Status of interoperability issues in the Chilean SDI

Gobierno de Chile

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Outline

- Background - Chilean SDI working areas

- Background – Interoperability, standards and specifications area

- National project on geospatial norms

- International participation

- Implementation issues

- Conclusions

- Perspectives

Background – Chilean SDI working areas

- SDI policy and planning
- Institutional arrangements, partnerships and projects
- Information, access and availability
- **Interoperability, standards and specifications**
- Technology, development and innovation
- Capacity building

Background – Interoperability, standards and specifications area

Groups of activities within the working area

National norms project

International participation

Implementation

National Committee for geospatial information normalization

National norms project – Objective and products
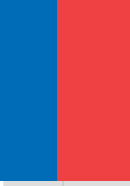
The project is aimed at standardize the generation and use of national geospatial information, in order to allow interoperability between different agencies, through the generation of a set of norms that support the National Geospatial Data Infrastructure.
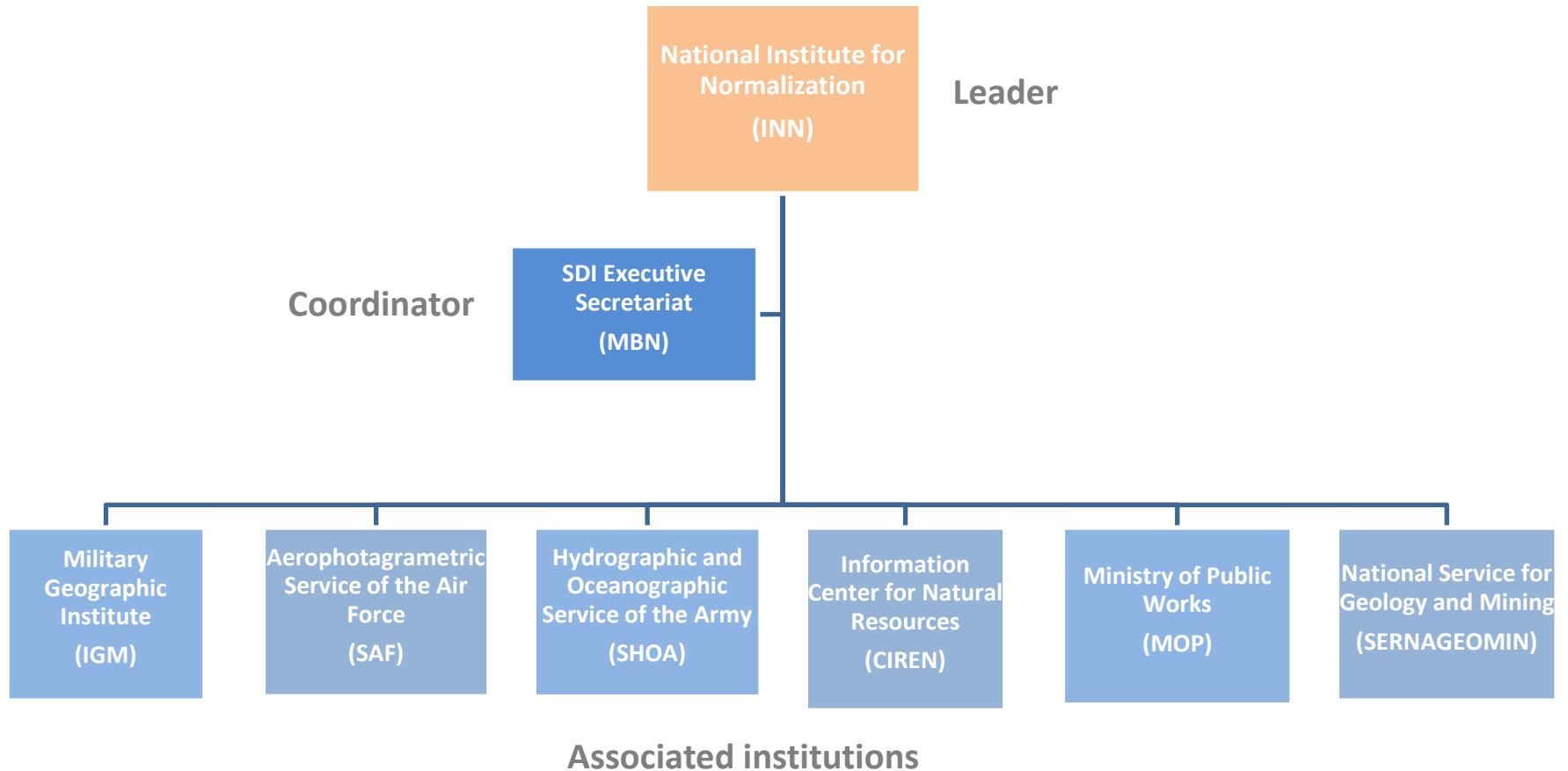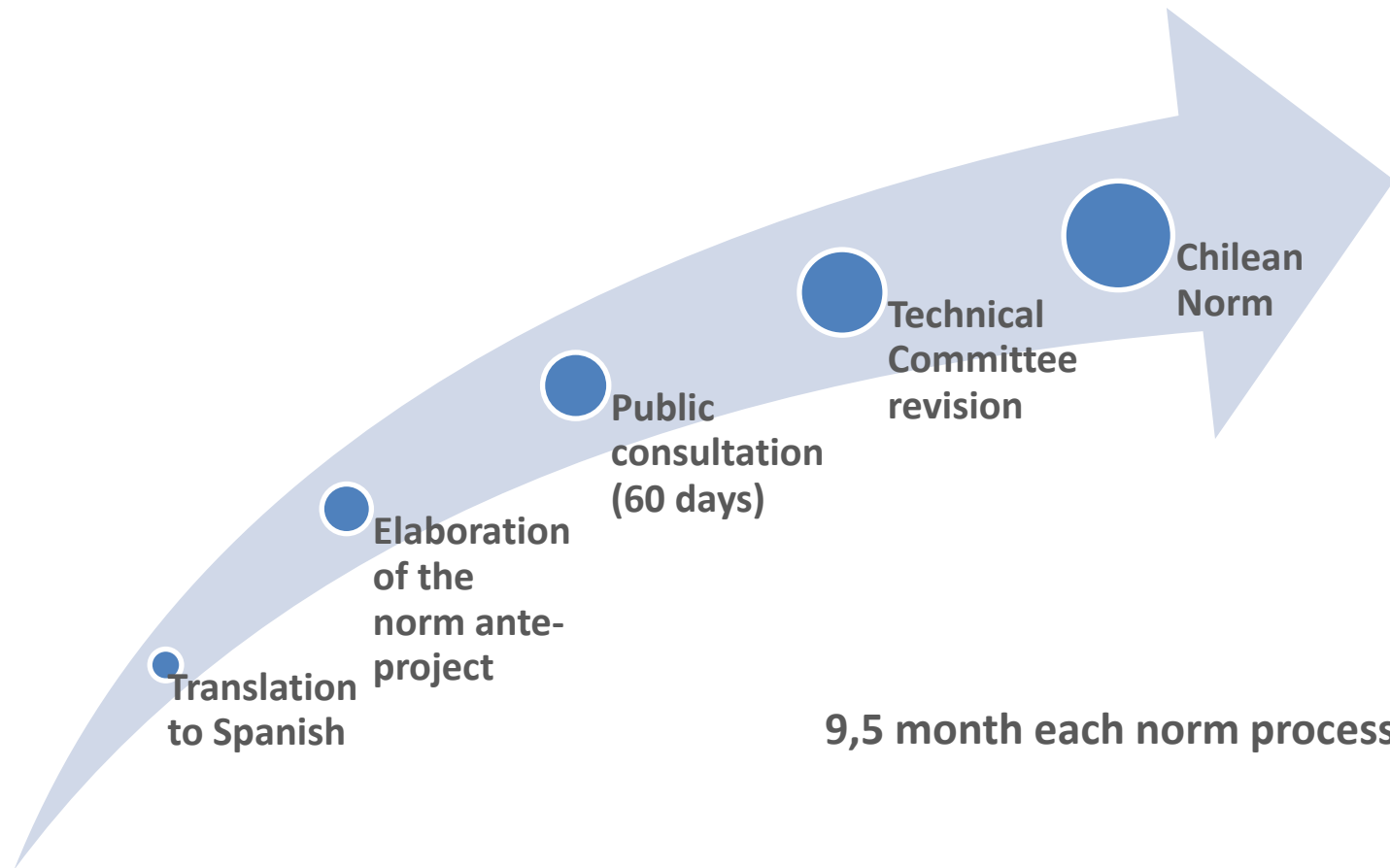
Products

19 Chilean Norms

Application Manual

Face to face dissemination

National norms project - Institutional participation and roles

Leader

National Institute for Normalization
(INN)

Coordinator

SDI Executive Secretariat
(MBN)

Military Geographic Institute
(IGM)

Aerophotagrametric Service of the Air Force
(SAF)

Hydrographic and Oceanographic Service of the Army
(SHOA)

Information Center for Natural Resources
(CIREN)

Ministry of Public Works
(MOP)

National Service for Geology and Mining
(SERNAGEOMIN)

Associated institutions

National norms project - process of the Chilean norm

Translation to Spanish

Elaboration of the norm ante-project

Public consultation (60 days)

Technical Committee revision

Chilean Norm

9,5 month each norm process

National norms project - Advance in the elaboration of Chilean norms

Data Model

19109: Rules for application schema

Management

19110: Methodology for feature cataloguing

19111: - Spatial referencing by coordinates

19115: Metadata

19113: Quality principles

19114: Quality evaluation procedures

19131: Data product specifications

Services

19119: Services

19128: Web Map server interface

19142: Web Feature Service

Encoding

19136: Geography Markup Language (GML)

19139: Metadata - XML schema implementation

Specific topics

19101-2: Reference model - Part 2: Imagery

19115-2: Metadata - Part 2: Extensions for imagery and gridded data

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Arquitecture for geographic information standardization

19101- Reference model

19103- Conceptual schema language (UML)

19104- Terminology

19105- Conformance and testing

19106- Profiles

National norms project: Application Manual

- Introduction and context
- Glossary of terms
- General summary of each Chilean Norm
- Guidelines for the implementation of these norms
- Practical example of application of Chilean norms
- Conclusions and recommendations
- Annex I. Internacional experience
- Annex II. Audio-visual product

National norms project : Dissemination
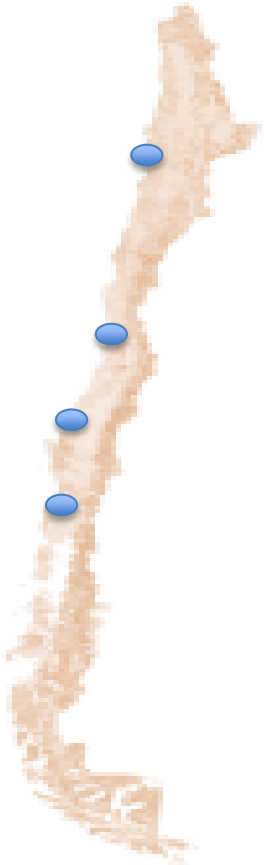
2 Seminars in Santiago de Chile

4 regional workshops in the regions

- **Antofagasta**
- **Valparaíso**
- **Concepción**
- **Puerto Montt**

**First seminar at Military Geographic Institute
April 2012**

International participation

ISO/DIS 19101-1   Geographic information -- *Reference model*
ISO/FDIS 19115-1   Geographic information -- *Metadata -- Part 1: Fundamentals*
ISO/FDIS 19157   Geographic information -- *Data quality*

International participation

Mercury Project Solutions	Small Company	Asia Pacific	
Metaspatial	Small Company	Europe	
METEO-FRANCE	Technical*	Europe	
Metria AB	Associate	Europe	
Microsoft Corporation	Technical*	North America	
MINES ParisTech	University	Europe	
Ministerio de Bienes Nacionales - Secretaria Ejecutiva SNIT	Associate	South America	
Ministère des Ressources naturelles et de la Faune (Gouvernement du Québec) (MRNF)	GovFuture-Subnational	North America	
Ministère des transports du Québec (MTQ)	GovFuture-Subnational	North America	
Ministry of Land, Transport & Maritime Affairs	Technical*	Asia Pacific	
Ministry of the Environment	Associate	Europe	
Ministry of Transport, Public Works & Water Management	Associate	Europe	
MIT	University	North America	

International participation

Iberoamerican Network Geographical Information Infrastructure (R3IGeo)
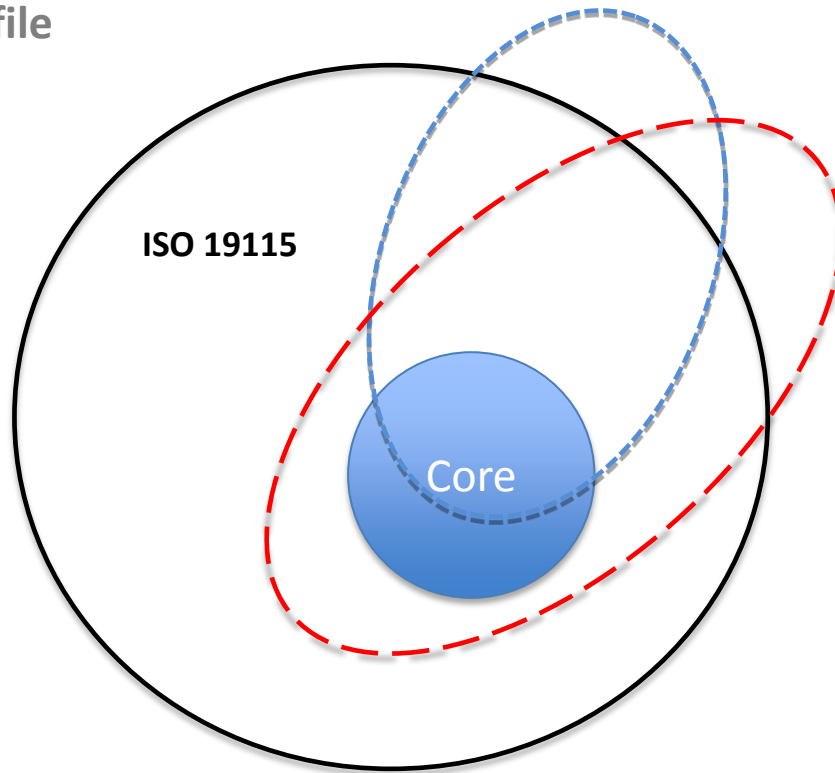
Implementation issues

Metadata national profile

According to ISO 19115 draft

profile Updated according to ISO 19115

ISO 19115

Core

Implementation issues

- What is a WMS?

- How it works?

- Recommendations to create and configure WMS

- How to generate WMS over open source and propietary platforms

Implementation issues

- Courses

- Scholarships

- Possibility of working

- News

http://snitchile.blogspot.com/

Perspectives

- Advance in the elaboration of an institutional framework and develop the institutional arrangements in order to:
    - consolidate these activities in the time
    - provide the space for a permanent discussion among technical organizations on these topics
    - continue the process of elaboration of Chilean norms on geospatial information
    - Incorporate in a more effective manner the use of geographic information norms in the daily work of the institutions
- Promote the interaction with international initiatives in matter of standardization, for exchanging knowledge and best practices

Thank you

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