

Evaluating Spatial Data Infrastructures in the Caribbean

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THE CARIBBEAN INTEGRATION

- Which Caribbean is considered in this paper?

Integrationist Organizations in The Caribbean

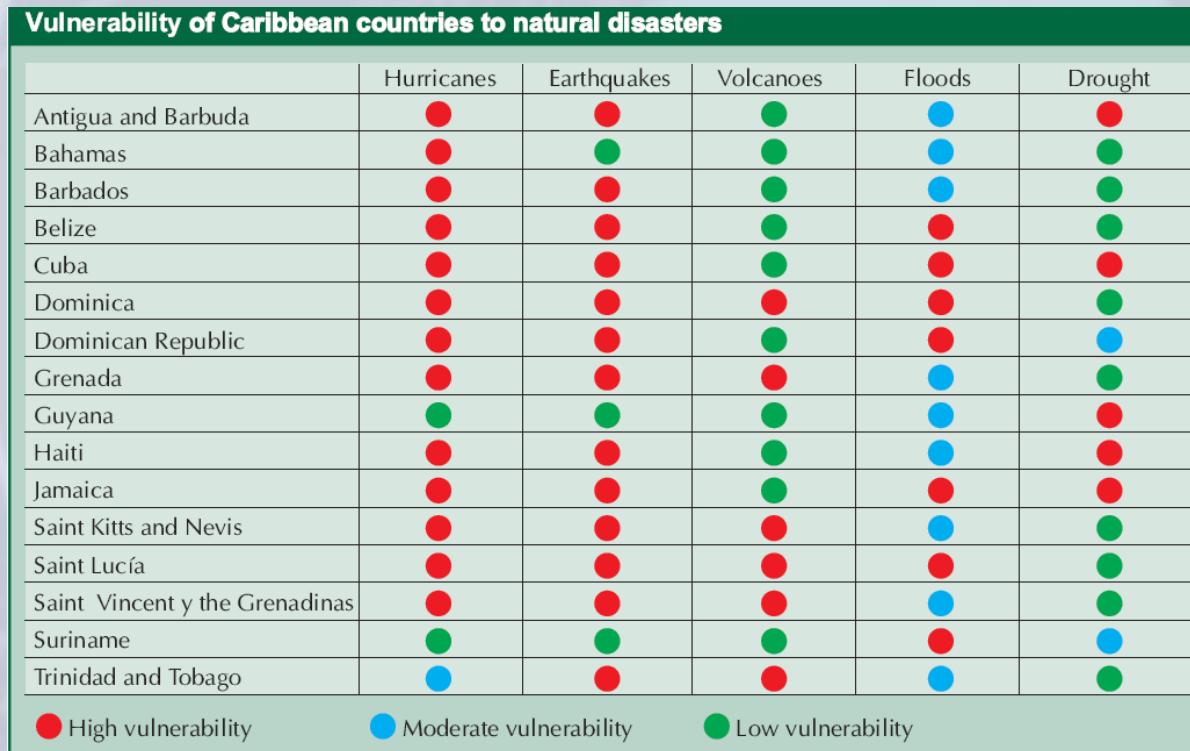
- Association of the Caribbean States - ACS/AEC
- Caribbean Community - CARICOM



Caribbean island countries, selecting some representative ones from larger and smaller islands in the Caribbean. So the countries evaluated are: Anguilla, Barbados, Bermuda, Cuba, Dominica, Dominican Republic, Grenada, Jamaica, Saint Lucia, Trinidad & Tobago and Saint Vincent.

NEEDS TO INTEGRATE THE GEOGRAPHICAL INFORMATION IN THE CARIBBEAN

- Sustainable development



Vulnerability of Caribbean countries to natural disasters (Source UNEP, 2003)

GEOMATICA 2009, Habana
Febrero 2009

EVALUATING SDIs IN THE CARIBBEAN

- Study to measure an SDI Readiness Index for countries in the region to undertake SDI

FACTORS IN THE SDI READINESS

Factor	Decision Criteria
Organizational (O)	Politician vision (Ov)
	Institutional leadership (Ol)
	Umbrella legal agreement(s) (Oa)
Information/ Data availability (I)	Digital cartography availability (Ic)
	Metadata availability (Im)
People (P)	Human Capital (Pc)
	SDI culture-education (Ps)
	Individual leadership (Pl)
Access network (A)	Web connectivity (Aw)
	Telecommunication infrastructure (At)
	Geospatial software availability (As)/ own development (Ad)/ open source (Ao)
Financial Resources (F)	Government central funding (Fg)
	Data Policy aimed to return on investment (Fr)
	Private sector activity (Fp)

SDI READINESS INDEX

Degree to which a country is prepared to deliver its geographical information in a community (local, national, regional or global)

ASSESSING FACTORS

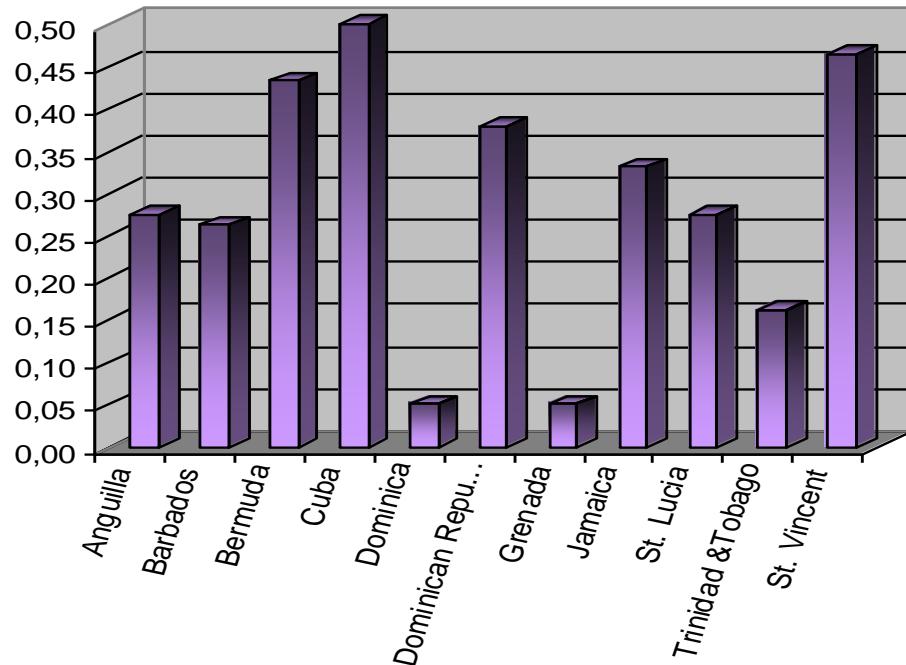
Caribbean SDI Readiness - Organization Index

Caribbean SDI Readiness - Information Index

Caribbean SDI Readiness - Human Resources Index

Caribbean SDI Readiness - Technological Index

Caribbean SDI Readiness - Financial Resources Index

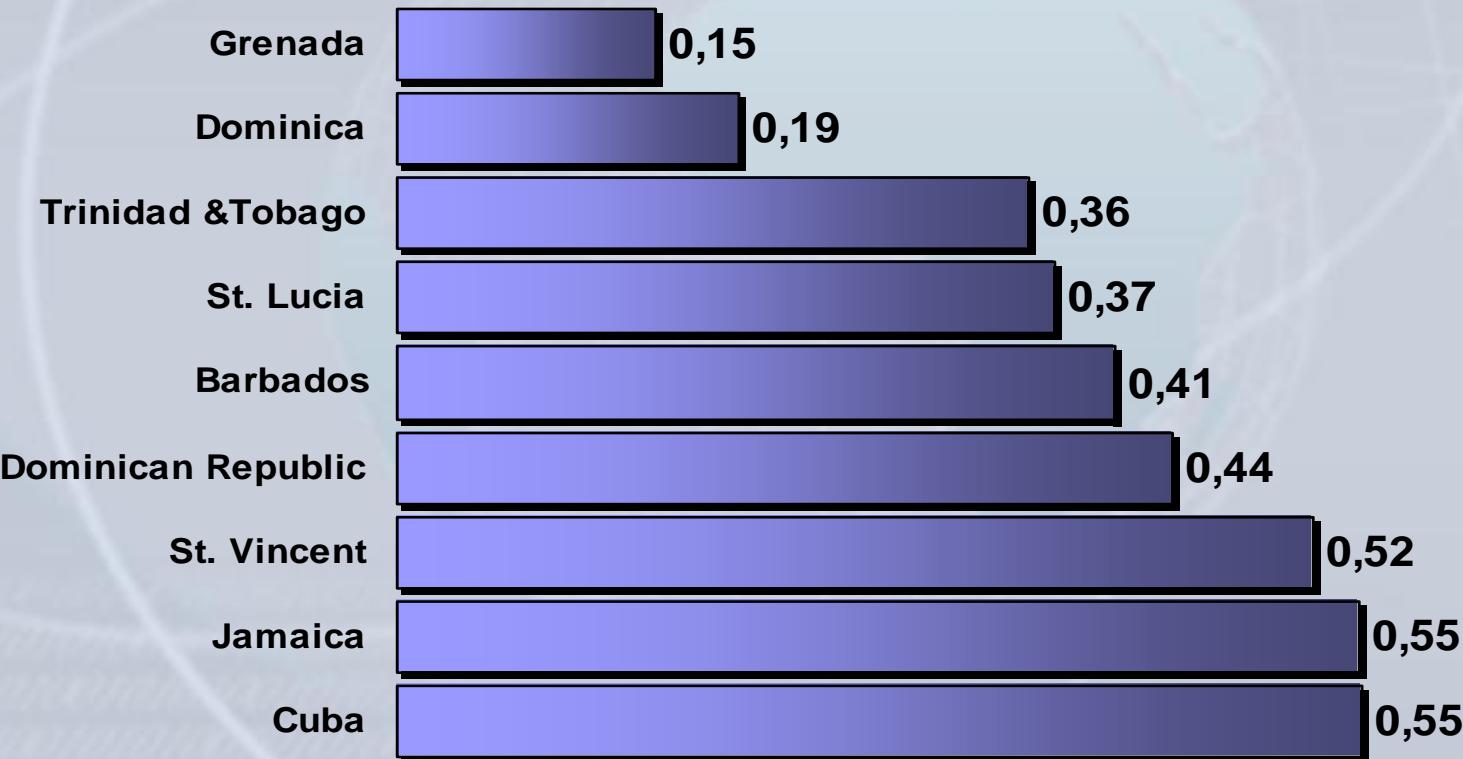


SDI Readiness in the Caribbean

Informática
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2009

LA HABANA, CUBA

SDI Readiness



Conclusions

At this moment, the development of SDI and GIS-implementations for sustainable development in the Caribbean happens to be **ad hoc and fragmented**. Initiatives started at various levels of government. Island nations as well as regional (UN) agencies are working on relatively isolated projects.

The evaluation results relating the SDI Readiness approach show that SDI-development in the Caribbean is still in infancy stage and **the differences in SDI-development among the island nations are high**. In particular **the low level of financial resources is concerning**.

Focusing on the most advanced NSDIs in the region show that **the keys for success might be having formulated a long-term NSDI-vision, having someone with strong leadership involved, investing in capacity building and establishing a National GI-Association that is involved in the coordination of the NSDI**. On the other hand, the building blocks relating legal aspects, pricing and funding, and network services are weakly developed.