

ASIAN CONFERENCE ON DISASTER REDUCTION

Towards Realization of the Strategic Goals of HFA
2005-2015

March 15-17, 2006; Seoul, ROK

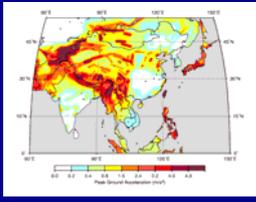
NSET for earthquake safer communities

1. Capacity Development for DRR at all levels
2. Building of a people-based culture of prevention



NSET www.nset.org.np

Nepal: Location and Earthquake Risk



Very high Earthquake Hazard




Very high Earthquake Risk



Potential Impact due to scenario EQ in KV (KVERMP estimates for IX MMI)

Impact	Extent
Death	>40,000
Injuries	>95,000
Buildings destroyed/collapsed	>60%
Homeless population	>700,000
Bridges impassable	>50%
Road length damaged	>10%
Water supply pipes damaged	>95%
Telephone Exchange Buildings	most
Telephone lines	>60%
Electric substations	most
Electric lines	40%

BITTER FACTS

- Knowledge is not adequately available to the vulnerable
- The available knowledge largely not translated into end users' language
 - Gap between "expert" knowledge and implementation
- Larger part of the population are usually not involved in DRM

Capacity Development

Awareness	Capacity building
Orientation to House Owners	Training of Masons, self-builders
Publication	Training of Technicians, Engineers
Radio/ TV	Training of Teachers
Orientation Lectures	Training of Policy/decision makers

Training Programs for all

Awareness Program



Awareness Rally and Mass Meeting

2003 9 22



Earthquake Safety Day: Awareness Tool



Shake Table Demonstration



Nepal, India, Afghanistan, Tajikistan, Iran, Aceh, WCDR
Kobe, Pakistan



Shaking Table: a powerful Earthquake Awareness tool



Training and Education

- Training courses conducted and comprehensive curricula developed
 - Decision-makers' Training
 - Engineers' Training
 - Technicians' Training
 - Mason and Petty Contractors' Training
 - Teachers' Training
 - Orientation Lectures to house-owners
- Involvement and collaboration with key stakeholders is crucial for effectiveness and success
 - Municipalities
 - Professional societies – mason association, DEAN etc.
 - Other NGOs – Lutheran World Federation
 - DUDBC
 - NSET

Need implementation of training programs in other areas!!!



Building a Culture of Prevention

Community ownership & participation in ...

- Making DRR as Matter of Fact in Daily Life
- Assessing the risk
- Understand and master the use of Knowledge
- Reduce vulnerabilities
- Be prepared

Making a Culture of Prevention

School Earthquake Safety Program

Structural & Non-structural Vulnerability Reduction of Built Environment: Non-engineered Buildings (Rural & Urban)

Community Earthquake risk reduction & Preparedness

Advocacy, Educating the policy/decision-makers

School Earthquake Safety Program

Awareness

Mason Training

School Retrofit



Municipal Earthquake Risk Management Program

Scenario

Action Plan

Implementation

Replication

58 MUNI

RADIUS TOOL

SESP

M & E

Building Damage Estimation (for Scenario Earthquake)

Building Damage Pattern Dharan Municipality

40 % of the Total Building Stock Could be Damaged

Participatory Action Planning

भूकम्पीय परिस्थय तथा कार्ययोजना कार्यशाला
Earthquake Scenario & Action Plan Workshop
३ आशु २०७० (२० AUGUST २००९)

Earthquake Scenario and Action Planning Workshop

2007-08-20



Initiatives Building Code Implementation

- Joint works with Ministries, Departments and Municipalities
- Grass roots level training programs for capacity building
 - Mason training
 - Engineers/technicians training
- Efforts by
 - Corporate Sector's Efforts
 - Academic Institutions
 - Private Sector

Change in mindset!!!



Community-level Disaster Preparedness Programs

Kathmandu Valley Earthquake Preparedness Initiative (KVEPI)



Joint effort of NSET and NRCS



EMERGENCY PREPAREDNESS



Pre-positioned Emergency Rescue Stores (PPERS) – in 8 locations of KV



Earthquake Mobile Clinics

Objective:

- Bring knowledge of safer building construction in construction site of informal buildings.
- Assist Building Code Implementation at Site Level
- Monitor Impact of Earthquake Awareness
- To stimulate the house owners, builders to consider earthquake risk.



Vulnerability Tour

- Objectives
 - To convince lay persons to the policy/decision makers and the international community on urgency of urban earthquake vulnerability reduction initiatives.
 - To help develop perception of existing seismic vulnerability of Building structures, life line structures and their combination
 - To help champions develop their own vulnerability tour in their own wards/cities

