



UN-SPIDER

Facilitating the use of space-based information through Capacity Building.

ITC Executive Seminar "Capacity Building in Disaster Geo-Information Management in Developing Countries" - 23-25 Sept.



UN-SPIDER

The United Nations General Assembly established in December, 2006, the "United Nations Platform for Space-based Information for Disaster Management and Emergency Response (UN-SPIDER)" as a programme within the United Nations to provide universal access to all types of space-based information and services relevant to disaster management. (A/RES/61/110)



UN-SPIDER

Mission Statement

"Ensure that all countries and international and regional organisations have access to and develop the capacity to use all types of space-based Information to support the full disaster management cycle"

United Nations Platform for Space-based Information for Disaster Management and Emergency Response (UN-SPIDER)



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

As a Bridge	to foster alliances between the space and the disaster management communities.
As a Gateway	to promote the 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 space-based services for disaster risk management, preparedness, response, and recovery.

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UN-SPIDER TEAM

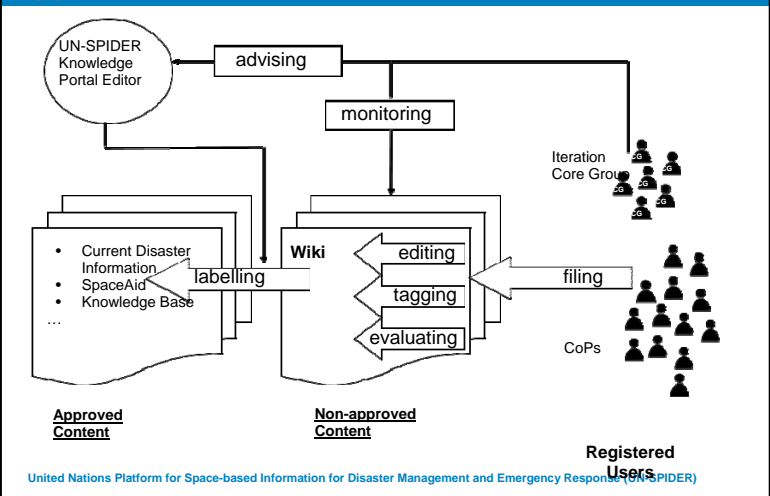


Knowledge Portal

UN-SPIDER is developing the Knowledge Portal



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Three networks...

UN-SPIDER will conduct its activities with the support of three networks:

- A network of **National Focal Points**.
- A network of **Regional Support Offices** set up by governments of countries to contribute to this programme.
- A networks of **Partners** spanning the full disaster management cycle.



Technical Advisory Support

UN-SPIDER will provide technical advisory support to countries through:

- Technical Advisory Missions.
- Virtual support through the Knowledge Portal.
- Capacity-building efforts.



Technical Advisory Support

Technical Advisory Missions:

Conducted: Burkina Faso (2008), Namibia (2009), Togo (2009).

In the pipeline: Ecuador, Dominican Republic, Maldives, Fiji, Uganda, and Guatemala.



Communities of Practice

UN-SPIDER will promote the establishment of CoPs:

- Knowledge transfer by social learning in a virtual community
- Complementary to existing CoPs in the GEO/GEOSS context and those linked by ReliefWeb, by covering the cross-section of space technology and disaster management
- Knowledge Portal providing the ICT platform (discussion board, wiki, thematic guides etc.)



Communities of Practice

Examples:

- Community of Practice on the use of space-based information and services for disaster medicine.
- SPIDER Global Thematic Partnership, in the framework of ISDR.



Emergency Response

UN-SPIDER will facilitate access to space-based information through:

- The establishment of SpaceAid within UN-SPIDER.
- The activation of the *International CHARTER on Space and Major Disasters* on behalf of the United Nations organizations.
- The activation of similar efforts such as Sentinel Asia, SERVIR, ITHACA, etc. in those cases where the CHARTER decides not to activate itself.



Capacity Building

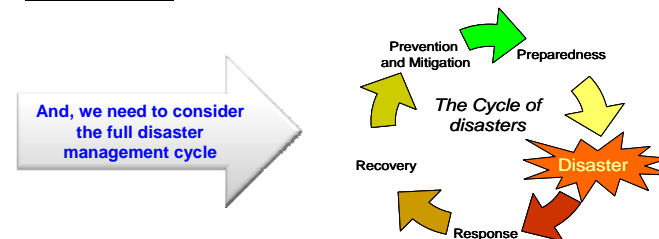
The Capacity-Building Strategy can be stated as follows:

To increase the capacity of **Networks of practitioners from the disaster management and space communities** to use horizontal cooperation and vertical coordination as a means **to access and to use all types of space-based information** to support the full disaster management cycle.



Four conditions to possess the capacity to access and use space-based information :

Space-based data is available and accessible.	Institutions recognize the relevance of using space-based information to make decisions.	Staff in institutions possess 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.
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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 four types of activities:

- Facilitating access to space-based data and services.
- 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, and services for space-based applications.



Training, in the context of UN-SPIDER, may be defined as:

A process to facilitate the **sharing of knowledge and skills** with the overall objective to continuously improve the capacity of individuals 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.
(UN-SPIDER Salzburg Expert Meeting).



Basic Guidelines:

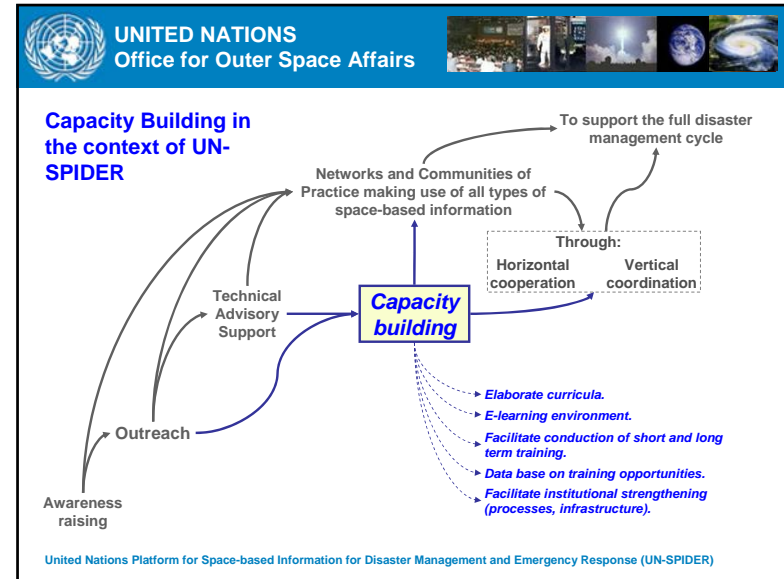
- Recognize existing capacities in developing countries.
- Build the Capacity Building segment with the support of an Expert Group on.
- Conduct capacity-building activities through RCSSTE and, Centres of Excellence and other national or regional training centres.
- Coordinate efforts with the network of RSOs and with the network of NFPs
- Coordinate efforts with the International Strategy for Disaster Reduction (ISDR), and with UN and other international agencies.
- Use a blended-learning approach based on e-learning and traditional training/learning approaches.
- Take advantage of training activities worldwide conducted by a variety of national, regional, and international agencies, through the set-up and dissemination of a database of training opportunities.



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

UNITED NATIONS Office for Outer Space Affairs

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 of practice	Institutional strengthening Facilitating horizontal cooperation
Emergency response	Individuals Institutions Infrastructure UN-SPIDER			



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Outputs:	Outcomes:
Curricula elaborated.	Curricula
Dastabase of training opportunities elaborated.	Establishment of Cooperation Agreements with RCSSTE and other Centres of Excelllence.
E-learning environment established.	Launch of E-learning component within the KP.
Mobilization of practitioners to training events.	Practitioners take advantage of training opportunities offered by UN-SPIDER and by partners.
	Establishment of programme to strengthen institutional capacities.
	CoPs strengthened through Capacity Building efforts.

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- UNITED NATIONS Office for Outer Space Affairs**
- ### Activities in 2009:
- Capacity Building Strategy and Annual Plan of Action elaborated.
 - Support Spring School in Argentina organized by CRETEALC & CONAE.
 - Database of training opportunities in excel elaborated.
 - Expert Group established during Vienna Workshop.
- ### In addition:
- Z-GIS is elaborating a concept for an e-spider programme.
- United Nations Platform for Space-based Information for Disaster Management and Emergency Response (UN-SPIDER)



2010: Foreseen

- Annual Plan of Action elaborated.
- Support training activities conducted by RCSSTEs and other Centres of Excellence.
- Maintain the database of training opportunities.
- Elaborate the curricula with support of the Expert Group.
- Begin the elaboration of elements of the E-learning environment in the Knowledge Portal.



Thanks for your attention