


Mona GeoInformatics Institute

Mapping Service Portfolio (2023)

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About

Mona Geoinformatics Institute

Mona Geoinformatics Institute (MGI) is a pioneering hub for geospatial and software solutions. MGI is at the forefront of innovation by merging the prowess of Geographic Information Systems (GIS) with the versatility of modern web technologies. Through a synergy of GIS technology and frameworks like React, Vite, and Django, and utilizing languages such as Python, JavaScript, and TypeScript, we craft effective products leveraging both proprietary solutions and various open-source projects, we've successfully developed modern web applications that serve as indispensable tools for notifying about and reporting on geospatial information and pertinent GIS data while harnessing the capabilities of these software tools. With a user-centric approach, we make the map creation process seamless and accessible, ensuring that you have the geographic context necessary to excel in your projects and endeavours. Trust us to be your mapping partner, delivering tailored mapping solutions that empower your vision.

Portfolio

2023

Hazard Map



About the Project

MGI's Online Natural Hazards Map of Jamaica provides information to the general public about historical floods and landslides, two significant natural hazards affecting Jamaica annually, particularly during the Atlantic Hurricane Season.

Started: 2017 (Ongoing)

Informing the Public:- MGI's Online Natural Hazards Map of Jamaica educates the public about annual floods and landslides, particularly during the hurricane season (June 1 - November 30).

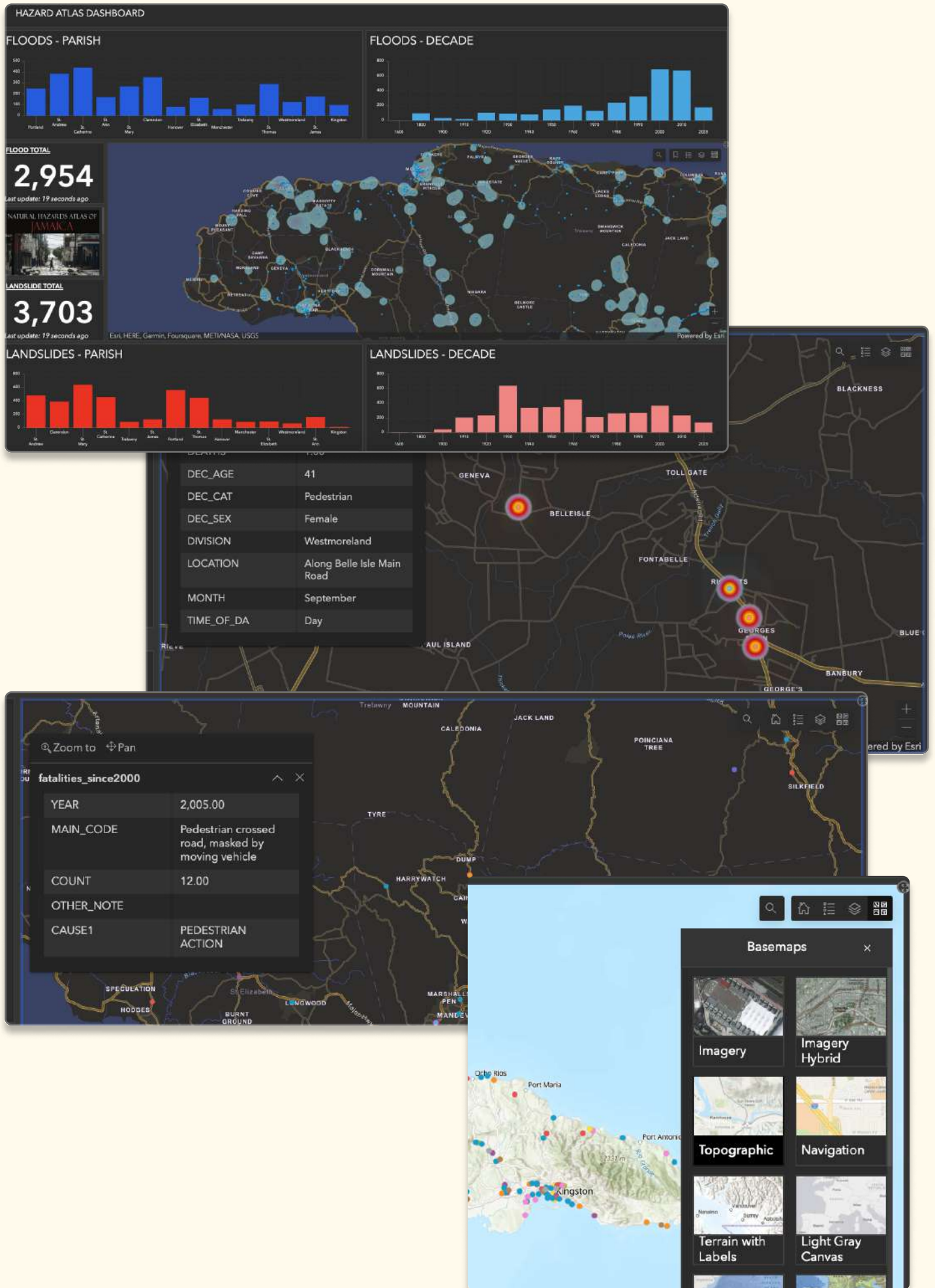
Mapping Hazards:- MGI tracks and maps natural disasters using GIS technology, providing precise coordinates on the Online Natural Hazards Map.

Accessible Resource:- This user-friendly web map is freely accessible to everyone, transforming how we understand and prepare for natural hazards in Jamaica.

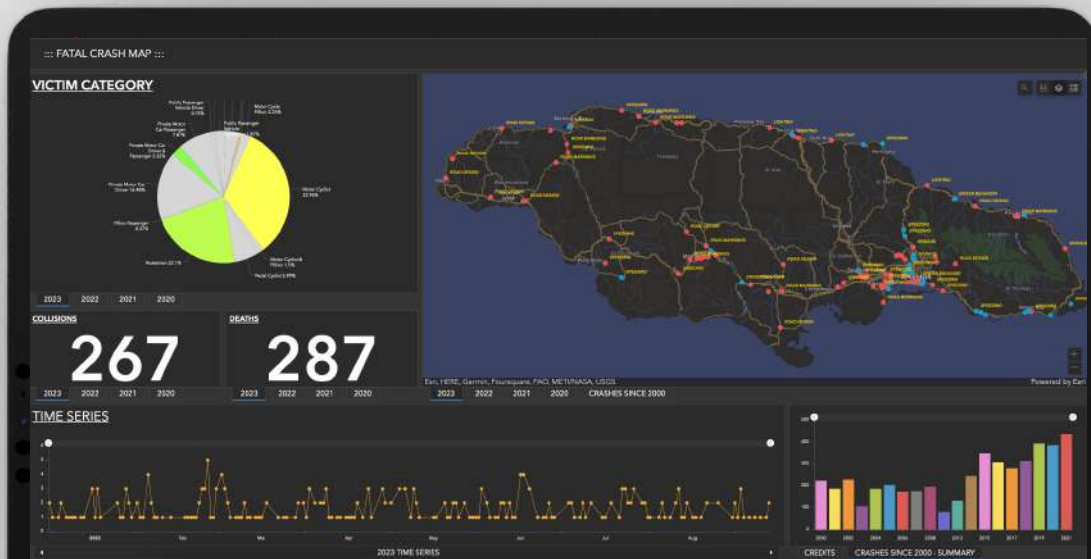
Raising Awareness:- By making this information public, the project contributes to increased awareness among both government bodies and the general public, addressing environmental challenges and fostering development in Jamaica.

Visit the project by clicking [here](#)
or on our website main.monagis.com

Hazard Map



Fatal Crash Map



About the Project

In collaboration with JN Foundation and JNGI, the Mona GeoInformatics Institute (MGI) has developed and maintained the ongoing Online Fatal Crash Map since 2015. This interactive map, updated daily with data from the JCF's Traffic and Highway Patrol Division, highlights fatal road crash distribution in Jamaica. It plays a pivotal role in enhancing public awareness of road safety and serves as a key tool for stakeholders working towards national and global road fatality reduction goals.

Started: 2015 (Ongoing)

ArcGIS Online Expertise:- We leverage the interactive web mapping capabilities of ArcGIS Online to present geospatial data in an engaging and informative manner.

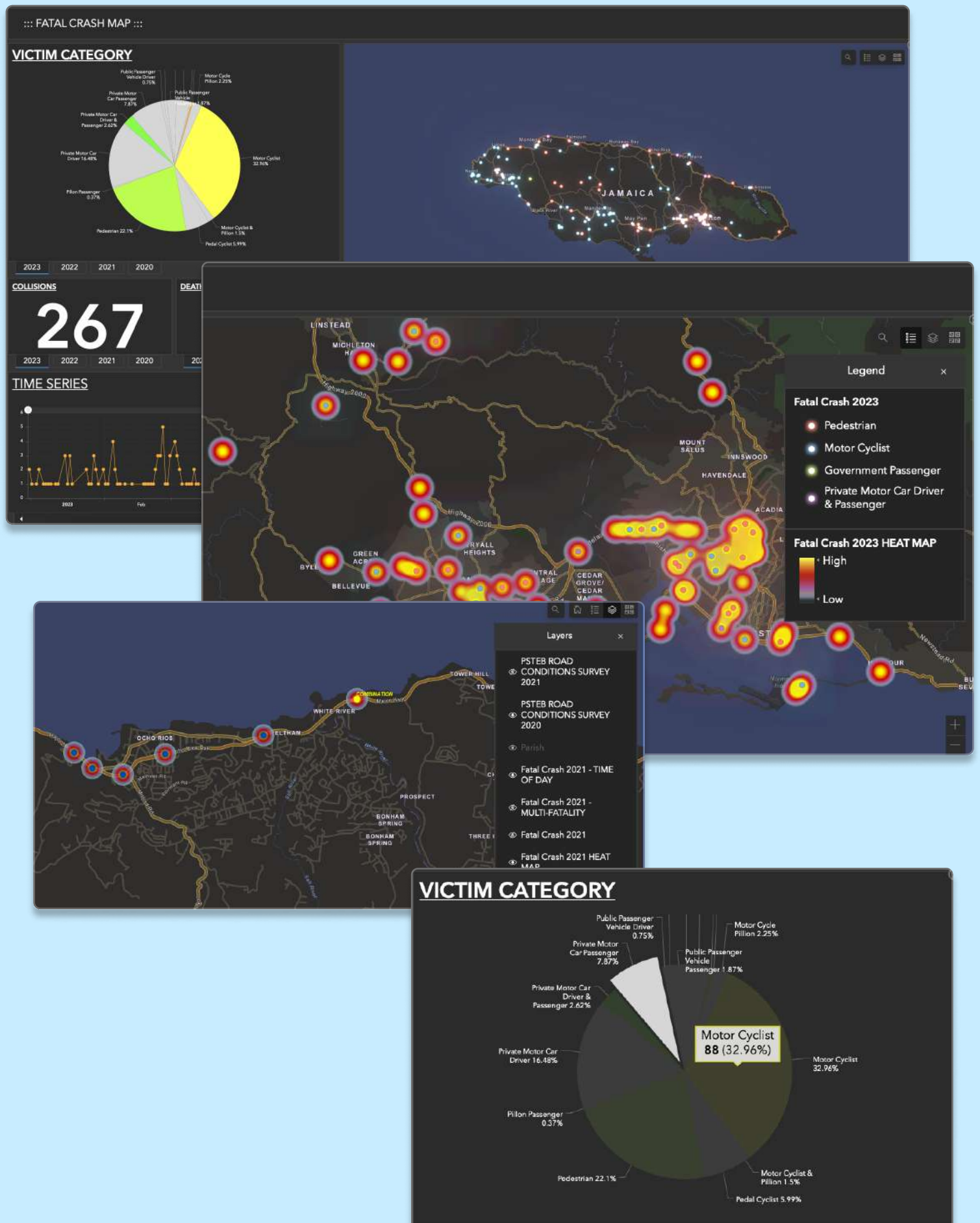
Streamlined Data Processing:- Geospatial data undergoes meticulous processing and is securely uploaded to ArcGIS Online. Subsequently, we implement a dynamic visualization dashboard.

Global Recognition:- Our geospatial visualizations are globally renowned and have been adopted by prestigious institutions like Johns Hopkins University for their widely recognized COVID-19 dashboard.

Reputation:- The interactive COVID-19 dashboard was crafted by Lauren Gardner of Johns Hopkins University, recipient of the 2022 Lasker-Bloomberg Public Service Award, one of America's highest accolades in biomedical research.

Visit the project by clicking [here](#)
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Fatal Crash Map

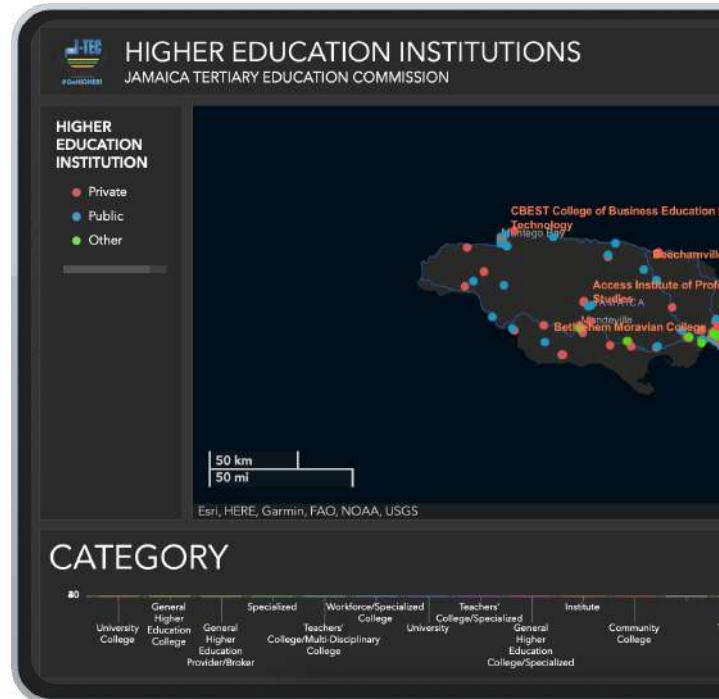


Jamaica Tertiary Education Commission

J-TEC

About

Mona Geoinformatics Institute (MGI) embarked on a purposeful mapping endeavor, utilizing meticulously gathered data to chart the addresses of Registrar of Higher Education Institutions throughout Jamaica, bridging accessibility gaps in education. The project culminated in an engaging interactive web map, characterized by its user-friendliness and rich information content. This web map invites exploration of higher education institutions, Jamaican parishes, and local communities, offering versatile views with the option to toggle map layers on and off.



GIS Integration

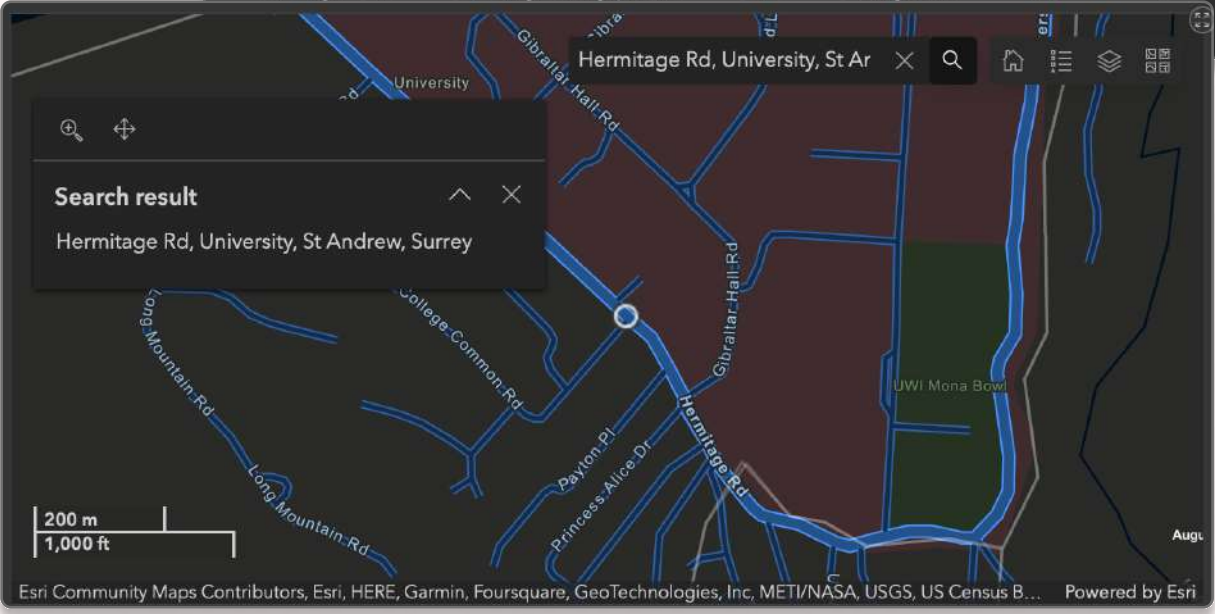
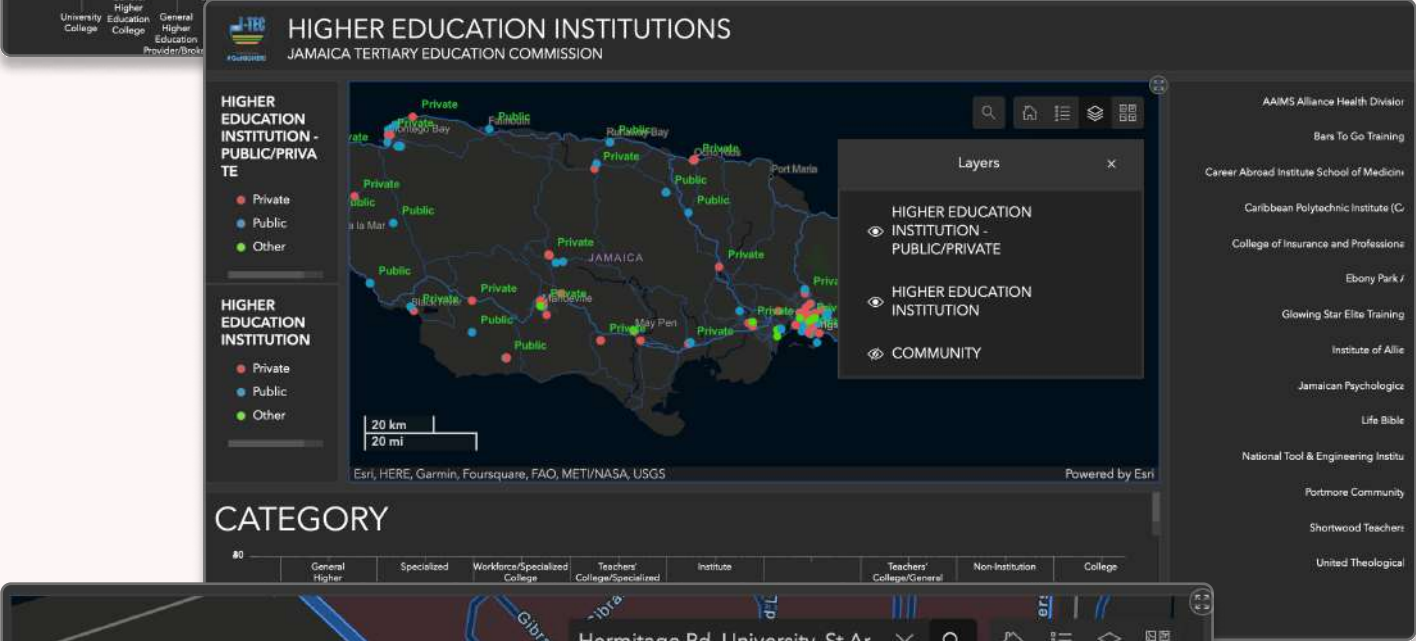
Mapping with a Purpose:- MGI used existing accurate data to meticulously map the addresses of Registrar of Higher Education Institutions across Jamaica, making education accessible to all.

Interactive Web Map Magic:- MGI crafted an interactive web map that's as user-friendly as it is informative. Explore higher education institutions, parishes, and communities across Jamaica. Switch between satellite and road-map views, and effortlessly toggle map layers on and off.

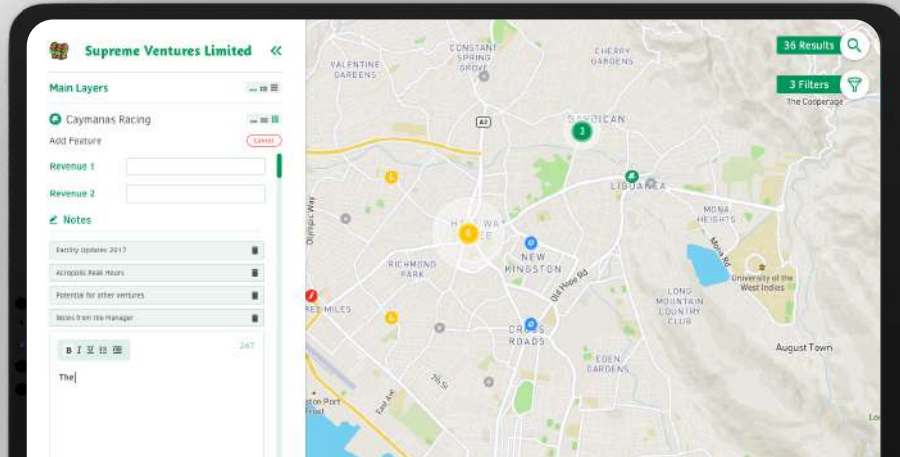
Your Map, Your Way:- We provided our client with a web link (URL) to access this interactive map, giving them an easy and friendly tool to explore all the mapped higher education institutions.

Jamaica Tertiary Education Commission

J-TEC



Interactive Web Map for Supreme Ventures Limited (SVL)



Project Features

Mona Geoinformatics Institute (MGI) collaborated with Supreme Ventures Limited (SVL) to create an interactive web-based map, leveraging MGI's current datasets as a basemap. This map serves as a valuable tool for SVL, offering a range of functionalities and features to enhance location-based decision-making.

Project Details

Client:- Supreme Ventures Limited (SVL)

Map Features:- The interactive web map is designed with a Google Maps base-map and provides the following features:

1. **User Authentication:** The map supports user authentication, allowing both administrative users and regular users to access the map.
2. **Map Views:** Users can switch between satellite and map views to gain different perspectives on the displayed data.
3. **Layer Toggling:** The map allows users to toggle between different layers, enhancing data visualisation.
4. **Editing Functions:** Users have the capability to edit and update map data, enabling SVL to maintain accurate and up-to-date location information.
5. **Client Administrative Functions:** The map provides administrative functions for SVL, facilitating efficient management and control of location data.

Interactive Web Map for Supreme Ventures Limited (SVL)

Supreme Ventures Limited

Main Layers

- Cash Pot
- Caymanas Racing
- Just Bet
- Quick Sports

Details

Retailer ID: 101009

Business Name: SVS - Sagcor

Address 1: 1st Floor, Sagcor Centre

Address 2: 28 Barbados Avenue

Town / Community: Kingston 5

Parish: St. Andrew

Contact Name: Garfield Walker

Revenue 1

Revenue 2

Account

Log Out

Filter Designer

New Rule

Choose a condition 1

Kingston has a Monthly Average Revenue of 60,000

St. Mary has a Monthly Average Revenue of 100,000

St. James has a Monthly Average Revenue of 30,000

Editing: St. Andrew has a Monthly Average Revenue of 60,000

Parish: St. Andrew

Monthly Avg. Revenue: 60,000

is equal to: 30000

Choose a condition 2

Search Results

Found 36 Results

Advanced Search

Location	Address	Category
138 Student Living Jamaica Limited	703 Lily Loat	Cash Pot
National Commercial Bank Jamaica Ltd.	76 Tillman Circle Suite 936	Caymanas Racing
Sangster International Airport	22 Ziemann Neck	Caymanas Racing
Sterling Investments Limited	725 Wolff Flats Apt. 815	Just Bet
Caribbean Metal Products Ltd.	2739 Gerhold Glens	Quick Sports
JFM	780 Cole Mountains Suite 860	Just Bet
Sagcor Life Jamaica Limited	0421 Kamryn Crossroad Apt. 545	Quick Sports
Desnoes & Geddes	219 Odell Pass	Cash Pot

Climate Change Knowledge Platform

(CCKP)

About

The Climate Change Knowledge Platform (CCKP) operates as a pivotal tool for mapping and visualizing initiatives and projects that are aligned with, or receive funding from, the University of the West Indies. This platform serves as a dynamic interface to showcase the university's commitment to addressing climate change challenges through various initiatives. By providing an interactive and comprehensive map of these projects, the CCKP enhances accessibility to valuable information, fostering collaboration and awareness among stakeholders involved in climate action.

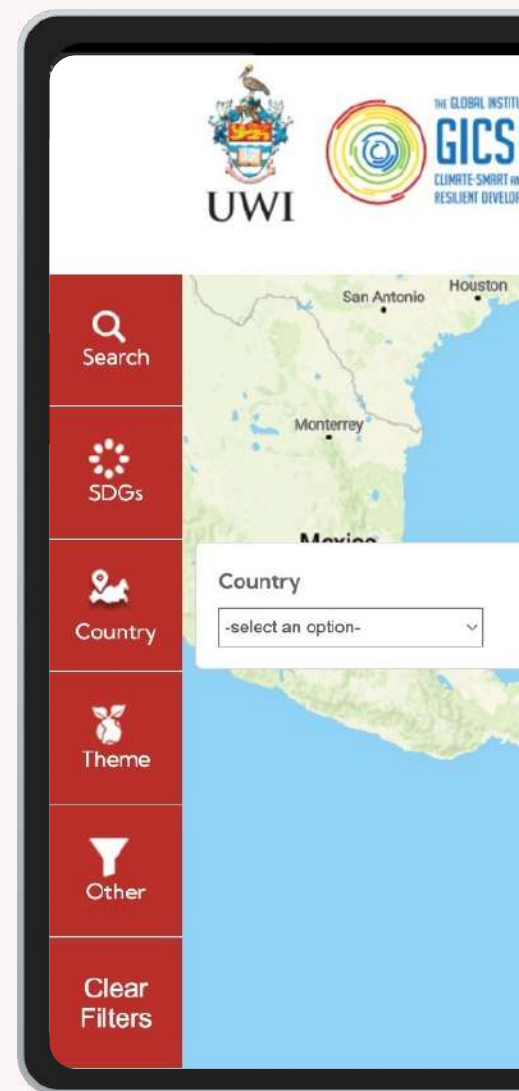
GIS Integration

Mapping Climate Initiatives:- CCKP leverages GIS technology to map and visualize climate-related initiatives and projects affiliated with the University of the West Indies.

Dynamic Filtering:- The platform offers dynamic filtering options, enabling users to display projects based on factors like Sustainable Development Goals (SDGs), countries, and thematic areas. This enhances the user experience and facilitates targeted exploration of climate projects.

User-Generated Content:- Users have the capability to upload project information and track locations through coordinates, contributing to a comprehensive and up-to-date repository of climate-related initiatives.

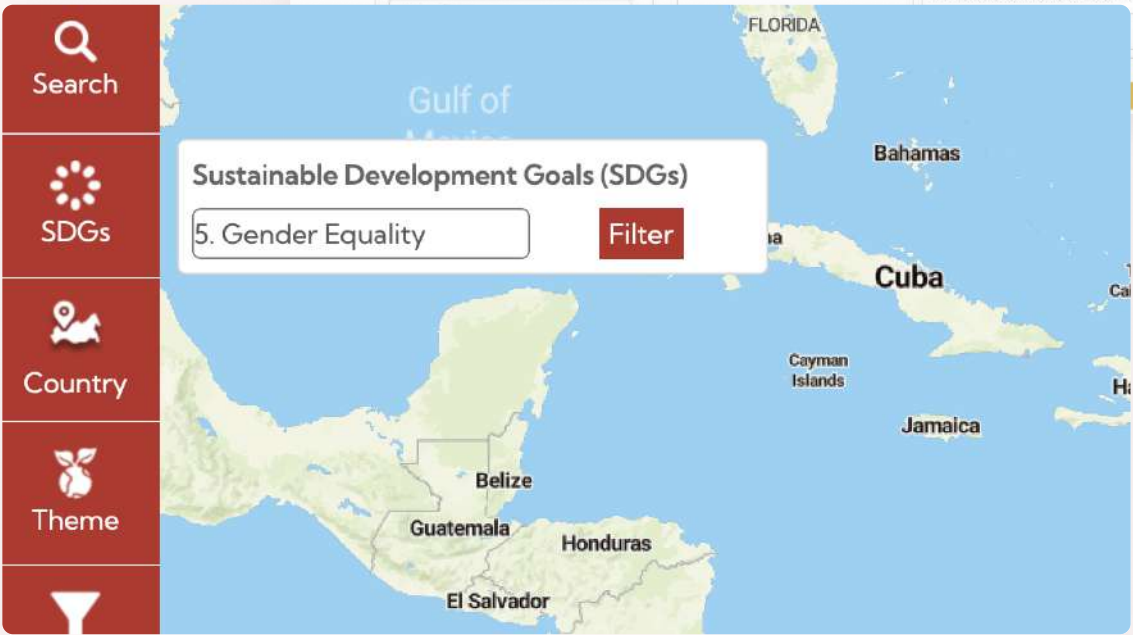
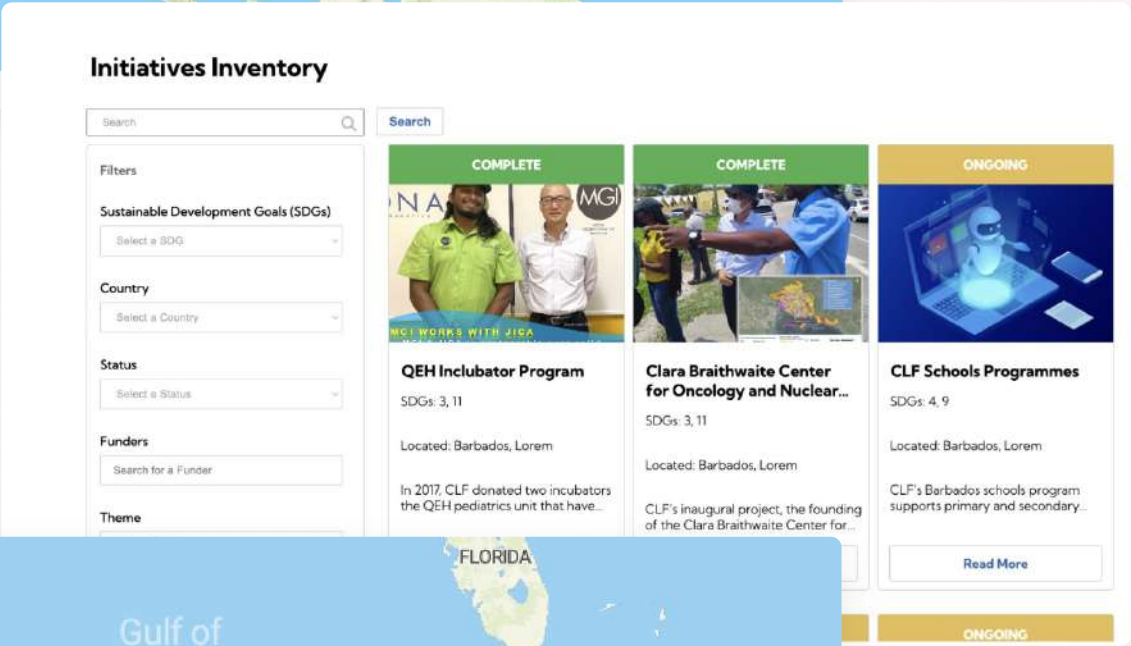
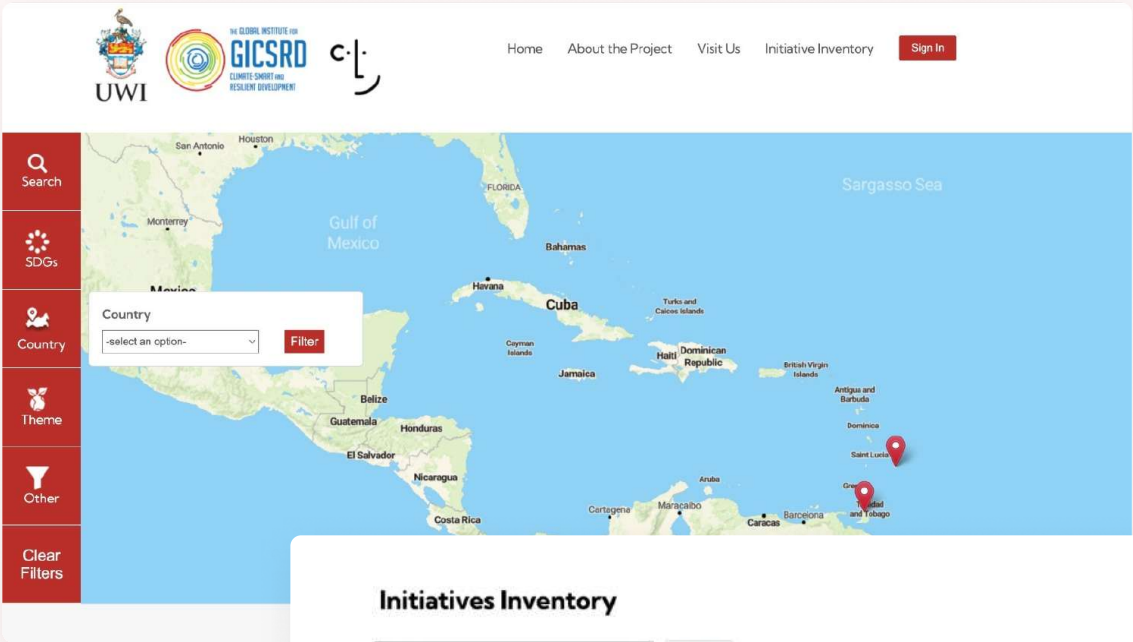
Fostering Collaboration:- By providing an interactive map showcasing these projects, the CCKP facilitates collaboration and knowledge sharing among stakeholders dedicated to addressing climate change challenges. It enhances accessibility to valuable climate-related information, encouraging collective action.



Visit the project by clicking [here](http://caribbeanknowledgeplatform.com)

or by visiting <http://caribbeanknowledgeplatform.com>

Climate Change Knowledge Platform (CCKP)



Natural Resources Inventory

(NRI)

About

The National Resource Inventory (NRI) stands as a robust geospatial content management system, serving as a versatile platform designed for the seamless organization and dissemination of geospatial data. This innovative system amalgamates various mature and stable open-source software projects, offering users a unified and user-friendly interface. This empowers individuals, even those without specialized expertise, to effortlessly collaborate, share valuable data, and craft engaging interactive maps.


GeoNode Integration:- We use GeoNode to streamline data management, enhancing data visualization and sharing within our geospatial projects alongside NRI and GIS.

Open Source Synergy:- GeoNode's open-source nature aligns with our inclusive approach, making it a cost-effective and accessible solution in harmony with NRI and GIS.

User-Friendly Customization:- GeoNode simplifies layer management, enabling easy customization of maps and datasets, ensuring actionable geospatial insights in collaboration with NRI and GIS.



Natural Resources Inventory (NRI)

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Create Map Upload Layers

Selection

No list items selected. Use the selection fields to add.

Create a Map


Filters [Clear](#)

TEXT

Search 


KEYWORDS

112 Layers found




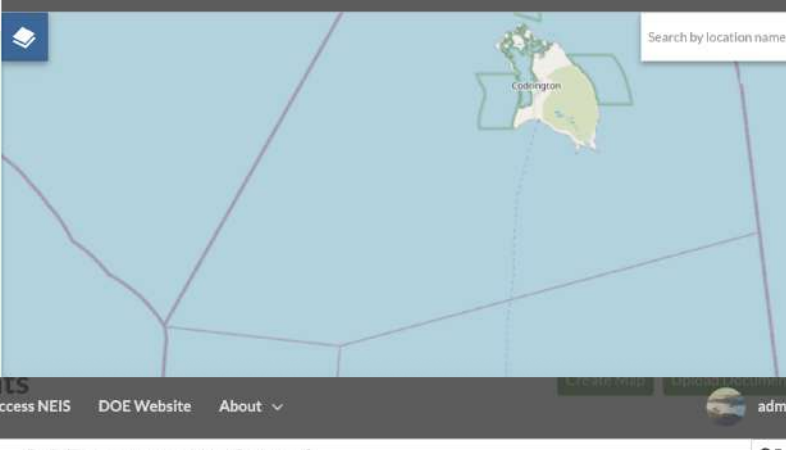
PROTECTED AREAS


DEPARTMENT OF ENVIRONMENT

 **Blue Halo Sanctuary Sites**

This shapefile delineates the 6 marine sanctuary sites that were born out of the Barbuda Blue Halo Initiative. Boundaries have been straightened for ease of compliance and enforcement. This layer was

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TEXT

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KEYWORDS

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DOCUMENT TYPE

Text 13

Image 2

Presentation 69

CATEGORIES

RESPONSIBLE

84 Documents found




CLIMATE

DEPARTMENT OF ENVIRONMENT

 **GHG Inventory 2016-2019: Energy Sector**

Antigua & Barbuda is pleased to submit its 4th National Communications as part of its requirement to the United Nations Framework Convention on Climate Change (UNFCCC). The preparation of a national Green House Gas Inventory is an integral part of the National Communication Report. The GHG inventory provides a key assessment of Antigua and Barbuda's efforts during the inventory years with respect to the level of greenhouse gas emissions, as well as to gauge the success of its adaptation and mitigation policies and programs

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GHG Inventory 2016-2019: Energy Sector


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Title

GHG Inventory 2016-2019: Energy Sector

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Abstract

Antigua & Barbuda is pleased to submit its 4th National Communications as part of its requirement to the United Nations Framework Convention on Climate Change (UNFCCC). The preparation of a national Green House Gas Inventory is an integral part of the National Communication Report. The GHG inventory provides a key assessment of Antigua and Barbuda's efforts during the inventory years with respect to the level of greenhouse gas emissions, as well as to gauge the success of its adaptation and mitigation policies and programs by comparing present emissions with that of previous GHG inventories. The document provides a key assessment of Antigua and Barbuda's efforts during the inventory years with respect to the level of greenhouse gas emissions, as well as to gauge the success of its adaptation and mitigation policies and programs by comparing present emissions with that of previous GHG inventories. The document provides a key assessment of Antigua and Barbuda's efforts during the inventory years with respect to the level of greenhouse gas emissions, as well as to gauge the success of its adaptation and mitigation policies and programs by comparing present emissions with that of previous GHG inventories.

Metadata Detail

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Resources using this document

This document is not related to any maps or layers

Jamaica Sargassum Early Advisory System

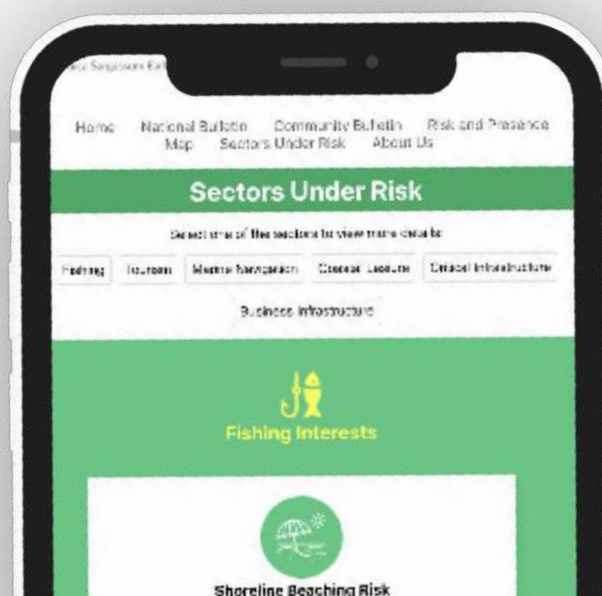
(JSEAS)

About

JSEAS, the Jamaica Sargassum Early Advisory System, is a user-friendly web application designed to provide valuable insights into sargassum occurrences along the Jamaican coast. This innovative platform allows users to easily upload geojson data, enabling real-time updates to an interactive map displaying sargassum levels. Beyond its mapping capabilities, JSEAS offers detailed information on the diverse opportunities presented by sargassum in Jamaica. Moreover, it ensures proactive engagement by sending email alerts, facilitating timely responses to sargassum events. In essence, JSEAS serves as a practical tool for monitoring and understanding sargassum patterns while also providing valuable data for informed decision-making.

GIS Integration

In the JSEAS project, a robust GIS integration using React was implemented, facilitating the analysis and visualization of data from geojson files. This integration allowed for an in-depth examination of sargassum levels on Jamaica's shores and an assessment of beaching risk for various coastal communities affected by this natural phenomenon. Leveraging geospatial data and advanced visualization tools, the project delivered tailored solutions for each community through unique bulletins. These bulletins not only highlighted specific sargassum-related sector risks but also illuminated potential opportunities. The GIS integration in the project enhanced the understanding of sargassum distribution and empowered local communities with the information needed to make informed decisions and adapt to the challenges posed by this environmental issue.



Jamaica Sargassum Early Advisory System (JSEAS)

National Sargassum Early Advisory System for Jamaica

January 2022

Ocho Rios, St. Ann

-Select a Community-

Offshore Risk
Select a community and information will display here about the offshore risk for that community!

Risk Level Zone Here

Specific Coastal Activities Affected

MARINE NAVIGATION FISHING LEISURE CRITICAL INFRASTRUCTURE

Nearshore Risk
Select a community and information will display here about the nearshore risk for that community!

Sectors Under Risk

Select one of the sectors to view more details:

Fishing Tourism Marine Navigation Coastal Lesiure Critical Infrastructure Business Infrastructure

Fishing Interests

Shoreline Beaching Risk

✓ Difficulty launching boats

Floating Mat Risk

✓ Engine entanglement

Adaptive Strategies

✓ Large floating mats serve as habitat for commercially important species such as Mahi Mahi. Perfolk may target these species using a range fishing method. Certain methods are more prone to damage from Sargassum such as use of nets and trolling.

Check Sargassum Status in Your Community

Visit the community bulletin board to see the sargassum status for your community! Filter by communities and find out more information of the different sectors under risk.


Visit Community Bulletin

Sargassum Beaching Risk and Presence for Jamaica

January 2022

Zones: O - offshore, N - nearshore

Thank you!

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