Applications for Disaster Risk Management and Emergency Response in Africa
Addis Ababa, Ethiopia, 6 – 9 July 2010.
UNOOSA

Office of the Director

UN-SPIDER

CSRS
Committee Services and Research Section

SAS
Space Applications Section
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”
Space Technologies for Disaster Risk Management

**Satellite communications** help warn people who are at risk, especially in remote areas. They help connect a disaster zone to the outside world. Also support telemedicine networks.

**Images from remote sensing satellites** help assess the damage caused by disasters like earthquakes, volcano eruptions, oil spills and floods.

**Global navigation satellite systems** enable us to obtain positional information on events that have to be mapped.

Photo Credit: UNHCR
Activities

Outreach and Capacity Building
- 1. Awareness Raising
- 2. Outreach Activities
- 3. Capacity Building

Horizontal Cooperation
- 4. Communities of Practice
- 5. Platform for Ensuring Cooperation
- 6. Knowledge Management and Transfer
- 7. Knowledge Portal

Technical Advisory Support
- 8. Country Profiles
- 9. Support at the National Level
United Nations Platform for Space-based Information for Disaster Management and Emergency Response (UN-SPIDER)

TECHNICAL ADVISORY SUPPORT

Knowledge Portal
The UN-SPIDER Knowledge Portal is a web-based tool for information, communication and process support. Users can find and share case studies, guides and products through the portal.

Fostering Cooperation
UN-SPIDER bridges the gap between the space and disaster management communities. UN-SPIDER fosters alliances and creates forums where both communities can meet.

HORIZONTAL COOPERATION

OUTREACH AND CAPACITY BUILDING

Technical Advisory Support
UN-SPIDER provides support to countries in assessing national capacity and in evaluating disaster and risk reduction activities, policies and plans with regard to the use of space-based technologies.

Capacity Building
UN-SPIDER facilitates capacity building and institutional strengthening, including the development of curricula and an e-learning platform (e-SPIDER).

UN-SPIDER Activities

...and many more
Networks

• UN-SPIDER Team

• Network of Regional Support Offices (RSOs)

• National Focal Points
Network of Regional Support Offices
NFP – National Focal Points

- UN-SPIDER supports all countries through National Focal Points (NFP). A NFP is a national institution, nominated by the Government of the respective country, representing the disaster management and space application communities.

- Role: to work with UN-SPIDER staff to strengthen national disaster management planning and policies and implement specific national activities that incorporate space-based technology solutions in support of disaster management.

- Nominations received from: Algeria, Austria, Belarus, Belize, Bolivia, Bosnia & Herzegovina, Burundi, China, Egypt, El Salvador, Ethiopia, India, Iraq, Jordan, Kenya, Malawi, Malta, Mauritania, Mauritius, Morocco, Myanmar, New Zealand, Philippines, Qatar, Republic of Korea, Senegal, Singapore, Spain, Syria, Tanzania, Thailand, Trinidad and Tobago, Turkey, UAE, and Ukraine.
Knowledge Management

1 The Knowledge Portal.

2 Communities of Practice: The SPIDER Global Thematic Partnership and the SPIDER Thematic Partnership for Africa
The Knowledge Portal

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

1. Established within the framework of partnerships and networks designed by ISDR to thrust the Hyogo Framework for Action.

2. Focusing on supporting National Platforms for Disaster Reduction begin set up by ISDR worldwide.

3. Targeting the use of space-based information for disaster risk reduction.

4. As a vehicle to achieve results that could not be achieved by individual institutions or agencies.

5. Initial efforts conducted in Latin America and the Caribbean.
Outreach Activities

1. Communication and advocacy.

2. As a bridge to link the space and the disaster management communities.

3. To attract and involve practitioners and experts to activities UN-SPIDER is conducting.

4. As a gateway to provide Technical Advisory Support to countries.

5. To support the role of RSOs, NFPs, and partners, including space agencies, in outreach activities.
International and regional workshops and expert meetings organized in 2009:

• United Nations international UN-SPIDER workshop on building capacities to reduce disasters. Vienna, Austria, 2-4 June 2009.


• 3rd international UN-SPIDER workshop on disaster management and space technology: from concept to application. Bonn, Germany, 21 - 23 Oct. 2009.

• UN-SPIDER expert meeting on managing disasters using space-based technology in Central Asia, Bishkek, Kyrgyzstan, 26 Aug. 2009.
Other events to be supported in 2010:

(a) Second Hemispheric Encounter on Mechanisms and National Platforms for Disaster-Risk Management. Santa Marta, Colombia, April, 2010.

(b) Exhibition in October, 2010, to mark the International Day for Natural Disaster Reduction.

(c) Sixth Space Conference of the Americas, Mexico City, Mexico, Nov. 2010.

(d) Participation of UN-SPIDER staff in events organized by partner institutions.

(e) Supporting the mobilization of experts and practitioners to various regional and international events.
Technical Advisory Support

- Technical Advisory Missions to assess current capacities and needs in countries as a means for the countries to elaborate a Plan of Action to target those needs. Missions have been conducted to Burkina Faso, Namibia, and Togo in Africa. Other countries include Ecuador, Dominican Republic and Jamaica in the American Hemisphere; Fiji, Samoa, and Tonga in the Pacific, and Maldives in the Indian Ocean.

- Technical Advisory Support in case of disasters through the UN-SPIDER SpaceAid Framework and via activations of existing mechanisms such as the CHARTER, SENTINEL ASIA, and space agencies and partners.

- Projects in selected countries: Namibia and Caribbean Flood Pilot Projects with National Partners, NASA, CSA, UN-SPIDER, and other agencies
The SpaceAid Framework
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 required 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.**

And, we need to consider the full disaster management cycle:

- **Preparedness**
- **Prevention and Mitigation**
- **The Cycle of disasters**
- **Recovery**
- **Response**
- **Disaster**
UN-SPIDER at a glance

Networks and Communities of Practice making use of all types of space-based information

To support the full disaster management cycle

Through:
- Horizontal cooperation
- Vertical coordination

- Technical Advisory Support
- Capacity building
- Outreach
- Awareness raising
United Nations Office for Outer Space Affairs

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THANK-YOU