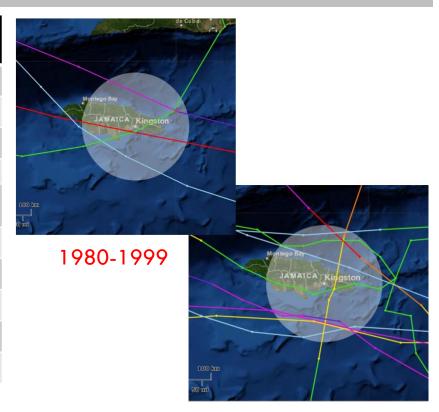
# CLIMATE CHANGE AND DISASTER MITIGATION DETERMINING THE INFORMATION NEEDS



Rohan A. Richards National Spatial Data Management Division 3<sup>rd</sup> High Level Forum on Global Geospatial Information Management 22-24 October 2014

# CONTEXT...

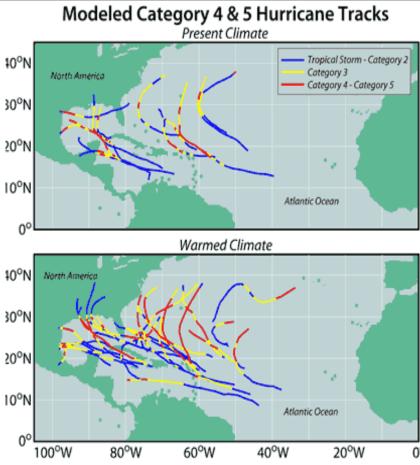
EVENT	Year	Categor y	Cost (J\$B)	Impact
		Í	<b>.</b>	(% GDP)
Hurricane Michelle	2001	4	2.52	0.8%
May /June floods	2002	-	2.47	0.7%
Hurricane Charley	2004	4	0.44	0.02
Hurricane Ivan	2004	3	36.9	8.0
Hurricanes Emily & Dennis	2005	4	5.98	1.2
Hurricane Wilma	2005	5	3.6	0.7
Hurricane Dean	2007	4	23.8	3.4
TS Gustav	2008		15.5	2.0
TS Nicole	2010		20.6	1.9
Hurricane Sandy	2012		9.4	0.8



2000-2012

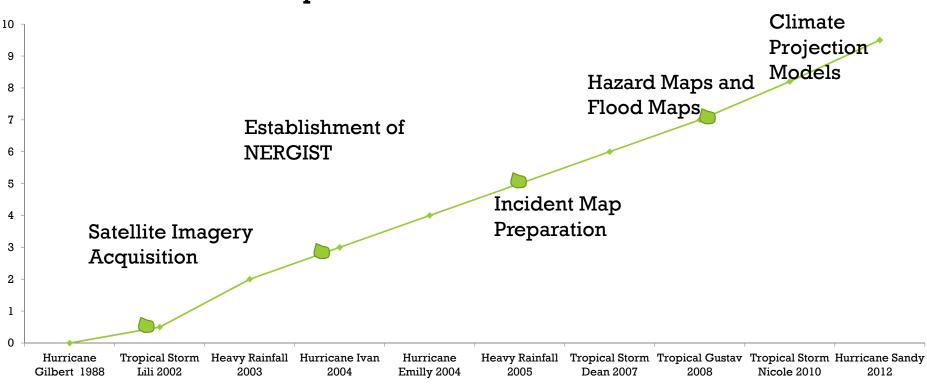


# CONTEXT...



#### INFORMATION NEEDS...

#### **Actual Use of Geospatial Information for Hazard and Risk Assessment**





# INFORMATION NEEDS...

Categories	Geospatial Data
Physical Infrastructure	Roads, Telecommunication, Electricity, Building Foot Prints
Socio economic	Distribution of settlements, demographic and socio-economic data (population distribution by age, sex, income, education
Administrative Boundaries	Communities, Parishes, County
Cadastral	Parcel, Property Information, Tax Map
Social Facilities	School, emergency shelters, evacuation locations and critical facilities)
Land use	Forestry Reserves, Protected Areas
Geology	Faults, Stratigraphy, Soils
Base Map	Satellite Imagery, DEM, Topographic Map



Hazard Related Datasets				
Geospatial Data Collected on Hazard Events	Hazard Models created for events			
Flood	Storm Surge			
Landslides	Wind			
Earthquake Events	Flood			
Landslides	Landslide			
Wind	Earthquake			

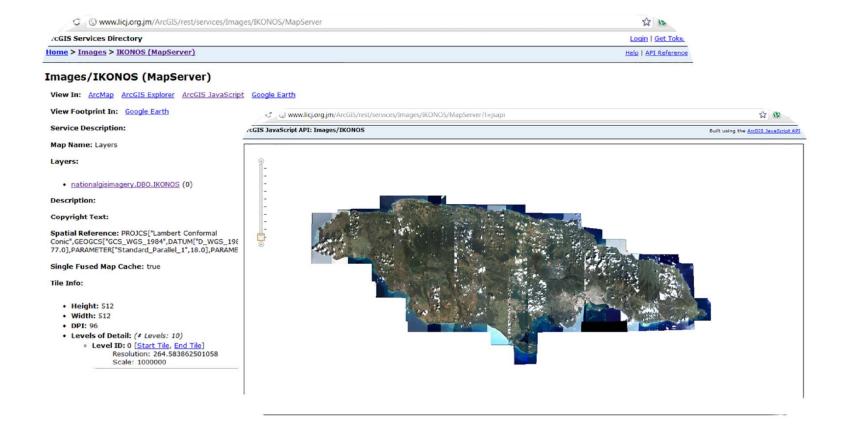


#### CHALLENGES...

- Sharing available and reliable Data
- Lack of Access to Current High Resolution Satellite Imagery
- Lack of Common Operating Platform
- Ability to have Real time upload of damage assessment geospatial data into server based multiuser geodatabase environment due to broadband capacity limitation.

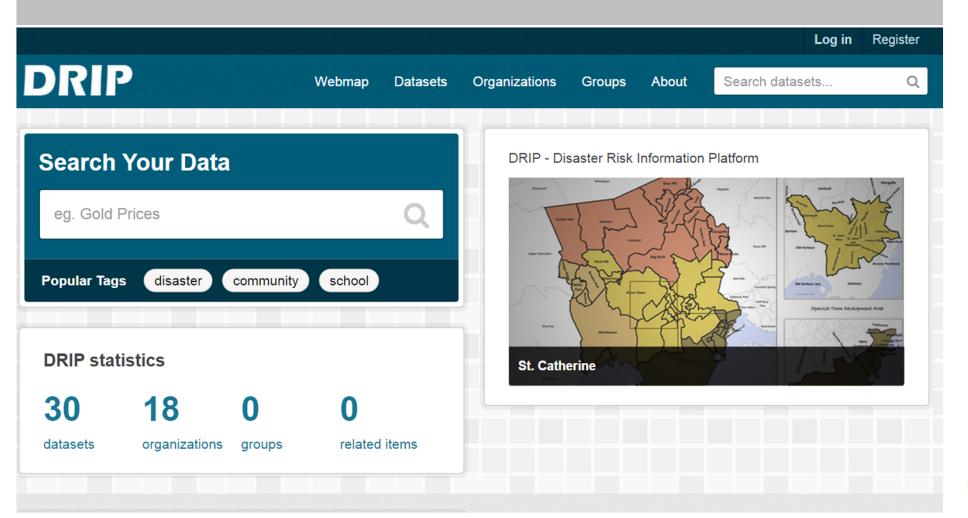


# SOLUTIONS...GIS WEB SERVICES



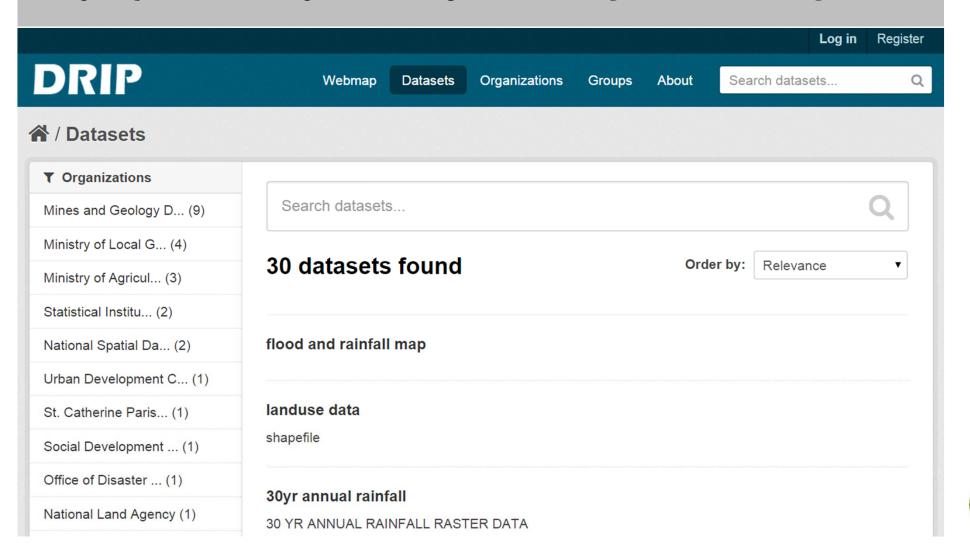


#### SOLUTIONS...RISK INFORMATION PLATFORMS





### DISASTER RISK INFORMATION PLATFORM



## DISASTER RISK INFORMATION PLATFORM

