

Disaster and Risk Management

The Development of a Disaster Risk Information Platform (DRIP)

i

Jamaica Geographic Location & Climate

- Size: ~ 11,000 sq. km
- Latitude 18°15' N and Longitude 77°20' W)
- Tropical maritime climate, with the island experiencing tropical storms and hurricanes during the period July To November.
- Small Island Developing State
- Population: 2.89 (July 2012 est.) - Urban population: 52% of total population



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i Jamaica's Susceptibility to Hazards

Hurricanes



Earthquakes

Flooding
Coastal & Riverine



Landslide

Facts and Findings

- Over 400 of the island's 900 communities ranked high or moderately high to natural hazards.
- Between 2004- 2012 the country experienced 8 major hurricane events

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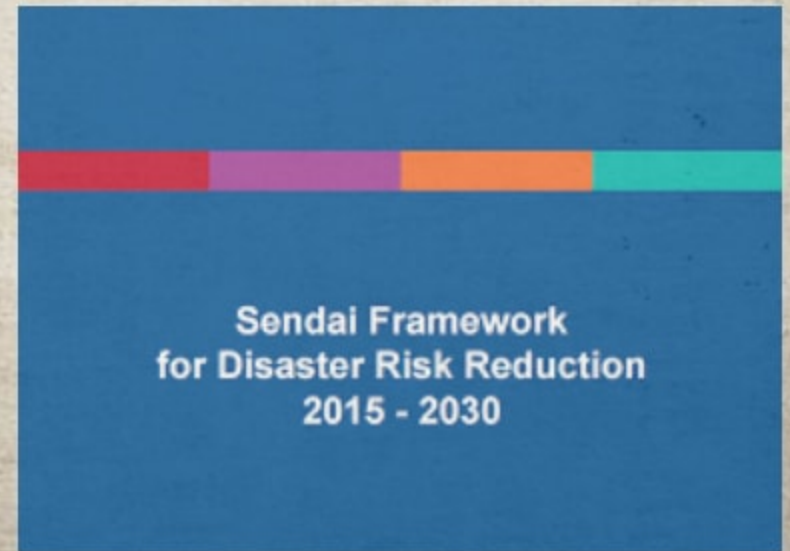
DRIP

The Development of a Disaster Risk Information Platform (DRIP) - Sustainable Development Goals and the Sendai Framework for Disaster Risk Reduction



Sustainable Development Goals

MAKING THE LINKAGES



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i DRIP

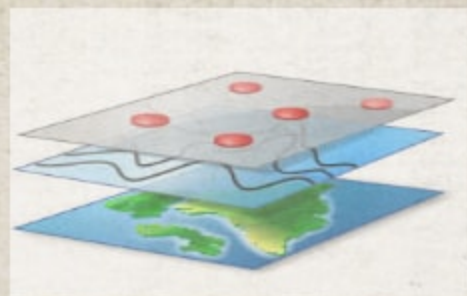
The Disaster Risk Information Platform (DRIP) is an information hub where the users access relevant documents, studies, maps, research related to hazard, risk and vulnerability information specific to the parish St. Catherine in Jamaica



Information Hub



Documents



Geospatial Data

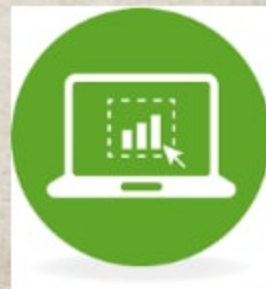


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i SYSTEM HIGH-LEVEL DESIGN

The DRIP consists of implementing information collected, conversion of information to the suitable format and secure, reliable delivery of information over the web. (Publicly accessible via a web interface).



Data Collection and Population

Data Management and Storage

Search and Discovery

Visualization

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Data Collection and Population

Data collection for the DRIP involved retrieving existing datasets (secondary data collection) from various government organizations and various other sources to populate the database.



Data Management and Storage



CKAN is a powerful data management system that makes data accessible by providing tools to streamline publishing, sharing, finding and using data.



Search and Discovery

The CKAN search engine in place allows for the provision of easy and efficient mechanism.



Visualization



The DRIP allows members of an organization to view maps, applications and layers. ArcGIS Online is the mapping platform that was used in the DRIP.



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'Use of Geospatial Information for Decision Making'

apps.licj.org.jm/DRIP

Disaster Risk Information Platform (DRIP) Web Map

ADDRESSING THE ISSUES OF:
SUSTAINABLE DEVELOPMENT

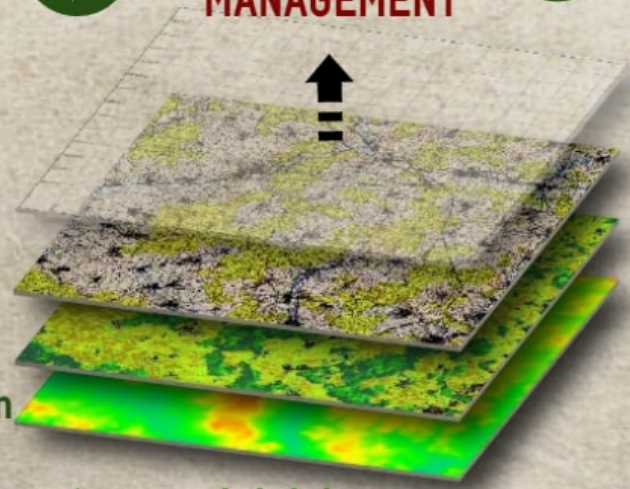
- Improper Land Use for Urban Areas
- Increasing Urban Populations



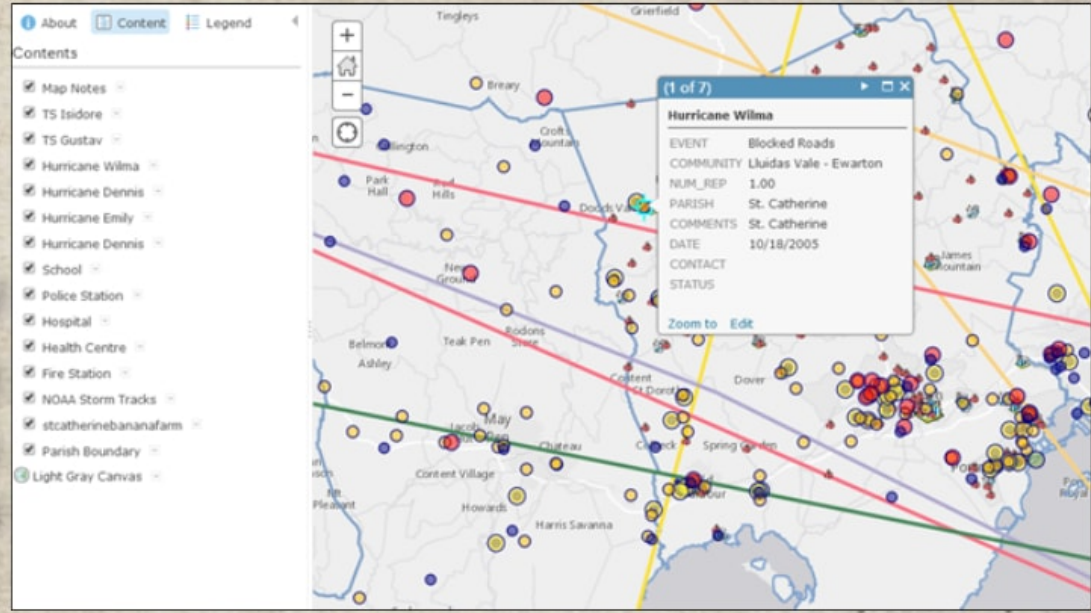
**EFFECTIVE
DISASTER RISK
MANAGEMENT**



- Increasing Climate Related Risk in Jamaica
- Environmental degradation



Reliable data on Landuse, environmental data, infrastructure management information, climate change data/statistics, agricultural information, socio-economic data and hazard risk information.



- Data Provided by Government entities from the sector areas of social, environment and physical infrastructure
- Data accessible by the local authority in St. Catherine