

Strategic Framework on Geospatial Information and Services for Disasters

Relevance for the Americas Region

Seventh Session of the Committee of Experts on UN-GGIM
Side Event

UN Headquarters, New York
31 July 2017

Louis Brown



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United Nations Initiative on
Global Geospatial Information Management

Positioning geospatial information to address global challenges

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The Americas Region



- Spans both hemispheres, north and south
- 40 independent countries plus several Caribbean OCT's
- 16 million square miles
- Population 1 billion plus
- Main languages: English, Spanish, Portuguese, French



Natural Disasters in the Americas



Meteorological events:

- Flooding
- Landslides
- Storms & hurricanes
- Droughts
- Forest fires



Natural Disasters in the Americas



Geological Events:

- Earthquakes
- Volcanos
- Tsunamis



The Strategic Framework



Governance and Policies



Awareness Raising and Capacity Building



Data Management

LOCAL
NATIONAL

Priorities for Action

REGIONAL
GLOBAL



Common Infrastructure and Services

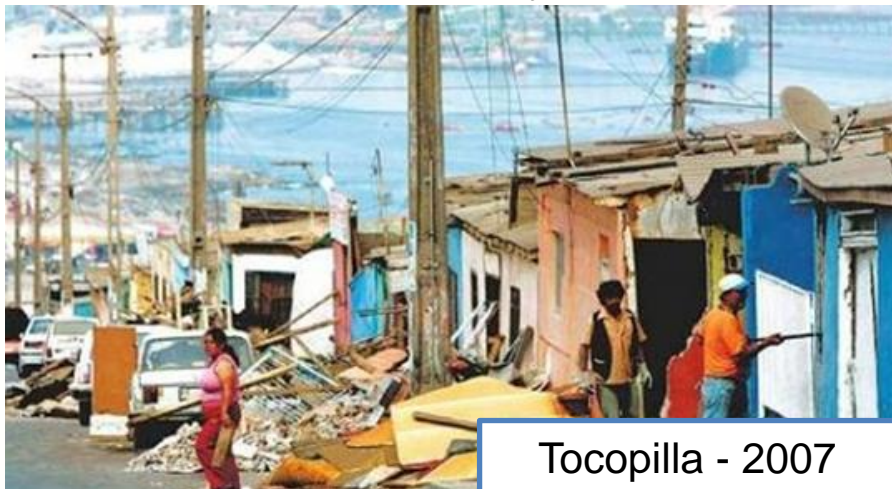


Resource Mobilization



Regional Examples

Chile:  Last 10 years



Tocopilla - 2007



Concepción - 2010



Tocopilla - 2015



Valparaíso, O' Higgins, Maule y Biobío - 2017



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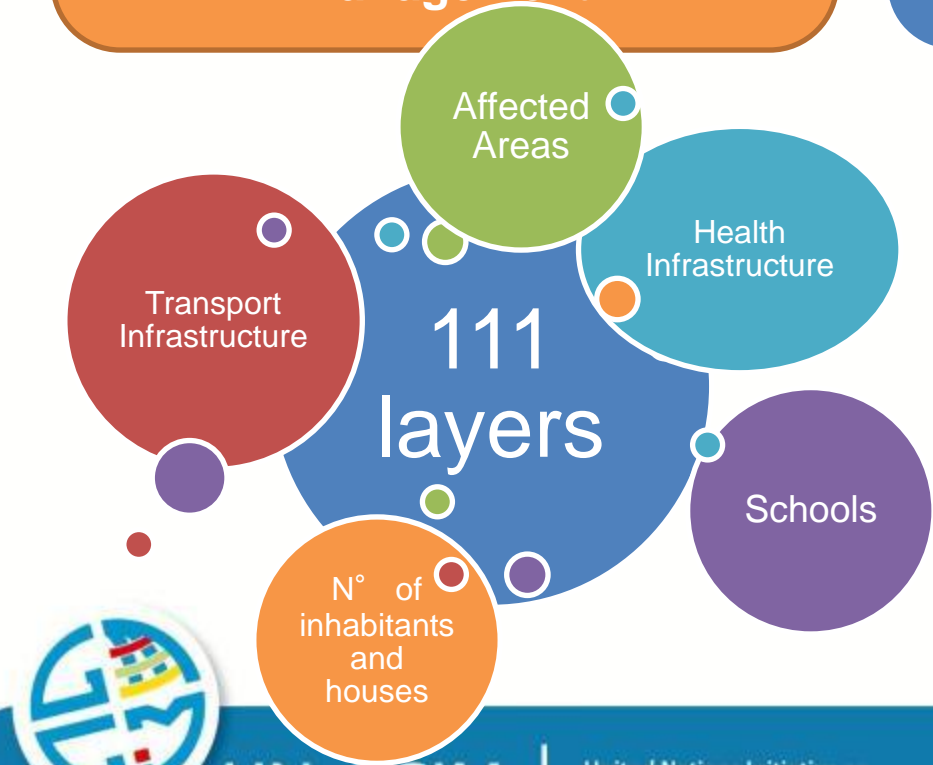
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Regional Examples

Chile 

Multisectorial Working Group
on Geospatial Information for
Emergency and Disasters
Management

Objectives:
-implement procedures protocol
-Generate, collect, deliver and
use geospatial information

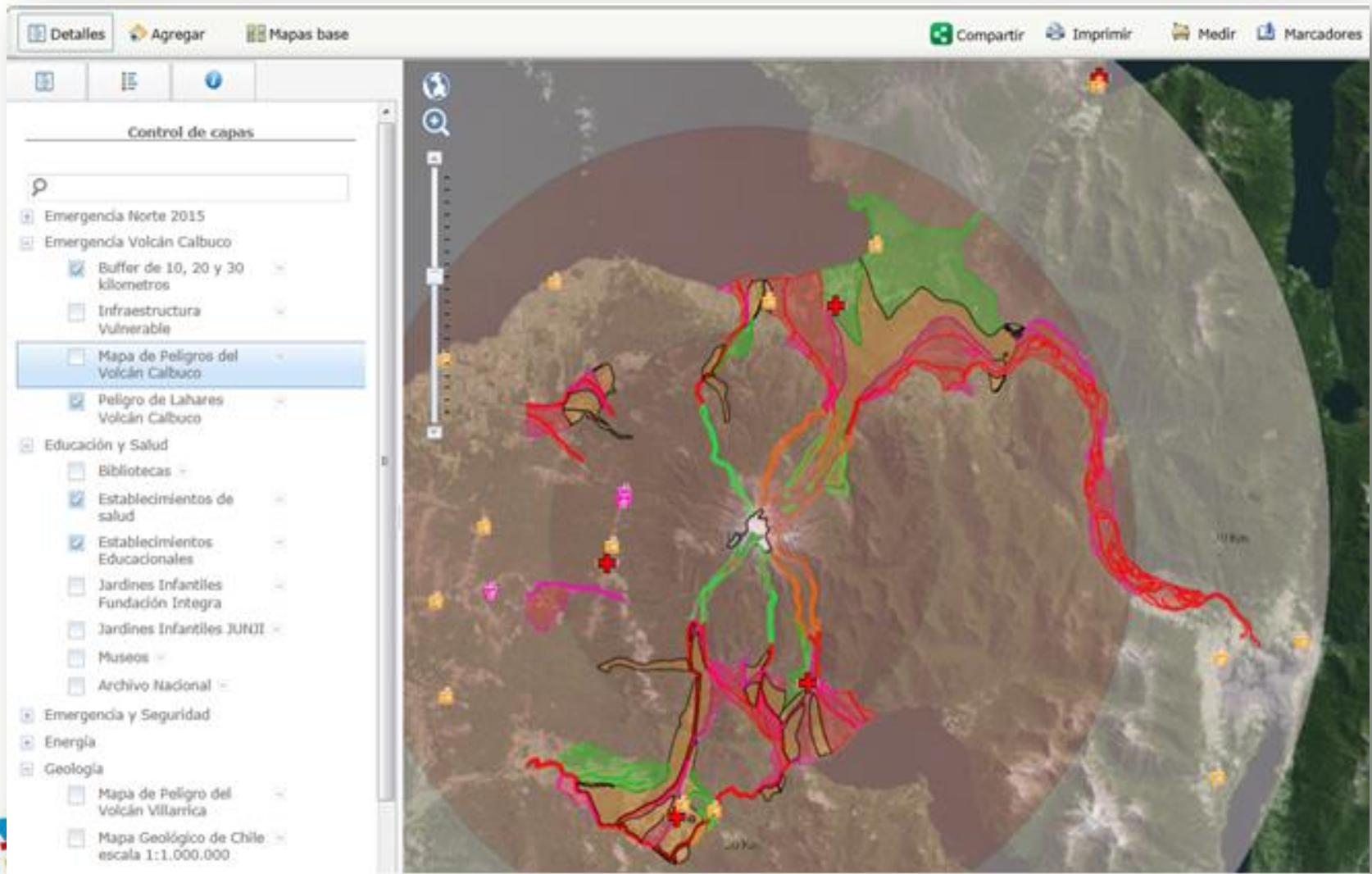


| Name | Description | Attributes | Frequency | EPSG | Scale |
|------|-------------|------------|-----------|------|-------|
| ... | ... | ... | ... | ... | ... |



Regional Examples

Chile



Regional Examples

Jamaica



NERGIST

National Emergency Response Geographic Information Systems Team

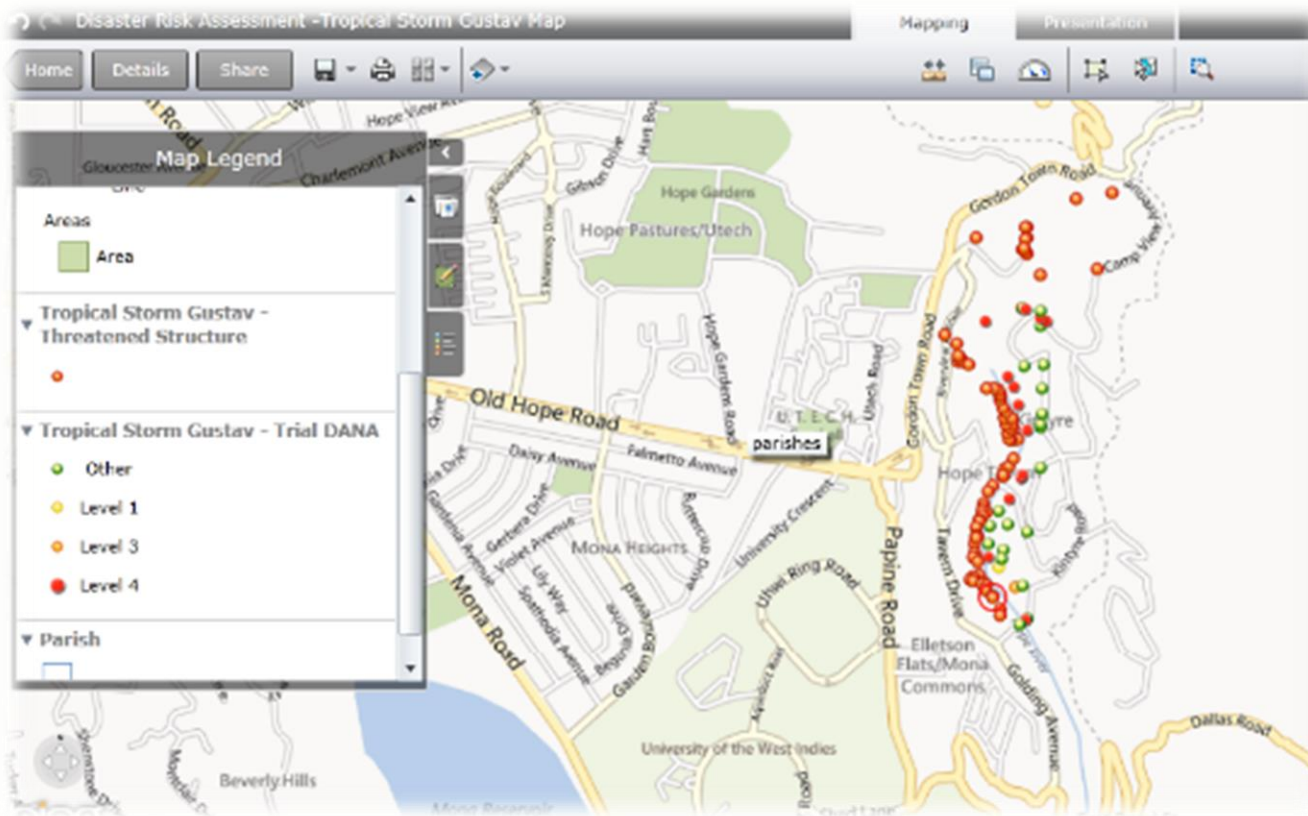
- Undertaking damage assessment and analysis prior to and post meteorological and geological events
- Provide existing geospatial data to support planning and recovery analysis exercises
- Post maps and data generated pre and post events on the LICJ geospatial portal or other relevant websites



Regional Examples

Jamaica 

NERGIST – Damage Assessment Web Map in ArcGIS



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Regional Examples

Jamaica 

Disaster and Risk Management

The Development of a Disaster Risk Information Platform (DRIP)

'Use of Geospatial Information for Decision Making'

apps.licj.org.jm/DRIP

Disaster Risk Information Platform (DRIP) Web Map

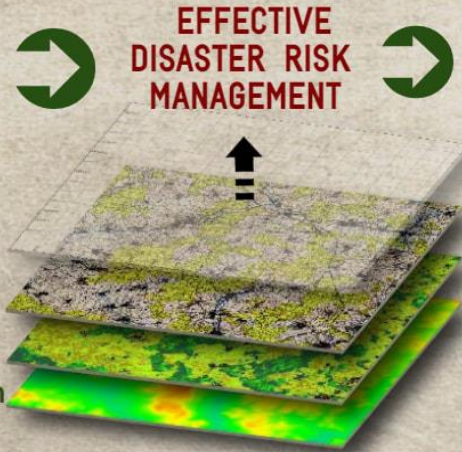
ADDRESSING THE ISSUES OF:

SUSTAINABLE DEVELOPMENT

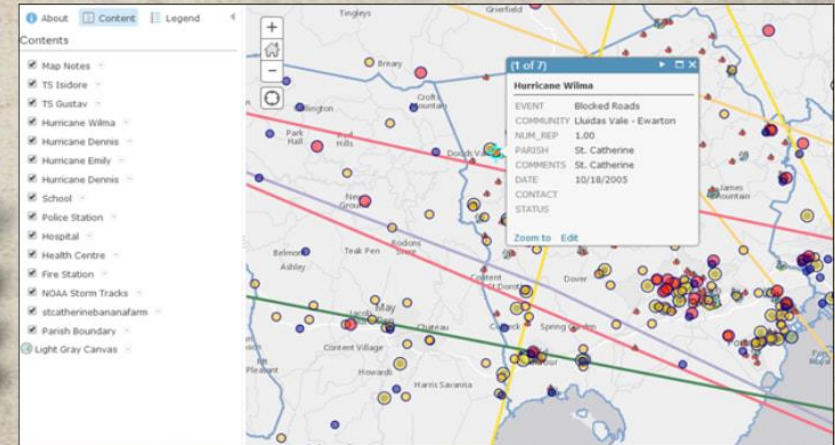
- Improper Land Use for Urban Areas
- Increasing Urban Populations 



- 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



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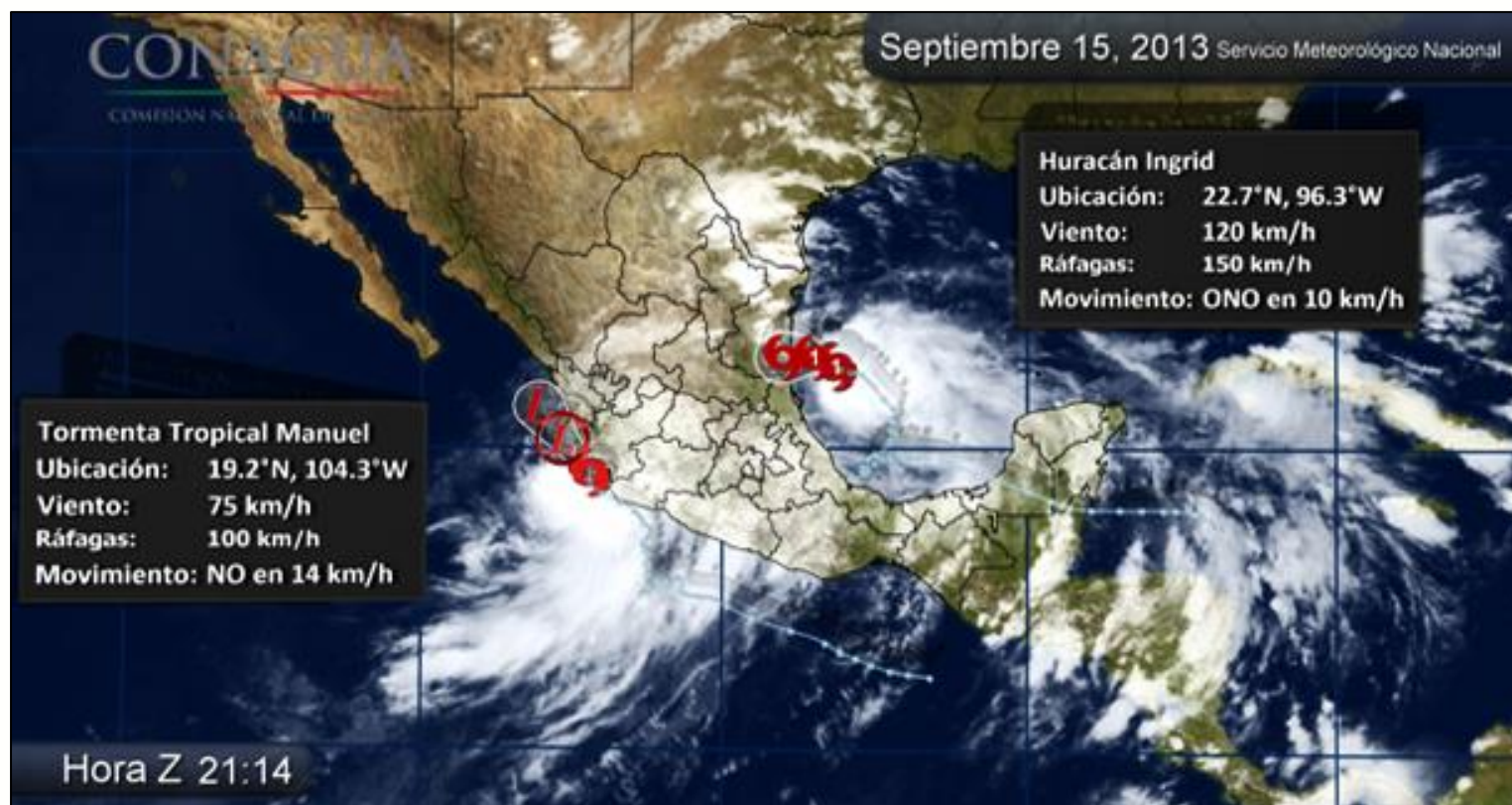
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Regional Examples

Mexico 



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Regional Examples

Mexico 



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Regional Examples

Mexico 



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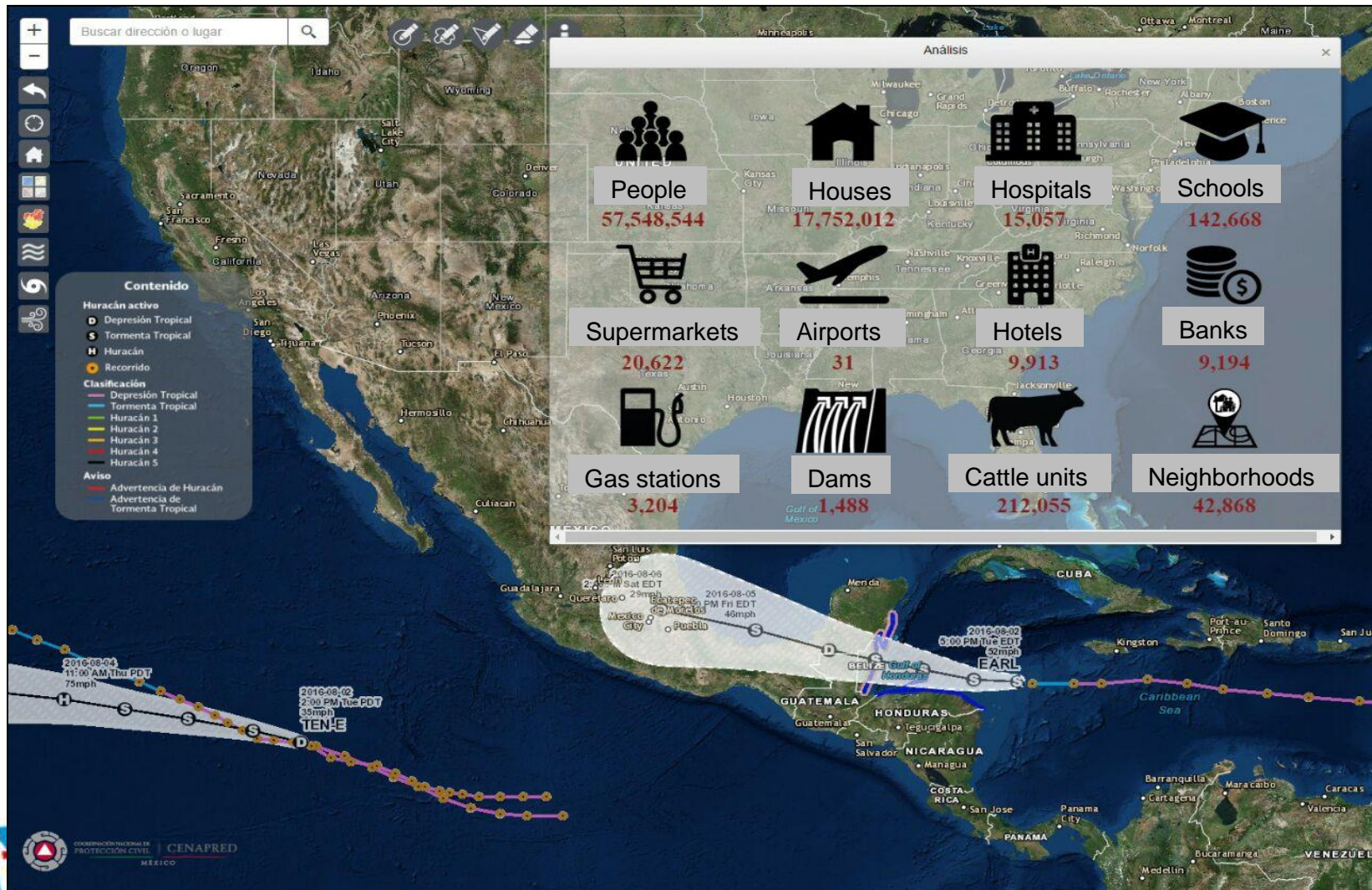
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Regional Examples

Mexico



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Regional Examples



Is a cooperative effort of the 16 GEO member countries in the Americas that:

Reflects local, national, and regional interests of the GEO country-members for short and long-term planning, development, and implementation aligned with GEO activities.

Is entrenched in the institutional and technical capabilities of its country members and in the resources of other global initiatives available for the benefit of the region.

Seeks to increase institutional and personal capacity and engage experts, stakeholders, and decision makers in the process of decision making.



16 Member Countries

Regional Examples



Welcome to *AmeriGEOSS Community Platform* your gateway to Earth Observation resources in the Americas.



Agriculture



Biodiversity & Ecosystems



Disasters



Water

Data

- *Catalog of Americas EO data assets,*
- *Share, Publish, Manage and Use data*
- *Co-create, Curate, Harmonize, Semantically enrich and tagging*

Tools

- *Data Visualization and Modeling tools*
- *Map Viewer and Thematic Gallery*
- *Access a variety of community developed tools*
- *Other Tools from providers or custom tools can be added*

Products

- *Publications (e.g. Agricultural, Climate Report)*
- *Reports (e.g. Water Quality)*
- *Brochures (Preparing for a disaster)*
- *Others*

Services

- *GeoNetCast Americas*
- *Geohazard Supersites and Natural Laboratories*
- *Training*
- *Workshops*
- *Alerts & Notifications*
- *Other*

Resources

- *News*
- *Social Media Resources*
- *Community Calendar*
- *Collaboration Tools*
- *National and Regional Portals and Platforms*
- *Document Library*



Regional Examples

UN-GGIM Americas: Caribbean Project – Location of GNSS Stations



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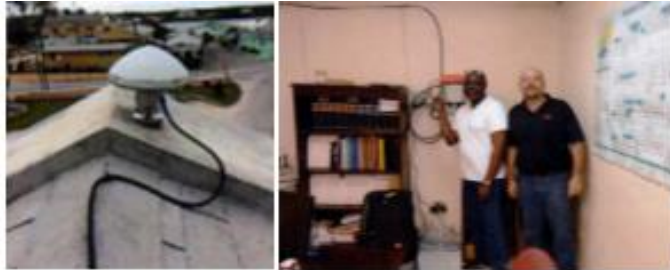
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Regional Examples

UN-GGIM Americas: Caribbean Project – Installation of GNSS Stations



Bahamas



Barbados



Dominica



Jamaica



República Dominicana



Saint Kitts and Nevis



Regional Examples

UN-GGIM Americas: Caribbean Project – Installation of GNSS Stations



Sint Maarten



Saint Vincent and the Grenadines



Suriname



Trinidad and Tobago



Regional Examples

UN-GGIM Americas: Caribbean Project – Capacity Building & Trainings

Courses from December 2014- April 2017

1. Geodesy
2. Geospatial Standards
3. Cartography
4. Metadata
5. Spatial Data Infrastructure
6. Use of Geodetic Equipment
7. International Forum on Geospatial Information for Disasters
8. Geographic Information Systems
9. Land Use Classification using MAD-Mex
10. Construction of Geoportals using MxSIG
11. Geospatial Data Quality

Future courses for 2017:

12. QGIS Free Software
13. Geo-statistics
14. Verification of the Classification System for the Land Use and Vegetation Map

* 3 courses with the Mexico-Chile Cooperation Fund



Regional Examples

UN-GGIM Americas: Caribbean Project – Capacity Building



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UNITED NATIONS
ON GLOBAL GEOSPATIAL
INFORMATION MANAGEMENT
FOR THE AMERICAS



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