



UNITED NATIONS
Office for Outer Space Affairs

The UN-SPIDER Programme



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Space-based Information for Disaster Management and Emergency Response

“Ensure that all countries and international and regional organizations have access to and develop the capacity to use all types of space-based information to support the full disaster management cycle.”

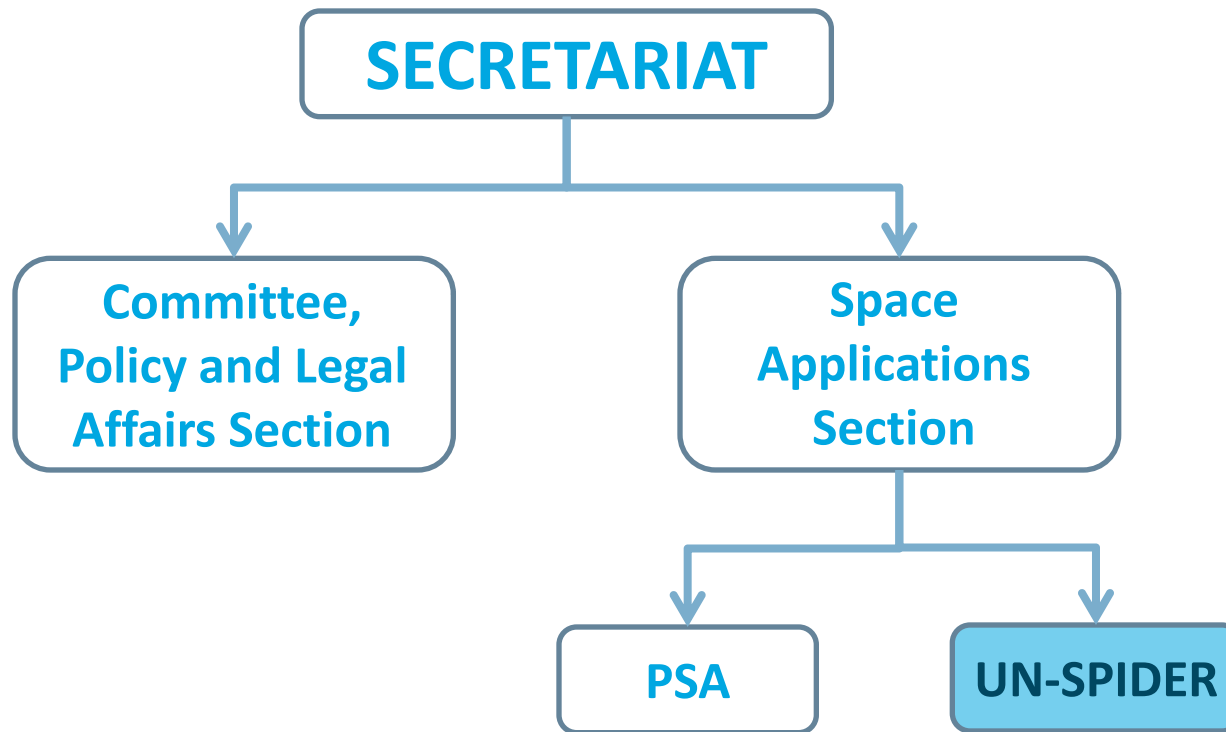
- Especially by being a gateway to space information for disaster management support;
- serving as a bridge to connect the disaster management and space communities; and
- being a facilitator of capacity-building and institutional strengthening (A/RES/61/110).





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The Office for Outer Space Affairs (UNOOSA)





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Office for Outer Space Affairs

The Office for Outer Space Affairs (UNOOSA)

ITS MISSION STATEMENT:

The core business of the Office is to promote international cooperation in the use of outer space to achieve development goals for the benefit of humankind.





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Questions about
„Space-based Information“
from the user perspective



What information exists?

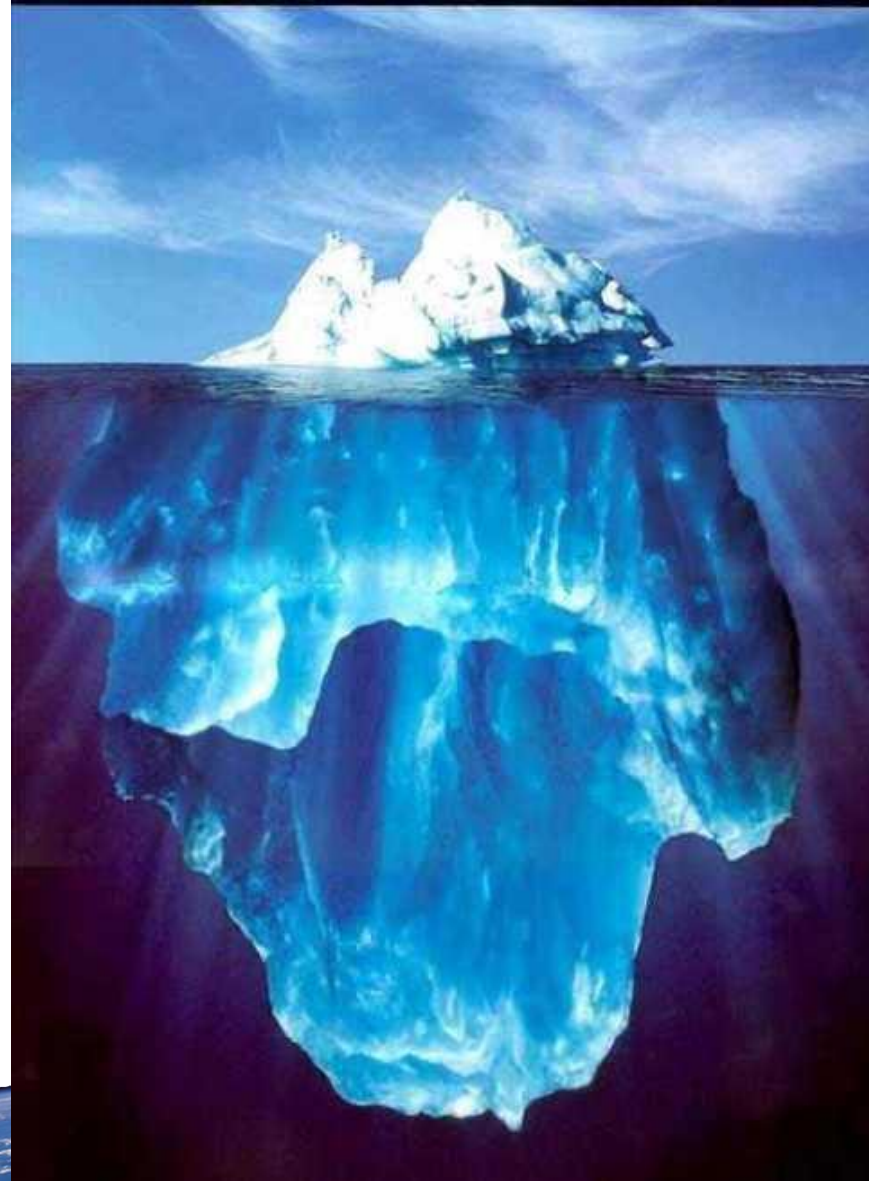
Where to find?

How to access?

What are the costs?

What is the timeliness?

What is the quality?





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Space Technologies for Disaster Risk Management and Emergency Response

Images from **earth observing satellites** help assess the damage caused by disasters and assess vulnerability to hazards.



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

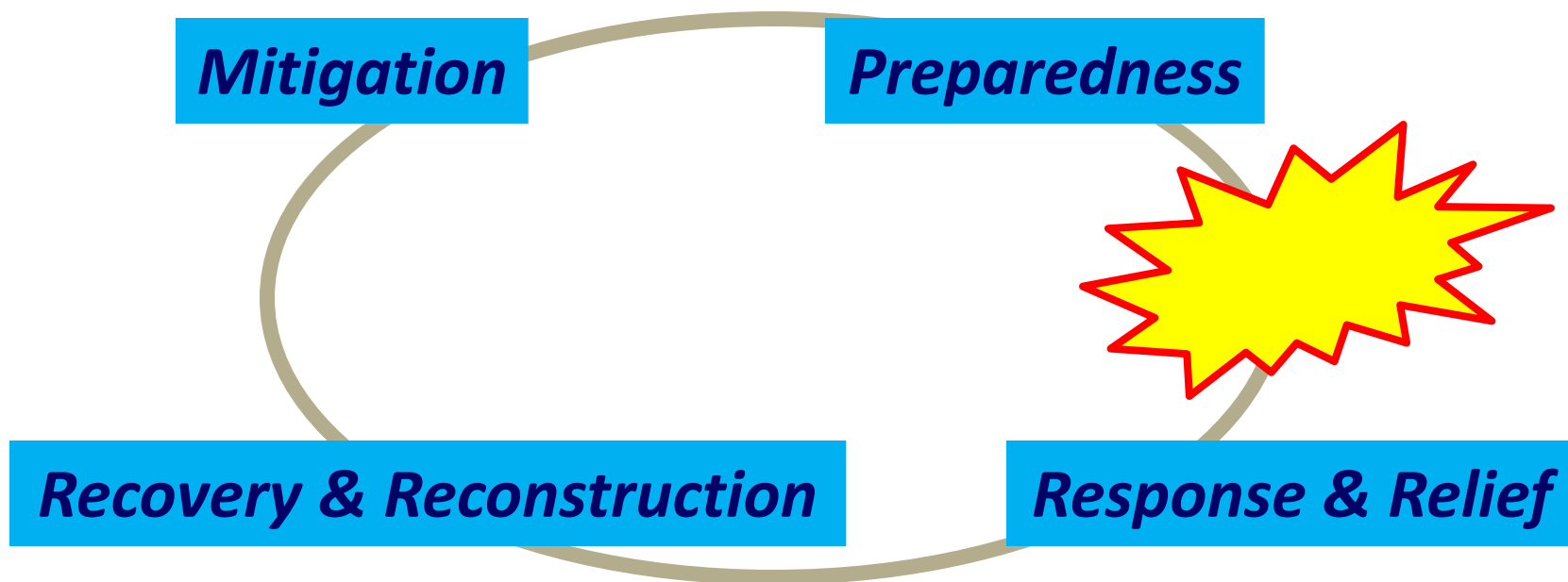
Global navigation satellite systems enable us to obtain positional information on events that have to be mapped.





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The Disaster Management Cycle

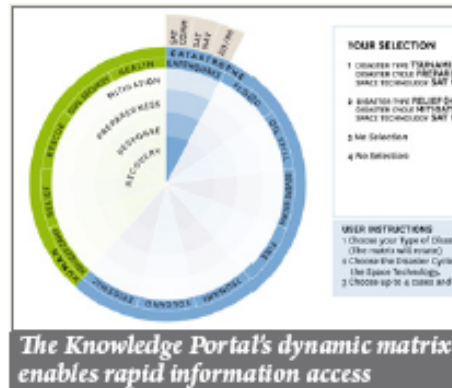


Activities

- Knowledge Management
- Technical Advisory Support
- Capacity Building
- Fostering Cooperation

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.**



UN-SPIDER Activities

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).



...and many more



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The UN-SPIDER Programme



**UN-SPIDER in
Vienna**



**UN-SPIDER
Beijing Office**



**UN-SPIDER
Bonn Office**

UN-SPIDER Team

**Network of Regional
Support Offices
(RSOs, 16)**

**National Focal Points
(45)**





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Network of Regional Support Offices





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Knowledge Portal

A web portal for information, communication, and process support. A platform which supports knowledge management, capacity building, technical advisory support and support to emergency and humanitarian assistance. <http://www.un-spider.org>



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

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**Strong earthquake in
southwestern Guatemala
UN-...**



**International Conference on
Space and Climate...**



**Satellite imagery for floods
in northern Cameroon...**



UN-SPIDER-WORLD



UN-SPIDER-World

See a geographical representation of
news, events, contact points, etc.



Space Application Guides

Scientific and technical papers, best practices and case studies, etc.

News and Events from the space and the disaster/risk management community

Guides on technologies, institutions and organizational mechanisms

Links to data and information sources

Repository of freely available Earth observation data and products

- **Hazard-specific datasets**
- **Digital Elevation Models**
- **Land use and land cover maps**
- **Satellite data**
- **Search engines for geospatial data**

Recommended practices on the use of archived imagery

Lessons learned from drought in Iran, floods in Pakistan and earthquakes in Japan

Best practices on geo-information for disaster and risk management



Technical Advisory Support

- What **national capacity exists** to use space-based information?
- How are institutions **working together** to support disaster risk management through space-based information?
- Where are **constraints/gaps** which restrain the use of space-based information for disaster risk management

Technical
Advisory
Missions

Technical
Support

Facilitation of
direct
cooperation





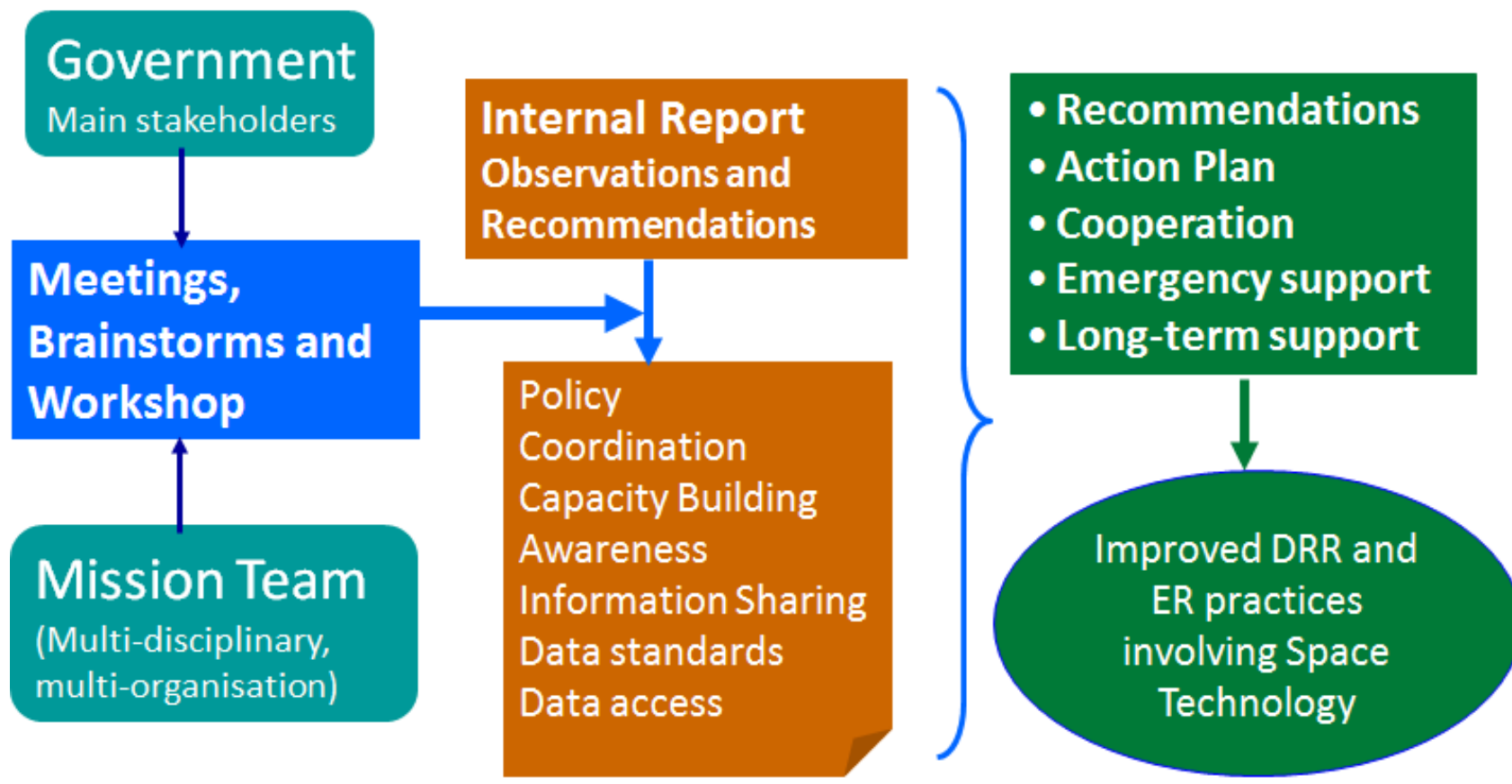
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Countries receiving Technical Advisory Support (2009 - 2012)





UN-SPIDER Technical Advisory Missions





“Technical Advisory Mission”

“Generic” classes of recommendations

- **Policy and Coordination**
- **Data access, availability and sharing**
- **Capacity Building and Institutional Strengthening**
- **Specific recommendations to address various stages of disaster management (risk reduction, early warning, emergency response etc.)**



Activities in 2013

- Technical Advisory Mission to **Vietnam**, 25 – 29 March 2013
- Technical Advisory Mission to **Ghana**, Nov/Dec 2013
- Technical Advisory Mission to **Malawi**, 14 – 18 October 2013
- Technical Advisory Support (training) to **Bangladesh**, 12-16 May 2013
- Technical Advisory Support (training) to **Sudan**, 5 – 9 May 2013
- Technical Advisory Support (training) to **Dominican Republic**, 13 - 17 May 2013
- Technical Advisory Support (training) to **Mozambique**, 4 – 8 November
- Technical Advisory Support to **Indonesia**, 5 – 6 September
- UN/Germany Early Warning Expert Meeting, Bonn, **Germany**, 25 – 26 June 2013
- SPIDER/NDRCC training, Beijing, **China**, 21-22 October
- UN/China International Conference, Beijing, **China**, 23 – 25 October
- Beijing Training: Flood Risk Mapping, Modeling and Assessment using Space technology, Beijing, **China**, 27-31 October



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Thank you!

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