PC-IDEA
Final Report of Activities

Luiz Paulo Souto Fortes
President of PC-IDEA

10th United Nations Regional Cartographic Conference for the Americas
19 - 23 August 2013, New York, United States

UNRCC | United Nations Regional Cartographic Conferences

Permanent Committee for Geospatial Data Infrastructure of the Americas (PC-IDEA)

Established on February 29, 2000, based on the Resolution #3 of the 6th United Nations Regional Cartographic Conference for the Americas – UNRCC-A (1997)

- To maximize the economic, social and environmental benefits derived from the use of Geospatial Information
- Accomplished through knowledge and exchange of experiences and technologies between countries, based on common standards which would allow the establishment of the Geospatial Data Infrastructure of the Americas
- It implements the regional mechanism associated to the United Nations Global Geospatial Information Management (UN-GGIM) initiative

PC-IDEA Objectives

- Establish and coordinate policies and technical standards for the development of geospatial data infrastructure for the Americas
- Promote the establishment and development of NSDI in each PC-IDEA member country
- Promote the interoperability of information and systems among member countries, through the use of standards
- Encourage the sharing of geospatial information among all member countries in the Americas, while respecting their autonomy and their national laws and policies
- Stimulate cooperation, research, complementation and sharing of experience in areas of knowledge related to geospatial data
- Advise in the drafting of guidelines and strategies to support PC-IDEA member countries in developing geospatial information, considering the individual needs of each country
- Set priorities for information sharing, considering the regulatory framework of each member country
- Promote SDI training activities and technology transfer

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CP-IDEA

Member Countries

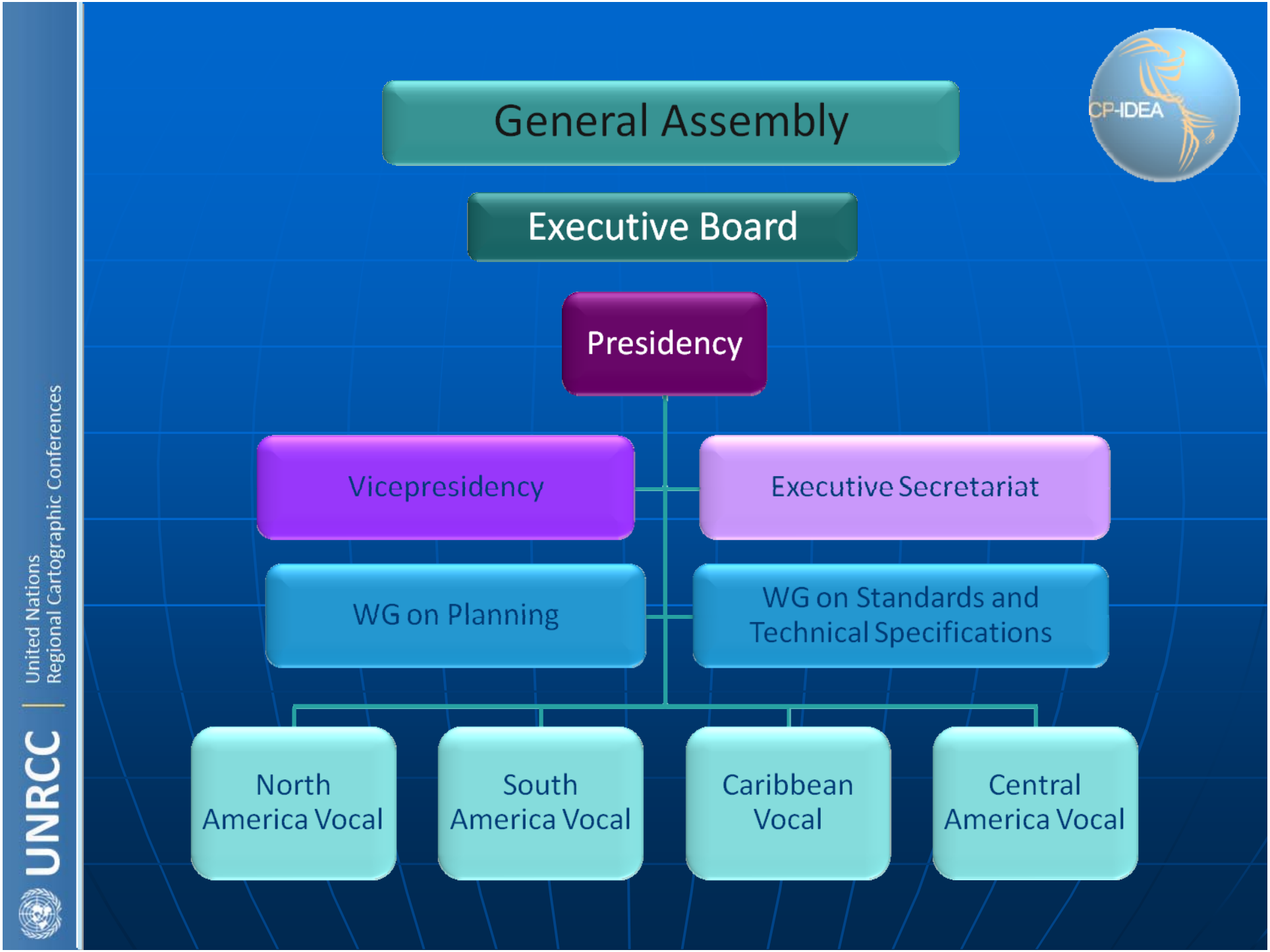
- Argentina
- Belize
- Bolivia
- Brazil
- Canada
- Chile
- Colombia
- Costa Rica
- Cuba
- Dominican Republic
- Ecuador
- El Salvador
- Guatemala
- Guyana
- Honduras
- Jamaica
- Mexico
- Nicaragua
- Panama
- Paraguay
- Peru
- United States
- Uruguay
- Venezuela

CP-IDEA

Distribution of countries by region

Region	Number of Countries	Number of PC-IDEA Member Countries	%
North America	3	3	100
Central America	7	7	100
South America	12	11	92
The Caribbean	13	3	23

Source: ECLAC


General Assembly
Executive Board
Presidency
Vicepresidency
Executive Secretariat
WG on Planning
WG on Standards and Technical Specifications
North America Vocal
South America Vocal
Caribbean Vocal
Central America Vocal
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UNRCC

President

Luiz Paulo Souto Fortes (Brazil)

Vice President

Executive Secretary

Valéria Araújo ***(****Brazil)*

North America Vocal Member

Ivan DeLoatch (USA)

Central America Vocal Member

Edwin Guillermo Santos Mansilla *(Guatemala)*

Caribbean Vocal Member

South America Vocal Member

Matias Fortuño (Chile)

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Changes in the Executive Board

Vice-President

Mr. Mario Reyes – INEGI / Mexico
Mr. Cristian Aqueveque – SNIT /Chile
Mr. Esteban Tohá – SNIT /Chile
Now: Vacant

Caribbean's Vocal

Mr. Eloy Luis Alum Ortiz (Crnl) – ONHG / Cuba
Mr. Cándido Regalado (Crnl) – ONHG / Cuba
Now: Vacant

Central America Vocal

Mr. Ronald Estuardo Arango Ordoñez – IGN / Guatemala
Mr. Oscar Leonel Figueroa Cabrera – IGN / Guatemala
Mr Edwin Guillermo Santos Mansilla – IGN / Guatemala

South America Vocal

Mr. Cristian Aqueveque – SNIT /Chile
Mr. Esteban Tohá – SNIT /Chile
Mr. Matías Soto Fortuño – SNIT /Chile

PC-IDEA Members, Collaborators and UN Staff

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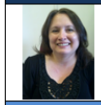
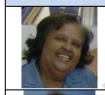
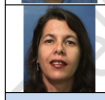
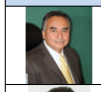
Annex C

Current and Previous Members
(2009 – 2013)

Titular and Substitute Members (on August 2013)	Old Members (2009-2013)
ARGENTINA	
Sergio Rubén Cimbaro (T) Instituto Geográfico Nacional _/ IGN	
Ricardo Ramón Mansilla (S) Instituto Geográfico Nacional _/ IGN	
BELIZE	
Carren Williams (T) Ministry of Natural Resources and Agriculture / MNRA	
Elam Torres (S) Ministry of Natural Resources and Agriculture _/ MNRA	
BOLIVIA	
Adolid Cortez Verduguez (T) Instituto Geográfico Militar / IGM	
Santos Luis Quispe Choque (S) Instituto Geográfico Militar / IGM	

Annex E

Members and Collaborators of the Working Group or

Coordinator		
	Álvaro Monett Hernández	Ministerio d
Co-coordinator		
	*Paula McLeod*	Natural Re
Members		
Brasil		
	*Moema José de Carvalho Augusto*	Instituto Brasile
	*Anna Lucia Barreto de Freitas*	Instituto Brasile
Mexico		
	*Carlos Agustín Guerrero Elemén*	Instituto N Ge
	Luis Gerardo Esparza Ríos	Instituto Nacional de Estadística y Geográfia / INEGI

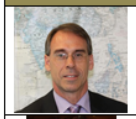
Annex F

Members and Collaborators of Working Group on Standarts and Technical Specifications (GTnet)

Coordinador		
	Carlos Agustín Guerrero Elemén	Instituo Nacional de Estadística y Geográfia - INEGI
	Luis Gerardo Esparza Ríos	Instituo Nacional de Estadística y Geográfia - INEGI
Members		
Brasil		
	Moema José de Carvalho Augusto	
	Silvana Philippi Camboim	
	Omar Antônio Lunardi	
Canada		
	Jean Brodeur	
Colombia		
	Alberto Boada Rodriguez	

Annex D

United Nations Members
(2009 – 2013)

UN Statistic Division			
	*Stefan Schweinfest* Acting Director		*Paul Cheung* (Director until Dec 2012)
	Cecille Blake		*Amor Laaribi*
	Gregory Scott		*Vilma Frani*

People involved (2009-2013)

Principal and Substitute Members: 66
WG on Planning: 27
WG on Standards and Tech. Specifications: 16
UN Staff: 6 **TOTAL: 115**

New Statute

The document was approved in May 2010, as follows: 17 votes in favor and 1 abstention (6 countries did not submit their votes).

Spanish and English

http://www.cp-idea.org/documentos/Estatuto_CPIDEA_maio2011_final_esp.PDF
http://www.cp-idea.org/documentos/Statute_PCIDEA_maio2011_final_eng.pdf

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Resolutions of 9th UNRCC-A (implemented by PC-IDEA in 2009-2013)

1. Establishment of PC-IDEA Working Groups on:
   a) Institutional strengthening, education and training
   b) Technical standards and specifications
   c) Best practices and applications
   d) Innovations for national mapping agency business models
2. Establishment of mechanisms for the construction of SDI in the region
3. Survey on the state of mapping by countries
4. Creation of a forum to exchange and share SDI best practices
5. Organization of an event to discuss disaster and risk management and SDI
6. Funding issues
7. Support of the construction of SDI in developing countries, especially in the Caribbean region

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Working Groups 2009 - 2013

Working Group on Planning (GTplan) in May 2010 (Chile and Canada)

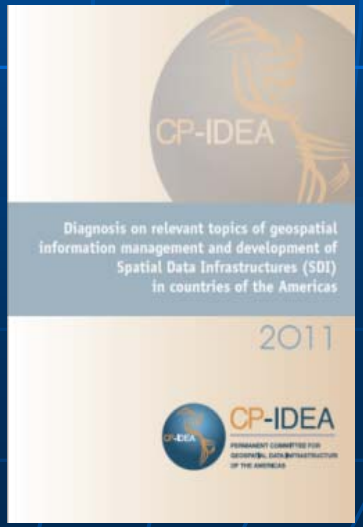
Institutional capacity building	• Colombia
Standards and technical specifications	• Mexico
Gather knowledge related to SDI	• Guatemala • Chile
Best practices and guidelines for the development of SDI	• Canada
Innovations in National Mapping Organizations	• Brazil
Technological means for discussions related to SDI	• Chile
Assessments of SDI development	• Cuba • Canada

Working Group on Standards and Technical Specifications (GTnet) in Dec 2012 (Mexico)

PC-IDEA Working Group on Planning (GTplan)

- ✓ A questionnaire with 76 questions was designed by GTplan and applied to PC-IDEA member countries in 2011
- ✓ In 2013, a subset of the 2011 questionnaire was applied to PC-IDEA member countries to assess the advances during these 2 years

The results of both questionnaires fed the subsequent activities towards establishing and implementing PC-IDEA work plan



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Working Group on Standards and Technical Specifications (GTnet)

Coordination: Mexico
Bolivia, Brazil, Canada, Colombia, Honduras
Collaboration of the Open Geospatial Consortium (OGC)

GOAL

To establish a set of standards and technical specifications that apply to the region within a common scenario, considering and respecting the specificities of each country.

ACTIVITIES

- Developing a vision for the integration of geospatial information in the region, through the use of standards
- Establishing the state of the art in the development and use of standards, as well as multinational profiles in the region
- Preparing proposals of core standards for the region
- Coordinating the participation in regional organizations and normalization initiatives
- Developing manuals related to use of the standards for the daily management of information

Seminar “Spatial Data Infrastructures – SDI as a Natural Disaster Risk Management Service”

- August 17, 2012, during the Second Latin-America Geospatial Forum - LAGF 2012, in Rio de Janeiro, Brazil
- PC-IDEA in partnership with Geospatial Media and Communications

To promote the exchange of experiences and concepts in the design, development and advancements of the components of an SDI in natural disaster risks management, emphasizing the use of geospatial information

Attendance: professionals and experts from public, private, academic and non-governmental organizations from the region, involved in issues related to SDI and the management of disaster risks

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Seminar “Spatial Data Infrastructures – SDI as a Natural Disaster Risk Management Service”

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Themes

1.SDI for risk management of natural disasters
2.Geographic information for the awareness of the risk
3.SDI in defining processes and protocols for the management of natural disaster risks
4.Information technologies for the management of risks: earth observation technologies
5.Geographic Information Systems

Participating Institutions

✓UFRJ - Brazil
✓PC-IDEA
✓INPE – Brasil / International Charter
✓GeoConnections - Canada
✓SNIT – Chile
✓CENAD / Defesa Civil Nacional – Brazil
✓DigitalGlobe, Brazil
✓Instituto Geografico Nacional do Panama Tommy Guardia – Panama

Seminar "Spatial Data Infrastructures – SDI as a Natural Disaster Risk Management Service"

Recommendations

1. Countries make data, metadata and information aimed at emergency prevention and response available
2. UN, supported by regional bodies, such as PC-IDEA, PCGIAP, CODIST etc. encourage governments in their various instances to create and maintain their respective national SDI
3. The creation of a working group, under CP-IDEA, aiming at studying the specific use of SDI for managing risks of natural disasters in the Americas
4. The participation of the countries of the Caribbean region in PC-IDEA be encouraged
5. The creation of mechanisms that consider the possibility of assessment and, when appropriate, the incorporation of geospatial information obtained through voluntary contributions

6. All levels of government involved in the control and monitoring of these phenomena assess the possibility of becoming potential sources of funding for pre-disaster phases, i.e. , that these instances are able to fund and support SDI
7. That a second edition of the event, preferably within one year, be carried

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Financial Resources

CYTED Convocation

✓"Ibero-American Network to improve and enhance the use of spatial data infrastructures (SDI) in territorial planning"

✓Objective: stimulate the creation of a scientific and technological research network associated to PC-IDEA

✓Brazil, Chile, Colombia, Cuba, Guatemala and Portugal

✓**€ 33,000 per year for a four-year project**. The proposal was presented in April 2010

World Bank

✓"Strengthening of Spatial Data Infrastructures (SDI) of the Americas"

✓World Bank (Brazil) in 2010

✓Objective: maximize the economic, social and environmental benefits of the use of geospatial information, seeking to promote the SDI construction in countries that have not started this process, as well as strengthening the implementation and sustainability of existing SDI in the countries of the Americas

✓**US$ 672,645 for three years**

Financial Resources

Pan American Institute of Geography and History (PAIGH)

✓Submitted in May 2012 to cover PC-IDEA Working Groups activities taking into account their alignment to the PAIGH 2010-2020 Pan-American Agenda - which seeks to support national initiatives based on international standards and concepts of spatial data infrastructure

✓**USD 8,000 in 2013**

✓Approved at the 44th Meeting of the PAIGH Steering Council, held in Buenos Aires, Argentina, in November 2012

✓A cooperation mechanism with PC-IDEA through the United Nations (UNSD) has already started to be discussed between the involved entities to support the release of these resources

Final Products

Theme	Product	Type
Capacity Building	Capacity Building Observatory	Website
	User Manual – Capacity Building Observatory	Document
	Implementation Strategy of Capacity Building Plan 2013	Document
	Plan of Courses	Document
Standards and Technical Specifications	Implementation Overview of the Standards Framework of the Americas	Document
	Proposal of CORE Standards of the Americas	Document
	Geospatial Data Model of the Americas	Document
	Standards Database	Website
Best Practice	Spatial Data Infrastructure (SDI) Manual for the Americas	Document
	Best Practice List	Website
Innovations	Diagnosis about Innovation in National Mapping Agencies in countries of the Americas	Document
Tecnology	Website	Website
	User Manual – Website	Document
General	PC-IDEA - Final Report of Activities	Document
	Diagnosis on relevant topics of geospatial information management and development of Spatial Data Infrastructures (SDI) in countries of the America-2011	Document
	Diagnosis on relevant topics of geospatial information management and development of Spatial Data Infrastructures (SDI) in countries of the Americas-2013	Document

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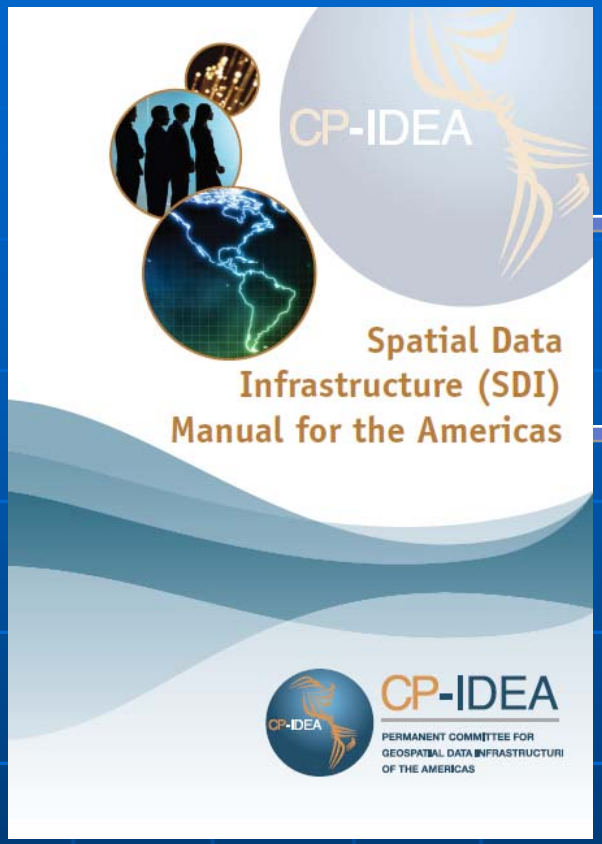
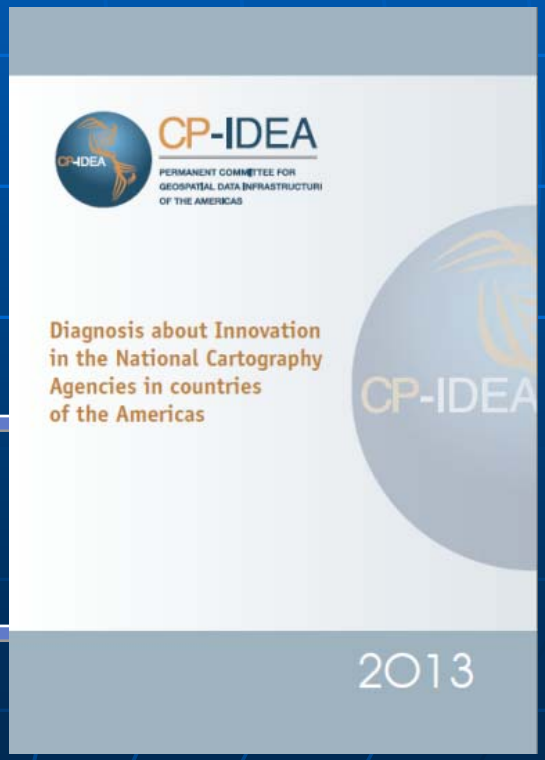


SDI Manual

Diagnosis about Innovations on NMO



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Diagnosis about Innovation on National Mapping Agencies in countries of the Americas

Aspects of NMA surveyed

- Institution name and mission
- Type of institution (18 civil and 6 military)
- Sectorial partnerships
- Production scope
- Products types
- Legal establishment (Canada: the oldest – 1842)
- Address (virtual and physical)
- Innovations
- Relationship with NSDI

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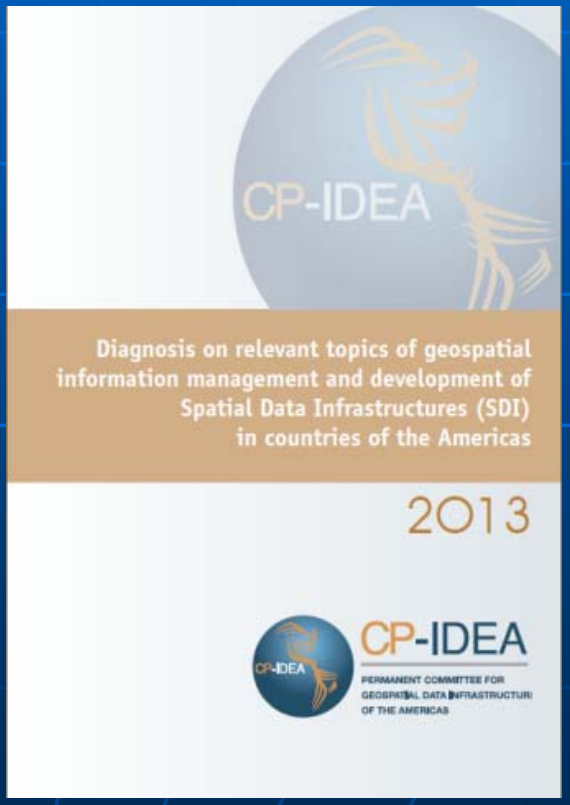
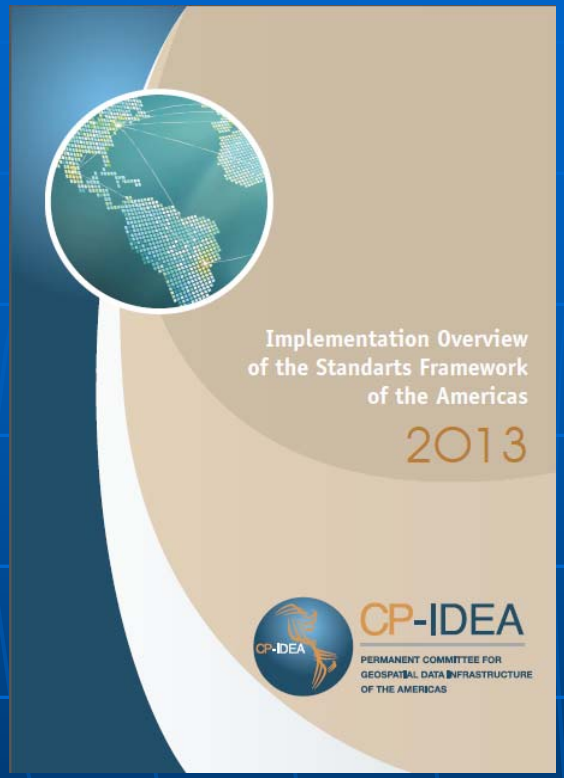
Diagnoses on relevant topics of geospatial information management and development of SDI in countries of the Americas 2011 and 2013





Publications/Database on Standards and Technical Specifications

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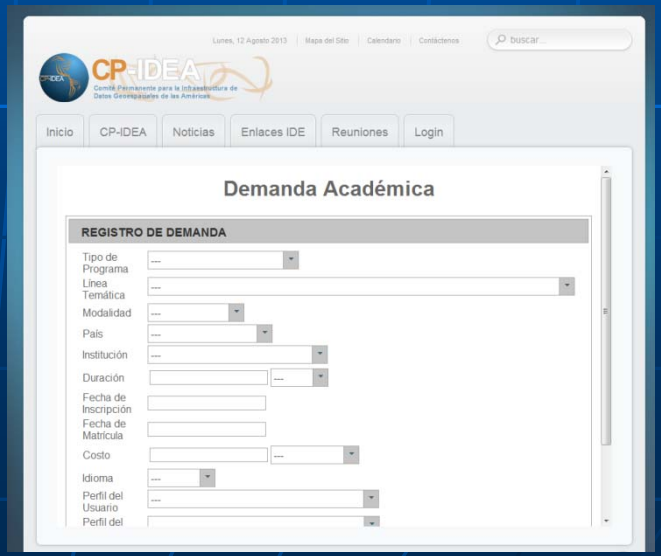
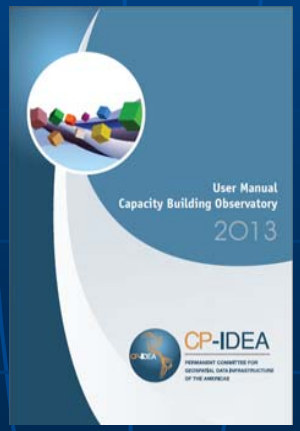
Plan of Courses

User Manual (Capacity Building Observatory)

Capacity Building Observatory



Implementation Strategy of Capacity Building Plan



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New Website

http://www.cp-idea.org/

User Manual

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Final Report
of Activities
2009-2013
CP-IDEA

Other activities of the Committee

Website management
⇒Mexico to Brazil
⇒Brazil to Chile

Meetings and participation in events: **26**
Presentations: **60**

Texts for news and interviews in magazines and journals

Dissemination of the work and activities of the Committee through specific marketing material and e-mail

Dissemination of news and events of interest to the mailing list of members and contributors

Preparation of various reports to the Committee and other bodies

Preparation of the marketing material (folders, banners, front pages, publications, …)

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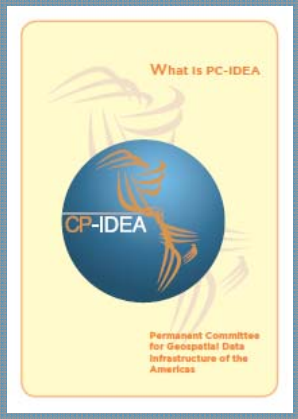
Marketing material, templates and new logo

Banners

Templates



Flyers

New logo

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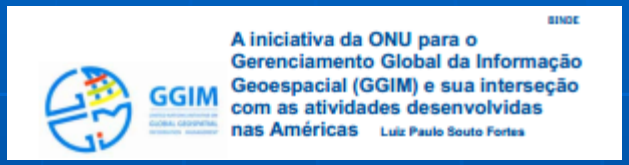
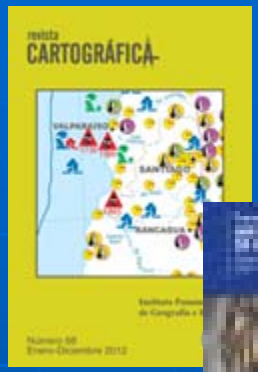
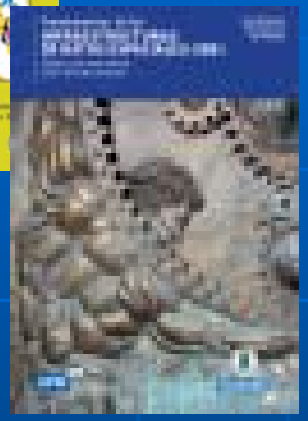
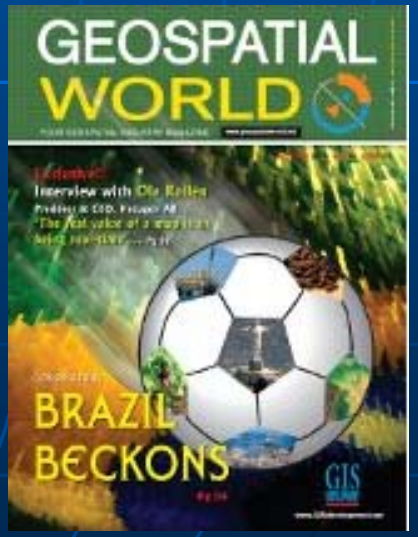
Publications, books, magazines and interviews









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MundoGEO Latin America 2013 Special Award

For the activities carried out during the past four years towards the development of Spatial Data Infrastructures in the Americas

Cooperation and Partnerships

1. PAIGH-SIRGAS-PC-IDEA-GeoSUR Joint Action Plan

This policy document aims to fostering the development of SDI of the Americas, harmonizing efforts and work plans, and avoiding duplication

44th PAIGH Steering Council Meeting
Buenos Aires, November 2012

Available in Spanish, English and Portuguese

http://www.ipgh.org/Iniciativas/JointActionPlan.pdf
http://www.ipgh.org/Iniciativas/PlanConjunto.pdf
http://www.ipgh.org/Iniciativas/PlanodeAcao.pdf

Cooperation and Partnerships

2. Cooperation proposal between the Panamerican Institute of Geography and History (PAIGH) and the United States Statistics Division (UNSD) regarding PC-IDEA activities. This proposal is under discussion between the involved entities.

Final Comments

All goals established by the 9th UNRCC-A have been achieved, in addition to many products/activities that have been generated/carried out during this term. The work plan has been implemented in such a way that the next Executive Board may promote its continuity, in case this is envisaged.

Numerous working meetings have been held during this term:

- **4** plenary meetings
- **1** Executive Board meeting
- **7** GTplan meetings

Besides, a large number of virtual meetings have also been held. All these activities have certainly contributed to the achievement of all goals for this period

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Final Comments

PC-IDEA recognizes the importance of the UN-GGIM initiative, which aims to set a high level forum, coordinated by the member countries, for global geospatial information management. PC-IDEA was glad with the opportunity of actively contributing to the process of building this initiative and its corresponding UN Committee of Experts.

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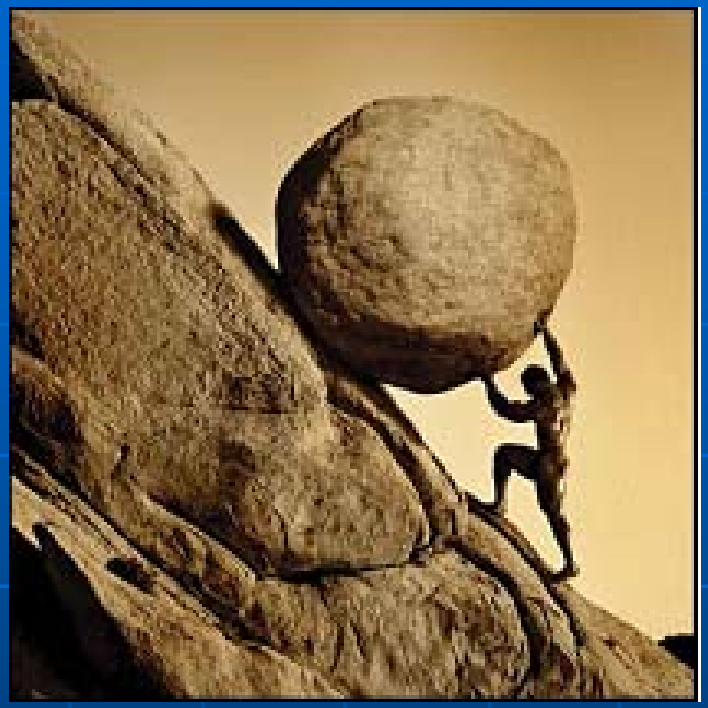
Acknowledgements



Many thanks to all colleagues and institutions for supporting PC-IDEA activities during the 2009-2013 term, specially to:

- PC-IDEA Executive Board
- WG coordinators and members
- PC-IDEA members
- UNSD

Luiz Paulo Souto Fortes

President of PC-IDEA

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