

Virtual Webinar:

Towards the Implementation of the Strategic Framework on Geospatial Information and Services for Disasters in the Americas

"Strategic Framework on Geospatial Information and Services for Disasters"

Tuesday August 4, 2020 @ 11:00 -13:00 (UTC-4)





Co-chair support
UN-GGIM Working Group On Geospatial Information And Services
For Disasters &
Senior GIS Manager
National Spatial Data Management Branch,
Ministry Of Economic Growth & Job Creation, Jamaica





Outline

Global Impact of Disasters

UN-GGIM WG Disasters

Strategic Framework

Assessment Survey

References



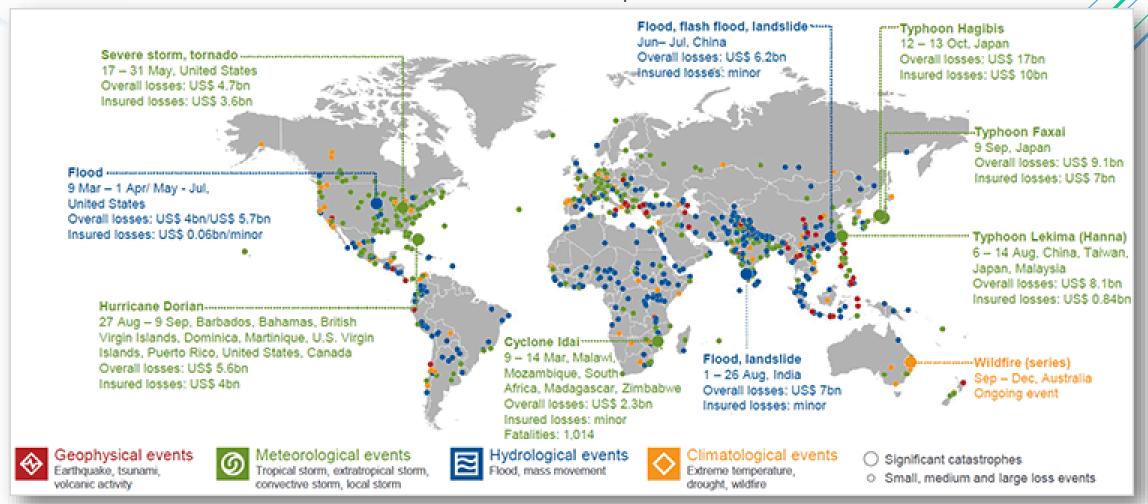
Global Impact of Disasters

SOCIAL, ECONOMIC & ENVIRONMENTAL LOSS



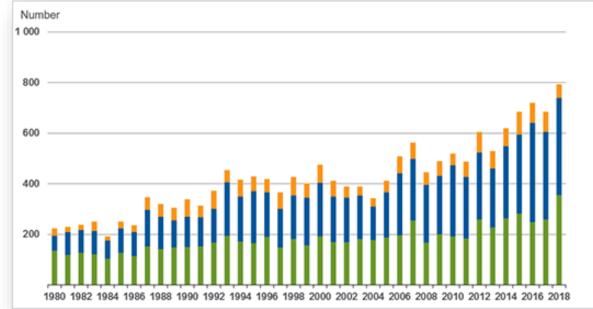
World Natural Catastrophes, 2019

Overall losses from world-wide natural catastrophes in 2019 totaled \$150 billion dollars



Source: © 2020 Munich Re, Geo Risks Research, NatCatSERVICE. As of January 2020.





- Meteorological events (Tropical storm, extratropical storm, convective storm, local storm)
- Hydrological events (Flood, mass movement)
- Climatological events (Extreme temperature, drought, forest fire)

Accounted events have caused at least one fatality and/or produced normalized losses ≥ US\$ 100k, 300k, 1m, or 3m (depending on the assigned World Bank income group of the affected country).



www.OusAnsazingPlanet.com

Natural disasters around the world in 2010

From the massive earthquake in Haiti to the explosive Icelandic volcano, 2010 was a big year for natural disasters across the planet.



EARTHQUAKES

- 1. Halti, Jan. 12, magnitude 7.0
- Chile, Feb. 27, magnitude 8.8 Pichileum, Chile, March 11
- Mexico & Southern California, April 4, magnitude 7.2
- Indonesia, Oct. 25, magnitude 7.7 (triggered tsunami)
- New York City, Nov. 30, magnitude 3.9, largest quake in 18 years hits NYC region
- Bonin Islands, Japan, Nov. 30, 6.6-magnitude

VOLCANO ERUPTIONS

- Shiveluch, Russia, Oct. 28 & Klyuchevskaya, Russia, March
- Popocatépeti, Mexico erupting since 2005
- Eyjafjallajökull, Iceland, March 20

- Kilausa, Hawaii, continuous lava flows destroyed a house in November
- Ht. Merapi, Indonesia, Oct. 26

FLOODS

- 12. Portugal, Feb. 22
- 13. Tennessee, April 30
- 14. Bangladesh, June 15
- 15. Pakistan, July 26
- 16. Arkansas, June 2010
- 17. Rio de Janiero, April 5
- 18. China, May 10

LANDSLIDE

- 19. Oaxaca, Mexico, Sept. 28
- 20. Uganda, March 1 21. Gensu, China, Aug. 8
- 22. Venezuela & Colombia, Dec. 4

RARE TORNADOES

- 23. Brooklyn/Queens, Sept. 16
- 24. Illinois & Wisconsin, Nov. 19
- 25. Oregon, Dec. 14

AVALANCHE

26. Kohistan, Pakistan,

- Feb. 17
- 27. Salang, Afghanistan, Feb. 8

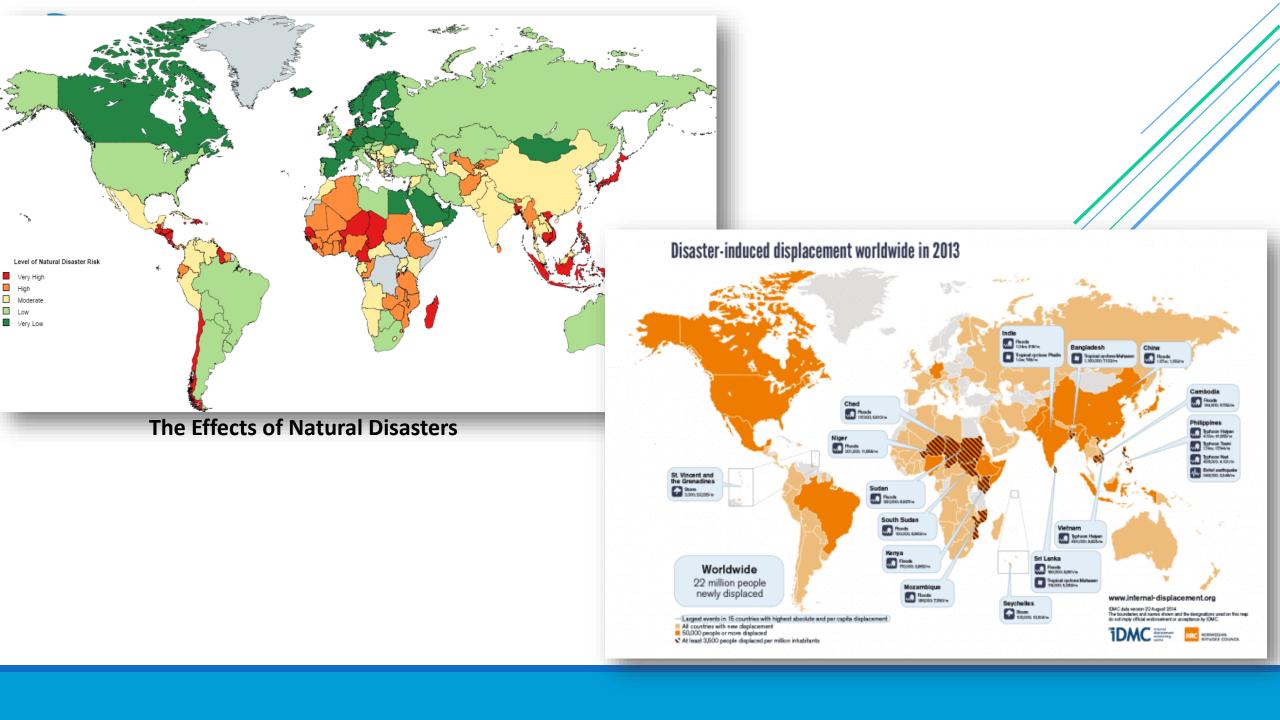
HURRICANES/ TYPHOONS/CYCLONES

- Hurricane Tomas, Category 2, Costa Rica/Haiti, Oct. 29-Nov. 7
- Hurricane Frank, Category 1, Mexico, Aug. 21-28
- 30. Typhoon Conson, Category 1, Philippines, July 11-18
- 31. Typhoon Megi, Category 5, Philippines, Oct. 12-24
- Cyclone Giri, Category 4, Myanmar, Oct. 20-23

ROSS TORO, Our Amazing Planet.com

SOURCE: OURAMAZINGPLANET.COM RESEARCH







Working Group on Geospatial Information and Services for Disasters

(UN-GGIM WG-Disasters)

In August 2015, under decision 5/110, the United Nations Committee of Experts on Global Geospatial Information Management (UN-GGIM) supported the proposal to establish a working group to further develop and implement a strategic framework that would be:

- Focused in a practical manner;
- Aligned with the outcome and follow-up to the **Sendai Framework for Disaster Risk Reduction 2015-2030** and its implementation;
- Able to take into consideration the special needs of developing countries, especially with respect to capacity building and knowledge sharing and;
- Broadly representative of different regions of the world and taking into account regional experiences.



Vision & Objectives

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.

Objective

Provide a forum for dialogue and coordination among Member States, their relevant government bodies, the United Nations system, international disaster risk and emergency response organizations, non-government organizations (NGOs), private sector bodies, academia, other international organizations and experts, and donors with responsibility for disaster risk reduction and management.

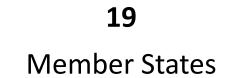


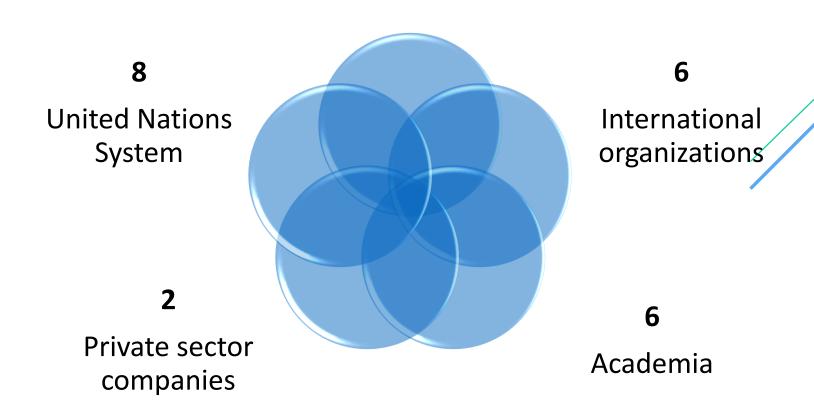
Leadership & Membership

- Co-chairmanship: Jamaica and Japan
- Operations: guided by a Terms of Reference (TOR)
- O Membership composition: comprises expert representatives nominated by Member States from their geospatial, risk reduction and statistical communities, international organizations, non-governmental organizations (NGOs), academia, and the private sector. The Working Group also invites subject matter experts from relevant bodies within the United Nations System such as the Secretariats of Regional Committees of UN-GGIM, UNDRR, UN-SPIDER, UNITAR-UNOSAT and CEOS.
- Observers: The Working Group will liaise, as required, with international organizations and invite their nominated experts as observers that have an interest in disaster-related geospatial information and services.



Membership Records







Structure

Task Groups:

- A. Implementation and monitoring of the Strategic Framework
 - Administering the Strategic Framework Assessment Tool
- B. Design and implementation of scenario-based exercises on different hazards, including predictive modelling to test and improve the Strategic Framework per country and or region (Lead: Japan)
- C. Support the Statistical Commission to advance a common statistical framework on disaster-related statistics (Lead: Jamaica)
- D. Support the preparation of the Integrated Geospatial Information Framework (Lead: New Zealand)



Strategic Framework on Geospatial Information and Services for Disasters



Background & Context

2017: The Working Group on Geospatial Information and Services for Disasters (WG-Disasters) of the United Nations Committee of Experts on Global Geospatial Information Management (UN-GGIM) formulated a Strategic Framework on Geospatial Information and Services for Disasters, under the then co-chairmanship of Philippines and Jamaica.

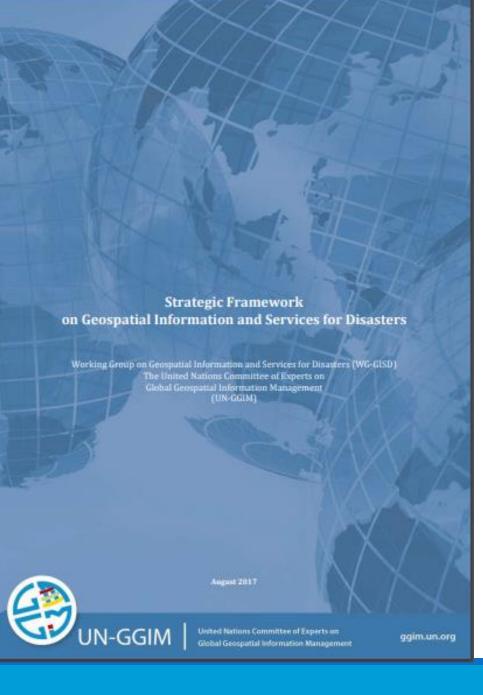
August 2017: Strategic Framework adopted by the Committee of Experts

July 2, 2018: Strategic Framework adopted by United Nations Economic and Social Council (ECOSOC)

2019: UN-GGIM WG-Disasters developed an Assessment Survey to monitor the implementation and monitoring of the Strategic Framework across Member States.

August 2019: Committee of Experts endorsed the Assessment Survey as a tool to assist Member States to develop national implementation plans for geospatial information and services in support of disaster risk reduction and management.

June 2020 – Present: Administering of Assessment Survey



Access the Strategic Framework here:

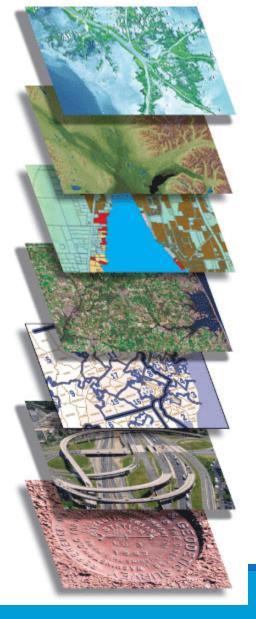
http://ggim.un.org/documents/UN-GGIM Strategic Framework Disasters final.pdf

http://ggim.un.org/documents/Spanish N1819007.pdf

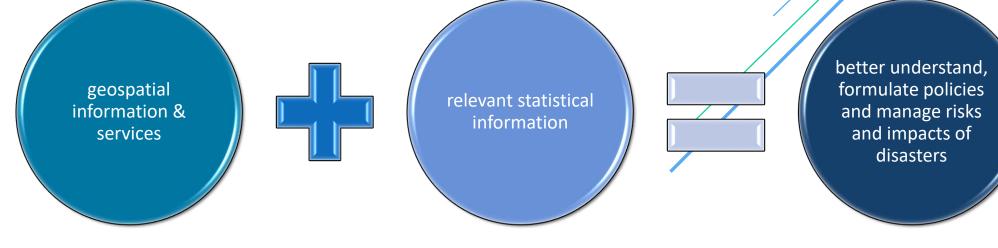
The Strategic Framework on Geospatial Information and Services for Disasters was adopted by the UN Economic and Social Council in July 2018 under resolution 2018/14 (available in all 6 languages, see below, Documents then 2018)

Arabic Chinese English French Russian Spanish





Use of:



Member States



Core Areas of Framework Structure

- Expected Outcome and Goal
 - Guiding Principles
 - Priorities for Action
 - Role of Stakeholders
 - Implementation



Expected Outcome and Goal

 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)

Scope & Purpose

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

Expected Outcome

 Quality geospatial information and services are available and accessible in a timely and coordinated way to support decision-making and operations within and across all sectors and phases of the emergency cycle

Goal



Guiding Principles

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 in Humanitarian Assistance in the Field of Natural Disasters Resolution of the United Nations General Assembly 59/12 **Global Geospatial Statistical Framework Open Data National Data Infrastructure** UN-GGIM Declaration of Shared Principles for Geospatial Information Management

http://ggim.un.org/meetings/2017-Kunming/documents/Session%207%20-%20UNGGIM%20WG%20on%20Geospatial%20Infor mation%20and%20Services%20for%20Disasters.pdf



Five Priorities for Action



Governance and Policies



Awareness Raising and Capacity Building



Data Management



Common Infrastructure and Services



Resource Mobilization



Priority 1:



Governance and Policies

Good governance and science-based policies are essential

Outlines strategies at the National and Local Levels & Global and Regional Levels

To make available and accessible all quality geospatial information and services across all phases of the DRRM

Specific activities:

- Assessment and Planning
- Institutional Arrangements
- Collaboration and Coordination
- Monitoring and Evaluation



Priority 2:



Involves pursuing awareness raising and capacity building initiatives leading to better understanding and appreciation of the relevance of geospatial data and information to DRRM

Awareness of geospatial data and information holdings and gaps

Inclusion of geospatial information management as applied to DRM in academic programs

Geospatial information management training programs



Priority 3:



Comprehensive methods of collecting and managing geospatial data and information:

o Data Development

o Data Standards and Protocols

o Data Use Guidelines



Priority 4:



Common Infrastructure and Services

Infrastructure support is essential towards institutionalizing geospatial information and services

Infrastructure such as hardware, software, network and manpower capacities needed to process and further improve geospatial information and services

Possible establishment of a **Common Operations Center** by national governments, focused on the interoperability of systems and processes to allow geospatial data and information sharing among all DRM actors

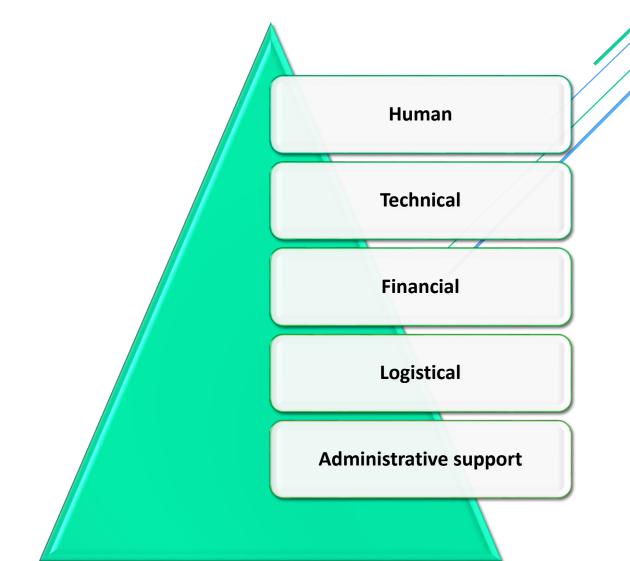


Priority 5:



Resource Mobilization

• Extensive resources needed for the creation, improvement and maintenance of all geospatial information and services in order to sustain all DRRM activities:





Role of Stakeholders



Member States should be in the position to generate, maintain and provide quality geospatial information and services across all phases of the DRRM.

- Specific roles and responsibilities for:
- o Civil Society Groups, Volunteer Organizations and other Community-Based Organizations
- o Private Sector
- o Academia, Scientific and Research Entities and Networks
- o Media
- Support needed from International Organizations: UN-GGIM, UN Agencies and international funding institutions



Implementation

Geospatial information and services contribute vastly to the overarching effort of preventing or reducing the social, economic, and environmental impacts of disasters.

Member States and other stakeholders should prioritize a geospatially-oriented agenda in their respective development plans and programs.

Member States and other stakeholders should commit themselves to the full implementation of the priorities for action by improving their current capacities in providing geospatial information and services across all phases of DRM.









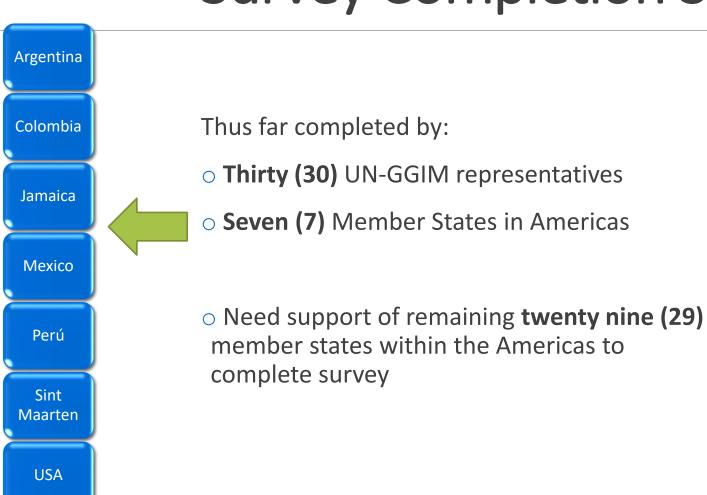


Strategic Framework on Geospatial Information and Services for Disasters ASSESSMENT SURVEY

The Working Group on Geospatial Information and Services for Disasters (WG-Disasters) of the United Nations Committee of Experts on Global Geospatial Information Management (UN-GGIM) has formulated a Strategic Framework on Geospatial Information and Services for Disasters which has been adopted by the Committee of Experts in August 2017, and by the United Nations Economic and Social Council (ECOSOC) on 2 July 2018. The Framework aims to guide Member States and other stakeholders in making available and accessible all quality geospatial information and services before, during and after disaster events. More about the Framework is available at this link < http://ggim.un.org/documents/UN-GGIM Strategic Framework Disasters final.pdf.



Survey Completion Status





Five Priorities for Action



Governance and Policies



Awareness Raising and Capacity Building



Data Management



Common Infrastructure and Services



Resource Mobilization



WG-Disasters Global Request to Complete Assessment Survey



SECRETARIAT OF THE UNITED NATIONS COMMITTEE OF EXPERTS ON GLOBAL GEOSPATIAL INFORMATION MANAGEMENT UN STATISTICS DIVISION

DEPARTMENT OF ECONOMIC AND SOCIAL AFFAIRS
TWO UNITED NATIONS PLAZA, DC3-1619, NEW YORK, NY 10817
TELEPHONE NO: 1 (917) 367-6130; FAX NO: 1 (212) 963-0623
Interest location: ggim.un.org

STAT 421(4-110)

3 June 2020

Dear colleagues,

UN-GGIM Strategic Framework on Geospatial Information and Services for Disasters – Assessment Survey

I am writing to you on behalf of the co-chairs of the United Nations Committee of Experts on Global Geospatial Information Management (UN-GGIM) Working Group on Geospatial Information and Services for Disasters (WG-Disasters).

As you may recall, the Committee of Experts, at its ninth session in August 2019, adopted decision 9/109, in which it commended the WG-Disasters on the preparation of the Assessment Survey on the Strategic Framework for Disasters, and the subsequent consultations held thereon through the regional committees of UN-GGIM. In this regard, the Committee of Experts endorsed the Survey as a tool to assist Member States to develop national implementation plans for geospatial information and services in support of disaster risk reduction and management.

By way of this letter, we now invite you to review and complete the UN-GGIM Strategic Framework on Geospatial Information and Services for Disasters Assessment Survey which is available on-line at https://bit.ly/2.TxLF0t. The Survey will only require approximately 30-45 minutes to complete. Given the specialized nature of the topic, contributions from your national focal organization mandated for disaster risk reduction and management, would be valuable and most welcomed.

The objective of the current exercise is to assist the WG-Disasters to determine mechanisms and strategies to ensure the future implementations of the Strategic Framework on Geospatial Information and Services for Disasters. The responses will be analyzed to better understand the status of the national geospatial information and services landscape across all phases of disasters within Member States, and the results presented to the Committee of Experts at its tenth session in August 2020.

We would be grateful if the Assessment Survey is completed on or before Monday 29

June 2020. Should you have questions or need clarification on this request please do not
hesitate to contact my colleague in the Secretariat, Ms. Cecille Blake (blake) (mun org.).



PAGE 2

We acknowledge that these are difficult and disruptive times for us all, but at the same time, we are seeing how geospatial information is at the heart of global to local COVID-19 response and recovery efforts. The relevance of our work within the Committee of Experts is increasingly being recognized, and it is with this value of international cooperation that we call upon you to support this exercise.

Thank you in advance for your contribution to this important global request.

Yours sincerel

Stefan Schweinfest
Director
UN-GGIM Secretariat
United Nations Statistics Division/DESA

cc: Mr. Kyoung-Soo Eom Chief, Geospatial Information Section

Mr. Shoichi Oki Co-Chair WG on GI and Services for Disasters Geospatial Information Authority of Japan

Ms. Michelle Edwards Co-Chair WG on GI and Services for Disasters Office of Disaster Preparedness and Emergency Management, Jamaica



Strate Inform

Strategic Framework on Geospatial Information and Services for Disasters ASSESSMENT SURVEY

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In view of this, the WG-Disasters is conducting an Assessment Survey that will help gauge the level and status of implementation of geospatial information and services for disasters initiatives relative to the Strategic Framework among Member States. The Survey aims to understand the national geospatial information and services landscape across all phases of disasters within Member States. Alternatively, the tool can be used by Member States to better develop their national implementation plans for geospatial information and services in support of disaster risk reduction and management (DRRM).

The Survey will require approximately 30-45 minutes to complete. It is intended to be accomplished by the representative of each Member State in the WG-Disasters or the designated focal organization that has the mandate for national DRRM. While the Survey intends to capture national perspective, the visual opinions of other national government agencies, sub-national government units, private sector and other stakeholders in DRRM is encouraged in order to aid Member States in preparing an integrated national assessment.

The activities in each priority area will be rated using the rating scale. It is important that the assessment be made in reference to established policies, infrastructures, systems or procedures in the national context and NOT at the organizational level. As assessments may be based on perception, additional remarks, and supporting document/s may be attached or provided to make the results as factual as possible. We commit to ensuring that all personal information will be treated with utmost confidentiality.

* Required

BACKGROUND INFORMATION

1. Full Name *

Enter your answer

Accessing the Survey

Purpose: Assessment Survey as a tool to assist Member States to develop national implementation plans for geospatial information and services in support of disaster risk reduction and management.

Formats:

- Microsoft Form (online)
- Microsoft Word
- Portable Document Format (PDF)

Online version

https://bit.ly/2TxLF0t



UN-GGIM Strategic Framework on Geospatial Information and Services for Disasters ASSESSMENT SURVEY

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

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http://ggim.un.org/documents/Proposed%20UN-GGIM%20SF%20Monitoring%20Tool V10.4 for%2 0Consult.pdf

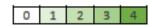




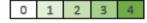
a. GOVERNANCE AND POLICIES

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 before, during and after disasters

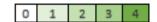
 Political support in terms of policy and leadership is provided by the government in implementing the five priorities¹ for action contained in the strategic framework



- Remarks:
 Attach pertinent document to support your assessment or provide the title of document.
- Financial support is provided by the government in implementing the five priorities for action contained in the strategic framework



- Remarks:
 Attach pertinent document to support your assessment or provide the title of document
- A champion, i.e., individual or organization that oversees the implementation of the five priorities for action and ensures an inclusive participation of all stakeholders and key partners is functional



- Remarks:
- Attach pertinent document to support your assessment or provide the title of document



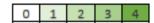
b. AWARENESS RAISING AND CAPACITY BUILDING

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

 Geospatial information and services are translated into strategies and tools that can easily be understood and used by a wider audience (e.g., using local languages, reflecting area and issue-based scenarios, use of social media)

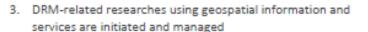


- Remarks:
 Attach pertinent document to support your assessment or provide the title of document
- Inclusion of geospatial information management as applied to disaster risk management (DRM) in academic programs is promoted and advanced



Remarks: _____

 Attach pertinent document to support your assessment or provide the title of



0	1	2	3	4

- Remarks:
- Attach pertinent document to support your assessment or provide the title of document





c. DATA MANAGEMENT

Remarks:

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 DRM

 A common and accessible database system of minimum/baseline geospatial information and services requirements, including an initial list of essential elements of information (EEIs) is developed and used



- Attach pertinent document to support your assessment or provide the title of
- Hazard, vulnerability and disaster risk assessment maps, and other information products as crucial inputs to national and local DRM plans are developed and used

0 1 2 3 4

- Remarks:
 Attach pertinent document to support your assessment or provide the title of
- A common contact database of national and local emergency responders, as well as a registry of all humanitarian response/assistance organizations are established, maintained and updated

document

0 1 2 3 4

- Remarks:
- Attach pertinent document to support your assessment or provide the title of document



d. COMMON INFRASTRUCTURE AND SERVICES

Common facilities and services are established for all key stakeholders and partners to have a common operational picture of emergency scenarios

 A common infrastructure and facility, particularly a national operations center is established 0 1 2 3 4

- a Damarke
- Attach pertinent document to support your assessment or provide the title of document
- A maintenance program supporting the common infrastructure and facility, particularly a national operations center, is established

0 1 2 3 4

- Remarks:
- Attach pertinent document to support your assessment or provide the title of document

 A backup facility for online and offline access to geospatial data to sustain operations during disasters is established

0 1 2 3 4

- Remark
- Attach pertinent document to support your assessment or provide the title of document

Interoperability of all systems and processes in DRM organizations is ensured

0 1 2 3 4

- Remarks:
- Attach pertinent document to support your assessment or provide the title of document





e. RESOURCE MOBILIZATION

All necessary technical, human and financial resources are available to sustain all the activities of DRM

1.	DRM organizations are sensitized on the necessity of funding the acquisition, maintenance and updating of geospatial	0	1	2	3	4
	Remarks:					
	Attach pertinent document to support your assessment or provide the title of document					
2.	The academe and other scientific and research institutions are encouraged to prioritize funding for the conduct of	0	1	2	3	4
	researches, development and extension activities in the					
	implementation of the strategic framework					
	Remarks: Attach pertinent document to support your assessment or provide the title of					
	document					
3	The private sector, including financial institutions are					
-	encouraged to invest in the provision of geospatial	0	1	2	3	4
	information and related services for DRM					

· Attach pertinent document to support your assessment or provide the title of

 Funding support for the activities in the implementation of the five priorities for action, including grants, loans and other

. Attach pertinent document to support your assessment or provide the title of

document

forms of financial support are easily accessible







https://bit.ly/2TxLF0t

UN-GGIM Strategic Framework on Geospatial Information and Services for Disasters ASSESSMENT SURVEY

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http://ggim.un.org/documents/Proposed%20UN-GGIM%20SF%20Monitoring%20Tool V10.4 for%20Consult .pdf

Queries & submission to: Ms. Cecille Blake (blake1@un.org)







Simone Lloyd, GISP

Co-chair support
UN-GGIM Working Group on Geospatial Information and Services For Disasters
&

Senior GIS Manager/Trainer
National Spatial Data Management Branch
Ministry Of Economic Growth & Job Creation,
Jamaica W.I

simone.Lloyd@megjc.gov.jm



References

- 1. Child Fund International. 2013. United Nations University World Risk Index 2014. **The Devastating Impact of Natural Disasters.** https://www.childfund.org/Content/NewsDetail/2147489272/
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