

Proposed New IRDR Project

Disaster Risk Reduction and Loss Mitigation (RILM)

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Presentation Outline

- Background and Justification
- Proposed IRDR Project Objectives
- > Examples of Needed Research
- >The Way Forward



Background & Justification (1/4)

IRDR Mission

To develop trans-disciplinary, multi-sectorial alliances for in-depth, practical disaster risk reduction research studies and the implementation of effective evidence-based disaster risk policies and practices

[IRDR Strategic Plan, 2013-2017]



Background & Justification (2/4)

- ➤ Main IRDR research objectives
 - Objective 1 Characterization of hazards, vulnerability, and risk
 - Objective 2 Understanding decision-making in complex and changing risk contexts
 - ➤ Objective 3 Reducing risk and curbing losses through knowledge-based actions



Background & Justification (3/4)

- ➤ IRDR SC established 4 projects to support IRDR mission and IRDR research objectives.
 - Assessment of Integrated Research on Disaster Risk (AIRDR)
 - ➤ Disaster Loss Data (DATA)
 - ➤ Forensic Investigations of Disasters (FORIN)
 - Risk Interpretation and Action (RIA)



Background & Justification (4/4)

- These IRDR projects, except perhaps for RIA, address mainly on the post-disaster events and they focus primarily on two of the three IRDR research objectives, i.e., Objectives 1 and 2.
- ➤ However, a much-needed research on reducing risk and curbing losses has not been fully addressed by the existing projects



Objective of the Proposed Project

> This proposed IRDR project aims to undertake multi-disciplinary and integrated research to identify and develop practical and effective approaches to reduce risk and mitigate disaster losses through engineering and socio-economic sciences.



Examples of Needed Research (1/4)

- Develop new knowledge for reducing vulnerabilities and disaster risk
- Develop guidelines and practical approaches to reduce disaster losses
- Case studies of recent disasters
- >Other research activities



Examples of Needed Research (2/4)

- Develop new knowledge for reducing vulnerabilities and disaster risk
 - ➤ Identify vulnerabilities, hazards, and decision-making process by integrating the outputs of the existing IRDR projects
 - Develop community-based framework for preparation of hazard maps and land-use policies to prevent or discourage the occupation of high-hazard areas
 - Develop improved forecasting and early-warning capabilities to provide timely and effective information
 - > Other research activities

Examples of Needed Research (3/4)

- Develop guidelines and practical approaches to reduce disaster losses
 - Promote the use of best engineering standards and codes for infrastructure through international cooperation
 - ➤ Develop guidelines for disaster preparedness, evaluation, and emergency response plans
 - ➤ Study the use of insurance and other financial mechanisms to reduce disaster losses
 - ➤ Other research activities



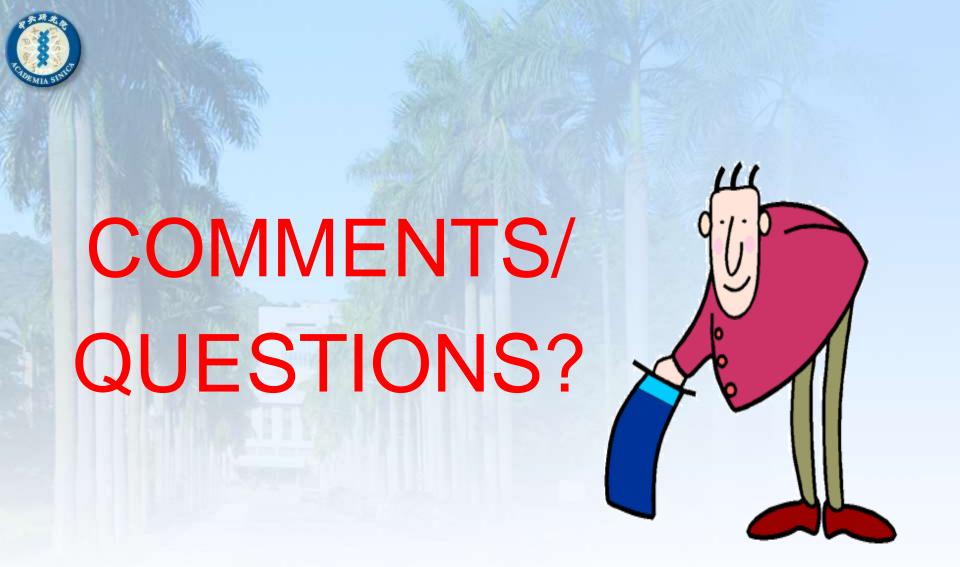
Examples of Needed Research (4/4)

- Case studies of recent disasters
 - Describe specific real-life examples of assessing vulnerability and the analysis of effective (and ineffective) approaches to reduce disaster losses.
- > Other research activities



The Way Forward

- ➤ Based on this preliminary proposal, IRDR-ICoE-Taipei hopes SC can organize a Task Force to develop a more comprehensive, multi-disciplinary, and integrated IRDR project to fulfill the goal of IRDR -- disaster risk reduction and loss mitigation
- ➤ ICoE-Taipei is committed to conduct an Advanced Institute on disaster risk reduction and will collaborate with IRDR-Japan on this important subject in 2014



19