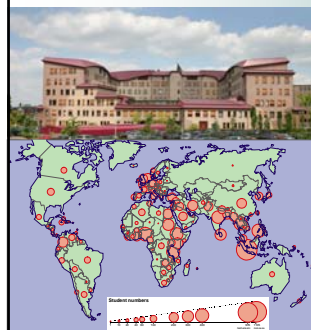


Capacity Building in Disaster Geo-Information Management in Developing Countries



ITC : International Institute for Geo-Information Science and Earth Observation



- ITC provides international postgraduate education, research and project services in the field of geo-information science and earth observation using remote sensing and GIS.
- The aim of ITC's activities is the international exchange of knowledge, focusing on capacity building and institutional development in developing countries and emerging economies.
- ITC will be part of the University of Twente as from 1/01/2010.
- 240 staff, 18 professors, 120 PhD



United Nations University- ITC School for Disaster Geo-Information Management

- Training, education and curriculum development;
 - University Networks
 - Joint educational programmes
 - MSc research profiles at ITC
 - Short courses and workshops
 - Distance education courses
 - Fellowship opportunities
- Knowledge development and research collaboration;
 - Research programmes
 - PhD research (± 20 PhDs)
 - Visiting scientists
- Advisory services
 - International research project (EU FP6, FP7)
 - Bilateral research projects (India, China, Pakistan)
 - Contract education (e.g. China, Vietnam, SE Asia)
 - Institutional development (e.g. Georgia, Vietnam, ADB)
 - Methodology development (e.g. CAPRA Worldbank)



Hyogo Framework for Action

Priorities for action 2005 - 2015:

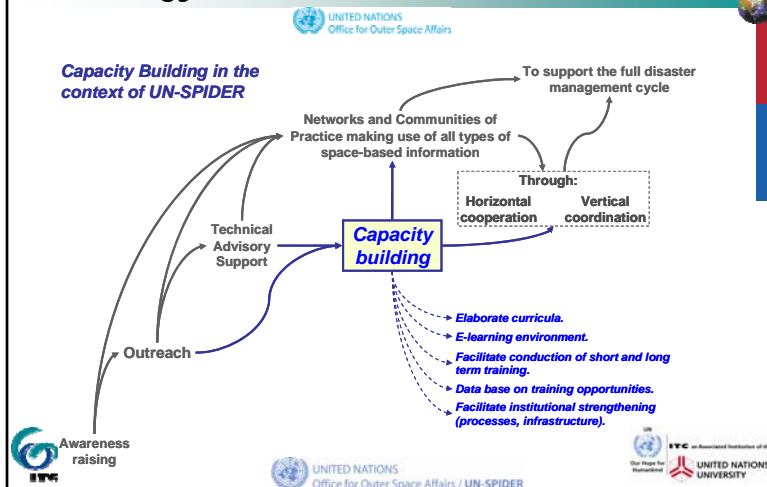
1. Ensure that disaster risk reduction is a national and a local priority with a strong institutional basis for implementation
2. Identify, assess and monitor **disaster risks** and enhance early warning
3. Use knowledge, innovation and **education** to build a culture of safety and resilience at all levels
4. Reduce the underlying risk factors
5. Strengthen disaster preparedness for effective response at all levels

For more information:

<http://www.unisdr.org/eng/hfa/hfa.htm>



Capacity building/ UN SPIDER strategy



Capacity building in this framework

- The process to facilitate the strengthening of the capacity of individuals and institutions related to the use of **spatial information to prevent, to mitigate, and to react** effectively to the challenges posed by natural hazards and humanitarian crises.



Objectives

- Assessment of capacity needs of organizations related to Disaster Risk Management (DRM);
- Define optimal modes for capacity building: University networks, short courses, distance education, graduate programs;
- Improved collaboration of international organizations involved in capacity building for disaster geoinformation management;
- Linking research and training in capacity building
- Exploring better links to more technically oriented DRM programs (e.g. International Charter, GEOSS), and discussing emerging opportunities with new technical developments.
- Build on the UN-SPIDER Workshop *Building Capacities to Reduce Disasters*, held in June 2009, by moving beyond the SPIDER-focus of space-based disaster response.



Sessions

- Session 2: The role of geoinformation for disaster risk assessment in developing countries**
 - Presentations of representatives of international organizations with a DRM mandate.
- Session 3: Requirements for capacity building in GI4DGIM**
 - Presentations of representatives of international organizations with a DRM mandate.



Sessions

- Session 4: **Paralell break-out sessions:**
- What are existing capacity gaps in the use of GI for DRM? Is it a problem of funding, or unawareness of CB possibilities?
- How effectively is the variability in stakeholder needs reflected in existing CB measures? Does CB address all aspects of DRM?



Sessions

- Session 5: **International initiatives for GI & capacity building in DRR**
 - Presentations of representatives of international programmes on the use of EO and spatial information in environmental applications, including DRM.
- Session 6: **Capacity building: different modes of implementation**
 - Presentations of representatives of organizations involved in capacity building, with examples of different modalities.



Sessions

- Session 7: **Session 7: Regional Gi4DRM capacity & needs, and role of regional networks**
 - Presentations of representatives of University Networks involved in capacity building for DRM.



Sessions

- Session 8: **Paralell break-out sessions:**
- What are successful delivery modes for improving capacity building? What can be improved? Are we reaching all relevant stakeholders in CB?
- Are international university networks and knowledge centers succeeding in building lasting capacity, both within and outside the networks and centers?
- UN-SPIDER session: What can be the role of the UN-SPIDER capacity building group, and how can objectives best be achieved?



Sessions

- Session 9: United Nations University and capacity building for DRR
- Presentation of the UNU - ITC programmes on:
 - Disaster Geo-Information Management
 - Land Administration



Themes

- Conclusions and recommendations
 - How will spatial information management improve disaster risk management in developing countries?
 - What are the requirements for capacity building in this field?
 - What are successful delivery modes for improving capacity building: University networks, short courses, distance education, graduate programs?
 - What would be the role of national and regional knowledge centers in capacity development? And of international institutes like ITC?



Participants

Representatives of:

- International organizations dealing with DRR:
- International organizations dealing with the implementation of geoinformation for environmental applications
- international organizations dealing with capacity building (research/training) in DRR
- Representatives of user organizations
- Representatives of University Networks on Disaster Risk Management
- Representatives of Universities knowledge centers
- Representative of Netherlands NGO's and knowledge centers'
- ITC staff from different disciplines



Words of thanks:

- ITC directorate
- UN-SPIDER
- Norman Kerle
- Saskia Tempelman
- Anneke Nikijuluw
- Participants

