

Thematic Session

(Submitted 13 August, 2004)

(updated as of 2 December 2004)

Name of requesting organization:	Ministry of Education, Culture, Sports, Science and Technology, Japan (MEXT)
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Title of the Session

Implementation Strategies for Application of Research and Development on Disaster Reduction

Thematic cluster to which this session will contribute:

Please tick appropriate box with X

<input type="checkbox"/>	Governance: Institutional and policy frameworks for risk reduction
<input type="checkbox"/>	Risk identification, assessment monitoring and early warning
<input checked="" type="checkbox"/>	Knowledge management and education
<input type="checkbox"/>	Reducing the underlying risk
<input type="checkbox"/>	Preparedness for effective response

Session Descriptions

There is an urgent need to focus on how to effectively bring the results of R&D on disaster reduction into practice. For this, certain strategies and involvement are essential, which are termed as “Implementation Strategy” and “Stakeholder Involvement”. The proposed session will discuss **how to incorporate** these concepts in R&D activities, **innovation of research communities**, and relevant **science policy issues**. On this basis strategic orientations will be clarified for **effective international collaboration** in disaster reduction R&D.

Important and relevant lessons from the experiences

- (1) A huge gap between the high technological standard and level of social safety should be recognized.
- (2) An effective mechanism is needed for application of research outputs to practice.
- (3) The research & development programs should incorporate “implementation strategies” within themselves. Innovation of researchers and research communities is needed.
- (4) Science policy should be discussed from the viewpoint of implementation strategies.
- (5) The above issue is a common agenda for both developed and developing countries. Therefore, it should be one of the key factors in the international collaboration.

Implementation Strategies for R&D on Disaster Reduction

- (1) Researchers' originality remains essential element.
- (2) Problem identification and methodology development should involve direct communication with stakeholders and the end-users.
- (3) It is essential that stakeholders will have recognition and ownership toward the research outputs that they have participated in the process of developments.
- (4) Regional characteristic should be properly incorporated, so that the technologies suit the local context in terms of available materials, cost and workmanship.
- (5) Proper quality control of R&D should be maintained, so that most advanced research methodologies and processes are mobilized to generate high-quality products, and meet the actual demands of the region.
- (6) Implementation strategies should be discussed substantially in the planning stage of R&D projects.

(Agenda-1) : Highlight best practice and roadmap to future collaboration

- * Highlight pertinent activities.
- * Identify common recognition and specific challenges.
- * Develop a roadmap on proposed actions and international collaboration.

(Agenda-2) : List useful and implementation-oriented disaster reduction technologies

- * Proposal for compilation of R&D outputs incorporating implementation strategies.
- * Japanese list will be presented as a typical contribution (MEXT Working Group).
- * Discussion for developing a World List.

Session structure (tentative) (120min)

- * Welcome Address from Chair: Tsuneo Katayama, NIED (5min)
- * Message to the Session: Walter Erdelen, UNESCO (5min)
- * Best Practice Presentations: (30 min)
 - + Hiroyuki Kameda, NIED (EqTAP PI)
 - + Haresh Shah, WSSI
 - + Joanne Linnerooth-Bayer, IIASA
- * Disaster Reduction Technology List on I.S. (15min)
 - + Takayuki Nakamura, MEXT GoJ
 - + Hiroshi Arai EDM-NIED
- * Panel Discussion: (65 min)
 - Moderator:** Hiroyuki Kameda, NIED
 - Rapporteur:** Rajib Shaw, Kyoto University
 - Panelists:** (following & speakers above)
 - + Wang Zhenyao, Ministry of Civil Affairs, China
 - + Dave Zervaas, CRID
 - + Lourdes C. Fernando, Mayor of Marikina City, Philippines

Outcomes of the Session

- 1) Guidelines for implementation oriented R&D policy and planning;
- 2) Catalogue of knowledge and technologies for disaster reduction;
- 3) Proposal for development of a strategic roadmap by combining contributions from member countries, and
- 4) Proposal for Inter-governmental policy meetings