



Committee on Earth Observation Satellites

WGDisasters-15 Virtual Meeting

UN-GGIM WG Disasters Update

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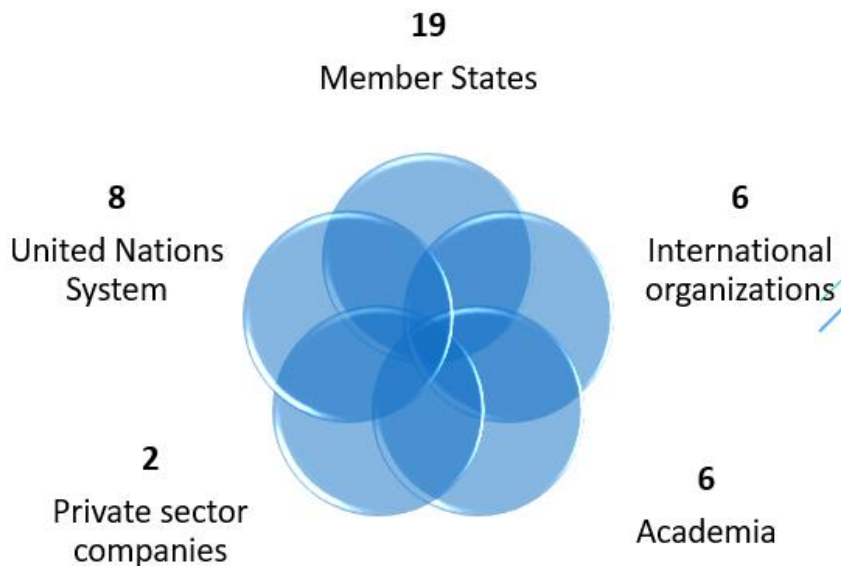


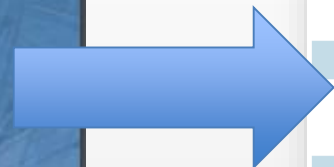
United Nations Committee of Experts on Global Geospatial Information Management (UN-GGIM)
Working Group on Geospatial Information and Services for Disasters (WG-Disasters)





- **Co-chairmanship:** Jamaica and Japan
- **Genesis:**
 - United Nations Committee of Experts on Global Geospatial Information Management (UN-GGIM) in August 2015, under decision 5/110 supported the proposal to establish a working group to further develop and implement a strategic framework on geospatial information and services for disasters.
- **Vision:**
 - **Accurate, timely and reliable geospatial information and services** are available, in a coordinated way, to decision makers and operational leads prior to, during and post disasters.





Strategic Framework on Geospatial Information and Services for Disasters 2016 - 2030

Scope and Purpose

The strategic framework aims to guide all stakeholders and partners in the management of geospatial information and services in all phases of Disaster Risk Reduction and Management (DRRM)

Expected Outcome

The human, economic, and environmental risks and impacts of disasters are prevented and reduced through the use of geospatial information and services

Goal

Quality geospatial information and services are available and accessible in a timely and coordinated way to support decision-making and operations within and among all stakeholders and partners and in all phases of DRRM

Priorities for Action

Member States with the support of regional and international organizations as well as other relevant organizations should focus their action on the following five priorities for action:

Priority 1 Governance and Policies	Priority 2 Awareness Raising and Capacity Building	Priority 3 Data Management	Priority 4 Common Infrastructure and Services	Priority 5 Resource Mobilization
Policies, collaborative agreements and legal frameworks aiming at improving the availability and accessibility of quality geospatial information and services among all stakeholders and partners established and implemented in all phases of DRRM	Awareness is raised among concerned entities on the importance of geospatial information and services and all necessary technical and human capacities are built and/or strengthened especially in the pre-disaster phase of DRRM	Geospatial databases and information products are developed based on common standards, protocols and processes as important tools in every decision-making process across all phases of DRRM	Common facilities and services are established for all key stakeholders and partners to have a common operational picture of emergency scenarios especially during and in the post-disaster phases of DRRM	All necessary technical, human and financial resources are available to sustain all the activities of DRRM

Guiding Principle

The strategic framework is guided by the 2030 Agenda for Sustainable Development, International Strategy for Disaster Reduction, Sendai Framework for Disaster Risk Reduction 2015-2030, UN General Assembly resolution on international cooperation on humanitarian assistance in the field of natural disasters, from relief to development and other relevant instruments. It is also guided by the principles of open data and requirements of national data infrastructure, and by the UN-GGIM's own Statement of Shared Principles for the Management of Geospatial Information.



- Contributions received from CEOS WG Disasters and GEO DRR WG Disasters via Dave Borges in **drafting two year workplan** for UN-GGIM WG Disasters:

(Special mention)

- **CEOS WGDisasters:**
 - Share existing thematically focused WG activities (geohazards, flood, landslides, seismic, wildfire, volcanoes) where Earth observations are being integrated, as well as geographic focus areas and relevant stakeholder agencies and organizations.
- **GEO DRR WG Subgroup 1:**
 - Share and promote details and developments regarding regional GEO (Americas, Europe, Africa, Asia Oceania) data sharing and relevant platforms facilitating data and product exchange related to disasters.

- Collaboration with CEOS WG Disasters and GEO DRR WG Disasters in executing the following:
 - **Development of a communication plan** - Facilitates information sharing and awareness of the WG's efforts within the UN system, among DRR bodies and beyond
 - Facilitate **awareness raising about the UN-GGIM WG and the Strategic Framework for Geospatial Information and Services for Disasters** through presentations delivered at regional meetings, webinars, conferences etc. – Dave Borges significantly supported this
 - Maintenance of an **inventory of DRR bodies** facilitated for collaboration and coordination of efforts.
 - Maintenance of an **inventory of geospatial information and services platforms (including EO)** to support collaboration and coordination of efforts.



- Collaboration with CEO WG Disasters: UN-GGIM WG Disasters contributed to 5 page chapter/section on **“Earth Observations in the Context of National Risk Reduction Decision Structures Leveraging Geospatial Solutions”** of **“UN GAR 2022 Earth Observations into Action”** publication
 - **Provided background and context of [Strategic Framework on Geospatial Information and Services for Disasters 2016-2030](#)**, endorsed and adopted by the United Nations Economic and Social Council (ECOSOC) in July 2018
 - Its strong alignment with relevant global policy frameworks including, but not limited to, the 2030 Agenda for Sustainable Development and the Global Statistical Geospatial Framework.
 - The Strategic Framework comes with an Assessment Survey aimed at gauging the level and status of implementation of geospatial information and services for disasters initiatives relative to the Strategic Framework among countries.

- UN-GGIM WG-Disasters' Strategic Framework Assessment Survey provides insight into **existing challenges experienced by countries.**
- It is also geared to **assist countries to better develop their national implementation plans** for geospatial information and services in support of disaster risk management.
- The first round of the Assessment Survey was conducted August - September of 2020 and an initial analysis undertaken of sixteen (16) responses from twelve (12) countries within the **Americas - North, Central, South and the Caribbean.**
- The results from this analysis provide an indication of the **status of disaster risk management in the Americas.**

Five Priorities for Action



Governance
and Policies



Awareness Raising
and Capacity Building



Data
Management



Common Infrastructure
and Services



Resource
Mobilization

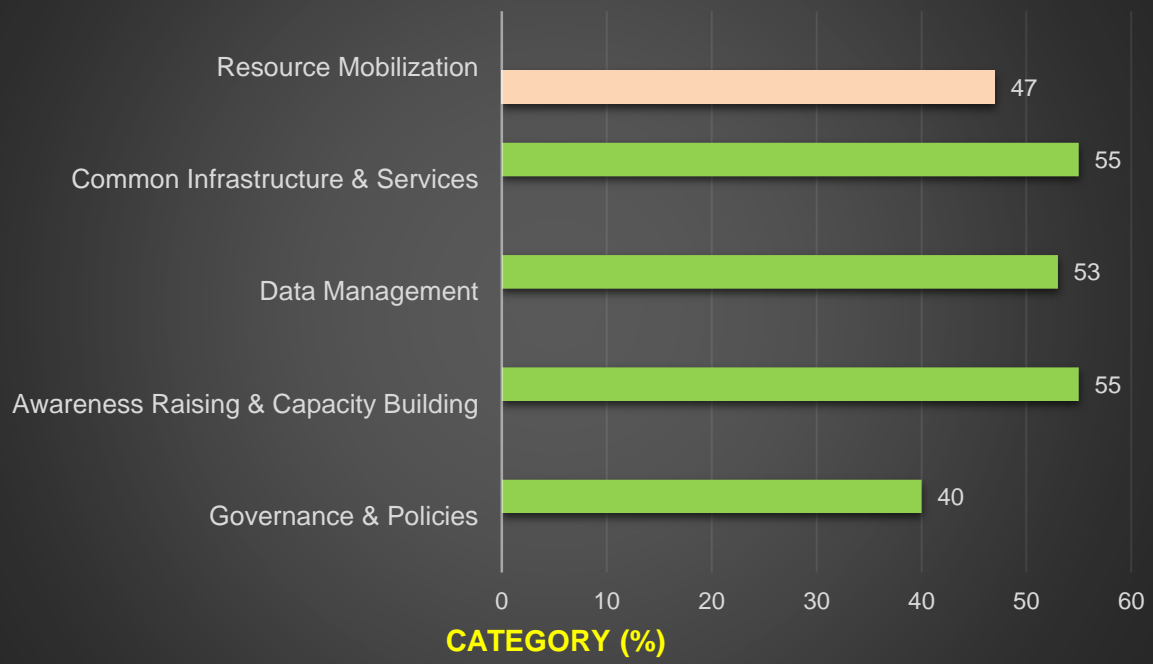
- For the assessment, each respondent determined their **level of readiness for implementing the Strategic Framework for Disasters on a scale of 1 to 5**, with 1 indicating being unaware of the initiative and its implementation within their country, while 5 indicates the initiative being fully implemented

Table 1. Strategic Framework Categories.

Category	Description
5	The initiative is fully implemented in my country
4	The initiative is currently being implemented in my country, with minor tasks still need to be done
3	The initiative is currently being implemented in my country, with major tasks still need to be done
2	The initiative is not yet implemented in my country
1	Unaware of the initiative, and its implementation in my country



Results Summary: Americas Region



For **priority areas 1 through 4**, an overwhelming majority of the respondents indicated **achieving level 3**, whereby the geospatial information and services enabled DRM initiative is currently being implemented in their country, with major tasks still needing to be undertaken:

Level 3 Breakdown:

- 40% - Governance and Policies,
 - 55% - Awareness Raising and Capacity Building,
 - 53% - Data Management and
 - 55% - Common Infrastructure and Resources.
- Very promising results - countries are aware of and have started to implement actions towards ensuring the use of geospatial information (including EO technology and products) and related services in response to disasters.
- On the other hand, 47% indicated attaining level 2 for Resource Mobilization, indicating that such activities towards enabling utilizing of geospatial information and services for DRM initiatives have not yet been implemented in their country

- UN-GGIM WG Disasters contribution also included:
 - [The Aguascalientes Declaration, “Better Together: Geospatial Information for decision making in the Americas”, September 2020](#), is one such regional initiative which aims to strengthen and improve collaboration among regional bodies in the Americas on the use of EO, geospatial, statistical and other information to support national development priorities.

- **Execute workplan activities** outlined on slide 5 and otherwise.
- Forging of partnerships with **DRR bodies** for collaboration and coordination of efforts.
- Conduct follow-up to have discussions with David Green, Dave Borges and Ian Johnson regarding **NASA Program** to determine potential areas for inclusion in their initiatives and projects.
- Conduct analysis of results for other regions (Africa, Asia, Pacific Europe) towards preparing a **global assessment and resulting report** for presentation at the 11th session of the UN-GGIM in August 2021.

- Collaboration with UN-GGIM: Americas Caribbean Geospatial Development Initiative (CARIGEO) Project to host “**WEBINAR 5: Caribbean Geoportal - Disasters**” in August 2021, focused on using the geoportal to aid preparations, mitigation strategies and response to hurricanes and tropical storms during 2021 Atlantic Hurricane season.
 - Geoportal facilitates **data sharing, analytical tools and web services freely available** for anyone doing work in the Caribbean. **Open data hosting** for governments that want to contribute their data to the community at no cost. These functions support disaster and other initiatives within Caribbean.
 - Key Focus - **Forging of partnerships and collaborations** to support upload and maintenance of EO and other geospatial information and products on the portal for use by Caribbean countries.
 - ESRI is a member of the CARIGEO Steering Committee. CARIGEO Geoportal was built by ESRI on its ArcGIS platform to support geospatial initiatives within the region.



CEOS

CARIGEO Caribbean Geoportal



Caribbean GeoPortal

<https://www.caribbeangeoportal.com/>



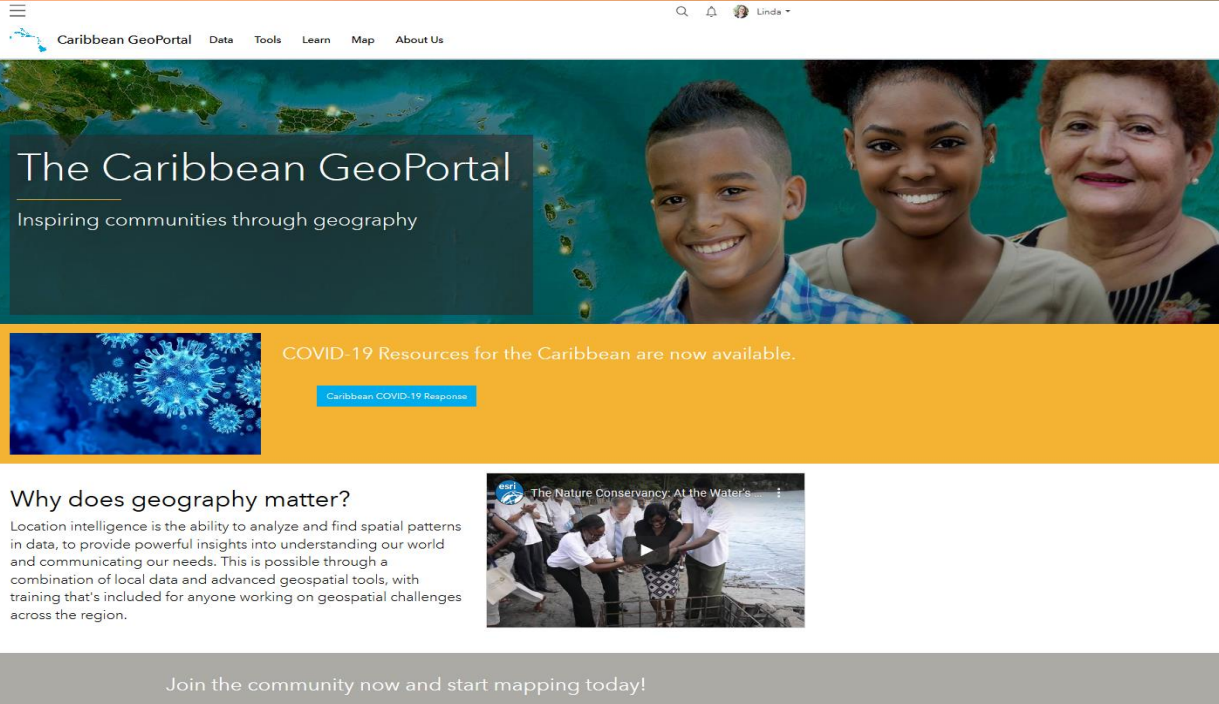
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We are deeply committed to supporting innovation in the Caribbean, helping users discover, explore, and understand the vast information available to them through the power of maps

”

Jack Dangermond

President and Founder of Esri



The screenshot shows the homepage of the Caribbean GeoPortal. At the top, there is a navigation bar with a menu icon, the text "Caribbean GeoPortal", and links for "Data", "Tools", "Learn", "Map", and "About Us". On the right side of the navigation bar, there are icons for search, notifications, and a user profile labeled "Linda". The main banner features a map of the Caribbean region with a semi-transparent text box containing the title "The Caribbean GeoPortal" and the tagline "Inspiring communities through geography". Below the banner, there is a yellow section with a blue virus icon and the text "COVID-19 Resources for the Caribbean are now available." with a button labeled "Caribbean COVID-19 Response". Further down, there is a section titled "Why does geography matter?" with a paragraph of text and a small image of people working outdoors. The text reads: "Location intelligence is the ability to analyze and find spatial patterns in data, to provide powerful insights into understanding our world and communicating our needs. This is possible through a combination of local data and advanced geospatial tools, with training that's included for anyone working on geospatial challenges across the region." The bottom of the page has a grey footer with the text "Join the community now and start mapping today!"



Thank You!





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