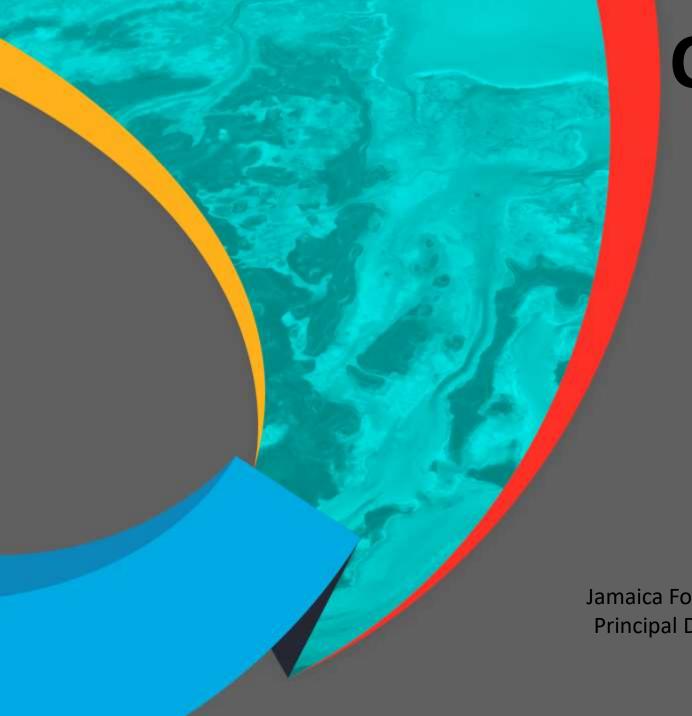


### FIG WORKING WEEK 2023

SMALL ISLAND DEVELOPING STATES (SIDS) WORKSHOP



Monday May 29, 2023 11:30 - 13:00 am (GMT-4) Nassau, Hilton/Waldorf, Signia by Hilton Bonnet Creek, Orlando - Florida



# **CARIGEO** Initiative



#### Simone M. Lloyd, GISP

Jamaica Focal Point & Caribbean Vocal: UN-GGIM & UNGGIM Americas Principal Director (Acting), National Spatial Data Management Branch Ministry of Economic Growth & Job Creation



# SMALL ISLAND DEVELOPING STATES(SIDS) WORKSHOP Serving Society for the benefit of people and planet; Facing the global challenges in Small Island Developing States: The Role of Land Professionals



# Outline

Caribbean Context

CARIGEO Background & Achievements

Scope of Work

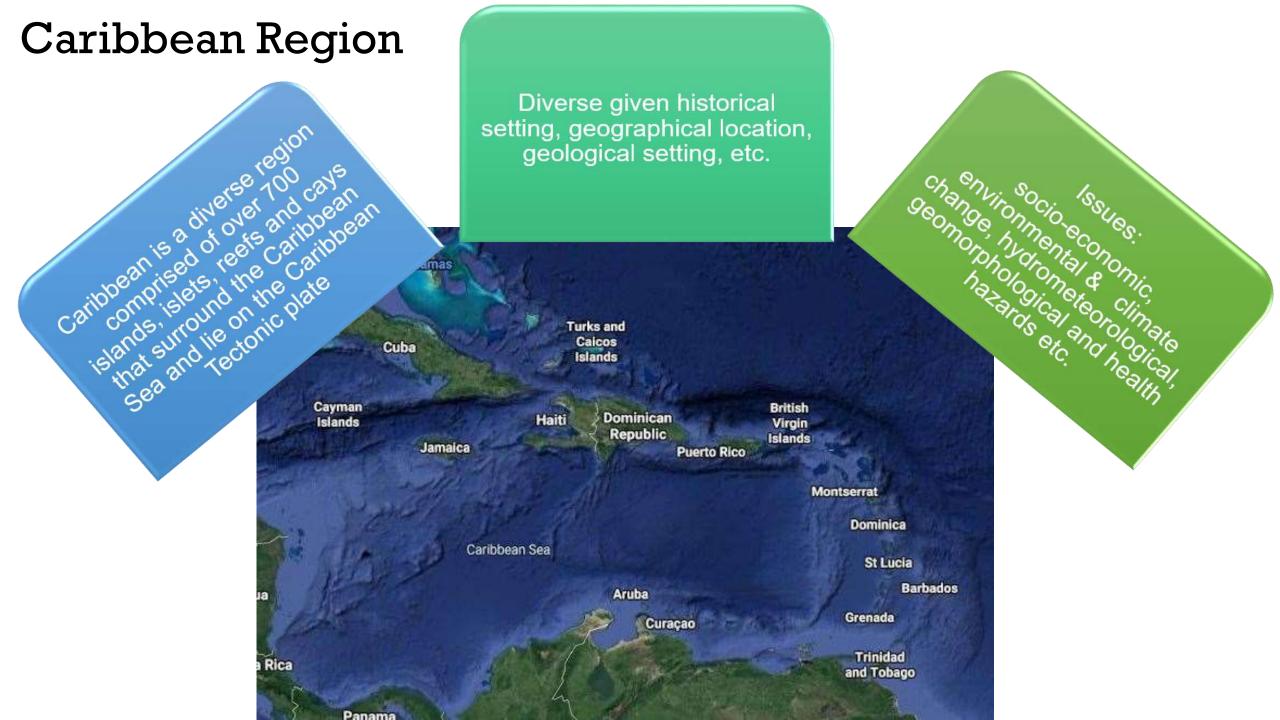
• Workplan 2023



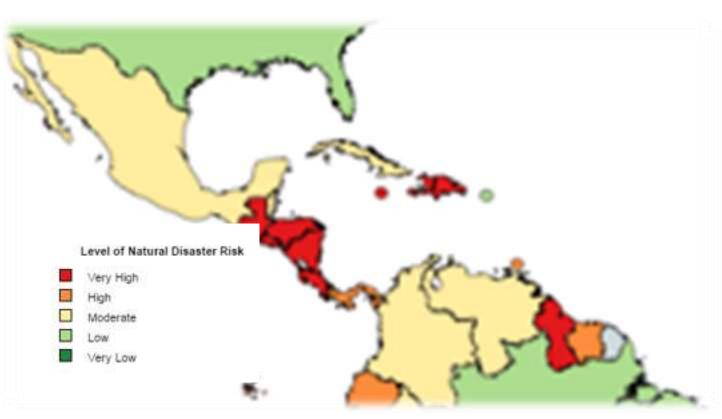
# Caribbean Region







# Disaster Risk Levels in Caribbean



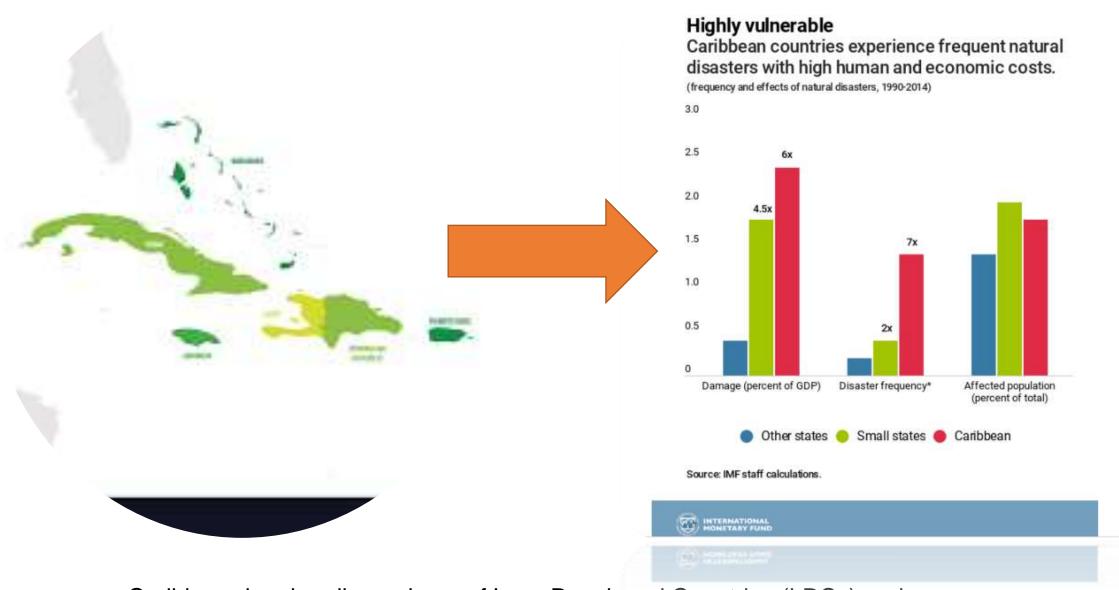
https://www.childfund.org/Content/NewsDetail/2147489272/

#### **Natural Disaster Risks:**

- Hurricanes
- Tropical Storms
- Tropical Depressions
- Troughs
- Earthquakes
- Volcanoes
- Landslides & Floods
- Forest Fires & Wilfires
- Droughts etc.

#### Other Disasters:

- Epidemic & Pandemics eg. COVID-19
- Chik V, Zik V etc



Caribbean is primarily made up of Less Developed Countries (LDCs) and Small Island Developing States (SIDS) that are highly vulnerable to the impacts of disasters.



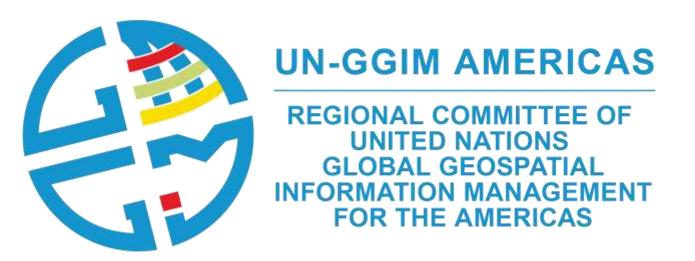
### GI can target development priorities

 The effective management and utilization of geospatial information is very important in support of development priorities:

**Economic** 

**Social** 

**Environmental** 





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

### CARIGEO's PURPOSE





### To improve Spatial Data Infrastructures at the

### national and regional levels in the CARIBBEAN

- □ building on recent and on-going developments
- □ leveraging indigenous skills and resources
- utilising external resources and technical

expertise

### **Partners**





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



ECLAC





















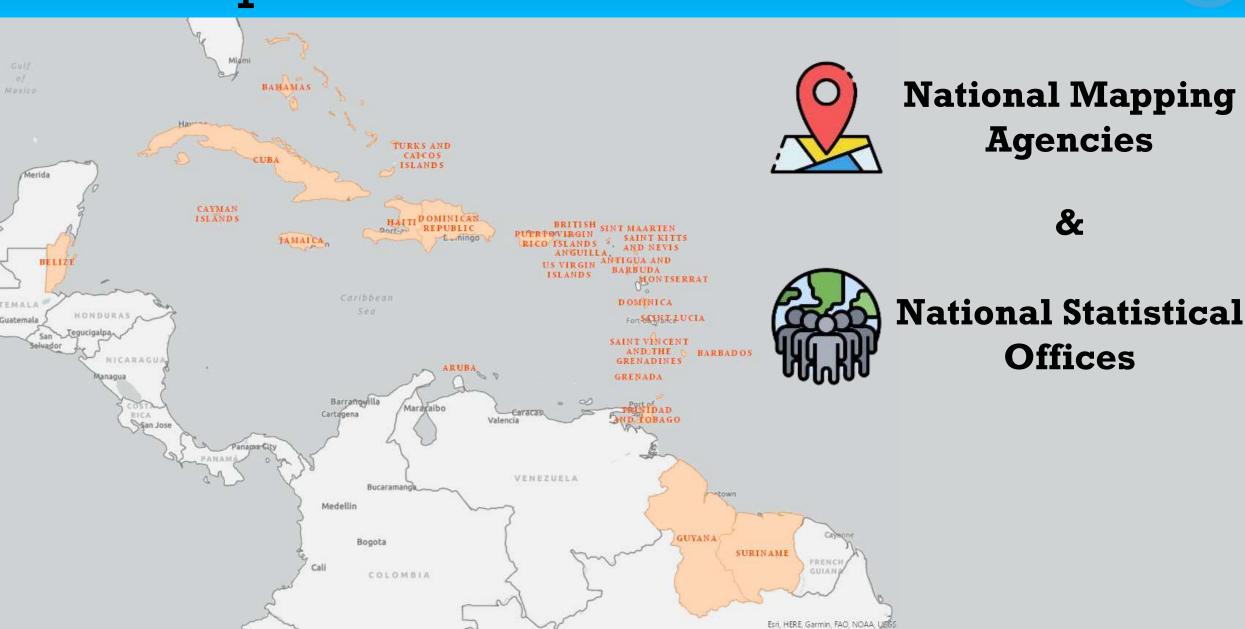






# **Participants**





## The Future We Want



- A community of spatial data producers and users is formed and remains active
- GIS and data management capacities are improved across the region
- Increased funding is available for the creation and updating of fundamental spatial datasets
- Spatial data is **shared** more broadly and **more openly** in the Caribbean
- Development decisions and policy-formulation take more advantage of geoinformation
- National Legislation to regulate and promote the use of geoinformation is enacted
- Agreements are instituted for collaboration and corporation on the use of geoinformation regionally

Caribbean Geospatial

**Development Initiative** 

### **Past Initiative**



Project for the Strengthening of Spatial Data Infrastructures in Member States and Territories of the Association of Caribbean States (Caribbean Project)

Initiated through the UN-GGIM Americas
Funded by the Government of Mexico with support from Government of Chile
Collaborators: ACS, UWI, CDEMA, URISA Caribbean

#### Details:

- Funding Amounts US \$ 4.5 m
- Start Date: 2014
- End Date: 2018
- Countries: Antigua and Barbuda, Bahamas, Barbados, Belize, Cuba, Grenada, Guadeloupe, Guyana, Haiti, Jamaica, Martinique, Dominican Republic, Saint Kitts and Nevis, Saint Lucia, Saint Martin, Saint Vincent and the Grenadines, Suriname, and Trinidad and Tobago

# **Successes of Past Initiative**

















# Progress







Establish the Project
Steering
Committee



Develop the Terms of Reference & Program Proposal Documents



Engage Partners & Donors



Formulate & Execute Projects and Activities

### Terms of Reference



# **Guiding Principles**



Collaboration and coordination



Use of and adherence to geospatial standards



Ownership and accountability



Transparency



Respect and confident

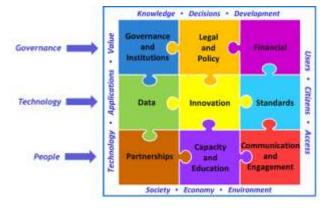


Standards of service



Adherence to law

# Alignment to International Frameworks



Integrated Geospatial
Information Framework



Global Geodetic Reference Frame



Global Statistical Geospatial Framework



Strategic Framework for Disasters









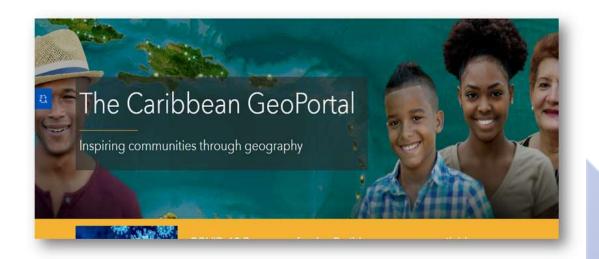
"

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.



# Caribbean Geoportal Webinar series

(April - August 2021)



Webinar#1:

Learn How You Can Use the Caribbean GeoPortal (April 21, 2021) Webinar #2:

Leveraging the Caribbean GeoPortal for Disaster Planning and Management

(June 22, 2021)

Webinar#3:

Metadata, Maintenance & Best Practices on Data Sharing

(August 26, 2021)

## What is the Caribbean GeoPortal?

An open mapping community for the Caribbean

• Data by Esri, Partners, Governments, other authoritative producers

and the Community e.g., NOAA, NA

Analytical tools for spatial data

- Hands on software training
- Publish your own data online
- Field data collection tools
- Configurable web applications



A portal built for the community – by the community

# The Caribbean GeoPortal: Tools and Content

The Caribbean GeoPortal provides full access to ArcGIS Online, providing access to tools for mapping, analytics, sharing and collaboration, and a suite of templates and field applications



#### Content available includes:









Admin boundaries

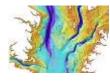
Land cover

Imagery

Real-time traffic









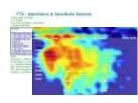
Wind & weather conditions

Demographics

Bathymetry

Oceans

#### **Open Data Sources**





Community Data (Govs-NGOs-AID Orgs.)









# The Caribbean GeoPortal: Tools and Content

The Caribbean GeoPortal provides full access to ArcGIS Online, providing access to tools for mapping, analytics, sharing and collaboration, and a suite of templates and field applications



#### Tools available provide ability to:

- Create web maps
- Apply spatial analytics

Aggregate, join, summarize, enrich Find, Search, Geocode Analyze patterns, calculate density Manage data – dissolve, extract, merge and overlay

Do work in the field



### Who will use the GeoPortal?

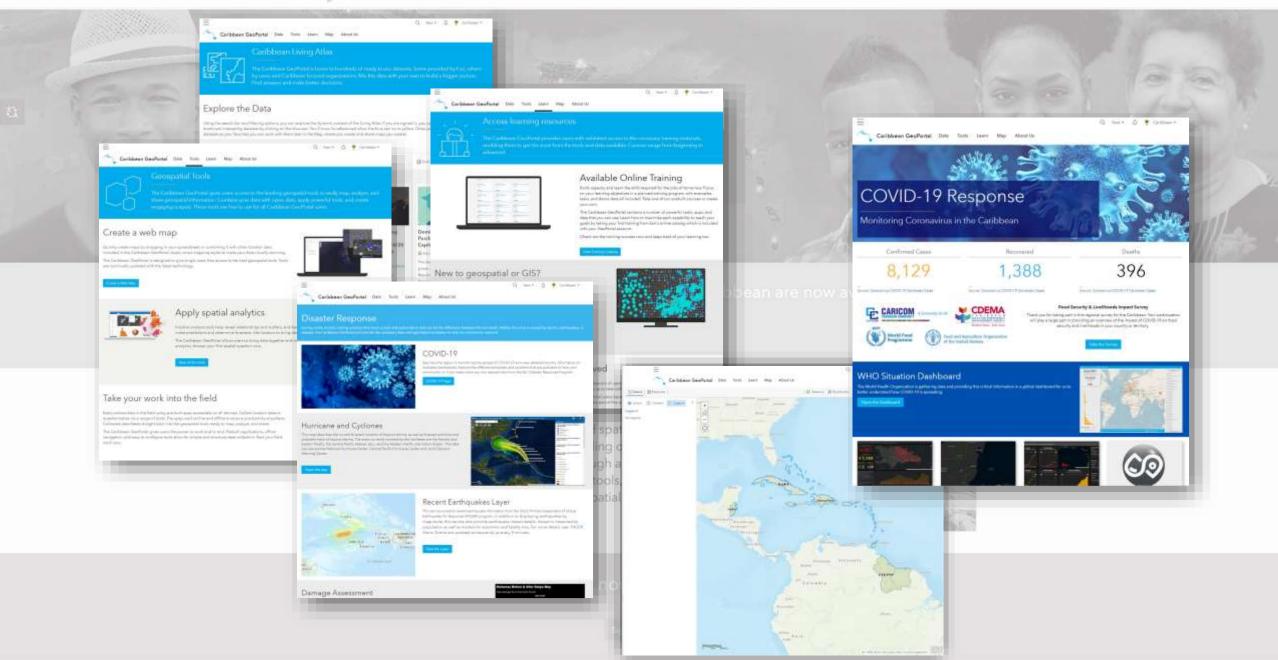






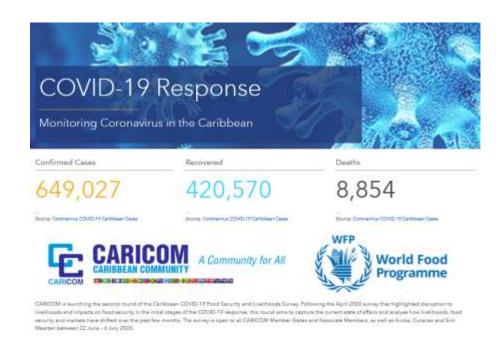






## Information on Disasters





#### Hurricane and Cyclones

This map describes the current & recent location of popical storms, as well as forecast positions and probable track of topical storms. The areas currently covered by the live feeds are the Atlantic and Eastern Pacific, the Central Pacific (Hawaii, etc.), and the Western Pacific and Indian Ocean. The data sources are the National Humicana Center, Central Pacific Humicana Center and Joint Typhoon. Warning Center.

Open the App

#### **Hurricane and Cyclones App**





#### Recent Earthquakes Layer

This service presents recent earthquake information from the USGS Prompt Assessment of Global Earthquakes for Response (PAGER) program. In addition to displaying earthquakes by magnitude, this service also provide earthquake impact details. Impact is measured by population as well as models for economic and fetality loss. For more details, see: PAGER Alerts, Events are updated as frequently as every 5 minutes.

View the Layer

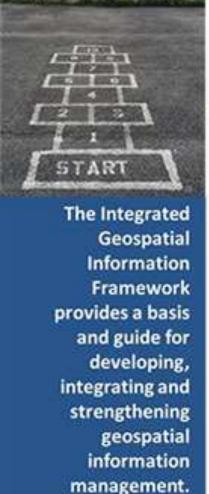
**Recent Earthquakes** 

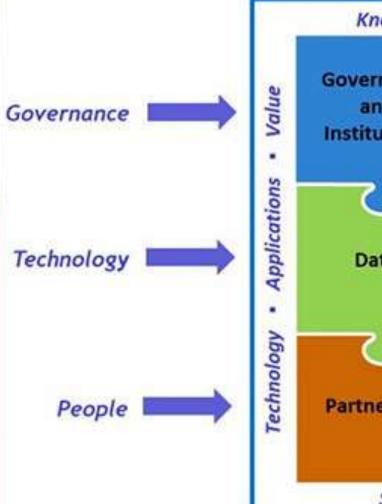


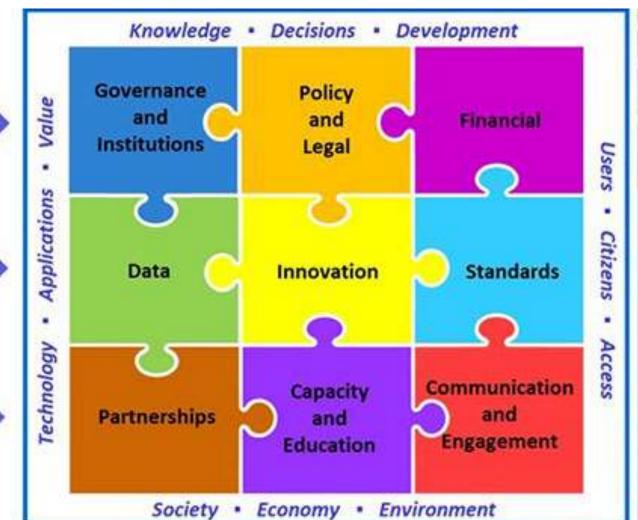




# United Nations Integrated Geospatial Information Framework (UN-IGIF)









Anchored by 9
Strategic
Pathways, the
Framework is a
mechanism for
articulating and
demonstrating
national leadership
in geospatial
information, and
the capacity to
take positive steps.

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Scope of Work



# Scope of Work

Track 1: Assessment of Current Situation in the Caribbean

**Track 2: Governance and Policies** 

**Track 3: Collaboration and Partnerships** 

**Track 4: Datasets and Tools** 

**Track 5: Capacity Development** 

**Track 6: Communications** 





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GOALS	ACTIVITIES	SUB ACTIVITIES	SUPPLIES	EXPECTED RESULTS	EXECUTION PERIOD	OBSERVATIONS
	IGIF Pre-Workshop Briefing Session			This Web Event was designed to help participants prepare for the in person IGIF Workshop in St. Lucia	March 24, 2023	Successfully held
1. Strengthen geospatial information management in the Caribbean based on the implementation of global frameworks and guidelines	IGIF Workshop for the Caribbean			The central purpose of this workshop is to disseminate the guidelines that the United Nations Committee of Experts made available to countries to strengthen national geospatial initiatives and raise awareness about the importance of geospatial information as a tool for territorial analysis to address the problems identified.	April 19 -21, 2023	Successfully held in St. Lucia



GOALS	ACTIVITIES	SUB ACTIVITIES	SUPPLIES	EXPECTED RESULTS	EXECUTION PERIOD	OBSERVATIONS
1. Strengthen geospatial information management in the Caribbean	IGIF Post Workshop Webinar			This webinar will be held to analyze the results of the April Workshop based on the outcomes of the breakout sessions and the capstone exercise, to define the next steps in the implementation of the UN-IGIF at the country level.	June 2023	
based on the implementation of global frameworks and guidelines	IGIF national workshops in the Caribbean Countries			National workshops will be convened based on the demand of some countries of the Caribbean, with the support of ECLAC (travel and DSA of the Regional Technical Adviser) and other possible resources	July to December 2023	



GOALS	ACTIVITIES	SUB ACTIVITIES	SUPPLIES	EXPECTED RESULTS	EXECUTION PERIOD	OBSERVATIONS
2. Strengthen capacities in the collection and use of Earth Observations in the Caribbean	Digital Earth Observation Project for	Training of personnel who will provide technical support to manage the GOC		This project entails setting up the Geospatial Observation Center (GOC) at the University of the West Indies as part of the Latin America and Caribbean Space Agency	July 2022 to June 2027	Training of RS and GIS Specialists will begin on April 13, 2023, and end in November 2023.
	the Caribbean	Training of Remote Sensing specialists who will provide expert image processing and analysis support		in support of countries in the region to access geospatial data sets derived from Earth Observation Data Sources		
	Training of Remote Sensing and GIS specialists from the region who will use the products provided by the GOC					



GOALS	ACTIVITIES	SUB ACTIVITIES	SUPPLIES	EXPECTED RESULTS	EXECUTION PERIOD	OBSERVATIONS
3. Strengthen links and collaboration between the geospatial and Surveying communities in the Caribbean	Participation in the FIG Working Meeting 2023 - SIDS Pre-Event for Caribbean Region				April – May 2023	FIGs has interest in sponsoring a Small Island Developing States (SIDS) meeting as a pre-event for their 2023 Working Week. The WW will be held in Orlando, Florida from 28 May through 01 June.  A CARIGEO representative would be participating in this activity.
		pl :				



4. Raise awareness within the Caribbean youth on geospatial information management and benefits.	2023 CARIGEO Student Competition	Planning Committee needs to be formed in May/June 2023, laying out milestones: -Agree on target audience -Design web landing page -Recruit sponsors -Prize packages agreed -Recruit Judges -Agree to judging Rubric -Design webinars to support competition -Design communications plan -Launch landing page -Announce opening -Host Webinars to support students -Promotion plan launch -Student submissions -Judging -Awards Post -Communication plan		May – November 2023	



GOALS	ACTIVITIES	SUB ACTIVITIES	SUPPLIES	EXPECTED RESULTS	EXECUTION PERIOD	OBSERVATIONS
5. Promote the use of geospatial information to address priority challenges in the Caribbean region	Sargassum project	The solution is now in a beta pilot phase. Other activities include:  Review and feedback from Compete Caribbean  Discussion with the Geospatial Observation Centre to negotiate storage space for the solution  Testing of solution by member states and other key stakeholders  Seeking funding to further build out solution		The project entails the creation of a Sargassum Early Warning System for the Caribbean member countries to support the monitoring and management of Sargassum's impact through the use of satellite data and drone imagery. The solution will identify and estimate the volume of Sargassum strains using the aerial images, automatically gather other environmental factors into a georeferenced database in order to calculate the trajectory, and enable customers to access real-time information on potential Sargassum events through a geoportal that disseminates information. The solution is now in a beta pilot phase.	April -Dec 2023	



GOALS	ACTIVITIES	SUB ACTIVITIES	SUPPLIES	EXPECTED RESULTS	EXECUTION PERIOD	OBSERVATIONS
6. Raise awareness on the UN System (composition, dynamics, geospatial works?)	Webinar on understanding the UN System for newcomers.	- Programme development - Confirmation of presenters - Invitation to Caribbean representatives		Increase awareness of the UN System, highlight the importance of country interventions and foster and promote the development of country level interventions for UN Sessions eg. UN- GGIM		



# FIG 2023-26 Workplan

#### Vision:

The Council's vision is "Serving society, benefitting people and the planet: Tackling the Global Challenges"

### **Objectives:**

The aim of FIG is to be the premier international non-governmental organization that **represents the interests of surveyors and users of surveying services in all countries** in the world. A United Nations and World Bank recognized non-governmental organization of **national member associations, cadastral and mapping agencies and ministries, universities and corporates** from all over the world. It is a federation of member associations all of whom seek excellence in the services that they deliver.

CARIGEO welcomes the opportunity to examine potential areas for collaboration given our workplans.





# Thank you!

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May 29, 2023