

"Geospatial Data Driving DRRM during the Decade of Action"



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INFORMATION MANAGEMENT

Name: **Simone Michelle Lloyd, GISP**

Event: 8th UN-GGIM: Europe Session

Date: *Wednesday October 13, 2021*



Presenter Bio

- A certified geospatial professional from Jamaica who serves as the Acting Principal Director of the National Spatial Data Management Branch of Jamaica's Ministry of Housing, Urban Renewal, Environment and Climate Change (MHURECC).
- She serves as Jamaica's Focal Point and Head of Delegation to the UN-GGIM Committee of Experts, with Jamaica co-chairmanship support and leadership of Task Groups A & C of the UN-GGIM Working Group on Geospatial Information and Services for Disasters;
- Additionally, Jamaica's Focal Point in UN-GGIM: Americas, serving on the CARIGEO Steering Committee and provides UN-GGIM: Americas' representation on the High Level Group (HLG) on Integrated Geospatial Information Management (IGIF).



Simone Michelle Lloyd, GISP MSc

Task Groups A & C Lead, UN-GGIM WG Disasters

Principal Director

National Spatial Data Management Branch

*Ministry of Housing, Urban Renewal, Environment & Climate Change,
Jamaica*



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UN-GGIM Working Group on
Geospatial Information and Services for Disasters

"Geospatial Data Driving DRRM during the Decade of Action"



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Outline

- Disaster Context of Europe
- UN-GGIM WG Disasters Genesis and Mandate
- Sendai Framework & the Strategic Framework
- DRRM Phases: Importance of Geospatial Data
- SDGs Decade of Action
- Strategic Framework Assessment Results - Europe
- Engaging Europe's Support



NEWS

Disasters in Europe: more frequent and causing more damage

The number and impacts of disasters have increased in Europe in the period 1998-2009, a new report by the European Environment Agency (EEA) concludes. The report assesses the frequency of disasters and their impacts on humans, the economy and ecosystems and calls for better integrated risk disaster management across Europe.

Published 12 Jan 2011 — Last modified 23 Nov 2020 — 2 min read

<https://www.eea.europa.eu/highlights/natural-hazards-and-technological-accidents>



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Disasters in Europe: more frequent and causing more damage

Disasters caused nearly 100 000 fatalities, affected more than 11 million people and led to economic losses of about EUR 150 billion.

- **Hydrometeorological or weather related:** storms, extreme temperature events, forest fires, droughts, floods
- **Geophysical:** snow avalanches, landslides, earthquakes, volcanoes and
- **Technological:** oil spills, industrial accidents, toxic spills from mining activities

<https://www.eea.europa.eu/highlights/natural-hazards-and-technological-accidents>



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DisasterAWARE®

Make better decisions, faster.



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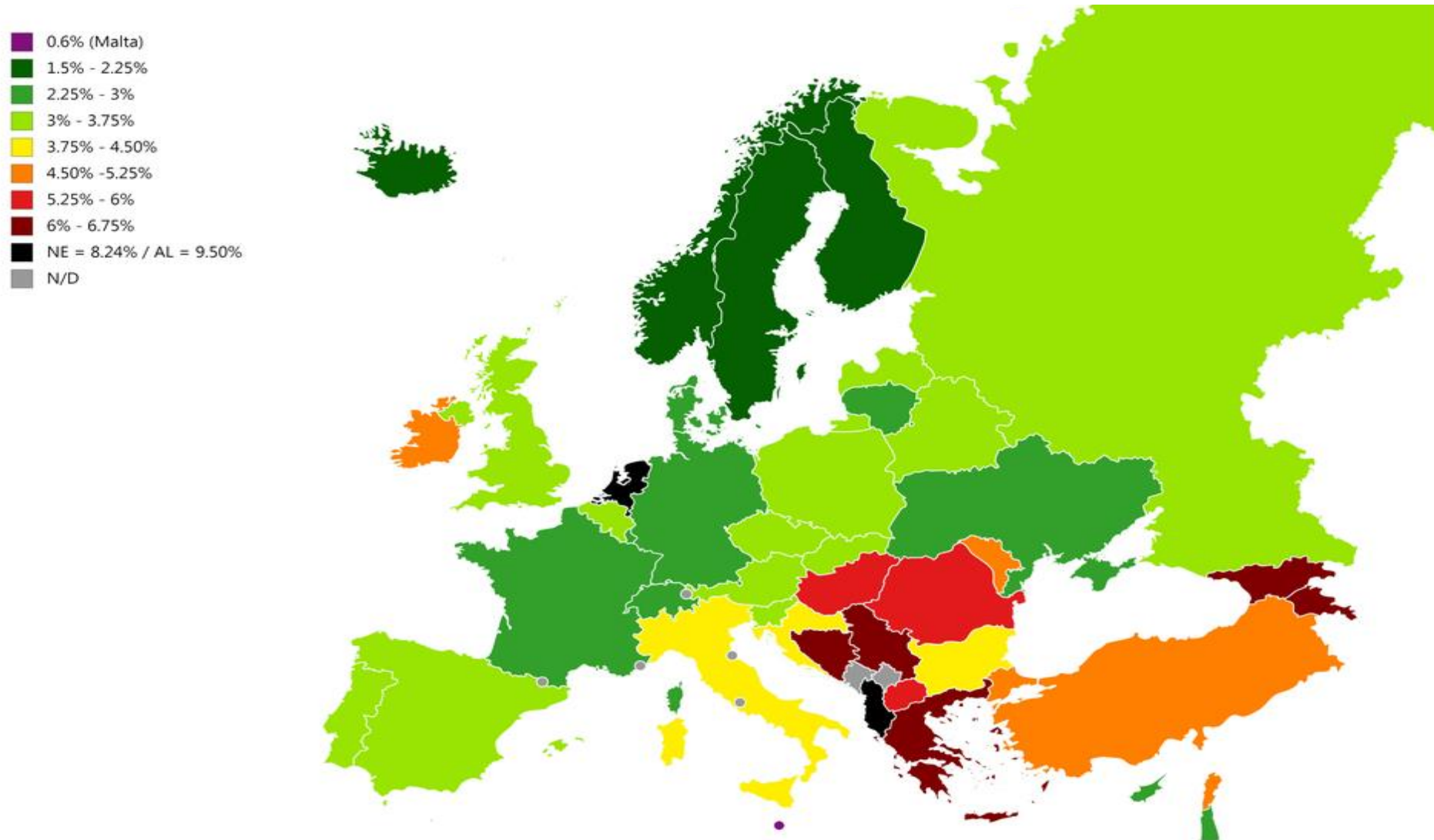
PDC | GLOBAL

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European nations by natural disaster risk (World Risk Index, UN, 2016)



https://www.reddit.com/r/europe/comments/6yvgiv/european_nations_by_natural_disaster_risk_world/

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UN-GGIM WG Disasters Genesis and Mandate



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THE SENDAI FRAMEWORK OUTLINES SEVEN GLOBAL TARGETS TO BE ACHIEVED BY 2030:

Endorsed by the UN General Assembly following the 2015 Third UN World Conference on Disaster Risk Reduction (WCDRR), and advocates for:

The substantial reduction of disaster risk and losses in lives, livelihoods and health and in the economic, physical, social, cultural and environmental assets of persons, businesses, communities and countries.

SUBSTANTIAL
REDUCTIONS

A. Reduce global disaster mortality



B. Reduce the number of affected people globally



C. Reduce direct economic loss in relation to GDP



D. Reduce disaster damage to critical infrastructure and disruption of basic services



E. Increase the number of countries with national and local disaster risk reduction strategies



F. Substantially enhance international cooperation to developing countries



G. Increase the availability of and access to multi-hazard early warning systems



SUBSTANTIAL
INCREASES

Understanding
Disaster risk



www.preventionweb.net/go/sfdr
www.unisdr.org
isdr@un.org

Chart of the Sendai Framework for Disaster Risk Reduction
2015-2030

Scope and purpose

The present framework will apply to the risk of small-scale and large-scale, frequent and infrequent, sudden and slow-onset disasters, caused by natural or manmade hazards as well as related environmental, technological and biological hazards and risks. It aims to guide the multi-hazard management of disaster risk in development at all levels as well as within and across all sectors.

Expected outcome

The substantial reduction of disaster risk and losses in lives, livelihoods and health and in the economic, physical, social, cultural and environmental assets of persons, businesses, communities and countries

Goal

Prevent new and reduce existing disaster risk through the implementation of integrated and inclusive economic, structural, legal, social, health, cultural, educational, environmental, technological, political and institutional measures that prevent and reduce hazard exposure and vulnerability to disaster; increase preparedness for response and recovery; and thus strengthen resilience

Targets

Substantially reduce global disaster mortality by 2030, aiming to lower average per 100,000 global mortality between 2020-2030 compared to 2005-2015

Substantially reduce the number of affected people globally by 2030, aiming to lower the average global figure per 100,000 between 2020-2030 compared to 2005-2015

Reduce direct disaster economic loss in relation to global gross domestic product (GDP) by 2030

Substantially reduce disaster damage to critical infrastructure and disruption of basic services, among them health and educational facilities, including through developing their resilience by 2030

Substantially increase the number of countries with national and local disaster risk reduction strategies by 2020

Substantially enhance international cooperation to developing countries through adequate and sustainable support to complement their national actions for implementation of this framework by 2030

Substantially increase the availability of and access to multi-hazard early warning systems and disaster risk information and assessments to people by 2030

Priorities for Action

There is a need for focused action within and across sectors by States at local, national, regional and global levels in the following four priority areas.

Priority 1
Understanding disaster risk

Priority 2
Strengthening disaster risk governance to manage disaster risk

Priority 3
Investing in disaster risk reduction for resilience

Priority 4
Enhancing disaster preparedness for effective response, and to «Build Back Better» in recovery, rehabilitation and reconstruction

THE SENDAI FRAMEWORK OUTLINES SEVEN GLOBAL TARGETS
TO BE ACHIEVED BY 2030:

SUBSTANTIAL REDUCTIONS

A. Reduce global disaster mortality



B. Reduce the number of affected people globally



C. Reduce direct economic loss in relation to GDP



D. Reduce disaster damage to critical infrastructure and disruption of basic services



E. Increase the number of countries with national and local disaster risk reduction strategies



F. Substantially enhance international cooperation to developing countries



G. Increase the availability of and access to multi-hazard early warning systems



SUBSTANTIAL INCREASES

Provides Member States with concrete actions to protect development gains from the risk of disaster.

Aligned

Strategic Framework on Geospatial Information and Services for Disasters

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

August 2017



UN-GGIM

United Nations Committee of Experts on
Global Geospatial Information Management

ggim.un.org



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WG-Disasters

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 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.





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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.

Provide a forum for dialogue and coordination among member states, UN system, DRR organizations etc.

Improve the availability, accessibility and timeliness of good quality geospatial information for DRR

Encourage greater coordination and collaboration on geospatial information activities for DRM

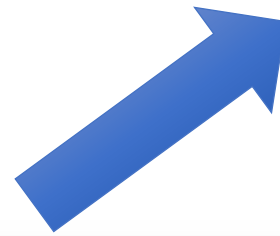


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Strategic Framework on Geospatial Information and Services for Disasters



Five Priorities for Action



Governance and Policies



Awareness Raising and Capacity Building



Data Management



Common Infrastructure and Services



Resource Mobilization

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:

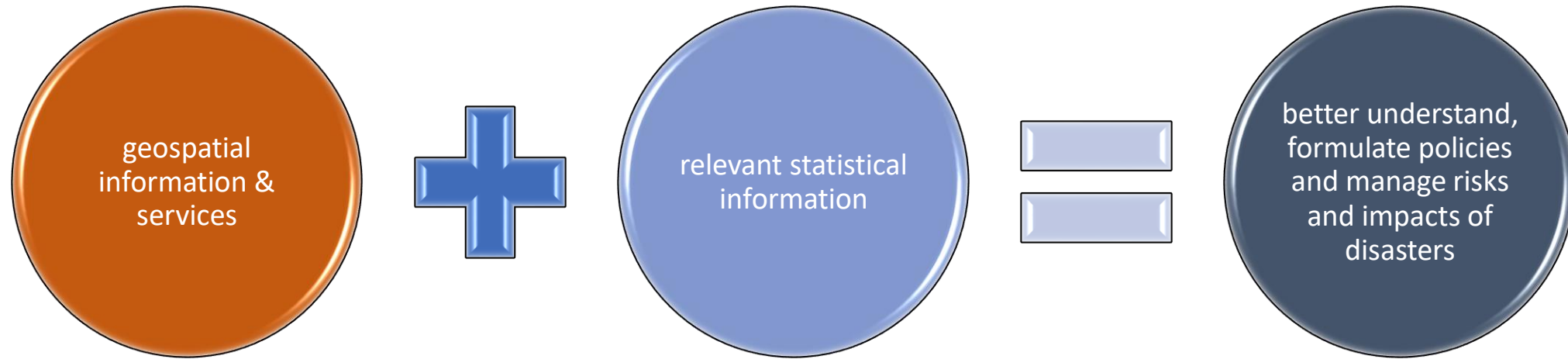
| Priority 1 Governance and Policies | Priority 2 Awareness Raising and Capacity Building | Priority 3 Data Management | Priority 4 Common Infrastructure and Services | Priority 5 Resource Mobilization |
|---|---|--|--|--|
| Policies, collaborative agreements and legal frameworks aiming at improving 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

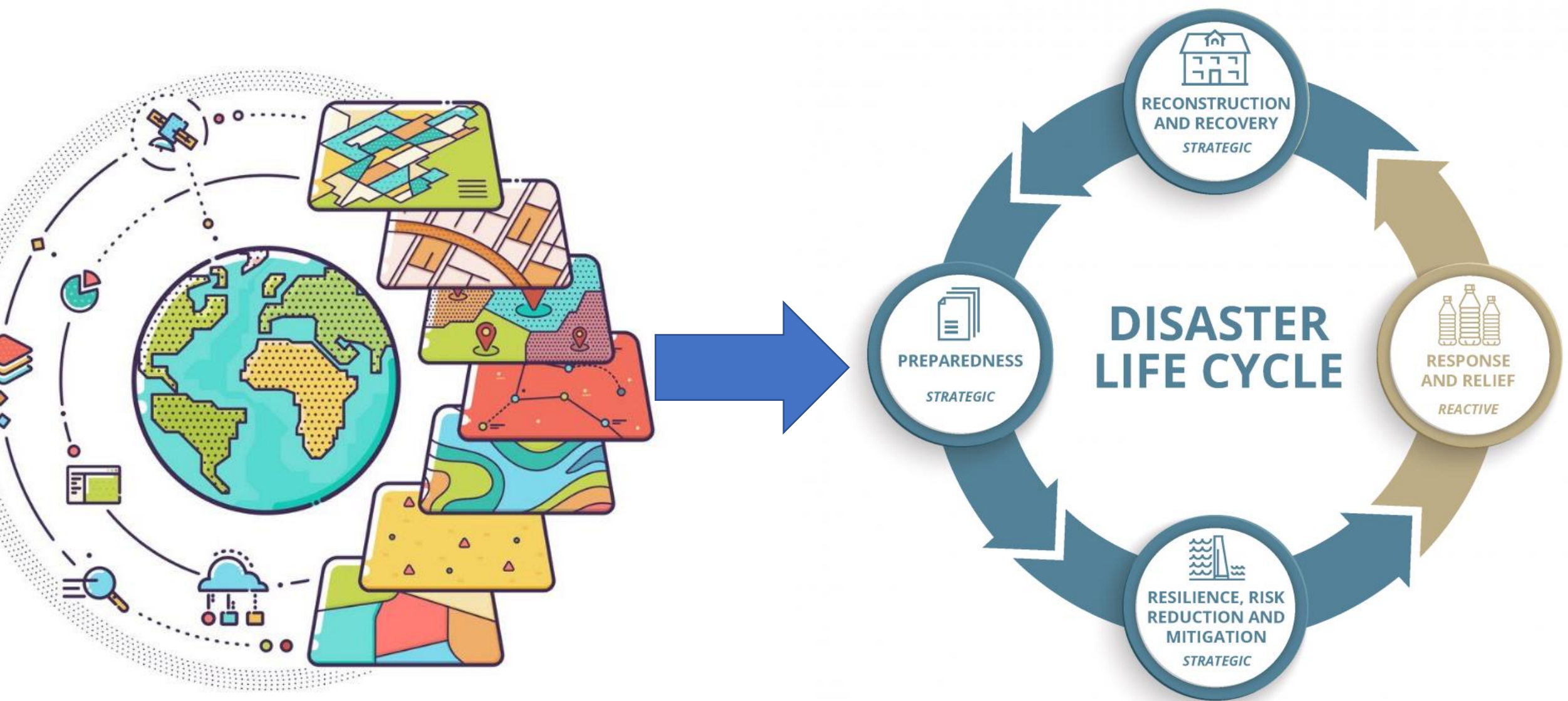
The strategic framework is guided by the 2030 Agenda for Sustainable Development, International Strategy for Disaster Reduction, Sendai Framework for Disaster Risk Reduction 2015-2030, UN General Assembly resolution on international cooperation on humanitarian assistance in the field of natural disasters, 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 Statement of Shared Principles for the Management of Geospatial Information.

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.

Use of:



Member States



https://disasterphilanthropy.org/wp-content/uploads/2016/08/Disaster-life-cycle_designed_2020-edit-1-e1617300681628.png



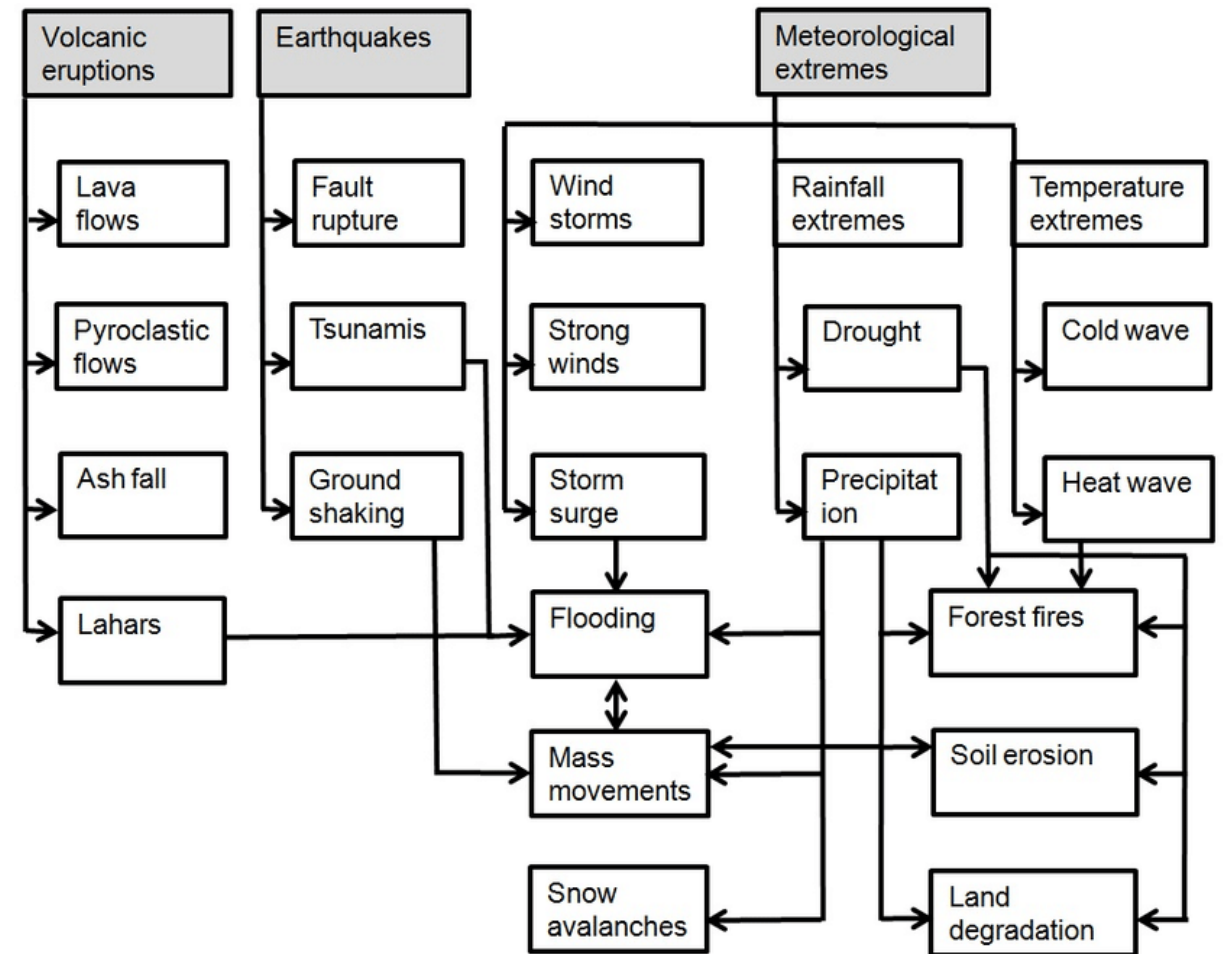
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Geospatial Information integrally supports:

- Mapping and understanding of hazards
- Monitoring and forecasting of upcoming hazard events
- Processing and disseminating understandable warnings to political authorities and the public
- Making appropriate and timely actions in response to alerts
- Conducting modelling of potential impact and analysis of actual disaster impacts
- Strategizing appropriate response activities



https://www.researchgate.net/figure/Examples-of-multi-hazards-and-their-interactions-required-for-multi-hazard-risk_fig2_285929471



2020 – 2030

DECADE OF ACTION



UN-GC
EUROPEAN UNION

Examining disasters is fundamental to achieving the SDGs





CARIGEO

Caribbean Geospatial
Development Initiative

GEO-EMPOWERING THE CARIBBEAN

an Initiative implemented by the Americas Regional Committee of United Nations Committee of Experts on Global Geospatial Information Management (UN-GGIM: Americas)



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Caribbean GeoPortal

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

Caribbean GeoPortal Data Tools Learn Map About Us

The Caribbean GeoPortal

Inspiring communities through geography

COVID-19 Resources for the Caribbean are now available.

Caribbean COVID-19 Response

Why does geography matter?

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.

Join the community now and start mapping today!



“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

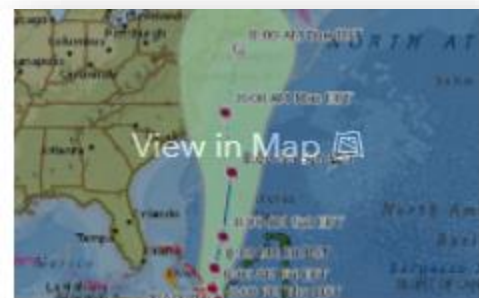
President and Founder of Esri

The Caribbean GeoPortal

Inspiring communities through geography

- An **open mapping community** for the Caribbean
 - **Data** by Esri, Partners, Governments, other authoritative producers and the Community e.g., NOAA, NASA
 - **Analytical tools** for spatial data
 - Hands on **software training**
 - **Publish your own data** online
 - **Field data collection tools**
 - **Configurable web applications**

Supporting Disaster Response in the Caribbean



Tropical Cyclones - Watches, Warnings, and Track/Intensity Forecasts

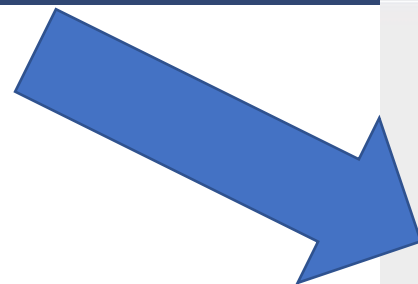
Map Image Layer by
NOAA.GeoPlatform

Map displaying the latest
NWS/National Hurricane Center
(NHC) and Central Pacific
Hurricane Center (CPHC) tropical
storm and hurricane infor...

[View item details](#)



The latest NWS/National Hurricane Center (NHC) and Central Pacific Hurricane Center (CPHC) tropical storm and hurricane information



 Disaster Response

Hurricane and Cyclone Information

This map contains live feed sources for hurricane path and forecast path of tropical activity from the National Hurricane Center and Joint Typhoon...

 Disaster Response

Earthquake Information

Map containing live feed sources for earthquakes with a magnitude 3.5 or greater during the past 90 days.

 Recent Global Earthquakes

This web app presents recent global information from the U.S. Geological Survey.

Better Understand and Prepare for Hurricane Season



Hurricane season has arrived!

Learn how to create a hurricane map, plan for emergency response and view live hurricane data in this curated set of follow step by step lessons to help you better understand and prepare for this year's hurricane season.

This nine step lesson plan will teach you the skills to use data and tools available in the Haiti GeoPortal to build maps, analyze time data, determine levels of risk, effectively allocate resources, and collect and report on damage assessments.





EARTH SCIENCE
APPLIED SCIENCES

[ABOUT](#)

[WHAT WE DO](#)

[OUR IMPACT](#)

NEWS

Caribbean GeoPortal Integrates NASA Geospatial Products

PROGRAM AREA: [DISASTERS](#)

REGION: [NORTH AMERICA](#)

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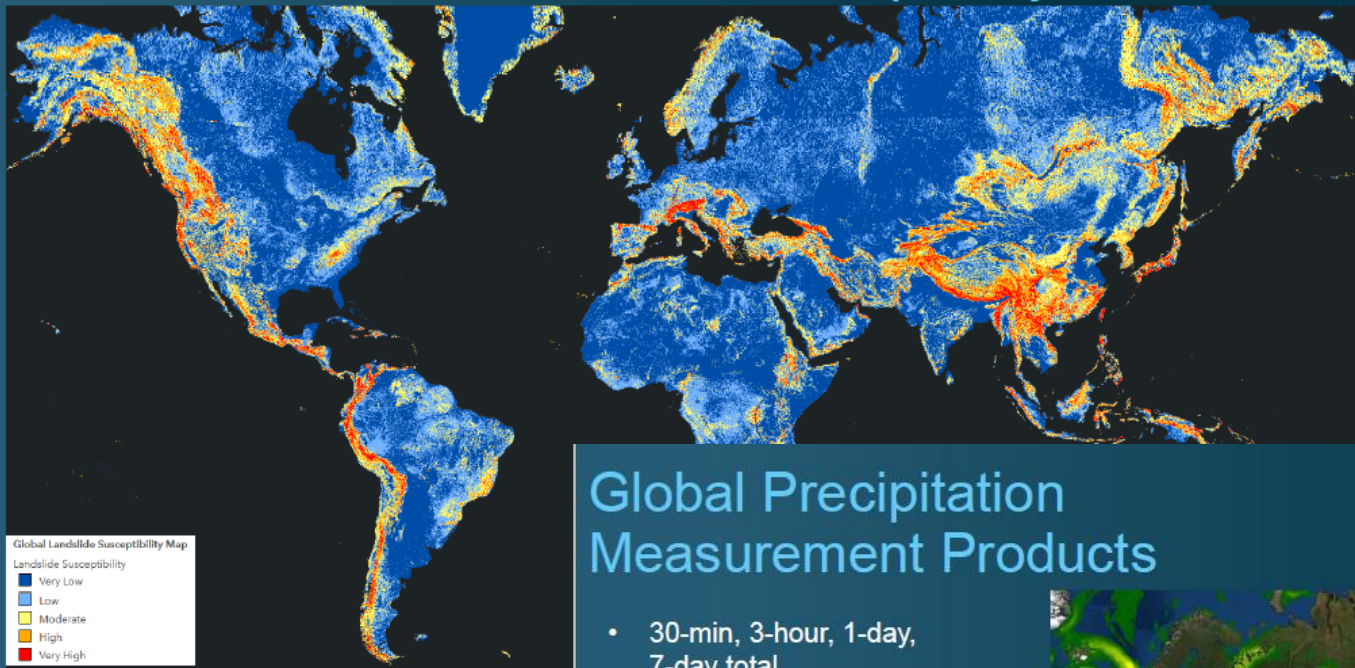


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Global Landslide Susceptibility



NASA Data Products
Jeremy Kirkendall, Garrett Layne, Robert Emberson, Sean McGinnis

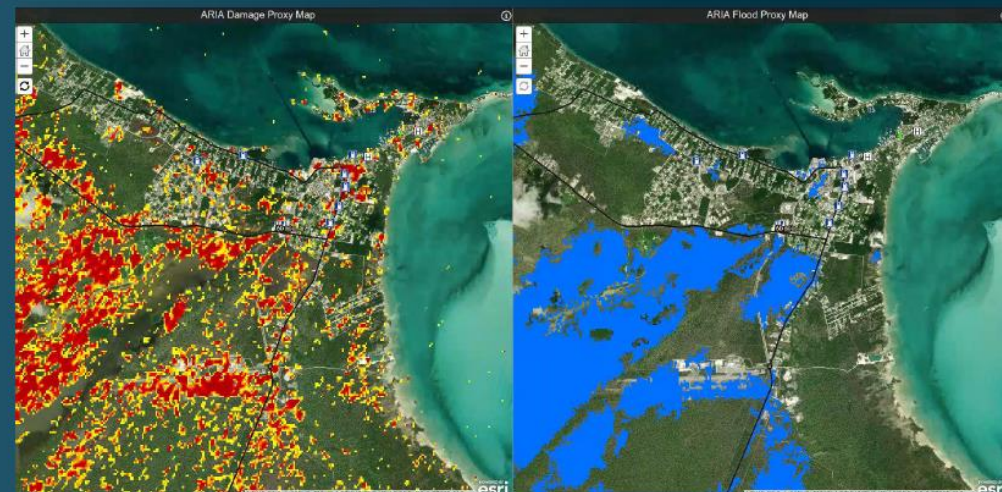
Global Precipitation Measurement Products

- 30-min, 3-hour, 1-day, 7-day total accumulations
- Resolution: 0.1 degrees
- Updated every 3 hours



Show What's Possible

- Damage and Flood Proxy Maps
- Resolution: 30m
- SAR-based change detection
- Combine with infrastructure data to show potentially damaged or flooded assets



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Strategic Framework Assessment Results - Europe



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Global Survey Administration



The survey was prepared as an online form and circulated to the UN-GGIM Member States and observers from June - October 2020.



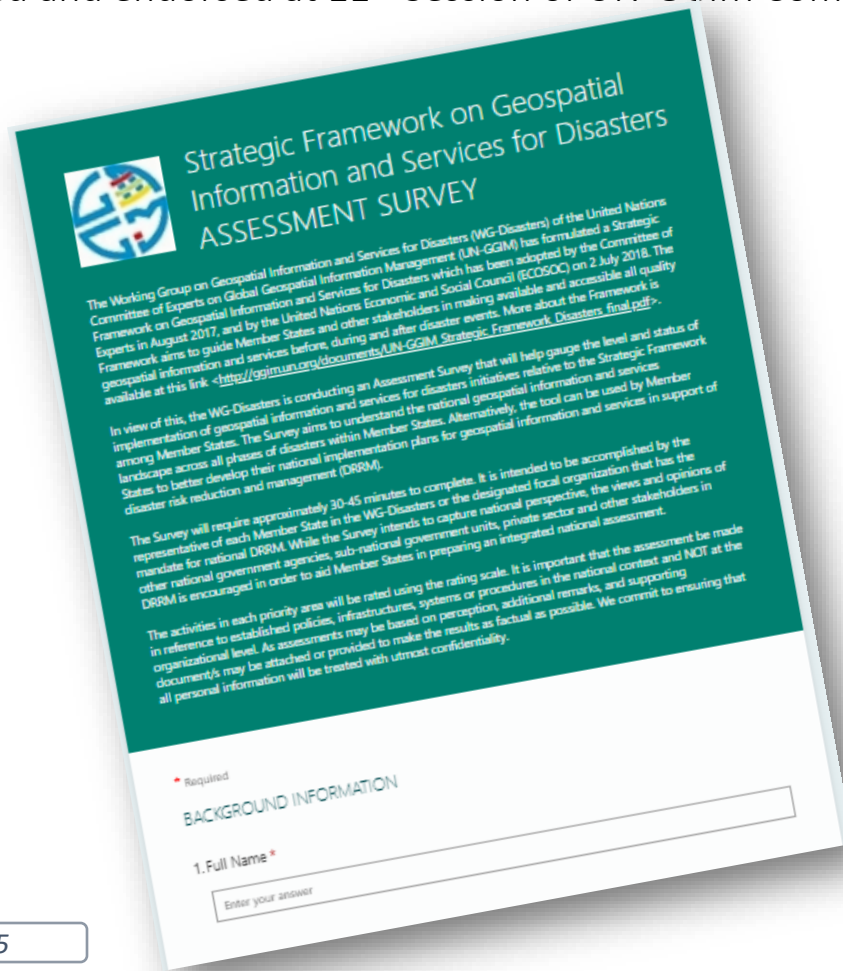
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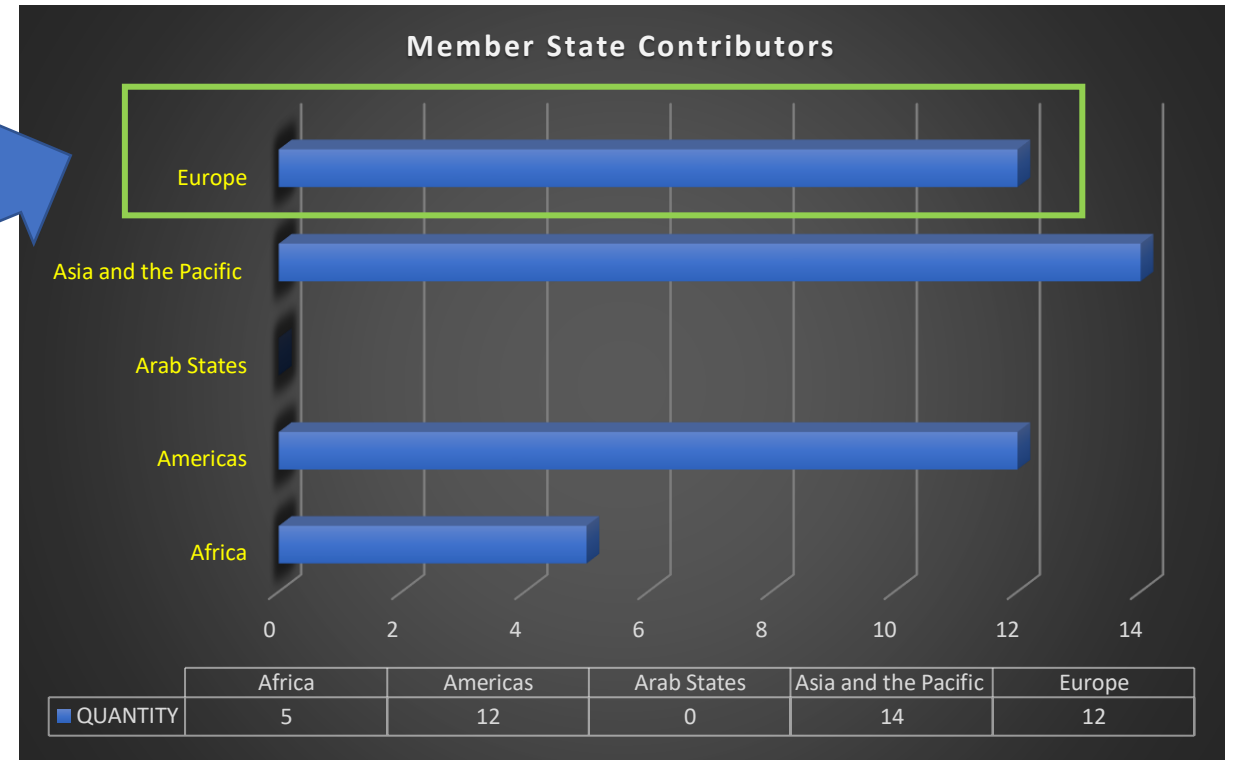
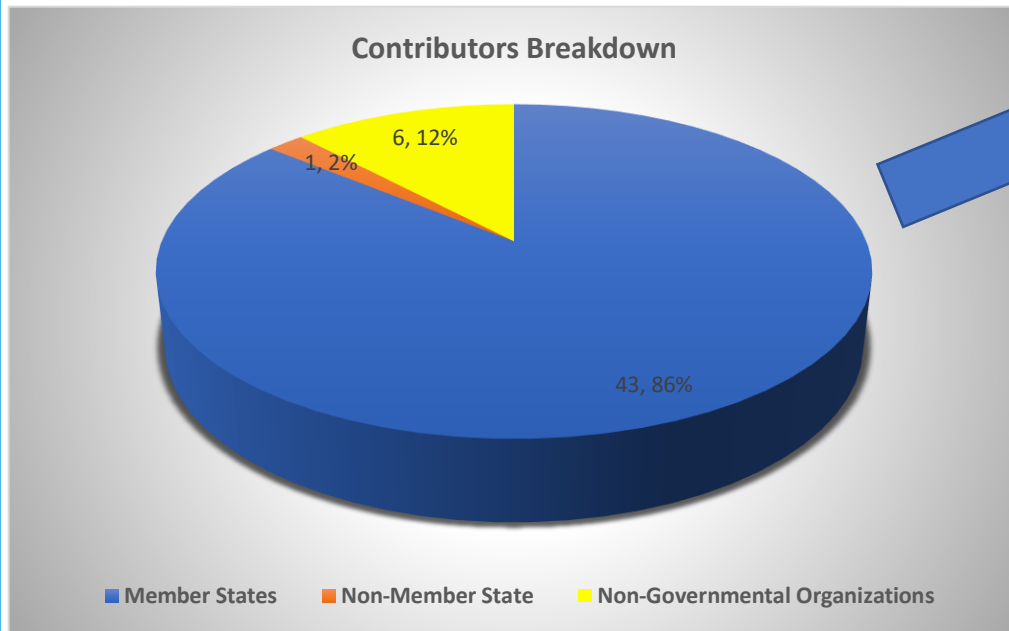


Global Survey Administration

- Global Administered Assessment Survey (July - Oct 2020)
- Background Paper: “Assessment 2020 Results - Strategic Framework on Geospatial Information & Services for Disasters”.
- <https://ggim.un.org/meetings/GGIM-committee/11th-Session/documents/Assessment-Results-2020-Strategic-Framework-dr.1.pdf>
- Presented and endorsed at 11th Session of UN-GGIM Committee of Experts



Analysis Process



The analysis was undertaken using the 43 responses from Member States and assessment executed for three regions namely the Americas, Europe and Asia and the Pacific. Analysis was not undertaken for Africa given the low number responses received that would not allow for a true representative sample and related results. No responses were received from the Arab States.



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Assessment Survey Analysis Focus Areas

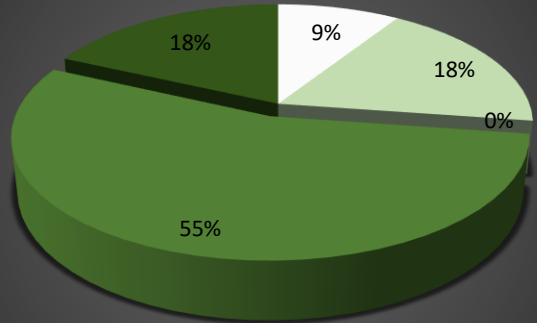
| Priority Area | Focus Areas |
|---------------|---|
| A | 1. Political Support |
| | 2. Financial Support |
| | 3. Champion Identified |
| | 4. Monitoring & Evaluation Program Implemented to track Country's Progress |
| B | 1. Geospatial information and services are translated into easily understood strategies and tools |
| | 2. GI & Services integrated in Academic Programs |
| | 3. DRM-related researches using GI & Services are initiated and managed |
| | 4. Training programs on the use of GI & Services |
| C | 1. Existence of a common and accessible database system |
| | 2. National and local DRM plans include hazard, vulnerability and disaster risk assessment maps, etc. |
| | 3. A common contact database of national and local emergency responders |
| | 4. Data management guidelines incorporates key factors |
| D | 1. A common infrastructure and facility, particularly a national operations center is established |
| | 2. A backup facility for online and offline access to geospatial data |
| | 3. Interoperability of all systems and processes in DRM organizations |
| E | 1. DRM organizations are sensitized on the necessity of funding GI & Services for DRM |
| | 2. The private sector encouraged to invest in GI & Services for DRM |
| | 3. Funding support easily accessible for implementation of the five priorities for action |
| | |



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Political Support (Europe)



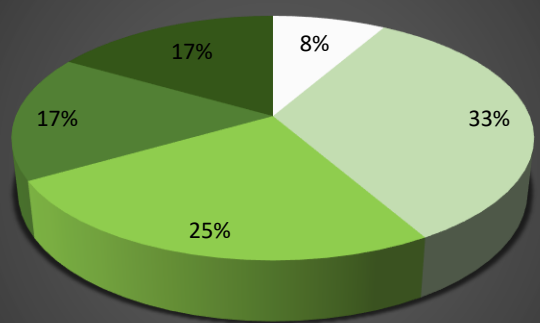
■ Score 1 ■ Score 2 ■ Score 3 ■ Score 4 ■ Score 5

Priority 1:



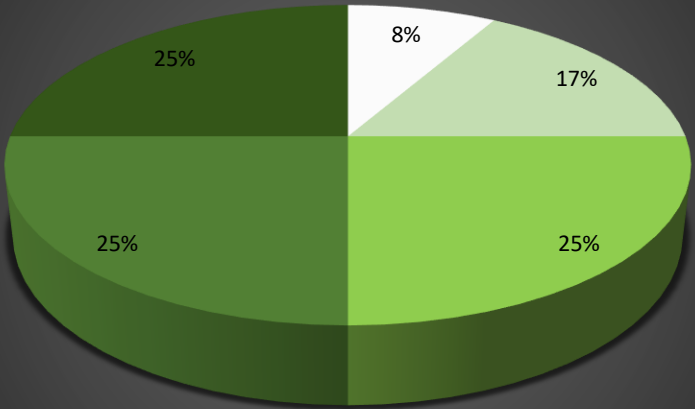
Governance and Policies

Financial Support (Europe)



■ Score 1 ■ Score 2 ■ Score 3 ■ Score 4 ■ Score 5

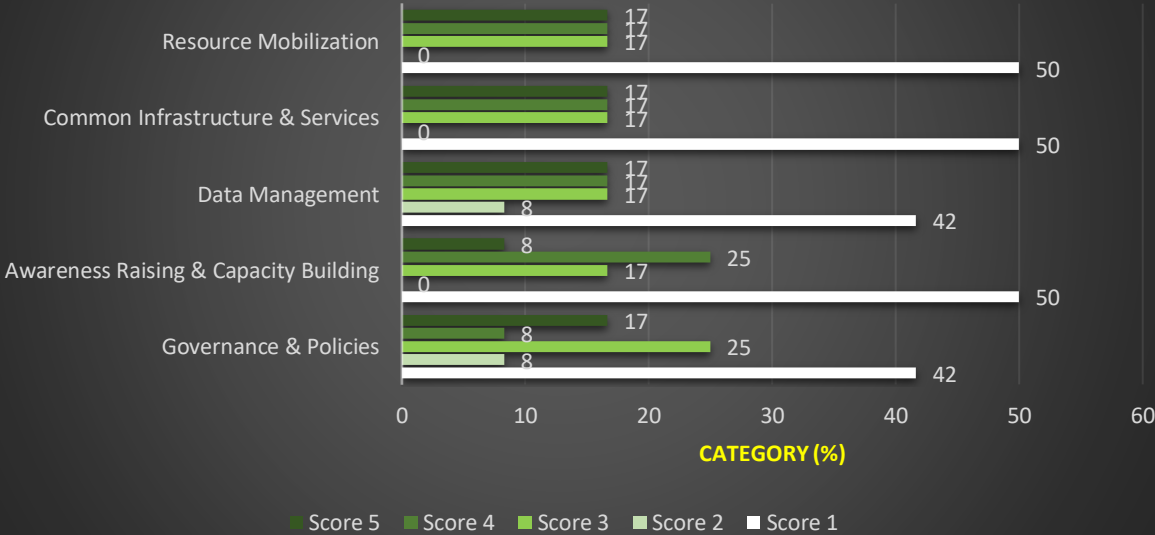
Champion Identified (Europe)



■ Score 1 ■ Score 2 ■ Score 3 ■ Score 4 ■ Score 5

Monitoring & Evaluation Program Implemented to track Country's Progress (Europe)

PRIORITY ACTION AREAS

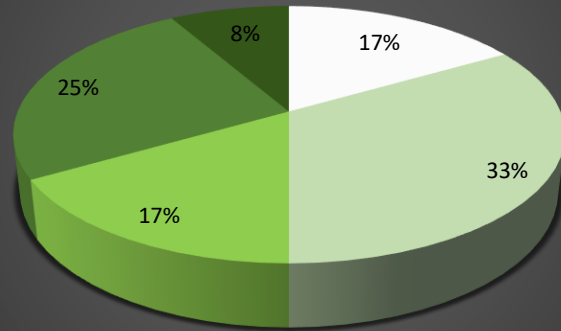


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GI & Services integrated in Academic Programs (Europe)



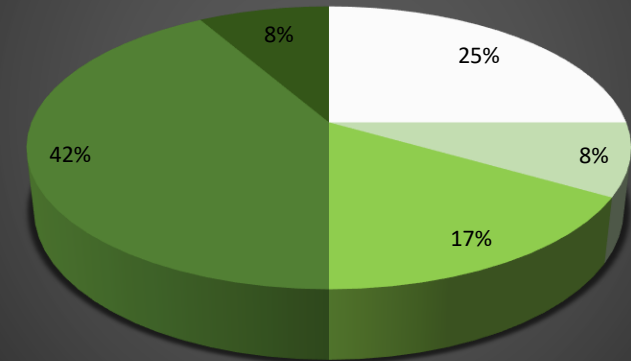
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Priority 2:



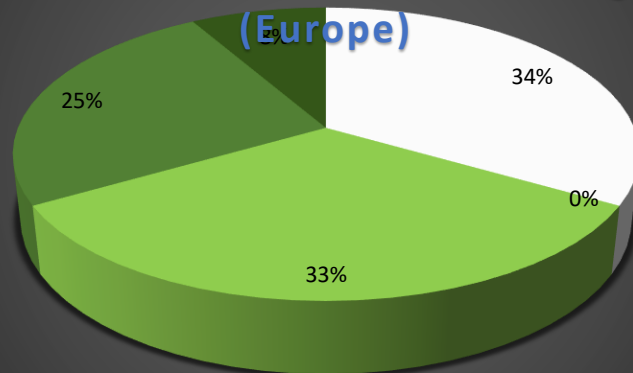
Awareness Raising and Capacity Building

Geospatial information and services are translated into easily understood strategies and tools (Europe)



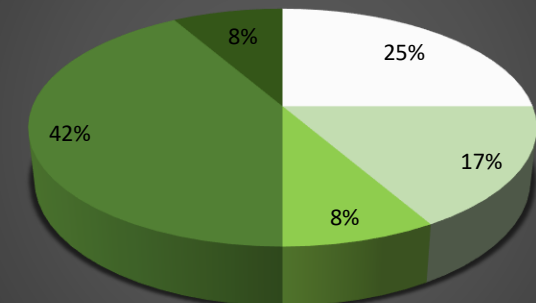
■ Score 1 ■ Score 2 ■ Score 3 ■ Score 4 ■ Score 5

DRM-related researches using GI & Services are initiated and managed (Europe)



■ Score 1 ■ Score 2 ■ Score 3 ■ Score 4 ■ Score 5

Training programs on the use of GI & Services (Europe)



■ Score 1 ■ Score 2 ■ Score 3 ■ Score 4 ■ Score 5

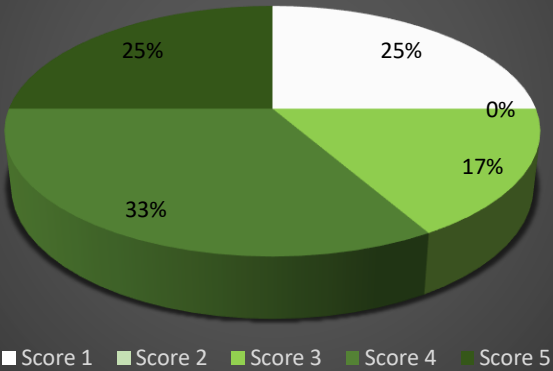


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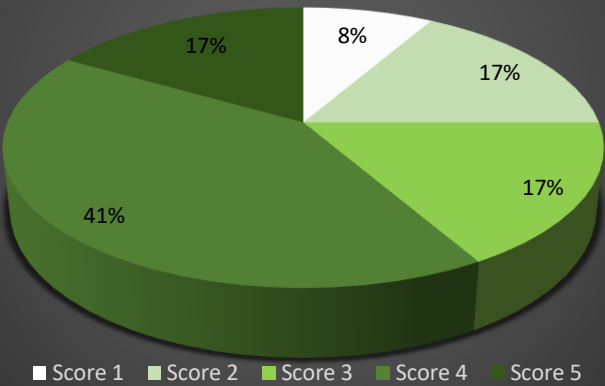
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Existence of a common and accessible database system (Europe)



National and local DRM plans include hazard, vulnerability and disaster risk assessment maps, etc.(Europe)

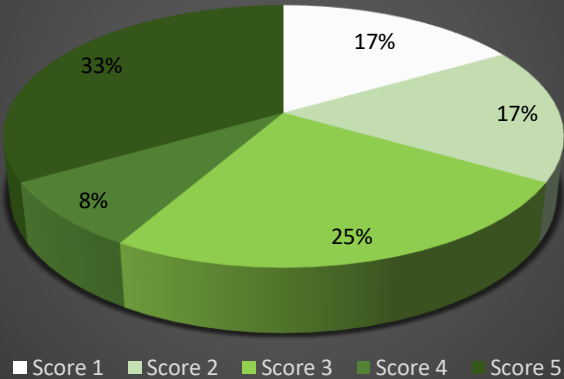


Priority 3:

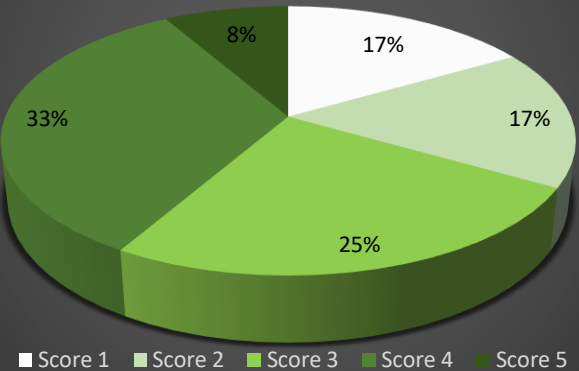


Data Management

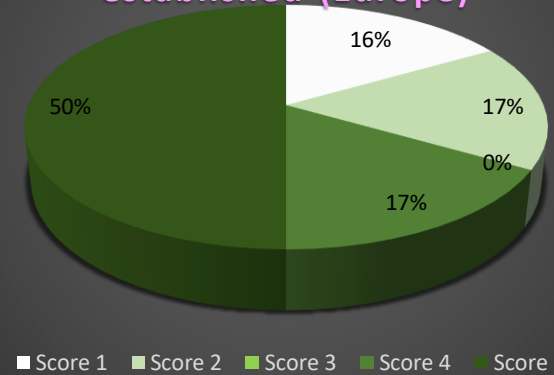
A common contact database of national and local emergency responders (Europe)



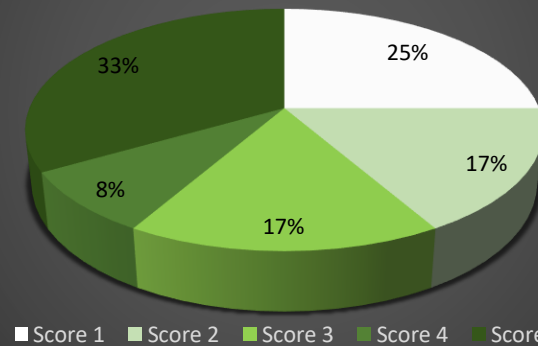
Data management guidelines incorporates key factors (Europe)



A common infrastructure and facility,
particularly a national operations center is
established (Europe)



A backup facility for online and offline
access to geospatial data (Europe)

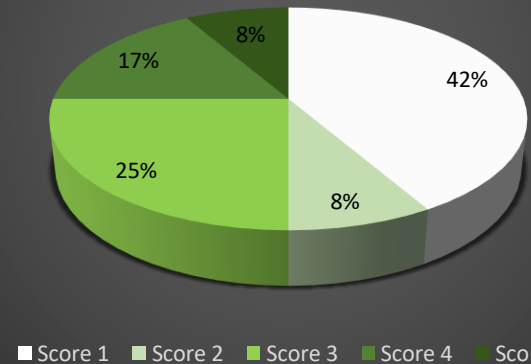


Priority 4:



Common
Infrastructure and
Services

Interoperability of all systems and
processes in DRM organizations
(Europe)

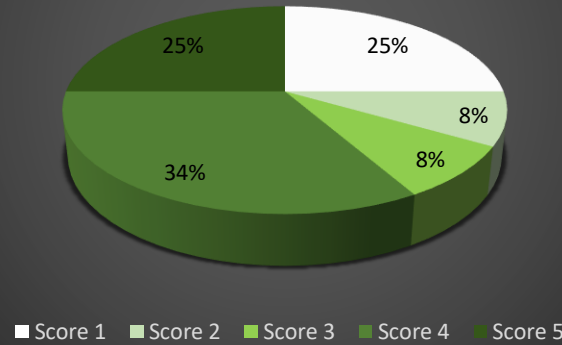


UN-GGIM: EUROPE

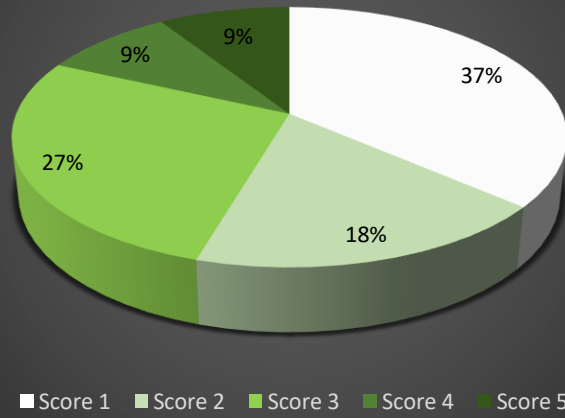
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DRM organizations are sensitized on the necessity of funding GI & Services for DRM (Europe)



The private sector encouraged to invest in GI & Services for DRM (Europe)

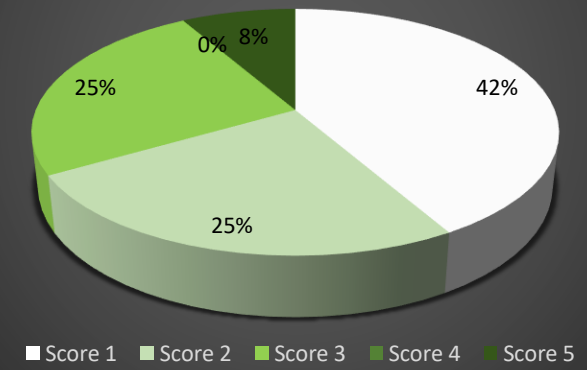


Priority 5:



Resource Mobilization

Funding support easily accessible for implementation of the five priorities for action (Europe)



UN-GGIM: EUROPE

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Engaging Europe's Support



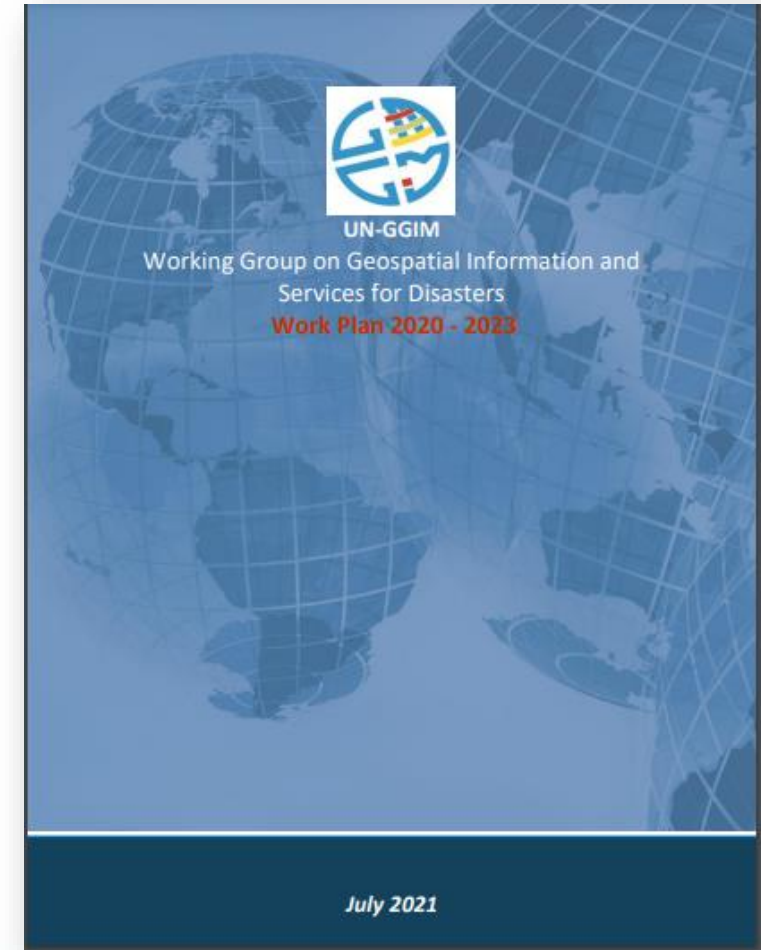
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INFORMATION MANAGEMENT



UN-GGIM WG Disasters Workplan 2020 - 2023 Execution

| GOAL 1 | GOAL 2 | GOAL 3 | GOAL 4 |
|--|---|--|--|
| Foster Communication and Awareness Raising | Implement the Strategic Framework for Disasters | Design and prepare scenario-based exercises on different hazards | Provide a forum for dialogue, coordination and capacity building |



Europe's Support

- Support of European members of the WG and European member states and bodies in collaboration initiatives and execution of workplan goals and activities.
- Good practices within Europe can support knowledge sharing in countries within the region and in other regions.
- Europe's good results/progress in identified priority areas needed to support work to implement the Strategic Framework in countries where there is a need.



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UN-GGIM WG Disasters - DRR inventories



2:59 AM

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INFORMATION MANAGEMENT

UN-GGIM WORKING GROUP DISASTERS:
"DRR Geospatial Information & Services Platforms Inventory"

Please assist us by filling in details regarding Disaster Risk Reduction geospatial information and services platforms that are in existence.

1. Disaster Geospatial Information & Services Platform/Resource Name*

2. Platform Website*

3. Image of Platform Home Page



3:29 AM

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INFORMATION MANAGEMENT

UN-GGIM WORKING GROUP DISASTERS:
"DRR Organizations Inventory"

Please assist us by filling in details regarding Disaster Risk Reduction organizations that are in existence.

1. Disaster Risk Reduction Organization (Name & Acronym)*

2. Organization Website*

3. Image of Organization Home Page

4. Mandate/Aim/Goal*

- Two surveys were developed for administration to facilitate the development and maintenance of inventory hubs to be hosted on UN-GGIM WG Disasters webpage.
- **Developed:** June 2021
- **Administration:** proposed for post 11th UN-GGIM Session
- **Needed:** Support of Europe to complete the DRR Surveys during global consultation process.



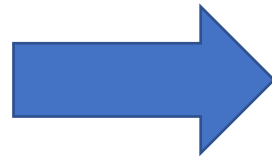
2020 – 2030

DECADE OF ACTION

UN-GGIM Working Group on
Geospatial Information and Services
for Disasters



**"Geospatial Data Driving
DRRM during the Decade of
Action"**



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October 13, 2021

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