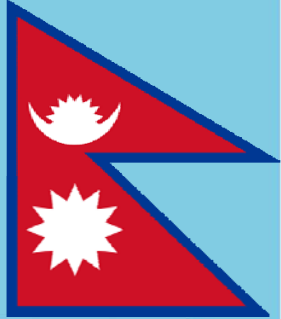




National Society for Earthquake
Technology-Nepal (NSET)



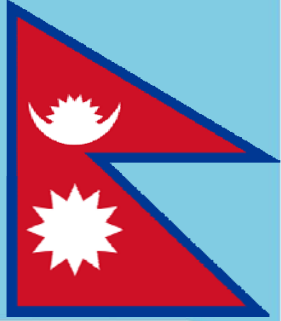
WELCOME



NSET NAMASTE



National Society for Earthquake
Technology-Nepal (NSET)



WELCOME

International Training Workshop on Natural Disaster Reduction
Slopeland Disaster 2010

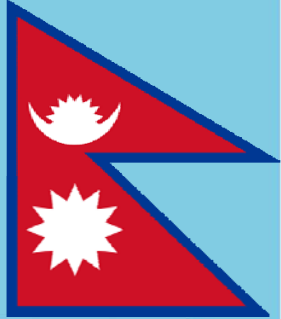
**The 6th International Training Workshop
National Science and Technology Center for
Disaster Reduction (NCDR), Taiwan, R.O.C.
May 10-14 2010**



NSET NAMASTE



National Society for Earthquake
Technology-Nepal (NSET)



WELCOME

International Training Workshop on Natural Disaster Reduction
Slopeland Disaster 2010

Trainee Experience Sharing



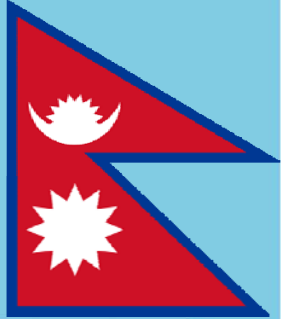
Khadga Sen Oli

Advocacy & Outreach Manager
National Society for Earthquake
Technology - Nepal (NSET)





National Society for Earthquake
Technology-Nepal (NSET)



WELCOME

International Training Workshop on Natural Disaster Reduction
Slopeland Disaster 2010

Content-

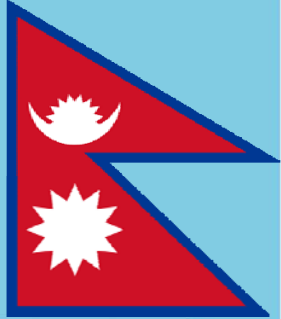
NSET in brief

- As an institution
- Focus on NSET initiatives
on CC & Flood related issues



National Society for Earthquake
Technology-Nepal (NSET)

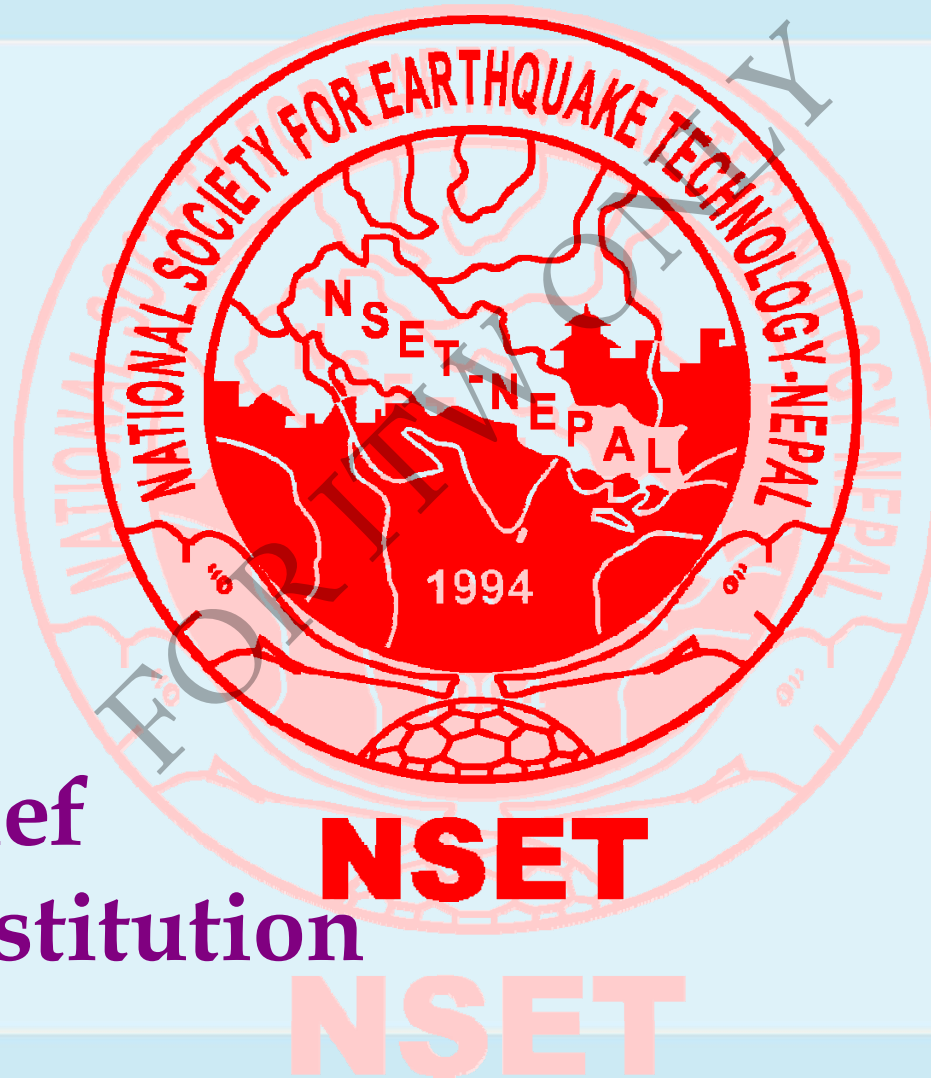
WELCOME



Part I

NSET in brief

- As an institution





National Society for Earthquake
Technology-Nepal (NSET)

WHY NSET?

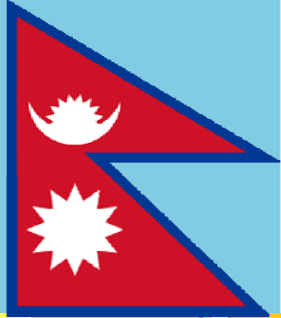


NSET



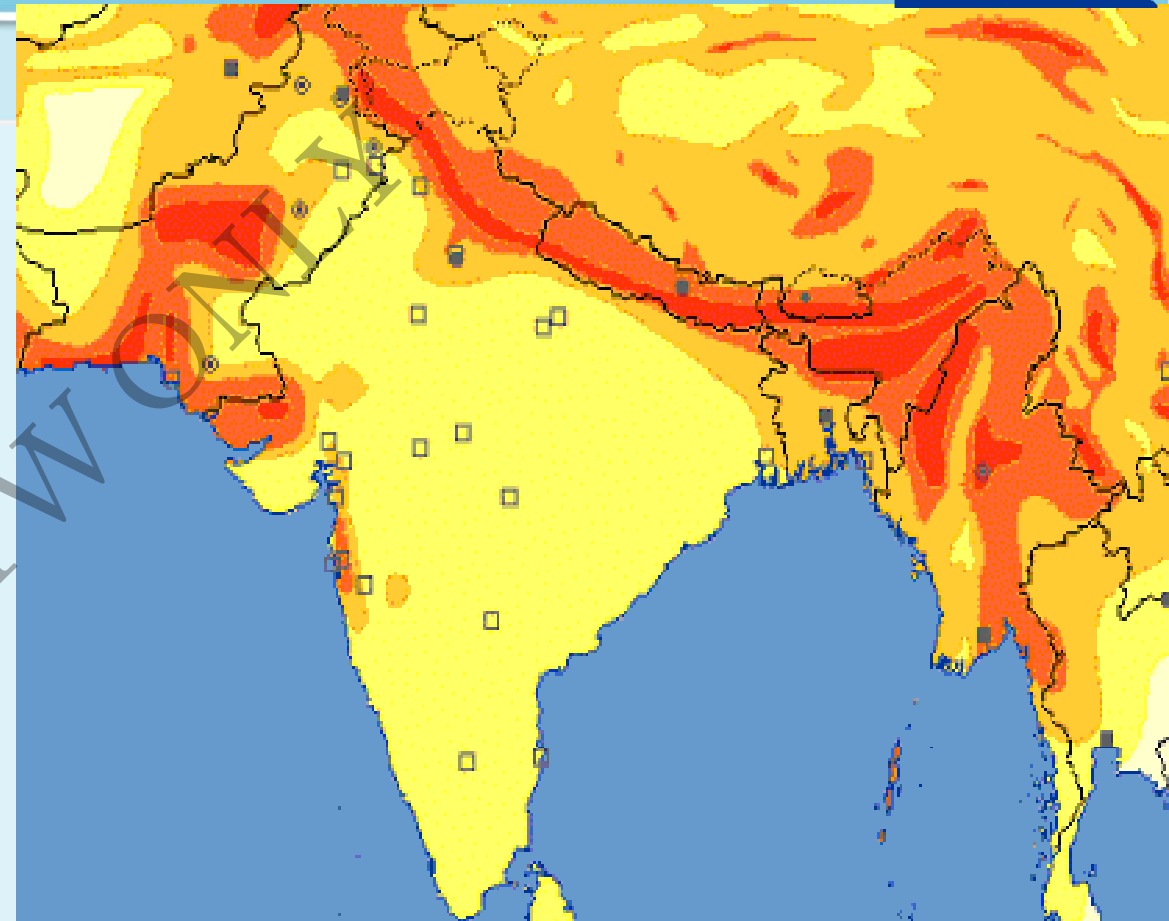
National Society for Earthquake
Technology-Nepal (NSET)

WHY NSET?



Seismic Hazard Map of Nepal

Source
Munich re, 2001



| Seismic Zone | Modified Mercalli Intensity | Peak ground acceleration (%g) |
|--------------|-----------------------------|-------------------------------|
| Zone = 0 | MMI = V | < 3 |
| Zone = 1 | MMI = VI | 3 - 10 |
| Zone = 2 | MMI = VII | 10 - 20 |
| Zone = 3 | MMI = VIII | 20 - 35 |
| Zone = 4 | MMI = IX | > 35 |

WHY NSET?

Devastating earthquake in Kathmandu

- magnitude 8.4 on the Richter scale
- January 16, 1934
- damaged 126,355 buildings
 - 80,893 houses completely damaged
 - 8,519 deaths



Damage caused by the 1934 Earthquake, Kathmandu

WHY NSET?

6.6 Richter scale in
Udayapur District in East
Nepal, 1988

- killed over 721 people
and 1,600 domesticated
animals in 22 of Nepal's
75 districts
- damaged around 60,000
houses
- direct total loss caused
estimated NRs. 5 billion.



Damage caused by the 1988 Earthquake, Dharan

WHY NSET?



- The Udayapur Earthquake of 1988 was an “eye opener” says NSET President



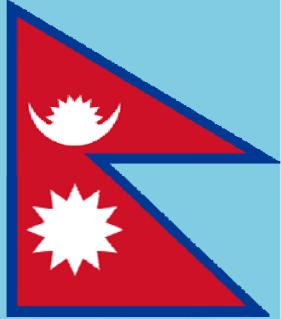
- NSET was born from the ruins of the 1988 earthquake in Nepal says NSET General Secretary

NSET



National Society for Earthquake
Technology-Nepal (NSET)

WHY NSET?

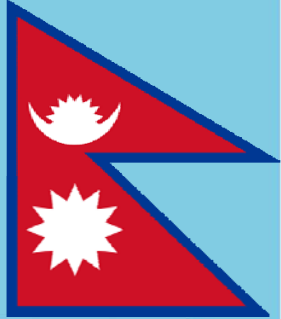


- National Society for Earthquake Technology – Nepal (NSET) founded on June 18, 1993





National Society for Earthquake
Technology-Nepal (NSET)



WHY NSET?

VISION:

“Earthquake Safe Communities in Nepal by 2020”

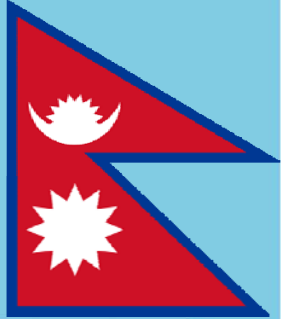
MISSION:

To assist all communities in Nepal to become earthquake-safer by developing and implementing organized approaches to managing and minimizing earthquake risks

NSET



National Society for Earthquake
Technology-Nepal (NSET)



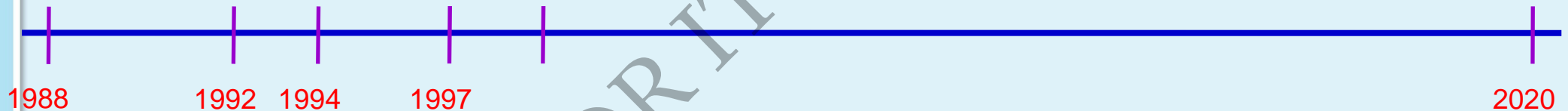
ERM Initiatives in Nepal

Risk Assessment and Action Planning for KV
School Earthquake Safety Program
Public Awareness

People, professionals and
authorities started thinking
about systematic ERM

First Annual ESD with several awareness
programs

NSET Vision:
Earthquake Safe
Communities in Nepal



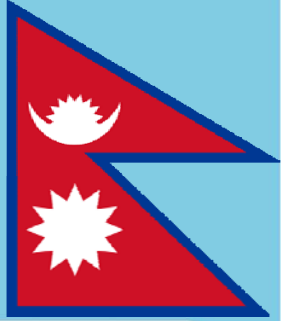
Earthquake of Eastern Nepal 1991, Govt by NSET

Magnitude 6.6M with assistance from the Annual
721 death USAID Earthquake Safety Day (ESD)
National Building Code

Development Project started

NSET created in 1993 and

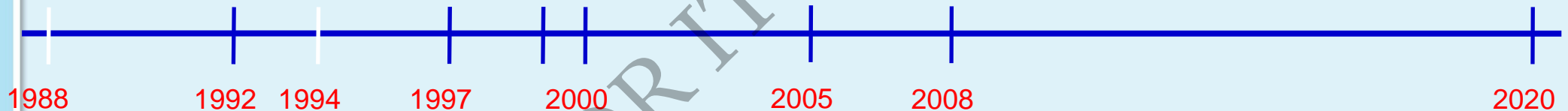
registered in 1994



ERM Initiatives in Nepal

Continue most activities of APIP
Implementation of Actions suggested by the Action Plan
Extended to whole country
Replication of KV experiences

Comprehensive risk assessment
and disaster management plan for
KV



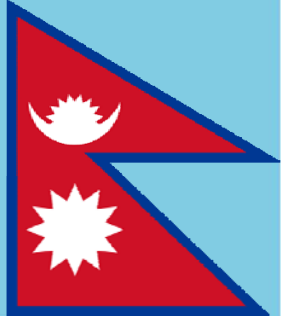
NSET started KVERM APIP
with assistance from USAID/OFDA
NERMP extended till 2010
NERMP started

Study on Earthquake Disaster
Mitigation (SEDM) started
with assistance from JICA



National Society for Earthquake
Technology-Nepal (NSET)

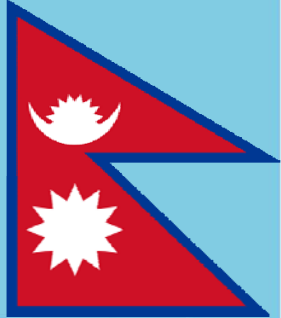
Glimpses of NSET initiatives





National Society for Earthquake
Technology-Nepal (NSET)

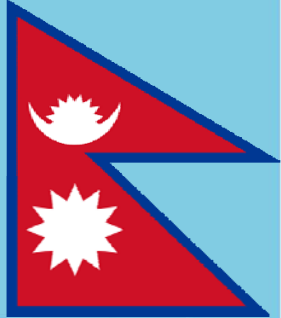
Glimpses of NSET initiatives





National Society for Earthquake
Technology-Nepal (NSET)

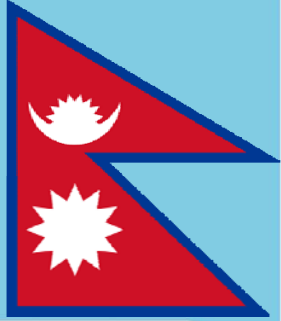
Glimpses of NSET initiatives





National Society for Earthquake
Technology-Nepal (NSET)

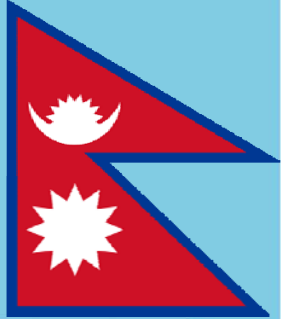
Glimpses of NSET initiatives





National Society for Earthquake
Technology-Nepal (NSET)

Glimpses of NSET initiatives



Safer Society

NSET's decade-long efforts to make
communities earthquake-safe
and
Annual Report 2008

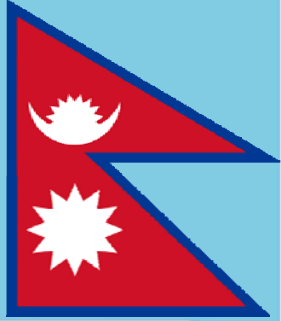


National Society for Earthquake
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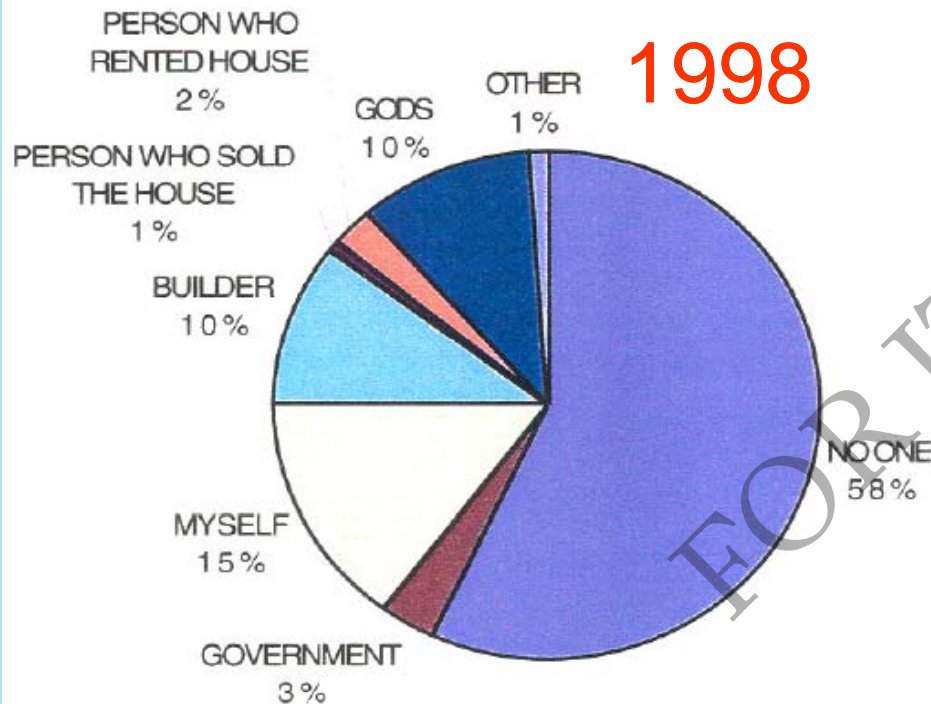
December 2008

Positive Change in mind-set

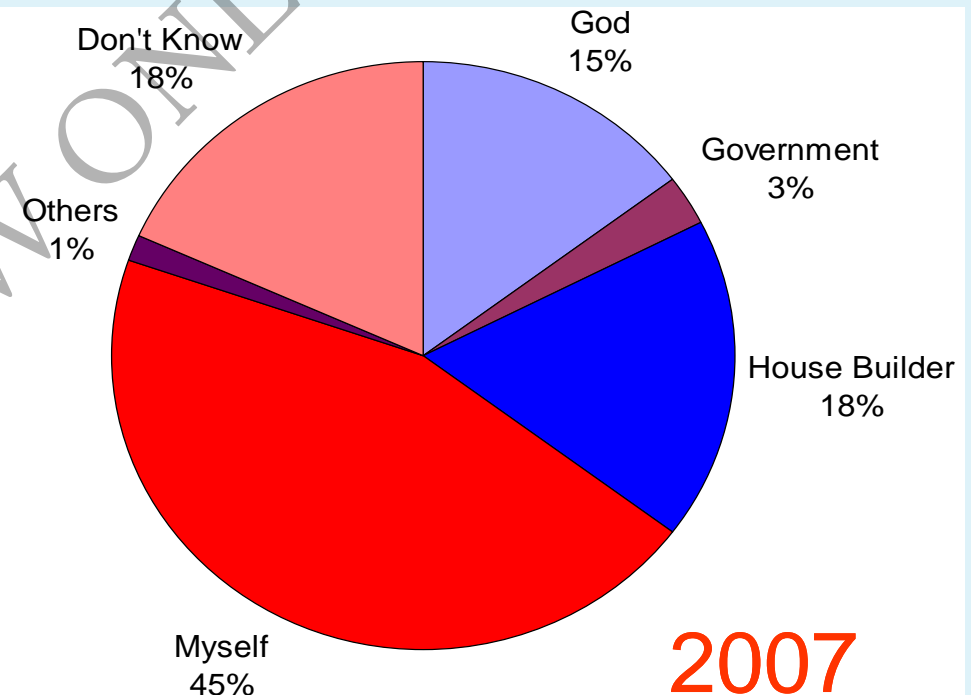
- Marked enhancement in Earthquake Awareness
- I am responsible, I have to do it.



1998



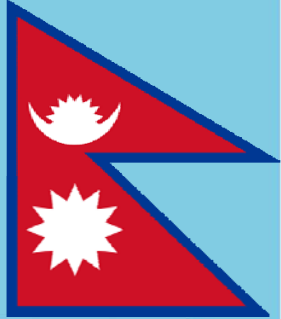
2007



If your house would collapse and kill some of your family due to big earthquake, whom do you blame?



National Society for Earthquake
Technology-Nepal (NSET)



Part II

NSET in brief

- Focus on NSET initiatives on CC & Flood related issues



National Society for Earthquake
Technology-Nepal (NSET)

Development of Risk Management

NSET Information Kit | 001 | 2009



नेपाल सरकार गृह मन्त्रालय

(Government of Nepal, Ministry of Home Affairs)

विपद् जोखिम व्यवस्थापन राष्ट्रिय रणनीति, २०६६ (National Strategy for Disaster Risk Management, 2009)

२०६६/६/२५ मा स्वीकृत
(Approved on 2009 October 11)





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Technology-Nepal (NSET)



Final Draft



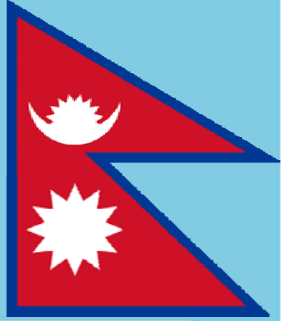
National Strategy for Disaster Risk Management in Nepal



March 2008



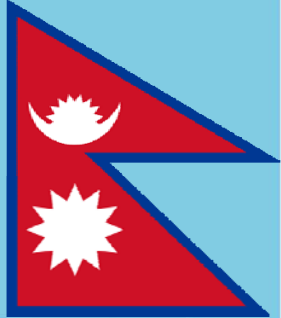
NSDRM



- NSDRM has recommended 29 Cross-sectoral and 5 sectoral strategies for DRM
- The recommended Strategies are based on already identified gaps and issues for each of the Priorities for Action that are in line with the HFA priorities
- NSDRM is hence a comprehensive document to address disasters like flood, landslides, epidemics, earthquakes, climate induced disasters etc. in Nepal



National Society for Earthquake
Technology-Nepal (NSET)



Australian Government
AusAID



National Workshop for preparing

Framework of National Emergency Response System for Nepal

April 11-12, 2010
Kathmandu, Nepal

Organized by:
Government of Nepal, Ministry of Home Affairs
National Society for Earthquake Technology-Nepal (NSET)

In association with:
Asian Disaster Reduction and Response Network (ADRRN)
With financial support from:
Australian Government, AusAID



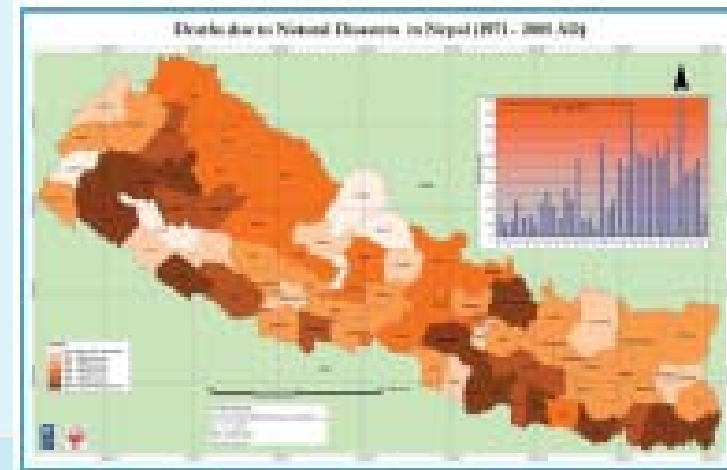
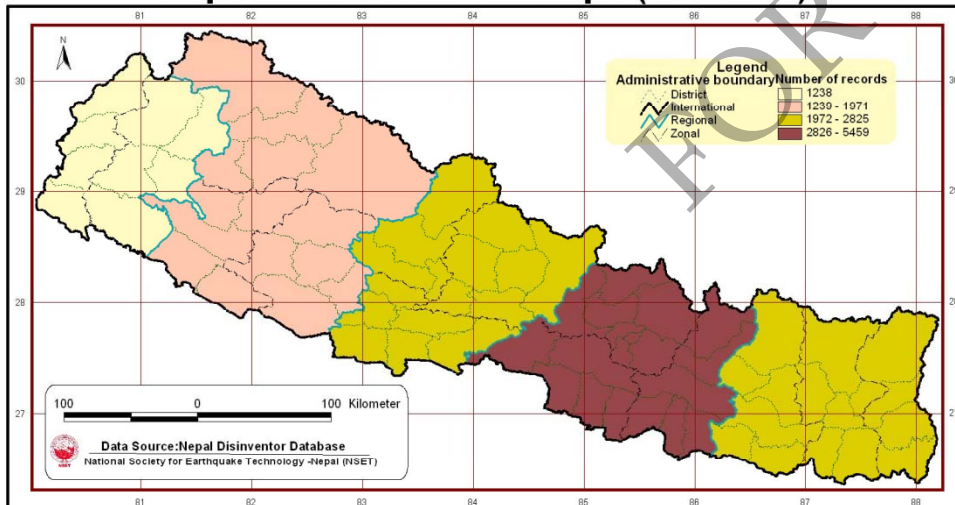
Themes of discussion

- Information, communication and Coordination
- Search, Rescue and Evacuation
- Damage control
- Damage and needs assessment
- Relief (food and non-food)
- Recovery, reconstruction, rehabilitation

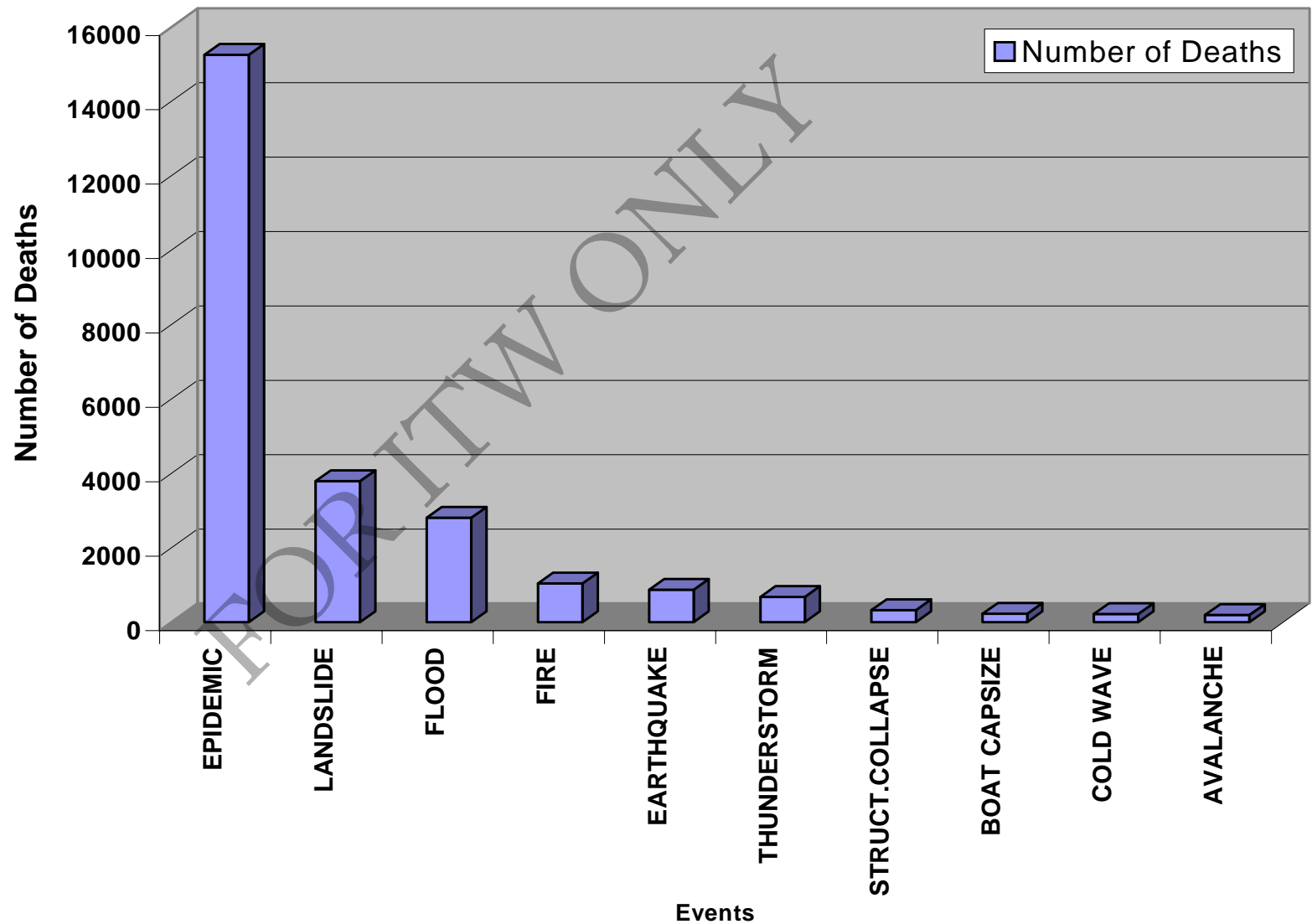
Disaster Inventory/ Information Management System in Nepal (Desinventar)

NSET Information No. 001 | 2009

Map : Disaster Records in Nepal (1971-2007)



Ten Most Lethal Hazards in Nepal (1971 - 2005)





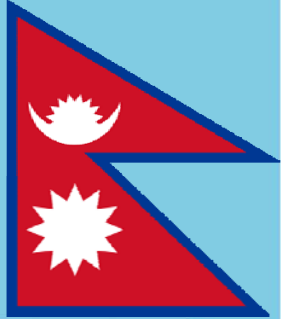
National Society for Earthquake
Technology-Nepal (NSET)

Disaster Losses in Nepal during 1971 – 2006 (37 Years)

| S. No. | Events | Death | Injury | Peoples Affected | Building s destroye d | Building s damage d | Land Loss (Ha) | Livestoc k Death | Reported Direct Loss (Million NRs) |
|--------|--------------|---------------|---------------|---------------------|--------------------------------|------------------------------|----------------------|---------------------|--|
| 1 | DROUGHT | 1 | - | 1,512 | - | - | 329,332 | - | 10 |
| 2 | EARTHQUAKE | 873 | 6,842 | 4,539 | 33,710 | 63 | - | 2,257 | 22.8337+50 |
| 3 | EPIDEMIC | 15,529 | 37,773 | 323,896 | - | - | 1 | 78 | 0 |
| 4 | FIRE | 1,081 | 735 | 218,128 | 62,634 | 2,762 | 352 | 113,922 | 6,244 |
| 5 | FLOOD | 2,864 | 349 | 3,315,781 | 70,115 | 1,041 | 196,955 | 31,117 | 3,713 |
| 6 | FIRE | 24 | 13 | 10,178 | 1,698 | 18 | 3,173 | 82 | 1,031 |
| 7 | LANDSLIDE | 3,899 | 1,188 | 480,069 | 16,779 | 1,209 | 21,797 | 9,046 | 835 |
| 8 | OTHER | 2,385 | 2,670 | 360,725 | 3,917 | 388 | 290,323 | 79,935 | 2,030 |
| | TOTAL | 26,656 | 49,570 | 4,715,828 | 188,875 | 5,482 | 841,954 | 236,459 | 13,885 |



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Technology-Nepal (NSET)



SAARC Workshop
Climate Change and Disasters:
Emerging Trends and Future Strategies

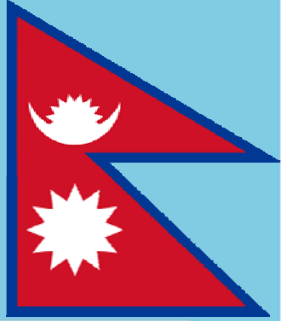


SAARC Workshop on Climate Change and Disasters: Emerging Trends and Future Strategies

Kathmandu, Nepal
21-22 August 2008

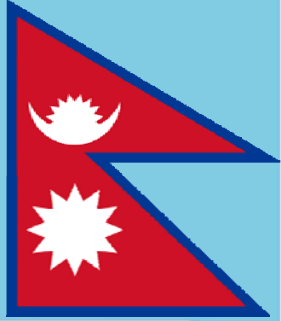


Key Findings and Recommendations



- enabling mechanisms for integrating DRR and CCA through integration of appropriate technologies
- networking of DRR and CCA institutions at national, regional and global levels coupled with multi-stakeholder communication and dialogues

Key Findings and Recommendations

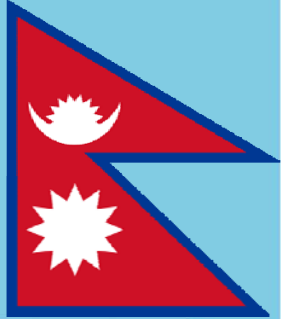


Suggested Steps:

- Step I: Targeting Climate Related Disaster Risks:
 - Climate change risk is a huge task
- Step II: Designing Risk Reduction Strategies
- Step III: Integrating Climate, Weather & EWS Information in Decision Making



Thematic Areas for the Road Map



- **Road Map for Implementation of SAARC Action Plan on Climate Change by SAARC Disaster Management Centre (2009 – 2011)**
 - Thematic area one: **Adaptation to Climate Change**
 - Thematic area two : **Technology Transfer**
 - Thematic area three : **Finance and Investment**
 - Thematic area four: **Education and Awareness**
 - Thematic area five: **Management of Impact and Risks due to Climate Change**

| | | | | |
|-------|-------|------|---|---|
| 14:00 | 15:15 | E | Session E: Mainstreaming Disability Considerations into Disaster Risk Management | Chairperson: Dr. Chhewang Namgyal Lama Sherpa, Member Secretary, Social Welfare Council |
| 14:00 | 14:05 | E-0 | Opening Remarks by the Session Chair | |
| 14:05 | 14:35 | E-1 | Key Issues of Disability Considerations in Disaster Risk Reduction, Preparedness and Response | Ms. Vera Van Ek, Disaster and Disability Technical Coordinator, Handicap International; and Mr. Birendra Pokharel, National Federation of the Disabled Nepal (NFDN) |
| 14:35 | 15:15 | E-2 | Q/A, Discussion and Closing Remarks by Session Chair | Session Chair |
| 15:15 | 15:30 | T4 | Tea Break | |
| 15:30 | 16:00 | F | Session F: Climate Change Adaptation (CCA) in the Context of Disaster Risk Reduction | Chairperson: Mr. Batu Krishna Upreti, Member, LDC Expert Group; and Deputy Director General, Department of Plan Resources |
| 15:30 | 15:35 | F-0 | Opening Remarks by the Session Chair | |
| 15:35 | 15:50 | F-1 | SAARC Road Map on Climate Change and Disaster Risk Reduction | Mr. Amod Mani Dixit, Executive Director, NSET |
| 15:50 | 16:05 | F-2 | Key Issues of Climate Change in Nepal | Prof. Dr. Bhakta Bahadur Ale, Center for Energy Studies, IOE |
| 16:05 | 16:20 | F-3 | Key Elements and Expected Outcomes of NAPA Process | Mr. Gyanendra Karki, Technical Officer, NAPA Project, Ministry of Environment |
| 16:20 | 16:35 | F-4 | Increasing the Resilience of Local Communities to the Impacts of Climate Change | Mr. Gehendra Gurung, Program Leader, Practical Action |
| 16:35 | 16:50 | F-5 | Q/A, Discussion and Closing Remarks by Session Chair | Session Chair |
| 16:50 | 17:00 | CC | Concluding Session | Chairperson: Mr. Buddhi Sagar Thapa, Deputy Director General, DUDBC |
| 16:50 | 16:55 | CC-1 | Conclusions of the Symposium and "What Next?" | Mr. Amod Mani Dixit, Executive Director, NSET |
| 16:55 | 17:00 | CC-2 | Closing Remarks | Session Chair |
| 17:00 | | | Adjourn of Symposium followed by tea | |



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Technology-Nepal (NSET)

Glimpses of National Symposium 2010

