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National Commission of the Cuba Republic SDI

## The Cuba Republic SDI, advances and perspectives



Ninth United Nations Regional Cartographic Conference for the America, August 2009



## ACKNOWLEDGEMENTS

- National Commission of the SDI of the Republic of Cuba
- Ninth United Nations Regional Cartographic Conference for the America



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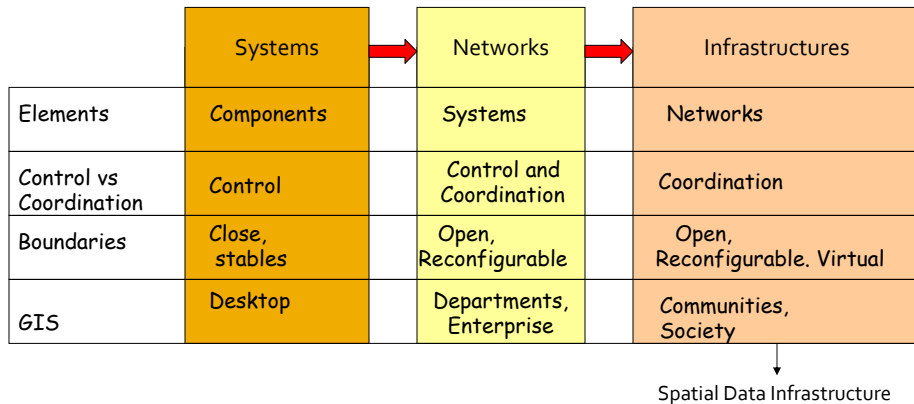
# CONTENT



- Understanding SDI
- Status of the National SDI in Cuba (IDERC)
- Perspectives: Deployment and Cooperation

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# SYSTEMS-NETWORKS-INFRASTRUCTURES



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## UNDERSTANDING SDIs



- *SDIs can be defined as integrations of socio-technical networks with open, reconfigurable and virtual boundaries, basically based on coordination mechanisms*



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## IDERC: ORGANIZATION



**Agreement No. 5535  
Executive Committee of Ministers Conceil  
16 September 2005**

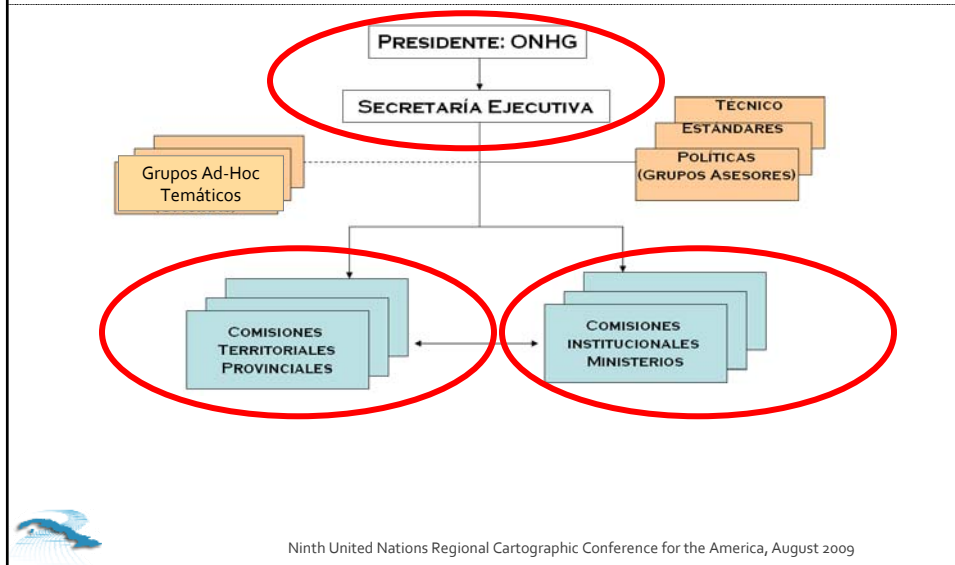


**National Commission of the Cuba Republic SDI  
(CIDERC)**



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# CIDERC: ORGANIZATION



# IDERC: METADATA AND CATALOGUE SERVICES



GeoNetwork: Geoportal de búsqueda, visualización y descarga de información y datos espaciales

http://localhost:2001/geoportal/arcgis/metadata.action?id=1&locurlTab=single

Inicio | Página de resultados | Inf. Contacto | Enlaces | Acerca | Ayuda

English | Français | Español

Usuario: \_\_\_\_\_ Contraseña: \_\_\_\_\_ Iniciar Sesión

Vista predefinida: Vista en bloques, Arbol XML

**Información de identificación**

**Título:** Mapa Planimétrico Digital de Ciudad de La Habana a escala 1:2 000

**Fecha:** 1990-12-30 (creation)

**Fecha:** 2002-11-30 (publication)

**Formato de presentación:** Map Digital

**Idioma:** es

**Wicket de caracteres:** UTF8

**Resumen:** Mapa planimétrico de Ciudad de La Habana compuesto por 10 capas (manzanas, viales, hidrografía, nombre de calles, nombre de hidrografía, límite municipal, límite de barrios)

**Información adicional**

**Proyecto:** \_\_\_\_\_

**Status:** Completed

**Tema o categoría:** Boundaries

**Palabras clave descriptoras:** Planimetría, Hidrografía, Asentamientos, Viales, límites (theme).

**Tipos de representación espacial:** Vector

**Escala equivalente**

**Denominador:** 5000

**Envolvente geográfica**

**Latitud Norte de la envolvente:** 23.1728

**Longitud Este de la envolvente:** \_\_\_\_\_



# GEOSPATIAL PORTAL (GEOPORTAL) DE LA IDERC

## Components -Services

- Portal services
- Catalogue Services
- Portrayal Services
- Data Services



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# IDERC: APPLICATIONS



- *MovilWeb: Fleet Management Application*



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# IDERC: STANDARDS



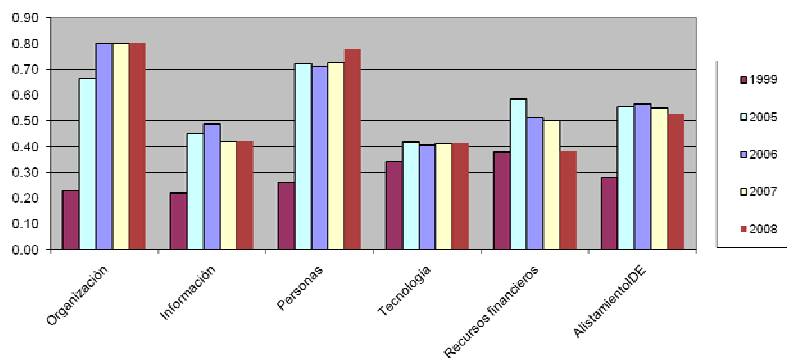
## ■ CTN 113 Geomatics

Código	Título	Referencia
113.001-08	Lenguaje de Esquema Conceptual	ISO TC211-19103
113-002-08	Terminología	ISO TC211-19104
113-003-08	Esquema Temporal	ISO TC211-19108
113-004-08	Reglas para Esquemas de aplicación	ISO TC211-19109
113-005-08	Principios de Calidad	ISO TC211-19113
113-006-08	Procedimientos de Evaluación de Calidad	ISO TC211-19114
113-007-08	Metadatos	ISO TC211-19115
113-108-08	Información Geográfica. Referencia Espacial por Coordenadas	ISO TC211-19111
113-009-08	Conformidad y prueba	ISO TC211-19105
113-010-08	Interfase de Servidor de Mapas Web.	ISO TC211-19128

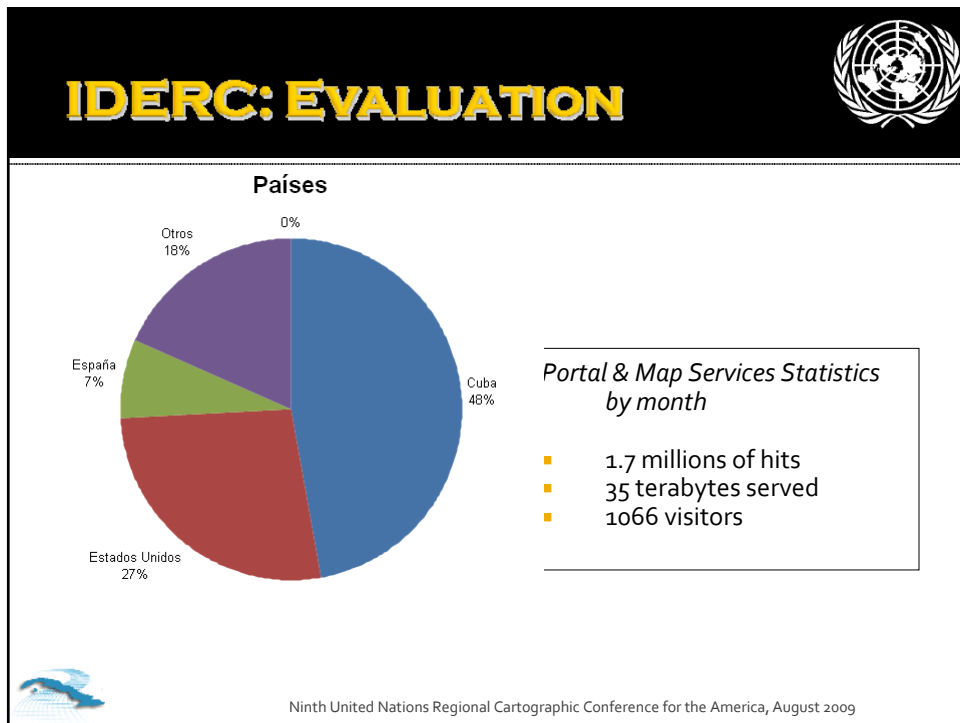
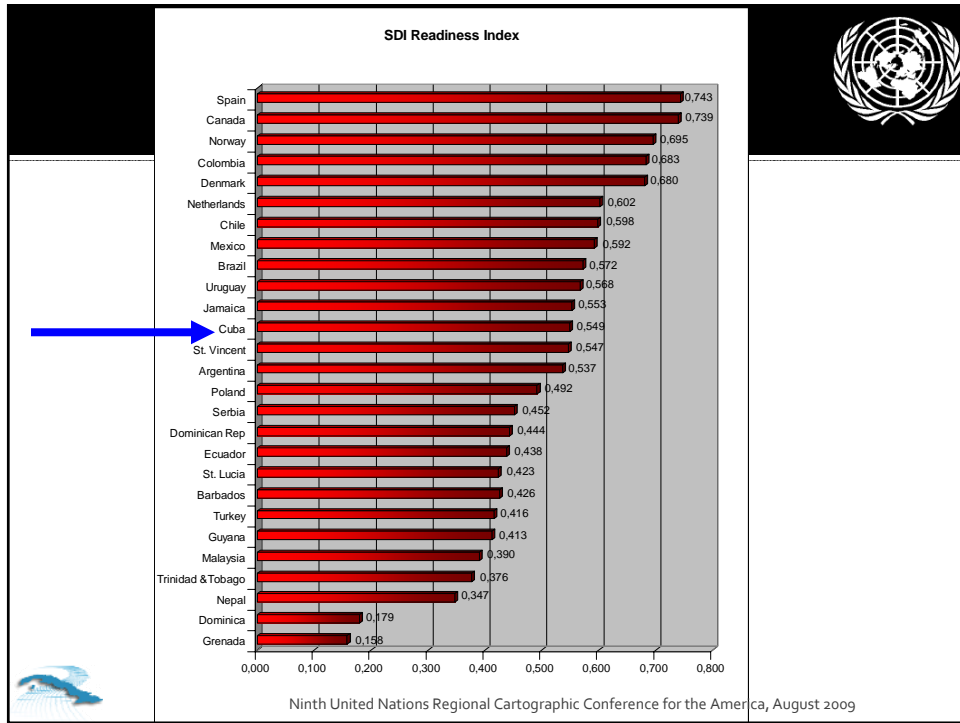


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# IDERC: EVALUATION



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## SDI AT LOCAL LEVEL: UNDP PROJECT



- Assessed the actual capacity in the province to undertake Spatial Data Infrastructures and the best practices to optimize the use of the geographic information
- Strengthened the capacity to decision making and local management, by means of the delivering of geospatial data and services associated to the locality
- Created References Rooms or One-Stop in municipal and provincial levels of government with access to geospatial services at local level linked to the NSDI
- Built capacity in the use and exploitation of the Spatial Data Infrastructure into the stakeholders and citizen in the territory.
- An Spatial Data Infrastructure properly embedded within the overall information infrastructure supporting governance processes at provincial level.
- Strengthened the legal framework to support sustainable Spatial Data Infrastructures at local level.



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## SDI AT LOCAL LEVEL: LESSONS LEARNT



- A multi-criteria diagnostic as starting point
- A Coordination Group at local level subordinated to the Government or other politic "champion"
- A legal framework at local level to support the sustainability of the initiative
- Definition of policies based on principles
- Middle and long term strategy
- Hierarchical priorities at local levels
- Collaborative Alliances
- Capacity building
- Alignment to the actual social missions of the stakeholders
- Stimulation of multi level stakeholder participation and not only the official Coordination Group members (users as producers)



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## PERSPECTIVES: IDERC DEPLOYMENT



- Organization: Fostering legal frameworks to support SDIs at different levels (territories and sectors)
- Education and training: Alliances with universities distributed in the whole country
- Applications and Portals deployment at territory and thematic levels
- Provision of data and services in a broad distribution approach
- Activation of cooperation at maximum level possible



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## Conclusions



1. **COORDINATION** is the essential function in SDIs
2. The most important progress in the SDI of the Republic of Cuba can be appreciated like the derivation of the **Coordination** activities of the National Commission of the IDERC with its long-term vision (strategies) and its systematic implementation (annual working plans) in a broad participation of stakeholders approach (central, provincial and municipality levels)
3. The main future work will be focused to the **DEPLOYMENT** (horizontally and vertically) of the IDERC in the society, and **COOPERATION** insight and abroad.



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# Workshop "Social Semantic SDI" Panama, 9-11 de Noviembre 2009



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**CYTED IDEDES**

