

Expression of Interest for Establishment of International Centre of Excellence (IRDR ICoE)

Submitted to



**INTEGRATED RESEARCH ON
DISASTER RISK | IPO**

Submitted by



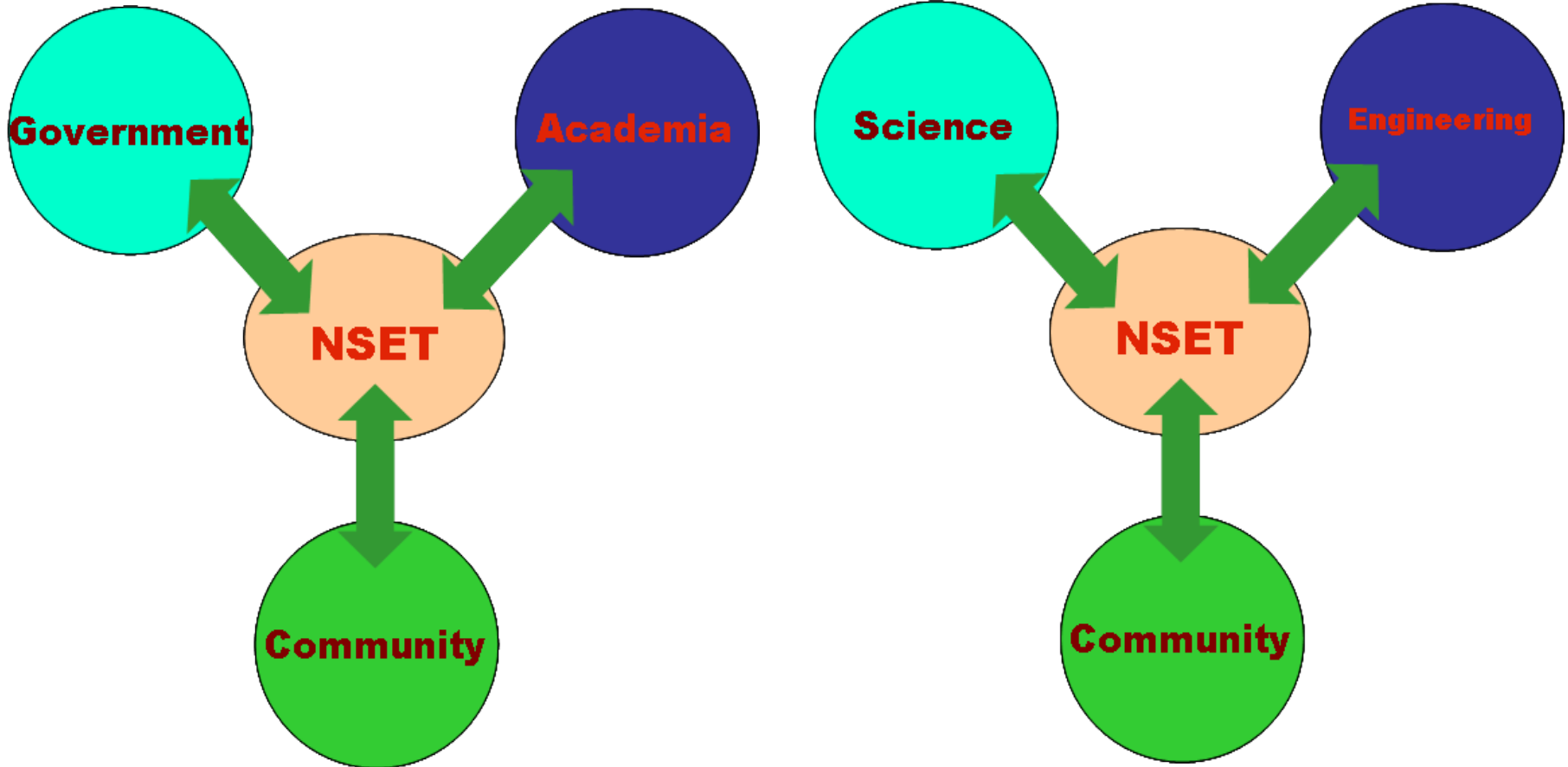
**NATIONAL SOCIETY FOR EARTHQUAKE
TECHNOLOGY-NEPAL (NSET)**

December 1, 2016 Sanya, China

Making a Case for NSET to serve as ICoE/IRDR

- Objective: SFDRR implementation by wider use of Science & Technology for DRR decision-making in Nepal in close partnership with IRDR
- NSET is well-placed: it's a felt need for us
- **IRDR / ISCU concept fits well and invigorates** NSET efforts, and our stated Mission, Vision, hence our Commitments

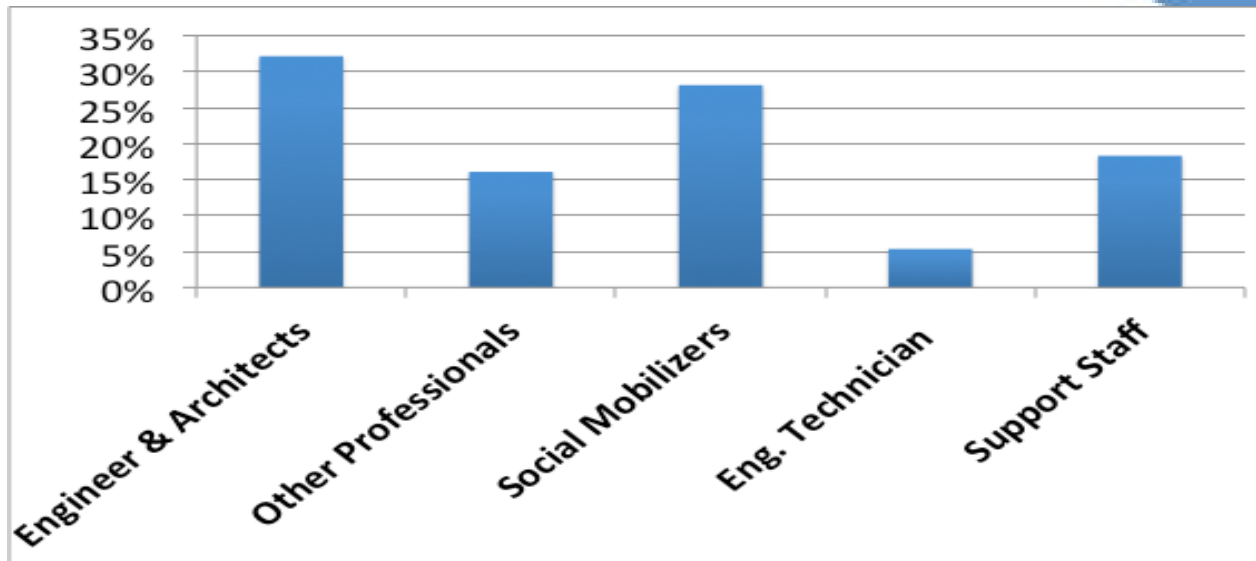
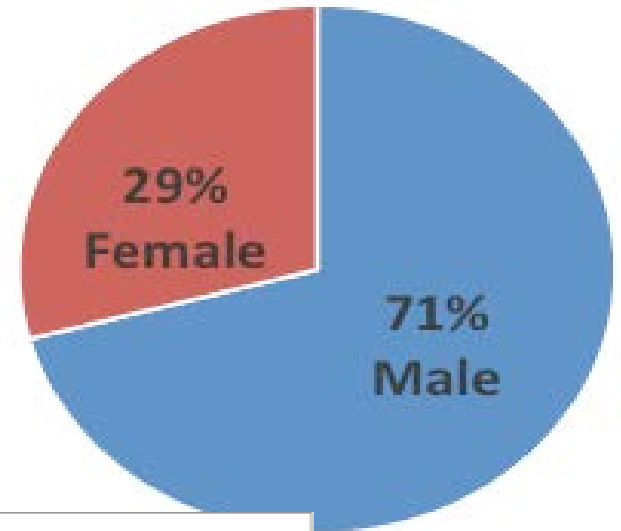
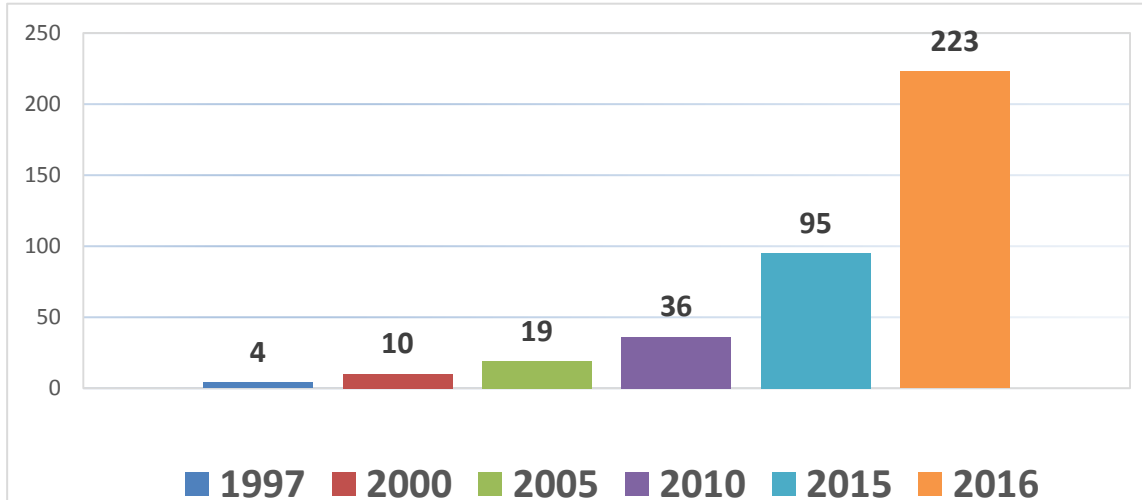
Facilitate Linkages



NSET

- A NGO, focused in **ERM** and doing **Multi-hazard Disaster Risk Management**
- **Vision:** Earthquake Safe Community 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 **risk**
- **SOs:**
 1. Knowledge facilitation, sharing data & information helping mobilize resources
 2. Advocate for favorable policies, legal mechanisms for ERR and EP
 3. Build a strong and well-resourced institution to become the National Focal Point for ERM

NSET Staff



Funding and Finances

- 3 sources: a) Grants, b) Cooperative Agreements, & c) Consultancies
- Work experience with National agencies, SAARC, IFIs (WB, ADB), Bi-lateral agencies (USAID, JICA, DFID, AUSAID, UN orgs, EU, etc in more than 15 countries of Asia
- Financial management with a well-defined Financial & Procurement Policy with Recipient-contracted audits, external audits, and GON audits protocols

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.

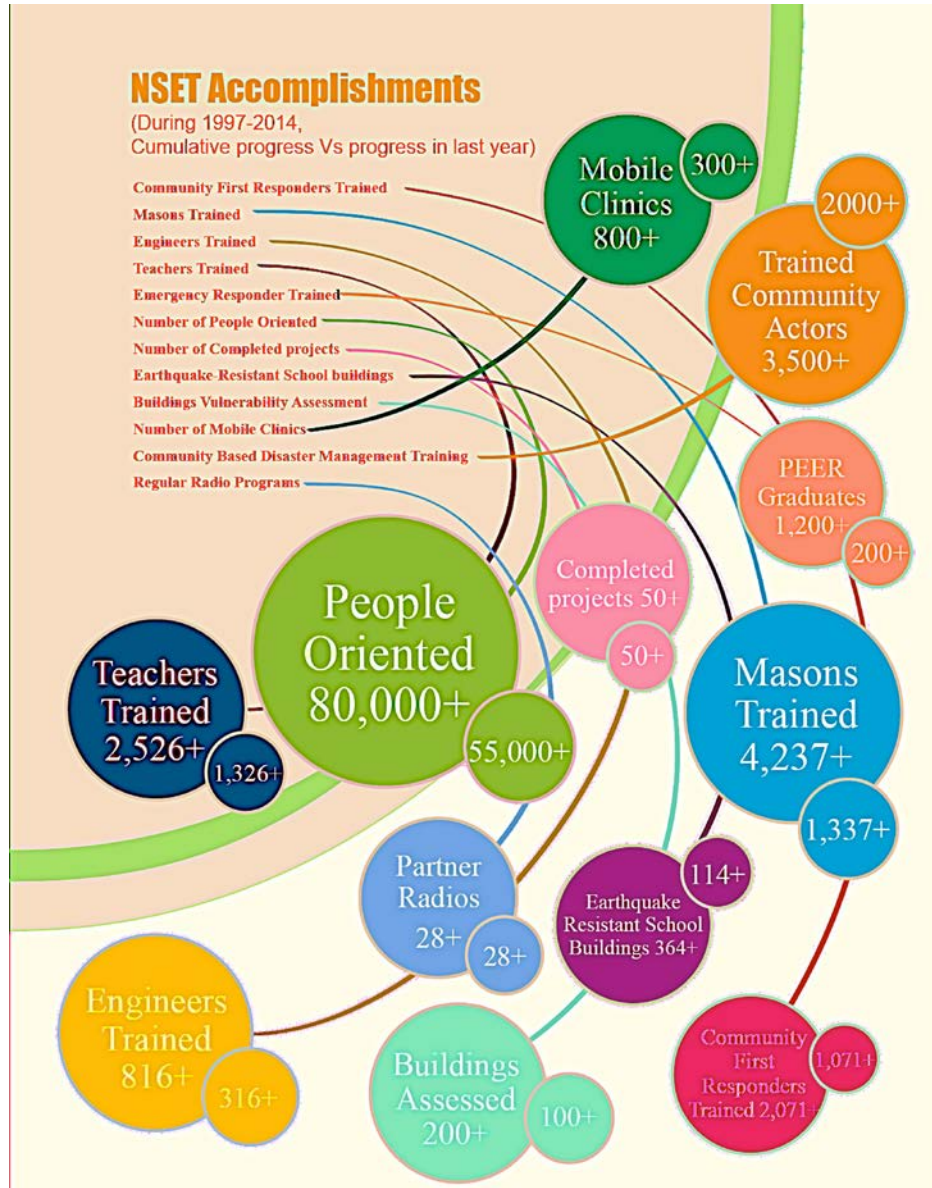
Ongoing Major Collaborative Researches

- 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

Research and Work : Not a Choice but the Reason for Our Existence



IRDR & NSET: Common realization of Needs in:

- **Use of Science and Technology** (including practical researches) in enhancing **policies** as well as DRR implementation
 - *Gorkha Earthquake reconstruction of >600k houses*
- Huge need to **guide through policies**
 - TIK in houses construction streamlined to modern science and engineering e.g. *stone masonry construction in the Himalayas*
 - Enhanced national & local capacities in GO, NGO & Academia to melt and strengthen into the momentum of **IDNDR-HFA-SFDRR**
- IRDR (also NSET) – reflect the need in their mission, vision and SO
 - Promote **practical researches** locally
 - NSET seeks: **intellectual support and leadership from IRDR**
 - NSET seeks to **contribute to IRDR's principles, study domain, support SC and IPO as a part of global network**

NSET meets criteria as IRDR ICoE

- **>23-years** of track record & commitments in **trans-disciplinary research on DRM**, demonstrated results in **innovative use of science and technology** in earthquake awareness and earthquake vulnerability reduction of **schools, hospitals, and institutions**
- **integrating sciences** (social, natural, engineering) for enhancing policies and legal environment and also in actual **risk reduction (NSDRM)**
- **Promotion of knowledge** and experience reached through national, regional and international networking in various forms
- **Multi-country research programs** (CASIFICA, ADRRN, PEER, EERI, GEM, MOUs with large number of Organizations etc), **Earthquake without Frontiers** : risk perception, integration of physical and social sciences
- NSET has a fully equipped office building in Bhainsepati, Lalitpur. It can provide adequate space and supporting services for the use of the ICoE IRDR.

Committed to work with IPO/IRDR

- Conduct **integrated research** on disaster risk at local, regional, and global scale, meeting with **objectives of 4 IRDR Working Groups**;
- Provide specifically-designed technical cooperation on **DRR/DRM for policy and decision-making**;
- Provide **technical support** for formulating regional, national or local DRR programs based on integrated research;
- **Promote IRDR research** by conducting regular trainings, workshops or other activities for disaster managers, decision-makers, and junior researchers.
- **Facilitate and participate** in IRDR events;
- Contribute to **disaster risk researchers' network** or platform

Implementation Plan

2016	Application & Initial informal National Consultations	We have homed into it!
Nov-Dec	NSET Application Approved, NSET Board endorses	
	National Committee formation	
	National Consultative Meeting	
	1st Cut of Draft Policy	
Jan 2017	Presentation of Draft Nepal Policy to Taipei Meeting	
	Seek further directions	
	Streamline as per Taipei meeting directives and reorient work plan	

Sorry, I still have to learn the details to give more elaborate plan

Funding

- Costs for regular local works (meetings, workshops etc) – NSET
- Expenses outside of Nepal – difficult for NSET
 - Nepal Government Regulations
 - NSET as a Not-for-profit Organization > no left over funds
- NSET commits to raise funds individually or jointly

CLOSURE

- Thank you ISCU, IPO/IRDR, and DBAR for this opportunity to be a part of this Colossal Wisdom
- I bring the commitments of ~ 300 NSET and >>300k NSET(+) in Nepal and abroad

I Greet you Personally!