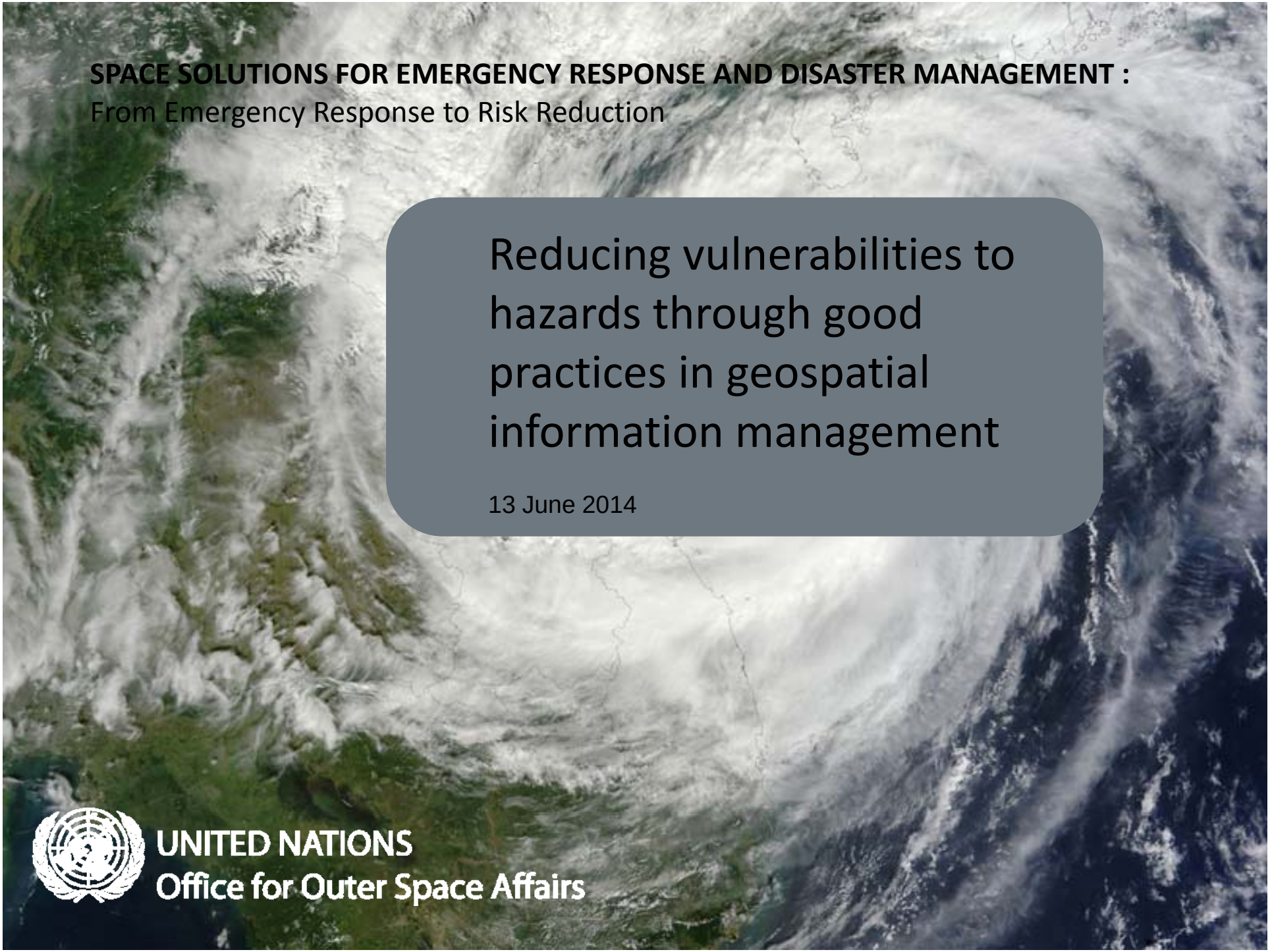

SPACE SOLUTIONS FOR EMERGENCY RESPONSE AND DISASTER MANAGEMENT :
From Emergency Response to Risk Reduction

Reducing vulnerabilities to hazards through good practices in geospatial information management

13 June 2014

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Rio+20: THE FUTURE WE WANT

Para 274

We recognize the importance **of space-technology-based data**, in situ monitoring, and **reliable geospatial information** for sustainable development policy-making, programming and project operations…

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

- "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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Knowledge Portal

- The UN-SPIDER Knowledge Portal is a web-based tool for information, communication and process support

Fostering Cooperation

- UN-SPIDER fosters alliances and creates forums where both space and disaster management communities can meet

Capacity Building

- UN-SPIDER facilitates capacity building and institutional strengthening

Technical Advisory Support

- UN-SPIDER provides support to countries in assessing national capacity and in evaluating disaster and risk reduction activities, policies and plans

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UN-SPIDER Technical Advisory Missions

Government
Main stakeholders

Mission Team
(Multi-disciplinary, multi-organisation)

Observations and Recommendations:
Policy making
Awareness Raising
Capacity Building
Coordination
Information Sharing
Data standards & access

Space-based tools for improved Disaster Risk Reduction and Emergency Response

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UN-SPIDER
in Vienna

UN-SPIDER
Beijing Office

UN-SPIDER
Bonn Office

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Network of Regional Support Offices

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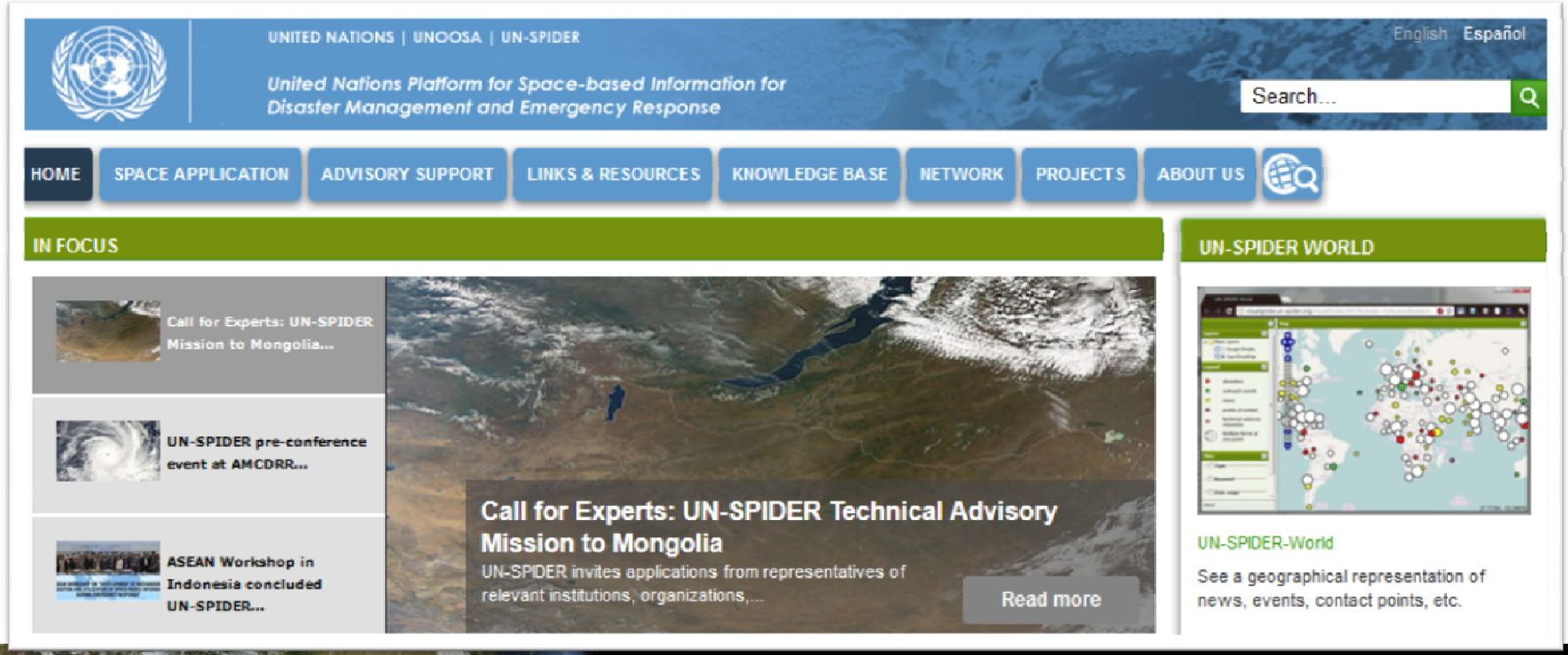
un-spider.org

- 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



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UN-SPIDER Activities 2013

Technical Advisory Mission

- Vietnam
- Ghana
- Malawi

Training

- Bangladesh
- Sudan
- Dominican Republic
- Mozambique
- Indonesia

Workshops/conferences

- United Nations/**Germany** Early Warning Expert Meeting, Bonn
- UN/China International Conference, Beijing
- Training on Flood Risk Mapping, Modeling and Assessment using Space technology, Beijing

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UN-SPIDER Activities 2014

Technical Advisory Mission

- **Kenya**, 3-7 March 2014
- **El Salvador**, 2-4 April 2014
- **Zambia**, 26-30 May2014
- **Bhutan**, 2-6 June 2014
- **Mongolia**, 11-15 August 2014

Training

- **Vietnam**, 3rd week September 2014
- **Sri Lanka**, 1st week November 2014
- **Bangladesh** (tbc)

Workshops/conferences

- **El Salvador**, 31 March and 1 April
- **Indonesia**, 15-17 April
- **Nepal**, 9-13 June May
- **Germany**, 5-6 June
- **China**, 15-17 September and 18-23 September

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Opportunities for collaboration

- Contributing data and knowledge to UN-SPIDER Portal
  - –Open and free data sources
  - –SOPs, guidelines, reference materials, solution development and hosting of services
- In-kind contributions
  - –Technical Advisory Missions: expert time (1 week)
  - –Training programme: trainers (1 week), data, software, venue
  - –Contribute to UNOOSA Staff development with short-term training
- Secondments of experts to Beijing, Bonn, Vienna, Regional Support Offices
- Joint outreach events: conference, workshops, side-meetings

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Achievements

- Providers of data and products have better (some) understanding of end-users requirements and expectations (*Outreach*)
- Discovery of resources is catalogued according to end-users "vocabulary" (*Portal*)
- EO brought into decision-making for DRR/ER (*TAM*)

Challenges

- DRR/ER authorities still see EO products as complex and overpriced *(they are but there are ways!!!)*
- DRR/ER authorities in developing countries are ill-equipped and do not always prioritize adequately
- High Res is great but is not solution to all problems

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