



The UN-SPIDER Knowledge Portal and its role in

capacity building

Juan Carlos Villagran de Leon, UN-SPIDER

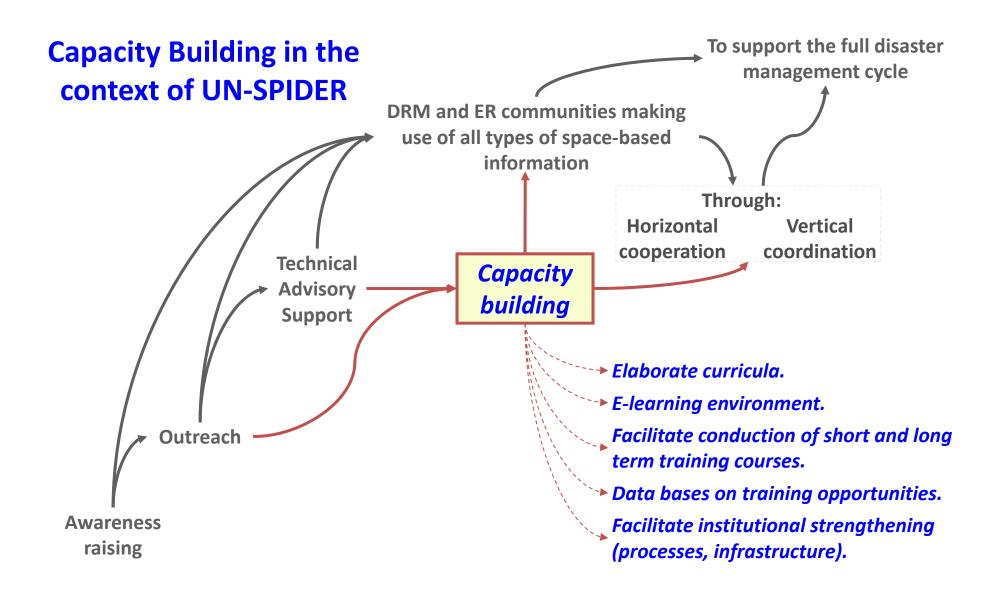
Fifth UN-SPIDER Workshop on Disaster Management and Space Technology 24 – 26 April 2012



To fulfil this mission, **UN-SPIDER** has been established on three pillars:

As a Bridge	to foster alliances between the space and the disaster-risk management and emergency response communities.
As a Gateway	to promote access to and the dissemination of information, including case histories and best practices.
As a Facilitator	of Capacity Building to increase the ability of organizations and individuals to effectively use spacebased services for disaster risk management, preparedness, response, and recovery.





Capacity Building

The Capacity-Building Strategy can be stated as follows:

To increase the capacity of networks of practitioners from the disaster-risk management and emergency response communities to use horizontal cooperation and vertical coordination as a means to access and to use all types of spacebased information to support activities within the full disaster management cycle.



Four conditions to posses the capacity to access and use spacebased information:

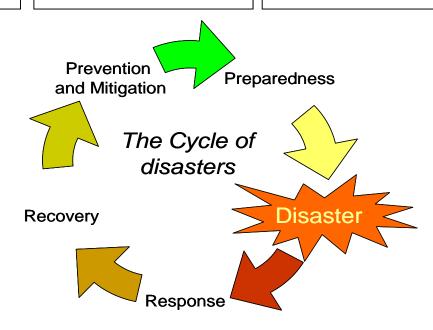
Space-based data is available and accessible.

Institutions recognize the relevance of using space-based information to make decisions.

Staff in institutions posses the knowledge and the skills to access and process this information.

Facilities, hardware and software to acquire, process, and use this information are available and operational.

And, we need to consider the full disaster management cycle





Capacity building in the framework of UN-SPIDER is suggested as:

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

Capacity building would then include three types of activities:

- Providing policy-relevant advice to institutions and governments regarding the use of space-based (spatial) information to support the full disaster management cycle.
- Facilitating training of individuals on access to and use of such data.
- Facilitating access to infrastructure, hardware, and software, for spacebased information.



Examples of direct training activities

	Definition	Organisation & Frequency	Targeted Participants	
Training Course	Provide in-depth training on a technical subject	Training institution	Technical staff Max. 30	
		Recurring, 3days to 3 weeks		
Summer School	Professional and/or academic training for a small group with different backgrounds	RSO, NFP, Partner	Participants with different backgrounds	
		Tbd, 1 or 2 weeks	Max. 40	
Seminar	Small group for intense discussion on a topic.	by UN-SPIDER	Experts, usually similar group for a series of seminars Max. 25	
		when needed duration flexible		
Workshop - Exercise	Small group for intense discussion on a topic.	UN-SPIDER with partners	Technical staff from different backgrounds in selected cases, Max. 30	



Approach	Target	Range		
		Short	Medium	Long
Disaster-risk reduction	Individuals Institutions Infrastructure UN-SPIDER	Strengthening knowledge / skills Institutional strengthening	Strengthening knowledge / skills Institutional strengthening Enhancing capacities of communities	Institutional strengthening Facilitating horizontal cooperation
Emergency response	Individuals Institutions Infrastructure UN-SPIDER		of practice	



Activities in 2011:

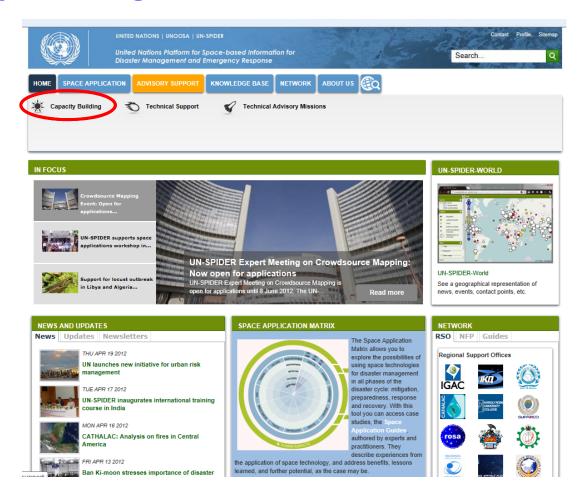
- Conduction of Regional Training courses in India, Burkina Faso and Mexico.
- Completion of Curriculum on Remote Sensing for Emergency Response.
- Databases of training opportunities updated every 3 – 4 months.





The role of the UN-SPIDER Knowledge Portal in Capacity Building efforts

- Hosting the 3
 databases on training
 opportunities.
- Hosting the curricula and content material for training courses.
- Hosting relevant documents (for example Cap. Bldg Strategy, etc)





Databases on Training Opportunities

- Short-term webbased courses.
- Short-term presencial courses.
- Academic programmes leading to degrees.

Contents:

- Title
- Duration
- Dates, registration deadline
- Language
- Location
- Organizers and Co-organizers
- Certificate (yes / no)
- Topics
- Target Audience
- Requirements
- Tuition fee / support
- Web Link
- Additional information



Curricula

 Remote Sensing for Emergency Response.

Completed

Characteristics:

Organized in modules, each module targeting a different type of hazard

 Remote Sensing for Risk Management.

Foreseen

Each module structured in terms of lessons, including learning objectives, suggested content material, exercises and evaluations.

• Satellite Telecommunications

Foreseen

Reviewed by members of the UN-SPIDER Expert Group on Capacity Building

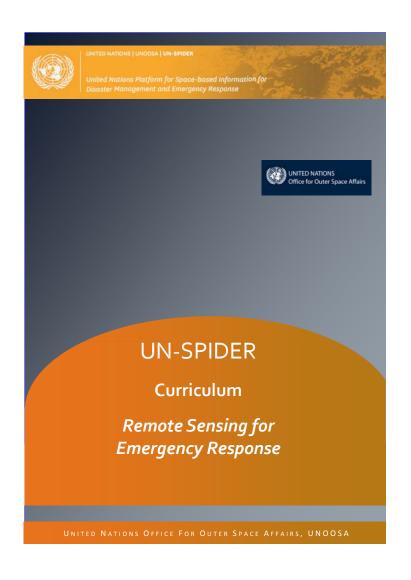
 GNSS for risk management and emergency response

Foreseen

Curricula

Remote Sensing for Emergency Response.

- Floods
- Droughts
- Earthquakes
- Tsunamis
- Landslides
- Volcanic Eruptions





Next Steps

- Elaborating the remaining curricula;
- Designing the learning environment within the UN-SPIDER Knowledge Portal;
- Incorportating curricula and content material into the learning environment;
- Promoting the use of this content by the network of RSOs and RCSSTEs (UNOOSA); and other Centres of Excellence as partners of UN-SPIDER.

UN-SPIDER CAPACITY BUILDING STRATEGY

	Short term goals	Medium term goals	Long term goals
RSOs NFPs	Promoting the role of NFPs in identifying candidates, assisting building capacities, networking	Enhancing g in RSOs	
INSTITUTIONS	Strengthening institutional (conduction of tasks) Strengthening institutional (networking, sharing data,	I capacities Supporting new I arrangements Communities of	
INFRASTRUCTURE	Facilitate acquisition and i infrastructure (facilities, H	ardware, software, etc)	information to support the full disaster management
INDIVIDUALS	Increasing knowledge Improving Skills	existing communities of practice	cycle
BLENDED LEARNING APPROACH	Wiedring States and Lauring of the state of	Self & C	
PARTNERS BOOK NO.	Knowledge Portal Regional Centres for Space Science and Technology Education Centres of Excellence (ITC, AIT, Z-GIS, etc) Institutions in more developed nations	ISDR, GEO, Relief Web, OCHA, etc	



UNITED NATIONS | UNOOSA | UN-SPIDER

United Nations Platform for Space-based Information for Disaster Management and Emergency Response

Thanks for your attention

