Session 8: Strategic Framework for Geospatial Information and Services for Disasters

“Global Perspective: UN-GGIM WG Disasters”

Simone M. Lloyd, GISP
Jamaica Co-Chair Support and Task Groups Lead, UN-GGIM WG Disasters

Wednesday November 30, 2022
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.
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

Aligned

Provides Member States with concrete actions to protect development gains from the risk of disaster.
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.
Jamaica and Japan both co-chair the United Nations Global Geospatial Information Management (UN-GGIM) Working Group 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.

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
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:**

- geospatial information & services
- relevant statistical information

= Member States

better understand, formulate policies and manage risks and impacts of disasters
UN-GGIM WG Disasters Workplan 2020 - 2023 Execution

## UN-GGIM WG Disasters Workplan 2020 - 2023 Execution

### GOAL 1
- Foster Communication and Awareness Raising

### GOAL 2
- Implement the Strategic Framework for Disasters

### GOAL 3
- Design and prepare scenario-based exercises on different hazards

### GOAL 4
- Provide a forum for dialogue, coordination and capacity building

<table>
<thead>
<tr>
<th>Task Group A</th>
<th>Task Group B</th>
<th>Task Group C</th>
<th>Task Group D</th>
</tr>
</thead>
<tbody>
<tr>
<td>Lead: Jamaica</td>
<td>Lead: Japan</td>
<td>Lead: Jamaica</td>
<td>Lead: New Zealand</td>
</tr>
<tr>
<td>Implementation and monitoring of the Strategic Framework</td>
<td>Design and implementation of scenario-based exercises</td>
<td>Foster communication and awareness raising</td>
<td>Support the use of the Integrated Geospatial Information Framework</td>
</tr>
</tbody>
</table>

Task Groups

› Group A
Japan, Jamaica, New Zealand, ESRI, UN-GGIM Academic Network

› Group B
China, Japan, Sweden, Uzbekistan, UNESCAP, UNITAR-UNOSAT, GEO DRR WG, CEOS WG Disaster, MapAction, GeoThings, CSIRO

› Group C
Jamaica, Japan, UN-GGIM Academic Network, CIESIN, CEOS WG Disaster

› Group D
New Zealand, Japan, Mozambique, Philippines, Poland, Thailand, UNESCAP, GEO, GeoThings
GOAL 1: FOSTER COMMUNICATION AND AWARENESS RAISING
WG Infographics

• Available on WG webpage:
  https://ggim.un.org/documents/GGI
  M-Framework-
  Disasters_Annex1%20.pdf
UN-GGIM Strategic Framework on Geospatial Information and Services for Disasters

SUMMARY OF UN-GGIM AND PURPOSE OF THIS ANNEX

The work of the United Nations Committee of Experts on Global Geospatial Information Management (UN-GGIM) addresses global challenges using geospatial information, including development agendas, such as the 2030 Agenda.

Key geospatial policy, coordination and capacity building frameworks and outputs developed by the Committee of Experts with support from its Secretariat, include the Strategic Framework on Geospatial Information and Services for Disasters (SF-GISD).

Key priorities for action

- Governance and Policies
- Awareness Raising and Capacity Building
- Data Management
- Common Infrastructure and Services
- Resource Mobilization

SCOPE AND PURPOSE

Provides guidance for the management of Geospatial information and services in all phases of DRM.

EXPECTED OUTCOME

Prepared or reduced social, economic, and environmental risks and impacts

GOALS

Geospatial information and services are:
- Accurate
- Available
- Timely
- Current
- Accessible
- Coordinated

Support decision making and operations among all stakeholders, across all sectors and phases of DRM.

This Annex is intended to accompany the SF-GISD – and represents a summarization of some of the highlights of that document.

FIGURE 1
OVERVIEW OF THE STRATEGIC FRAMEWORK FOR DISASTERS

The United Nations Committee of Experts on Global Geospatial Information Management (UN-GGIM) in the apex intergovernmental mechanism for making joint decisions and setting directions on the production, availability and use of geospatial information (G) within national, regional and global policy frameworks, and to develop effective strategies for building and strengthening geospatial information capacity, especially of developing countries. UN-GGIM supports countries to have access not only to more comprehensive and accurate data, but also to make their information systems more integrated, interoperable and accessible to support national to global development.

The Strategic Framework on Geospatial Information and Services for Disasters – published August 2017 – can be downloaded here:


Other UN-GGIM Frameworks and publications are available here:

https://ggim.un.org/UN-GGIM-publications/
**UN-GGIM Strategic Framework on Geospatial Information and Services for Disasters**

**Expected Outcome:**
Prevented or reduced social, economic, and environmental risks and impacts

**Goals:**
Geospatial Information and services are:
- Accurate
- Available
- Timely
- Current
- Accessible
- Coordinated

To support decision making and operations among all stakeholders, across all sectors and phases of DRRM

**Scope and Purpose:**
Provides guidance for the management of Geospatial Information and services in all phases of DRRM

**Priorities for Action:**
1. Governance and Policies
2. Awareness Raising and Capacity Building
3. Data Management
4. Common Infrastructure and Services
5. Resource Mobilization

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1 Disaster risk reduction and management (DRRM)
## Priorities for Action

1. Governance and Policies
2. Awareness Raising and Capacity Building
3. Data Management
4. Common Infrastructure and Services
5. Resource Mobilization

<table>
<thead>
<tr>
<th>Priorities</th>
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<td>National and Local Levels</td>
<td>Global and Regional Levels</td>
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<td>---------------------------------------------------</td>
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<tr>
<td>&gt; Political and financial support</td>
<td>&gt; Collaboration, coordination and partnership</td>
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<td></td>
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<tr>
<td>&gt; A champion and/or national entity</td>
<td>&gt; Mutual learning and exchange of good governance policies and practices</td>
<td></td>
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<tr>
<td>&gt; Open channels of communication</td>
<td>&gt; Share technical knowledge</td>
<td></td>
<td></td>
<td></td>
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<tr>
<td>&gt; Situational assessment and analysis</td>
<td>&gt; Assessment of availability, accessibility and usage</td>
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<tr>
<td>&gt; Plans and programmes</td>
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</tr>
<tr>
<td>&gt; Laws and policies</td>
<td></td>
<td></td>
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<td></td>
<td></td>
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<tr>
<td>&gt; Monitoring and evaluation</td>
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</table>
## PRIORITY 2 — AWARENESS RAISING AND CAPACITY BUILDING

### National and Local Levels
- Easily understood language
- Inclusion in academic programmes
- Lead research endeavours
- Multilevel demand-driven training programmes
- Campaigns and simulation exercises
- Spatial Data Infrastructures and open data platforms
- Laws, policies and institutional gaps

### Global and Regional Levels
- Long-term plan on multi-sectoral and multi-level capacity building
- Data and information management training
- Studies, research and models
- Benchmark best practices
### PRIORITY 3 – DATA MANAGEMENT

<table>
<thead>
<tr>
<th>National and Local Levels</th>
<th>Global and Regional Levels</th>
</tr>
</thead>
<tbody>
<tr>
<td>&gt; Common and accessible database system</td>
<td>&gt; Open sharing of data mechanisms</td>
</tr>
<tr>
<td>&gt; Hazard, vulnerability and disaster risk assessment maps</td>
<td>&gt; Developing global datasets</td>
</tr>
<tr>
<td>&gt; Emergency responders common contact database</td>
<td>&gt; Converge and collaborate with relevant government agencies</td>
</tr>
<tr>
<td>&gt; Registry of all international humanitarian response/assistance organizations</td>
<td>&gt; Common operational pictures of disaster events</td>
</tr>
<tr>
<td>&gt; Humanitarian profiling and event or incident scenario building</td>
<td>&gt; Data management guidelines</td>
</tr>
<tr>
<td>&gt; Business use cases and data/information product templates</td>
<td>&gt; Best practices, established standards, protocols and processes</td>
</tr>
<tr>
<td>&gt; Common operational pictures of disaster events</td>
<td></td>
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<tr>
<td>&gt; Data management policies</td>
<td></td>
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<tr>
<td>&gt; Integrating geospatial data and statistics</td>
<td></td>
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<tr>
<td>&gt; Laws, policies and institutional gaps</td>
<td></td>
</tr>
<tr>
<td>&gt; Open Data community and government</td>
<td></td>
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</tbody>
</table>
### PRIORITY 4 — COMMON INFRASTRUCTURE AND SERVICES

<table>
<thead>
<tr>
<th>National and Local Levels</th>
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</thead>
<tbody>
<tr>
<td>A common infrastructure and facility</td>
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<tr>
<td>Common support services</td>
</tr>
<tr>
<td>Interoperability of all systems and processes</td>
</tr>
<tr>
<td>Integrity maintained for established common infrastructures and services</td>
</tr>
<tr>
<td>Laws, policies and institutional gaps</td>
</tr>
<tr>
<td>New geospatial information management technologies</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Global and Regional Levels</th>
</tr>
</thead>
<tbody>
<tr>
<td>Common infrastructure and services</td>
</tr>
<tr>
<td>Interoperability of systems and processes and share best practices</td>
</tr>
<tr>
<td>Establishment of regional geoportals for Disaster Risk Reduction and Management</td>
</tr>
</tbody>
</table>
## PRIORITY 5 — RESOURCE MOBILIZATION

<table>
<thead>
<tr>
<th>National and Local Levels</th>
<th>Global and Regional Levels</th>
</tr>
</thead>
<tbody>
<tr>
<td>Funding the acquisition, maintenance and updating of Geospatial Information</td>
<td>Grants, loans and other forms of financial support</td>
</tr>
<tr>
<td>Prioritize funding for the conduct of related research, development and extension activities</td>
<td>Resource-sharing mechanisms</td>
</tr>
<tr>
<td>Encourage private sectors to invest</td>
<td></td>
</tr>
<tr>
<td>Laws, policies and institutional gaps for all resource mobilization initiatives</td>
<td></td>
</tr>
</tbody>
</table>
Awareness Raising Initiatives
GEO VIRTUAL SYMPOSIUM 2021

Expanding Data Democracy for Disaster Resilience: UN-GGIM WG Disasters & UN-GGIM-Americas CariGEO

Simone Lloyd, GISP
Senior GIS Manager & Trainer, National Spatial Data Management, Branch Jamaica Co-chair support, UN-GGIM WG Disasters & Jamaica focal point, UN-GGIM CariGEO Steering Committee

PARALLEL SESSION: GEO Strategies, Partnerships and Services for Disaster Risk Reduction

Tuesday June 22, 2021

Caribbean GeoPortal Integrates NASA Geospatial Products
7th Regional Meeting of UN-GGIM: Africa

"Geospatial Information and Services for Disasters - The Strategic Framework"

Day 4 - Thursday November 25, 2021
11:00 am - 3:00 pm (UTC/GMT+1) / 6:00 - 9:00 pm (UTC/GMT+4)

"Geospatial Data Driving DRRM during the Decade of Action"

Name: Simone Michelle Buryh, GIISP
Event: UN-GGIM: Europe Session
Date: Wednesday October 13, 2021
The Caribbean GeoPortal

Inspiring communities through geography

https://www.caribbeangeoportal.com/
Caribbean Geoportal Webinar series  
(April - August 2021)
“CARIGEO Webinar 2: Caribbean Geoportal - Disasters”

- Webinar recording available via: [https://www.youtube.com/watch?v=seekUoKUTIA](https://www.youtube.com/watch?v=seekUoKUTIA)

UN-ECLAC Port of Spain DRM Workshops

UN ECLAC DRM Workshop #1:
“Policy Issues Towards Effective Applications of Geospatial Technology & Data in Support of DRM in the Caribbean”

“Supporting Geo-enabled DRM within the Caribbean Region”
Monday August 30, 2021
9:00 - 12:00 am (UTC-04)

UN ECLAC DRM Workshop #2:
“Technical Issues Towards Effective Applications of Geospatial Technology & Data in Support of DRM in the Caribbean”

“UN Global Geospatial Information Management (UN-GGIM) Working Group Disasters”
Monday September 6, 2021
9:00 - 12:00 am (UTC-04)
DRR Inventory Surveys

(113 contributions)

- Two surveys developed for administration to facilitate the development and maintenance of a Global DRR Inventory Hub.
- Global administration of both surveys (June - July 2021)

https://arcg.is/CKPOT

https://arcg.is/1jfGji2
Global Disaster Risk Reduction (DRR) Organizations, Geospatial Information Services and Platforms Inventory Hub

Click icons on the globe to see the information provided.

https://ggim-exercise.github.io/inventory
Official Launch and Demonstration: UN-GGIM Global Disaster Risk Reduction Organization Geospatial Information and Services Hub

Launched at 12th UN-GGIM Session on August 1, 2022
Working Group on Geospatial Information and Services for Disasters

Mandate
The working group was established under decision 5/110 at the fifth session of the Committee of Experts in August 2015 with the mandate to develop and implement a strategic framework that brings all stakeholders and partners involved in Disaster Risk Reduction and/or Emergency Management together to ensure that 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 disaster risk management.

Co-Chairs
Jamaica
Ms. Michelle Edwards
Office of Disaster Preparedness and Emergency Management

Japan
Mr. Shoichi Oki
Geospatial Information Authority of Japan

Annual sessions
- Twelfth session
- Eleventh session
- Tenth session
- Ninth session
- Past sessions

Overview
- Mandates
- Aims and Objectives
- Bureau
- Regional Committees
- Functional Groups
- Thematic Groups
GOAL 2: IMPLEMENT THE STRATEGIC FRAMEWORK FOR DISASTERS
Global Survey Administration

- The survey was prepared as an online form and circulated to the UN-GGIM Member States, and observers in June 2020, with a completion deadline of 2nd October 2020.
Assessment Survey Structure

Five Priorities for Action

- Governance and Policies
- Awareness Raising and Capacity Building
- Data Management
- Common Infrastructure and Services
- Resource Mobilization

Advance the use of Geographic information to support Disaster Risk Reduction in the Member States.

**Assessment Survey Rating Scale**

<table>
<thead>
<tr>
<th>Category</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>5</td>
<td>The initiative is fully implemented in my country</td>
</tr>
<tr>
<td>4</td>
<td>The initiative is currently being implemented in my country, with minor tasks still need to be done</td>
</tr>
<tr>
<td>3</td>
<td>The initiative is currently being implemented in my country, with major tasks still need to be done</td>
</tr>
<tr>
<td>2</td>
<td>The initiative is not yet implemented in my country</td>
</tr>
<tr>
<td>1</td>
<td>Unaware of the initiative, and its implementation in my country</td>
</tr>
</tbody>
</table>
Assessment Results: 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.

- Results were presented during 7th Session of UN-GGIM: Americas (2020)
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.
**Background Paper: “Assessment 2020 Results - Strategic Framework on Geospatial Information & Services for Disasters”**

- 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](https://ggim.un.org/meetings/GGIM-committee/11th-Session/documents/Assessment-Results-2020-Strategic-Framework-dr.1.pdf)
- Global Administered Assessment Survey (July - Oct 2020)
- Published background paper during 11th UN-GGIM Session (Aug-Sept 2021)
Regional Perspective Facilitated

United Nations Committee of Experts on Global Geospatial Information Management (UN-GGIM)

Working Group on Geospatial Information & Services for Disasters (WG Disasters)

“Assessment 2020 Results – Strategic Framework on Geospatial Information and Services for Disasters”

DRAFT
August 2021

Americas
Asia & Pacific
Europe
• Re-open the assessment tool for:

  o re-administration within the **Caribbean region** to support greater response, analysis of results, monitoring and implementation. Responses were analyzed with others of the Americas region, however would like to pursue greater examination for the sub-region. Facilitated with support of UN-ECLAC Port of Spain in 2021-22, however there was low response by Caribbean countries.

  o re-administration in **Africa and Arab States** given very limited or no responses to support greater response, analysis of results, monitoring and implementation. This will be in collaboration with the United Nations Economic Commission for Latin America & the Caribbean (UNECLAC)
Re-administration of the “UN-GGIM Strategic Framework on Geospatial Information and Services for Disasters” Assessment Survey in the Caribbean

• Jointly through UN-GGIM: America’s CARIGEO Steering Committee and UN ELAC (CEPAL & POS), official letters submitted to heads of disaster response/geospatial agencies to support re-administering of Strategic Framework Assessment tool, with a completion date of November 30, 2021.

• Email subject matter: Re-administration of the “UN-GGIM Strategic Framework on Geospatial Information and Services for Disasters” Assessment Survey in the Caribbean

  • Antigua & Barbuda
  • Barbados
  • Bahamas
  • St. Lucia
  • Suriname
  • Belize
  • Grenada
  • St. Kitts and Nevis
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.
Aguascalientes Declaration Joint Action Plan: Disasters Language

- Drafting facilitated by representatives of UN-GGIM WG-Disasters, UN-GGIM: Americas Disasters WG, GEO DRR WG and AmeriGEO Disasters WG in October 2021, for inclusion under the “Communication, Cooperation, and Coordination” section of the Aguascalientes Declaration draft Joint Action Plan at UN-GGIM: Americas 8th Session:

- “Brought together by the Aguascalientes Declaration’s call upon stakeholders to work together to further define joint work strategies and programs, the UN-GGIM WG-Disasters, UN-GGIM: Americas Disasters WG, GEO DRR WG and AmeriGEO Disasters WG convened with the objective of mutually advancing regional integration of geospatial data and Earth observations for Disasters Risk Reduction (DRR) in the Americas. These global and regionally oriented working groups are committed to continued integration of work plan activities through quarterly coordination meetings. Shared priorities will include the improved uptake and use of geospatial, statistical and Earth observation insights by national DRR stakeholder and in particular capacity building, standards setting, awareness raising and making relevant data discoverable.”
GOAL 4:
PROVIDE A FORUM FOR DIALOGUE,
COORDINATION AND CAPACITY
BUILDING
Facilitated knowledge sharing, awareness raising and DRR capacity building initiatives

Webinars executed with CARIGEO on the Caribbean Geoportal

Discussion forums held with UNDRR, NASA, GEO DRR WG, WGIC Disaster Resilience and CEOS WG Disasters etc.

Observer on OGC Disaster Pilot Project
Twelfth Session of the United Nations Committee of Experts on Global Geospatial Information Management (UN-GGIM)

📅 3 - 5 August 2022
Post 12th UN-GGIM Session Update

• UN-GGIM WG Disasters tendered a report to the 12th Session:

• Agenda item #12. Geospatial information and services for disasters

• E-C.20-2022-14-Add_1_Disasters.pdf (un.org)
12th UN-GGIM Report: Key Areas

- Activities of the Working Group
- Implementation of the work plan 2020-2023 - Task Groups
- Increasing awareness of disaster risk management and geospatial information
- The Development of a Global Disaster Risk Reduction Inventory
- Collaboration with other bodies
- Re-administration of the Assessment Survey
- Geospatial Capacity Development Conference on GNSS Applications and Disaster Risk Reduction
- Considerations going forward
Partnerships & Collaborations
Key Partnerships with Disaster-related Bodies

UN-GGIM: Americas Disasters WG

WGIC Disaster Resilience Working Group

GEO DRR WG

AmeriGEO Disasters WG

CEOS WG Disasters

we need your support!
Global UN-GGIM: WG Disasters & UN-GGIM: Americas WG Disasters

- Global UN-GGIM WG Disasters encouraged by renaming of Disasters working group in Americas region and its focus on implementing the Strategic Framework on GI & S for Disasters.
- Looking forward to discussions with new leadership of Americas GISD towards collaboration and coordination throughout Americas region.

<table>
<thead>
<tr>
<th>Current Group</th>
<th>New Denomination (proposed)</th>
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<tbody>
<tr>
<td>Integration of Statistical and Geospatial Information</td>
<td>WG on Global Statistical and Geospatial Framework (GSGF)</td>
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<tr>
<td>Geospatial Data Infrastructure</td>
<td>WG on Integrated Geospatial Information Framework (IGIF)</td>
</tr>
<tr>
<td>Disasters</td>
<td>WG on Strategic Framework for Geospatial Information and Services for Disasters (GISD)</td>
</tr>
<tr>
<td>Geodesy</td>
<td>WG on Geodetic Reference Frame for the Americas (GRFA)</td>
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<td>WG on Geodetic Reference Frame for the Americas (GRFA)</td>
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</tbody>
</table>

**WG - ISGI (Integration of Statistical and Geospatial Information)**

**Objectives**
- **WG**
  - Promote the integration of Statistical and Geospatial information.
  - Promote the use of data and geospatial information in decision-making and public policy design.
  - Develop and implement standards that facilitate and ensure the quality of Statistical and Geographical integration.

**WG - Disasters (Disasters)**

- Geospatial information and services for disasters: implement the Strategic Framework for Geospatial Information and Services (Gisd) proposed by the UNGGIM Committee of Experts.

**WG - SDI (Spatial Data Infrastructures)**

- Diagnose SDI in the region.
- Design evaluation and monitoring tools regarding the state of progress of the IDE.
- Disseminate initiatives and good regional practices in matters of SDI, generating a base guideline document.
- Promote instances of training and improvement in the region regarding different components of the SDI.

**WG - GRFA (Geodetic Reference Frame for the Americas)**

- Improve the governance structure.
- Strengthen the geodetic capacities of professionals and technicians.
- Promote the open exchange of geodetic data.
- Establish and maintain the Geodetic Reference Frame of the Americas.
- Develop communication and outreach programs.
Thank You!