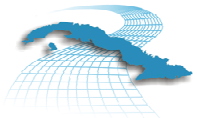


SDI READINESS

TATIANA DELGADO FERNÁNDEZ, CIDERC, CUBA
RAFAEL ESPÍN, CUJAE, CUBA

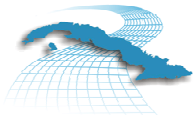


Multi-view framework to assess
NSDI, May 2007



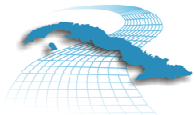
SDI READINESS INDEX

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



SDI READINESS INDEX - METHODOLOGY

1. To identify factors
2. Considering the fuzzy-compensatory logic model:
 - 2.1 To define logical propositions (semantic of SDI readiness)
 - 2.2 To determine the corresponding mathematic expression
 - 2.2 To compute the indexes, both per factor and composite (SDI Readiness Index)

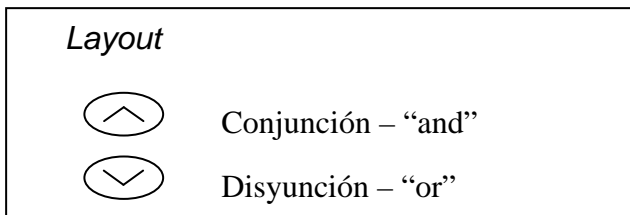
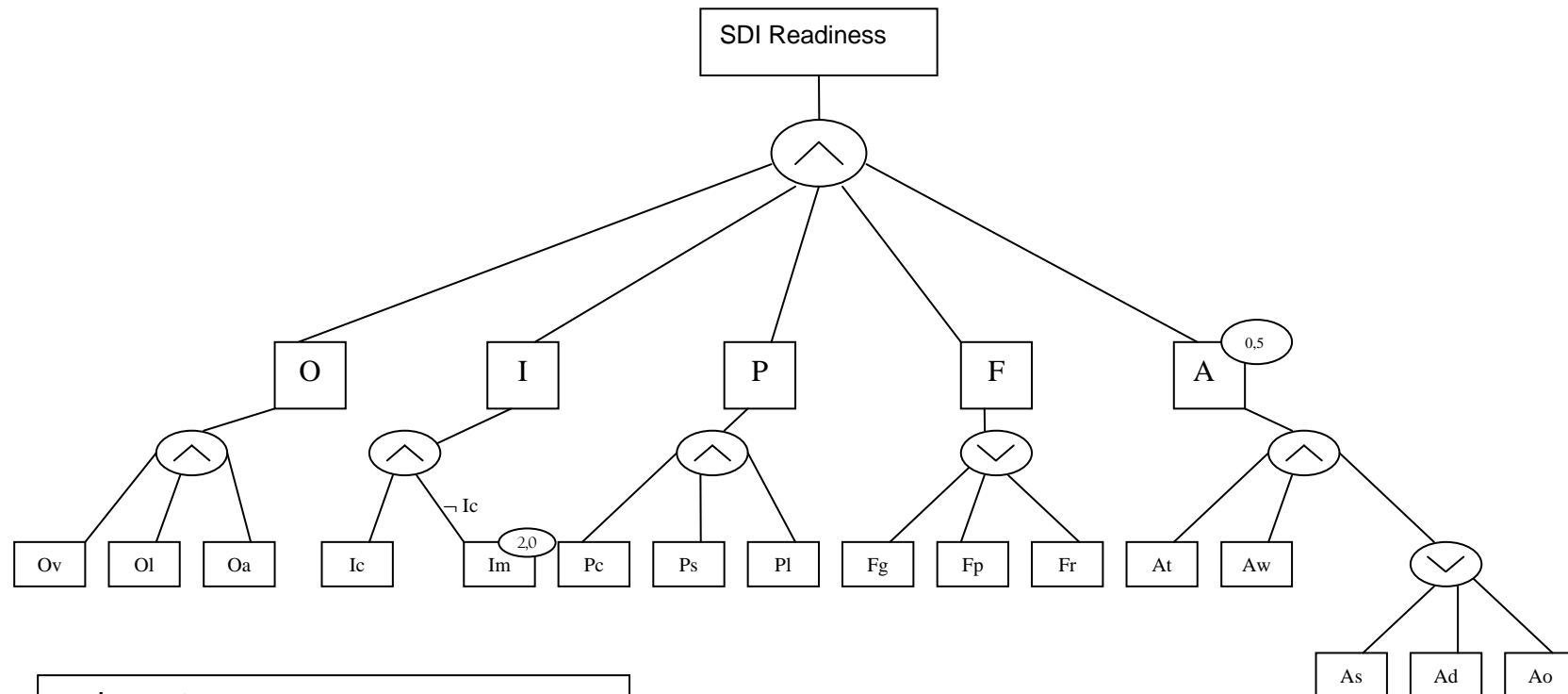


FACTORS IN THE SDI READINESS

Factor	Decision Criteria
Organizational (O)	Politician vision (Ov)
	Institutional leadership (OI)
	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 (PI)
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)



MODEL BASED ON COMPENSATORY-FUZZY LOGIC



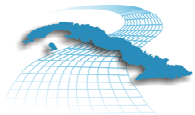
EVALUATING SDIs IN IBERIA-AMERICAN AND THE CARIBBEAN

- Iberia-American Program of Science and Technology for Development (CYTED), which includes 19 countries of Latin-America, Spain and Portugal
- Project CYTED 606PI0294, IDEDES (2006-2009) entitled “Evaluation and strengthening of SDI for sustainable development to Latin-America and the Caribbean”, which integrates 18 institutions from 8 countries: Argentina, Brazil, Chile, Colombia, Cuba, México, Spain and Uruguay
- Innovation Program “Space for Geo-Information” (RGI-005) from The Netherlands



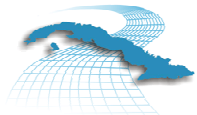
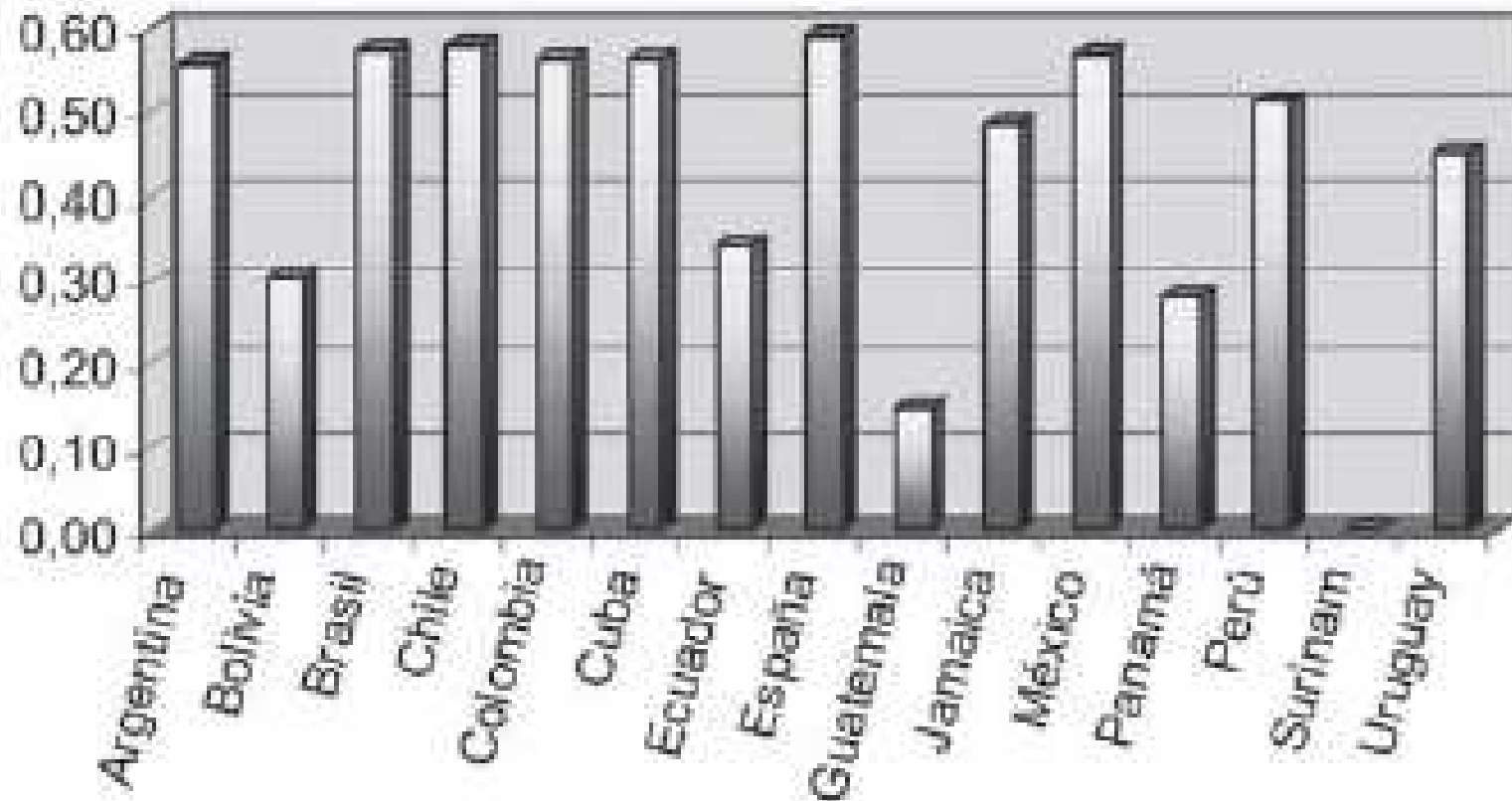
EVALUATING SDIs IN IBERIA-AMERICAN AND THE CARIBBEAN

- To measure an SDI Readiness Index for countries in the region to undertake SDI
- Assessing the “State of Play” of National SDI in some selected countries from the results of the first study

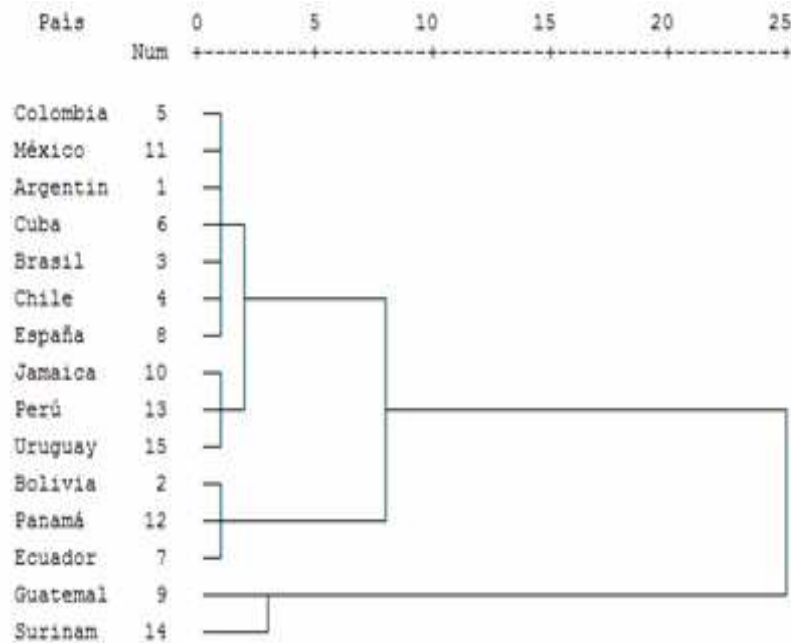


ASSESSING FACTORS

Índice de Alistamiento en IDEs en Iberoamérica y el Caribe



CLASSIFYING COUNTRIES BY THE SDI READINESS INDEX



GROUP A: COLOMBIA, MEXICO, ARGENTINA, CUBA, BRAZIL, CHILE, SPAIN

GROUP B: JAMAICA, PERU, URUGUAY

GROUP C: BOLIVIA, PANAMA, ECUADOR

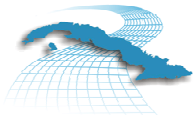
GROUP D: GUATEMALA

GROUP E: SURINAM



Conclusions and recommendations

- SDI Readiness could be used by any country to evaluate its preparedness in a multi-view perspective to undertake an SDI
- Research work is necessary
 - to make more objective the way to assign values to the factors
 - to define a more comprehensive semantic of the SDI Readiness by means of the fuzzy-compensatory propositions



QUESTIONS

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Multi-view framework to assess
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