warning systems
- Saves lives and reduces the impact of disasters by enabling timely preparation or evacuation

Resource Allocation and Coordination

- Role of data management in logistics
- Helps track available resources
- Ensures resources are directed where most needed
- Role of data in coordination
- Fosters coordination among various agencies
- Helps streamline efforts and avoid redundancy

Real-time communication

- The rise of digital platforms
- Real-time data collection and communication during disasters
- Social media
- Provides firsthand reports from affected areas
- Enables quicker response and more targeted assistance

Post-Disaster Assessment and Learning

- Helps to assess the damage
- Helps evaluate response effectiveness
- Identifies areas for improvement
- Informing plans
- Insights help revise disaster management plans for better future crisis management

Community Engagement and Empowerment

- Local data collection (VCA, LDCRP)
- Promotes community participation in disaster management
- Provides vital ground-level data
- Empowers communities

Challenges and opportunities

- Challenges in data management in Nepal (Example with nice Joke)
- Limited technological infrastructure
- Lack of data standardization
- Varied accessibility of remote regions
- Privacy concerns (Data disposition, Issues in the CHS revision process)

Challenges and opportunities

- The need for cultural appropriateness in data interpretation and use (for example some communities may consider a particular open space as a sacred place and shouldn't be entered without a special occasion).
- Lack of updating and sharing data
- Enhance partnership with all agencies working in emergency preparedness and response

Challenges and opportunities

- Improve the use of scientific information (e.g. Satellite images, historical data, and other climatic data) for better prediction of emergency and response plan
- Enhance collaboration with scientific agencies (e.g., ICIMOD, research institutes, and academia).

DPNet's Role in Strengthening Data Management in Nepal's Disaster Management

- The umbrella organization of various NGOs, INGOs, and UN Agencies
- Trying to bridge the data management gap in Nepal
- Online resource center (DRR Central Repository in Nepal)

DPNet's Role in Strengthening Data Management in Nepal's Disaster Management

- Conducts various discussion programs
- Advocates policies and lobbies on data management
- Aims to strengthen disaster risk reduction data management systems in Nepal

Thank You!