SDI Readiness

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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

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

Multi-view framework to assess NSDI, May 2007
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

Argentina, Bolivia, Brasil, Chile, Colombia, Cuba, Ecuador, España, Guatemala, Jamaica, México, Panamá, Perú, Surinam, Uruguay

Multi-view framework to assess NSDI, May 2007
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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