

10th Annual UN-SPIDER Regional Support Offices Coordination Meeting

UN-SPIDER Bonn office

4 – 5 November 2020



UNITED NATIONS
Office for Outer Space Affairs



Activities conducted by the UN-SPIDER Bonn Office

- **Knowledge Portal**
- **Knowledge Management efforts**
- **Technical Advisory Support to Africa**
- **Technical Advisory Support to Latin America and the Caribbean**
- **Emergency Support**
- **Outreach activities (conferences, expert meetings, etc)**





Knowledge Portal

New content:

- Space Applications, News, Links and Resources, Risks and Disasters, Advisory Support, Emergency Support, Online Training Opportunities.
- Substantial amount of content in Spanish and French versions

Improving links among pages to facilitate discovery of content



How can space technology be applied in disaster and risk management?

Where can I access satellite data, products and other resources?

Who are the users of space technology in disaster and risk management?

Which services can UN-SPIDER offer to Member States?



Knowledge management

Recommended Practices

- Revising, improving existing ones (Python, SNAP, Google Earth Engine, Jupyter Notebooks)
- Incorporating new ones, particularly for hazard assessment (floods, storm surges, forest fires, and landslides)

Expanding the use of Satellite imagery

- Multi-temporal interferometry for volcanic activity
Early Warning
- Forest fires
- Landslides and mass movements
- To locate landslides triggered by earthquakes and intense rainfall

With the
Support of the
2 Visiting
Scientists from
Mexico and
Colombia

Expanding the combined use of archived and up-to-date imagery

- Improved understanding of risk



UN-SPIDER activities - Africa

Institutional Strengthening Missions to:

- Cameroon with NASRDA – July 2019
- Ethiopia with ZFL – August 2020

Technical Advisory Mission to Tunisia including a training segment: ASAL, NOA and ROSA, March 2020.

Webinars to continue efforts due to COVID-19 outbreak:

- 3 for Mozambique with UFSM; Aug, Sept 2020)
- 3 for Nigeria with NASRDA; Aug, Sept, Oct 2020
- Virtual training on the use of flood recommended practice, Oct 2020

Emergency support for floods in:

- Sudan, Charter activation and mapping support
- Niger, Charter activation and mapping support
- Nigeria, mapping support



UN-SPIDER activities – Latin America

Webinars to continue efforts due to COVID-19 outbreak :

- 6 for Honduras; July – Sept. 2020, focusing on forest fires
- 2 for Colombia
- 1 for Guatemala, May 2020, focusing on forest fires,
- Virtual training for LAC on forest fires being planned for Nov. 2020

Emergency support :

- Mexico, related to earthquake in June 2020
- Nicaragua and Honduras due to hurricane Eta, Nov. 2020



Emergency support

- Build national capacities so that mapping of impacts can be done at national level in countries affected by disasters.
- Facilitate and build capacities to access and use emergency mechanisms existing **outside** the United Nations
 - International Charter Space and Major Disasters
 - Copernicus Emergency Management Service – Mapping
 - Sentinel Asia
- Facilitate the training of staff of RSOs and national disaster management agencies as project managers for the International Charter



Outreach activities

UN-SPIDER Bonn International Conference: “Space-based Solutions for Disaster Management in Africa: Challenges, Applications, Partnerships”, with ZFL, 6 to 8 Nov. 2019

To continue efforts due to COVID-19 outbreak:

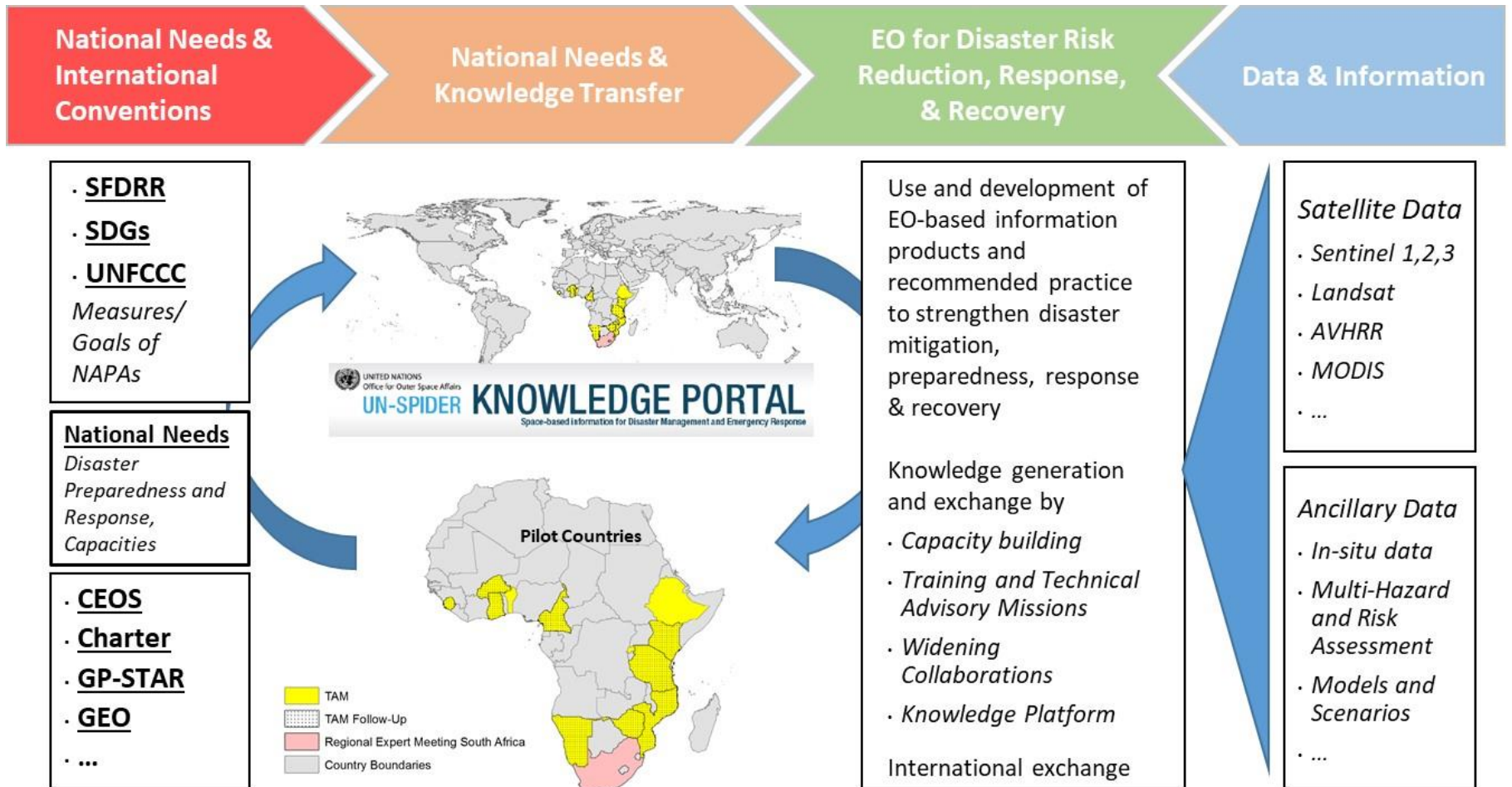
Virtual UN-SPIDER Expert Meeting for Africa: 30 June – 02 July 2020
With ASAL, NASRDA, RCMRC, ZFL, NOA, and ROSA

Virtual UN-SPIDER Expert Meeting for Latin America & Caribbean:
22 – 24 Sept 2020; co-organized with AEM, CONAE, IGAC, and UFSM

Virtual webinar on forest fires for Latin America & Caribbean: June 2020; co-organized by Gulich Institute, RedLATIF, INTA, INPE and CONABIO



SPEAR Initiative: a joint UN-SPIDER/ZFL effort





The way forward

Working with the RSOs to:

- Continue developing content for the Knowledge Portal.
- Continue the use of social media and the UN-SPIDER Youtube Channel.
- Increase use of GitHub, Jupyter Notebooks and other platforms to make scripts of Recommended Practices easily accessible to the wider RS/GIS community.
- Continue exploring the use of satellite technologies to contribute to prevention, preparedness, early warning, response and recovery.
- Continue providing technical advisory support to countries in Africa, Latin America and the Caribbean.
- Continue supporting emergency response efforts.
- Continue conducting outreach activities.

THANK YOU



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