

5GPDRR, Cancun, Mexico

17th Science Committee Meeting
May 22-23, 2017

**Plan of collaboration and contribution for Formulation of
Science and Technology Plan for DRR in Nepal**

Surya Narayan Shrestha, Deputy Executive Director

National Society for Earthquake Technology-Nepal (NSET)
ICoE, Nepal



Scientific Research Capabilities

- Implementation research – research into the nature, extent and characters of natural or human-induced hazards, local vulnerabilities, sources of disaster risks, and alternatives for risk reduction.
- Researches on Social vulnerabilities and integrated risks, risk communications, & so on
- Researches on Transferable Indigenous Knowledge, and traditional wisdom, earthquake resistance of historical monuments and temples, local construction materials and technologies such as stone masonry in mud mortar.
- Documenting the success stories and the process for transferring the lessons learned to the next generation of researchers.



Ongoing Major Collaborative Researches

- Integrated risk using score card method and OpenQuake with the Global Earthquake Model (GEM)
- Ground motion studies using low-cost accelerometers for Nepal accelerometers network NSHAKE (USGS)
- Researches in stone masonry buildings with Beijing Normal University with shaking table tests at Kunming Laboratory
- Earthquake engineering with the International Centre for Urban Safety Engineering (ICUS), Institute of Industrial Science, UTokyo (numerical analysis of intervention options)
- Interaction between social sciences and physical under a NERC (UK)-financed Earthquake without Frontiers with a consortium of 6 UK and universities and British Geological survey with risk reduction institutes in Nepal, China, Kazakhstan, Bihar and Singapore



National & International Linkages

- NSET is one of the founders of the Asian Disaster Reduction and Response Network (**ADRRN**)
- **Governing Board Member** in GEM
- Sits in numerous National Committees (**Clusters**) and **Working Groups**
- Participants to Global, Regional and National Platforms, **National DpNet**, AMCDRR, WCDRs
- National Member of **IAEE**
- Facilitates participation of representatives of related Nepalese Government Agencies



Original Workplan



Nepal Science & Technology Plan for Impementation of SFDRR (NSTP) Plan Development Timeline 2017

Activities	February			March			April			May			June			July			Remarks
Informal Entry	■	■																	
Kick off Workshop				■															
Thematic Discusson				*1	*2	*3	*4	*5	*6	*7	*8	*9							
Structured Interviews												■	■						
Draft NSTP Preparation	■	■	■	■	■	■	■	■	■	■	■	■	■						
End Line Workshop														■					
Submission of Science Plan Draft to Government														■	■				
Review by Development Partners																■	■		
Government Acceptance																		■	■

- informal Entry
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- * Thematic Discussion
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- Government Acceptance

Delays mainly due to ongoing political processes in Nepal



Expectations

- Approaches, methodologies, templates for formulation of S&T Plan
- Technical inputs and guidance
- Review of the draft plan
- Support during engagement with formal government institution
- Some level of funding assistance



What NSET can bring

- Technical knowledge and experience towards implementation of ERM efforts on Nepal
- Local perspectives from Nepal
- 25 Anniversary of NSET and will be organizing an International Conference



Content

1. Core academic expertise (subject and geographical)
2. Training and professional or policy ties/partnerships
3. Connections to IRDR research projects (RIA, FORIN, DATA, AIRDR)
4. Highlights of past or ongoing IRDR ICoE branded activity
5. What you want to gain from being an active part of the ICoE family
6. What you feel next steps should be that you could contribute to grow/realise the ICoE family



STATUS OF S&T

- 1976 - Science and Technology Council - invention, innovation and adoption
- 1982- Nepal Academy of Science and Technology (NAST) was founded in 1982 AD (2039 BS).
- 1996 - Ministry of Science and Technology
- 2005- Amalgamated Ministry of Science, Technology & Environment
- Researches in other Ministries, usually externally funded
- Foundations, Private Researches

**S/T extent Project based, addressing international commitments (environmental considerations), Specific S/T problems by specific ministries/ Agencies, only generic NATIONAL S/T “vision”
Little S/T research in DRR, most by NGO & Int. Agencies**