



Project for the strengthening of Spatial Data Infrastructures in the Caribbean

Overview & Summary of Progress

December 2014

Project for the strengthening of spatial data infrastructures in the Caribbean

This project is being realized on the frame of the Regional Committee of United Nations on Global Geospatial Information Management for the Americas (UN-GGIM:Américas)



UN-GGIM:Americas

REGIONAL COMMITTEE OF
UNITED NATIONS
ON GLOBAL GEOSPATIAL
INFORMATION MANAGEMENT
FOR THE AMERICAS



Association of Caribbean States
Asociación de Estados del Caribe
Association des Etats de la Caraïbe



Genesis of UN-GGIM

- In 2009, the United Nations Statistics Division/DESA (UNSD) convened in New York, on the side of the 9th United Nations Regional Cartographic Conference for the Americas (UNRCC-A), an informal consultative meeting with geospatial information experts from different regions of the world, and discussed how to better coordinate the various regional and global activities on geospatial information and the related management issues.
- At its substantive session in July 2011, Economic and Social Council (ECOSOC) considered the report of the General Secretary and adopted a resolution to create the United Nations Committee of Experts on Global Geospatial Information Management (2011/24), asking to present a Report on 2016 to propose the creation of the Geospatial Information Commission of The United Nations.

UN-GGIM: Why a global mechanism?

- Significant gap in the recognition and management of geospatial information globally
- Lack of a global consultative and decision-making mechanism among Member States in:
 - setting global standards on geospatial information;
 - developing common tools; and
 - bringing geospatial information to bear on global policy issues
- This gap is increasingly being filled by the private sector, reducing the role and influence of Governments
- Governments, not the private sector, have the mandate and accountability to maintain and deliver the national geospatial information base and related policy



UN-GGIM: A global initiative

Formal inter-governmental Committee of Experts to:

- Coordinate Global Geospatial Information Management activities by involving Member States at the highest level as key participants
- Make joint decisions and set directions on the use of geospatial information within national and global policy frameworks
- Address global issues and contribute collective knowledge as a community with shared interests and concerns
- Develop effective strategies to build geospatial capacity in developing countries



UN-GGIM:Américas

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UN-GGIM: Global Agenda

1. Global geodetic reference frame.
2. National institutional arrangements in GI management.
3. Global map for sustainable development and status of mapping in the world.
4. Legal and policy frameworks.
5. Establishment and implementation of standards.
6. Linking of geospatial information to statistics and other data.
7. Integration of land and marine GI.
8. Development of a knowledge base for GI.

Creation of a Regional-Global architecture for UN-GGIM

- UN-GGIM Co-Chairs (2014-2015), Dr. Vanessa Lawrence, Ordnance Survey U.K; Dr. Eduardo Sojo, INEGI Mexico and Dr. Li Pengde, NASG, China.

UN-GGIM Regional Committees:

- UN-GGIM for Asia-Pacific (formerly PCGIAP) November 2012
- **UN-GGIM for the Americas (formerly PC-IDEA) August 2013**
- UN-GGIM for Europe October 2014
- UN-GGIM for Arab States
- UN-GGIM Africa



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Working Groups	Coordinator
1. WG on geospatial data collection and management	Juan Antonio Nieto- Colombia
2. WG on access and use of geospatial information in disaster risk reduction and climate change	Rigoberto Magaña- El Salvador
3. WG on Standards and technical specifications.	Carlos Guerrero- México
4. WG on regional coordination and cooperation-	Rolando Ocampo- México
5. WG on promotion and assessment of Spatial Data Infrastructure- Chile	Álvaro Monett - Chile



Cooperation for the Caribbean Region

A Collaborative Agreement between the National Institute of Statistics and Geography (INEGI) and the Ministry of Foreign Affairs of Mexico was signed to make this Project possible. INEGI is contributing with the technical support and the Government of Mexico is providing the financial support for this project.

The project has the support of the Association of Caribbean States, who is committed with contributing to the development of the region.



General Objective

To promote the development of Spatial Data Infrastructure (SDI) in the Caribbean, in order to strengthen the generation, use and sharing of geospatial information, including for policy making

Specific Objectives:

- Reduce Geospatial Data Infrastructure gaps within the Caribbean region, and with respect to the rest of the Continent
- Support the integration and participation of Caribbean countries in the international geospatial information context, including the UN-GGIM: Americas initiative

Participating Caribbean Countries

1. Antigua & Barbuda



2. Bahamas



3. Barbados



4. Cuba



5. Dominique



6. Dominican Republic



7. Grenada



8. Guadeloupe



9. Guyana



10. Haiti



11. Jamaica



12. Martinique



13. St Kitts & Nevis



14. St. Lucia



15. St. Maarten



16. St. Vincent & the Grenadines



17. Suriname



18. Trinidad & Tobago



Caribbean Project Technical Advisory Committee

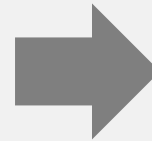


Strengthening the Region

Regional Collaboration Project scheduled for execution within a three year timeframe (2014-2016) and a \$4.5 million USD budget

Specific Actions

- 1. Diagnosis of National SDIs
- 2. Capacity Building
- 3. Acquisition of Infrastructure
- 4. Incorporation to UN-GGIM



Establishment of National SDIs

Aligned to key actions in UNGGIM- Americas

Promote Regional Interoperability

1. Diagnosis



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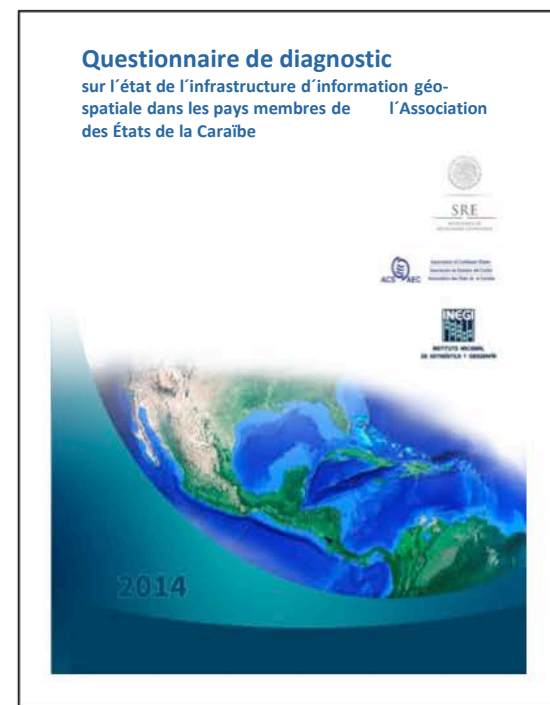
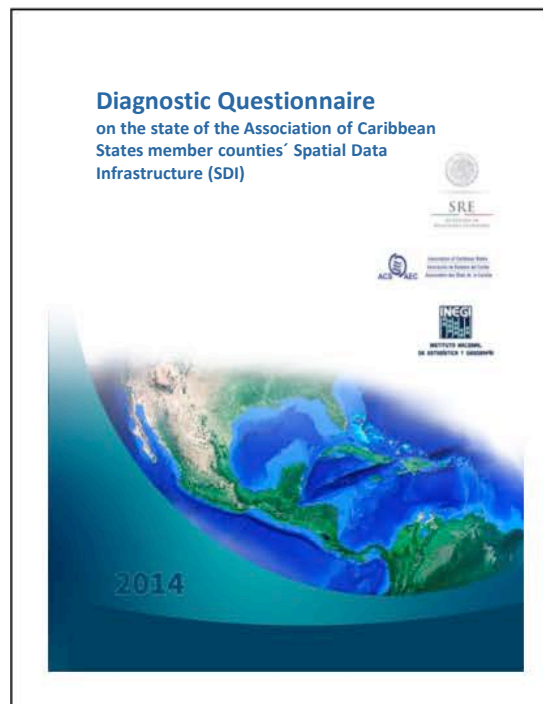
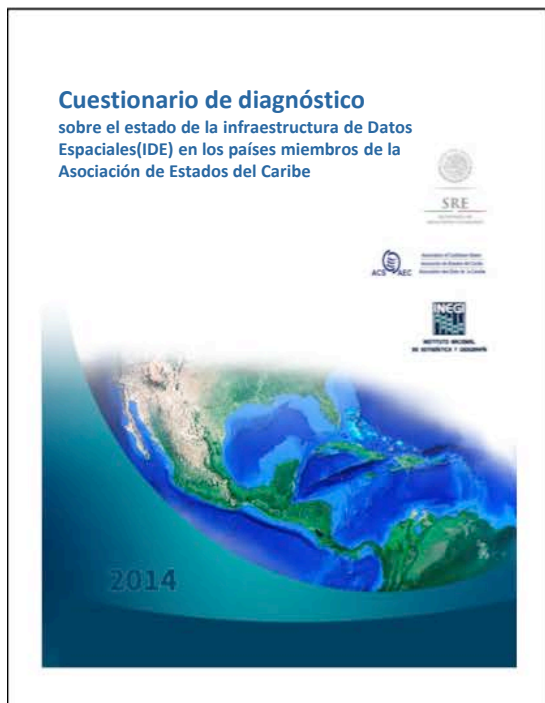
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RELACIONES EXTERIORES

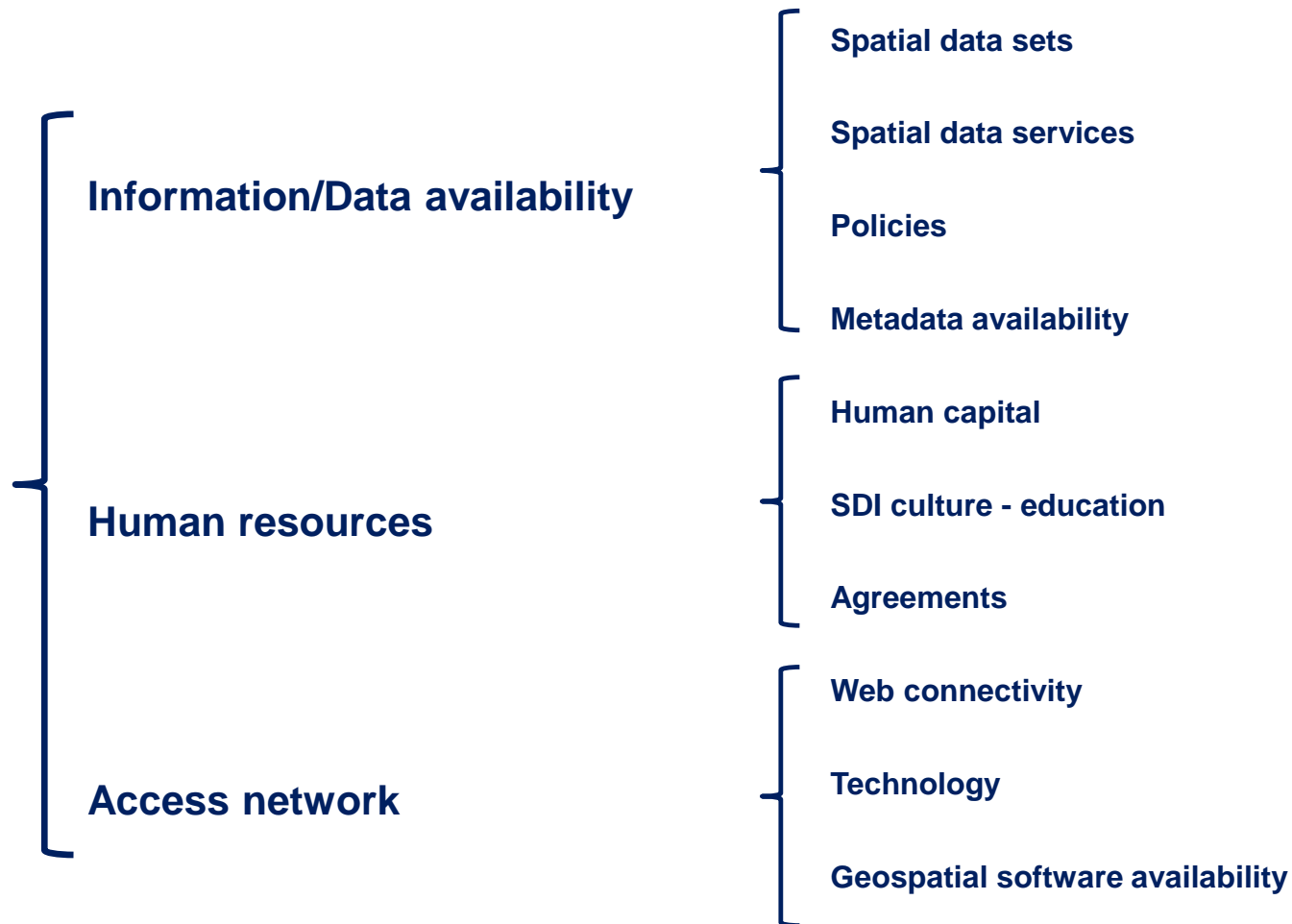


INEGI
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1. Diagnosis of the geospatial information management status



Elements considered in the diagnosis



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2. Capacity building



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The capacity building strategy is according to the following training needs:

- Geodesy
- Cartography
- Photogrammetry
- Cadastre
- Field Compilation
- Remote Sensing
- Photointerpretation
- Geographic Databases
- Geoportals and Geoservices
- Geographic Information Systems
- Geographic Metadata
- Analysis and Use of Geographic Information
- Digital Elevation Models
- Geostatistics
- Geographic Information Standards
- Programming and Application Development

2. Capacity building

Exploring Collaborative projects with the following institutions:

- Pan American Institute of Geography and History (PAIGH)
- GeoSUR
- SIRGAS
- Open Geospatial Consortium (OGC)
- World Bank- GeoNode
- International Cartographic Association (ICA)
- MacDonald, Dettwiler and Associates Ltd (MDA), Canada
- University of the West Indies
- University of Guyana
- URISA Caribbean Chapter

3. Infrastructure acquisition



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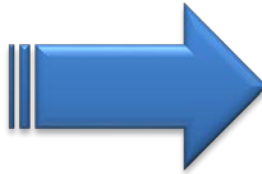
3. Infrastructure acquisition



GNSS continuous operating reference stations



Computer equipment

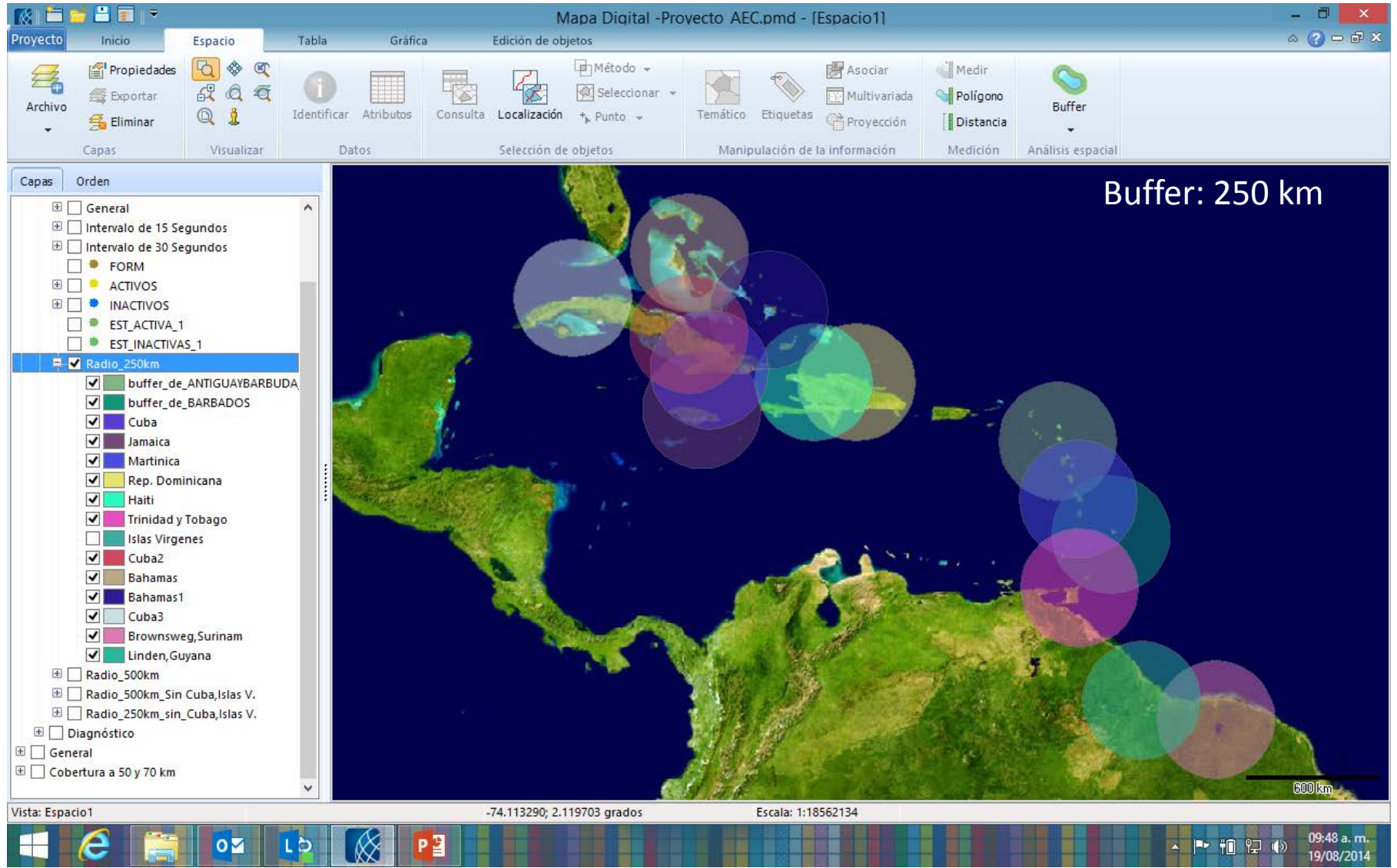


- Caribbean Geodetic Network
- Digital Map for the Caribbean
- Map of Vegetation Cover and Land Use



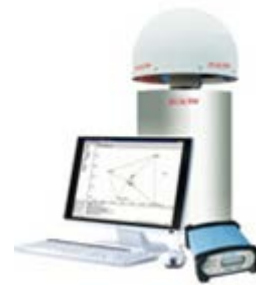
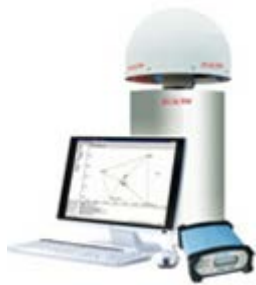
Telecommunications

3.1 Strengthen the Geodetic Network



Geodetic kit for the región

14 GNSS Stations



36 satellite positioning kits
2 reception frequencies

(2 per country)

54 portable, single-frequency
satellite positioning kits

(3 per country)

Informatics kit per country

1 Server



3 work stations



3.2 Geomatics Solution



Goal: a Digital Map of the Caribbean



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3.3 Map of Vegetation Cover



4. Incorporation to UN-GGIM



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UN-GGIM: Americas

First Regional Committee Meeting

Mexico City, September 22-25, 2014,



Specific Project results:

1. **Diagnostic assessment**
2. **Technology and infrastructure:**
 - Strengthen the geodetic reference framework and the integration of the Caribbean Regional Network.
 - Geomatics solution to establish a query, analysis and dissemination of information geomatics.
 - Support the development of a system of classification and mapping of vegetation cover for the region.
3. **Strengthen national and regional capacities**
4. **Enhance the ability to use geospatial information in decision making**
5. **Incorporation to UN-GGIM**



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