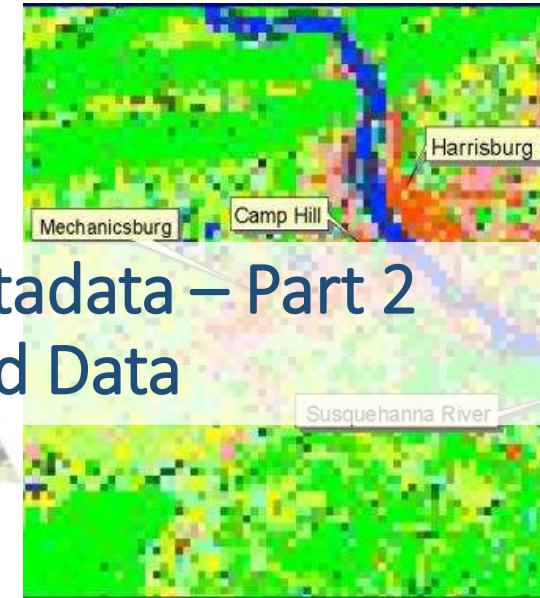


Other metadata standards: 19115-2, 19119, 19139 and 19115-1



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ISO 19115-2 Geographic Information – Metadata – Part 2 Extensions for Imagery and Gridded Data



ISO 19115-2 Geographic Information – Metadata – Part 2 Extensions for Imagery and Gridded Data

- Extension for image data and grid
- It includes 118 new metadata: optional, mandatory and conditional.
- It includes a "data dictionary" containing the definitions of entities and elements.

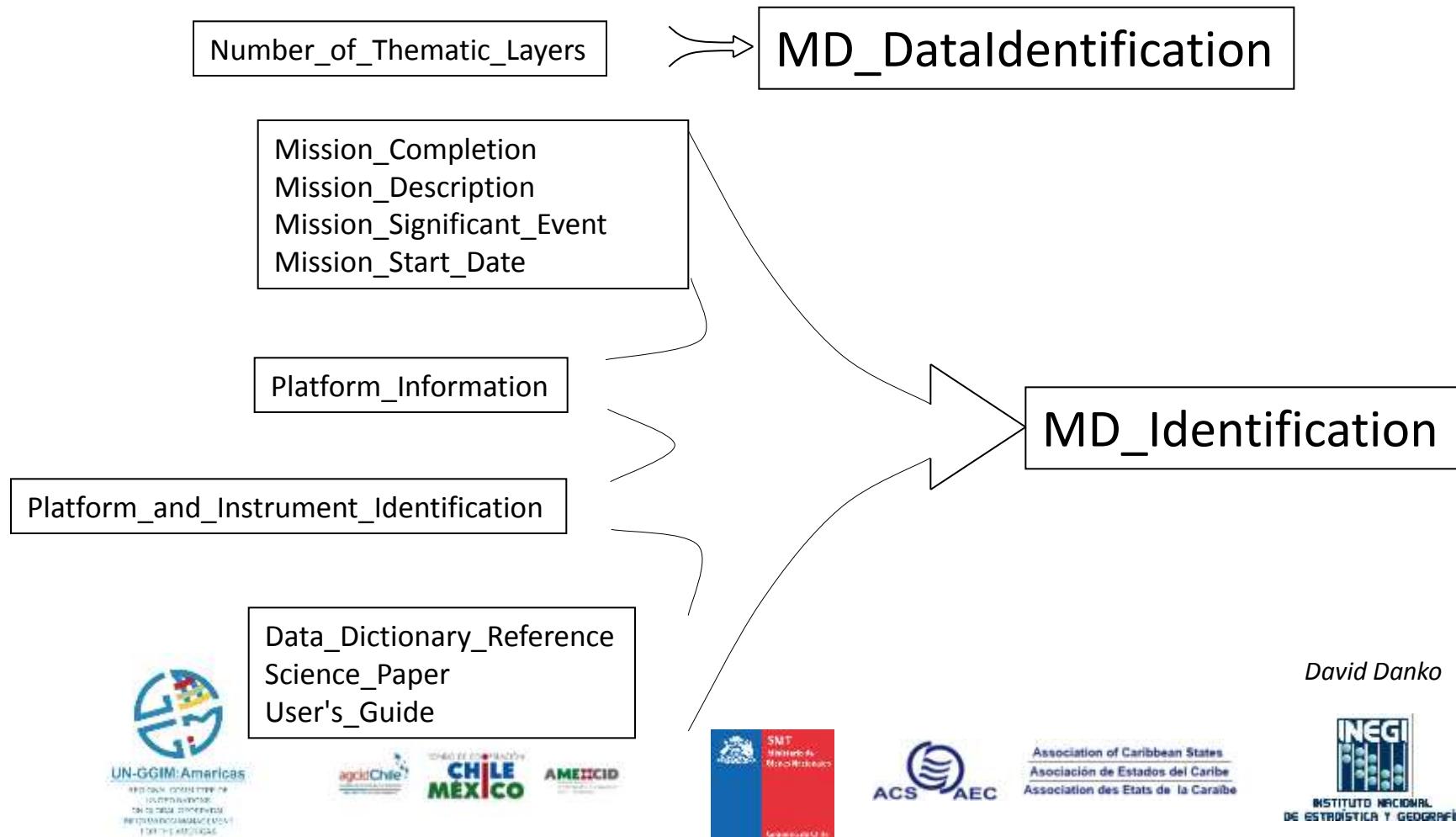
B.2.2.2.6 Process Step Report

	Name	Short name	Definition	Obligation	Maximum occurrence	Data type	Domain
26.	LE_ProcessStepReport	ProcStepRep	report of what occurred during the process step	Use obligation from referencing object	Use maximum occurrence from referencing object	Aggregated Class (LE_ProcessStep)	Lines 27 to 29
27.	name	procRepName	name of the processing report	M	1	CharacterString	Free text
28.	description	procRepDesc	textual description of what occurred during the process step	O	1	CharacterString	Free text
29.	fileType	procRepFilTyp	type of file that contains the processing report	O	1	CharacterString	Free text

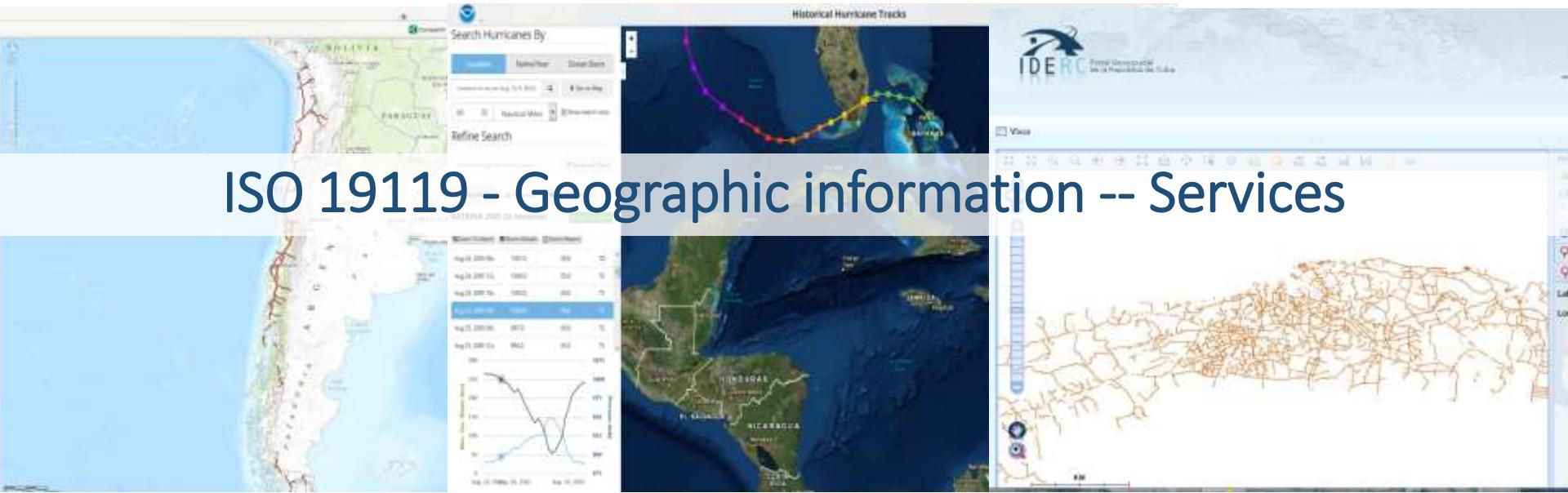
ISO 19115-2 Geographic Information – Metadata – Part 2

Extensions for Imagery and Gridded Data

The metadata to be added includes: mission description information, platform identification information, and documentation reference citations



ISO 19119 - Geographic information -- Services



<http://www.geoportal.cl/geoportal/sharedMap?id=b28e11386e4fdc9462c7958e9940be76>

<https://coast.noaa.gov/hurricanes/>

<http://www.iderc.cu/web/iderc/visor>

ISO 19119 - Geographic information -- Services

- Provide guidelines on the architecture of the service interfaces that are used in geographic information
- It includes metadata elements to describe services.

SV_ServiceIdentification: Provides an overview of the service so that the user can invoke the service

SV_OperationMetadata: Description of Operations

MD_DataIdentification: The data that is available from a service.

Name/ Role name	Definition	Obligation/ Condition	Maximum occurrence	Data type	Domain
serviceType	a service type name EXAMPLE 'discovery', 'view', 'download', 'transformation', or 'invoke'	M	1	Class	GenericName (B.2.7)
serviceTypeVersion	the version of the service, supports searching based on the version of serviceType	0	N	CharacterString	No specified domain



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FOR THE MANAGEMENT
OF THE GEOGRAPHIC
INFORMATION



agcid Chile
ASOCIACIÓN
DE GESTIÓN
DEL CONOCIMIENTO
DE LA TIERRA
EN CHILE



AMEICID
ASOCIACIÓN
MEXICANA
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ISO 19139 Geographic Information - Metadata -- XML schema implementation

- Defines the XML encoding for ISO 19115

Common language that provides interoperability to systems that handle metadata.

It has a data dictionary, with similar characteristics to those defined in ISO 19115

NGDC/WDS Global Historical Tsunami Database, 2100 BC to present

General Information

File Identifier: gov.noaa.ngdc.mgg.hazards:G02151
Metadata Language: eng; USA
Metadata Date: 2015-10-01
Stamp:
Organization: DOC/NOAA/NESDIS/NCEI> National Centers for Environmental Information, NESDIS, NOAA, U.S. Department of Commerce
Organization Role: pointOfContact

Identification Information

Title: NGDC/WDS Global Historical Tsunami Database, 2100 BC to present
Dataset
Publication: 1974-01-01
Date:
Dataset: eng; USA
Language:
Abstract: The Global Historical Tsunami Database provides information on over 2,400 tsunamis from 2100 BC to the present in the the Atlantic, Indian, and Pacific Oceans; and the Mediterranean and Caribbean Seas. The database includes two related files. The first file includes information on the tsunami source such as the date, time, and location of the

Este archivo XML no posee base ninguna información de este tipo. A continuación se muestra el esquema de validación del documento:

```
<!-- gmd:MD_Metadata xsi:schemaLocation="http://www.isotc211.org/2005/gmd http://www.ngdc.noaa.gov/metadata/published/xsd/iso19139.xsd">
<!-- gmd:fileIdentifier>
  <gco:CharacterString>gov.noaa.ngdc.mgg.hazards:G02151</gco:CharacterString>
<!-- gmd:fileIdentifier>
<!-- gmd:language>
  <gco:CharacterString>eng; USA</gco:CharacterString>
<!-- gmd:language>
<!-- gmd:characterSet>
  <gmd:MD_CharacterSetCode codeList="http://www.isotc211.org/2005/resources/Codelist/gmxCodelists.xml#MD_CharacterSetCode" codeListValue="UTF-8" />
<!-- gmd:characterSet>
<!-- gmd:characterLevel>
  <gmd:MD_ScopeCode codeList="http://www.isotc211.org/2005/resources/Codelist/gmxCodelists.xml#MD_ScopeCode" codeListValue="dataset" />
<!-- gmd:characterLevel>
<!-- gmd:datasetTitle>"Tsunami"</gmd:datasetTitle>
<!-- gmd:CI_ResponsibleParty>
  <gmd:pointOfContact>
    <gmd:CI_Contact>
      <gmd:CI_Address>
        <gmd:deliveryPoint>
          <gco:CharacterString>321 Broadway</gco:CharacterString>
        <gmd:deliveryPoint>
        <gmd:city>
          <gco:CharacterString>Brooklyn</gco:CharacterString>
        <gmd:city>
        <gmd:administrativeArea>
          <gco:CharacterString>NY</gco:CharacterString>
        <gmd:administrativeArea>
        <gmd:postCode>
          <gco:CharacterString>10016-5130</gco:CharacterString>
        <gmd:postCode>
      </gmd:CI_Address>
    </gmd:CI_Contact>
  </gmd:pointOfContact>
</gmd:CI_ResponsibleParty>
<!-- gmd:supplementaryInformation>
  <gco:CharacterString><a href="http://www.ngdc.noaa.gov/metadata/published/xsd/iso19139.xsd">http://www.ngdc.noaa.gov/metadata/published/xsd/iso19139.xsd</a></gco:CharacterString>
</gmd:supplementaryInformation>
```

Common language for computers
XML



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AGROMETRIC CENTER OF
INTERAMERICAN
ORGANIZATION FOR
THE MEXICANAS



CHILE
MEXICO

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Geographic information -- Metadata -- Part 1: Fundamentals

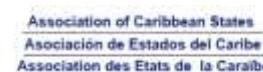
ISO 19115-1:2014 defines the schema required for describing geographic information and services (webmapping) by means of metadata.

ISO 19115-1:2014 defines:

The **minimum set of metadata** required to serve most metadata applications
(176 pages)

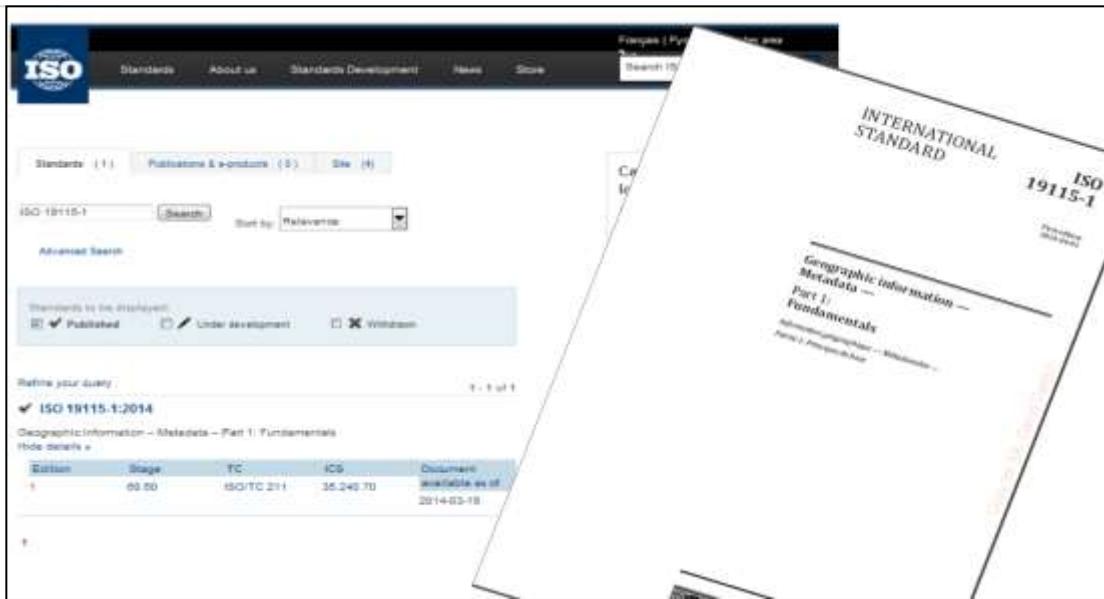
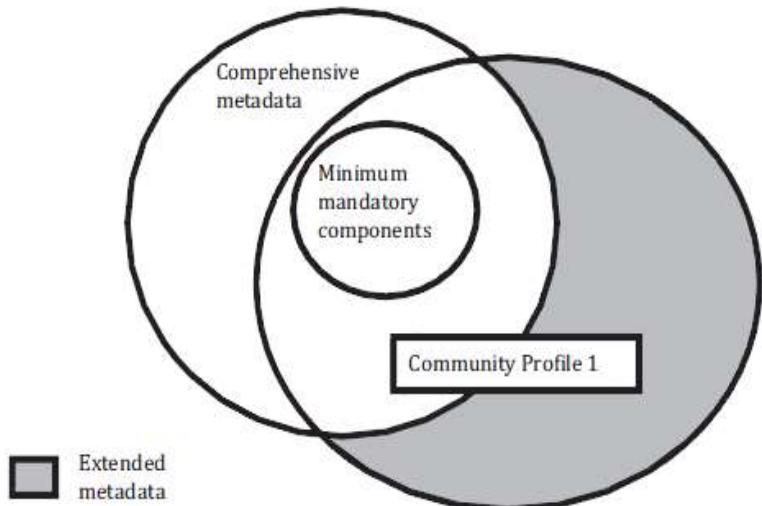
Though ISO 19115-1:2014 is applicable to digital data and services, its principles can be extended to many other types of resources such as maps, charts, and textual documents as well as non-geographic data.

Concept of “core” translated to “Discovery metadata for geospatial resource”



Geographic information -- Metadata -- Part 1: Fundamentals

Metadata community profile



http://www.iso.org/iso/iso_catalogue/catalogue_ics/catalogue_detail_ics.htm?csnumber=53798

Technological alternatives to develop Metadata



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Metadata software tools

Software	Link	Open Source	Web	Desktop
Esri Geoportal Server	http://www.esri.com/software/arcgis/geoportal	✓	✓	✗
GeoNetwork	http://geonetwork-opensource.org/	✓	✓	✓
CatMDEdit	http://catmdedit.sourceforge.net/	✓	✗	✓
QSphere	https://plugins.qgis.org/plugins/qsphere/	✓	✗	✓
ArcGIS 10.1 – 10.4 - (ArcCatalog)	http://www.esri.com/software/arcgis/	✗	✗	✓



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ISO Geospatial Metadata Editors

Feature	GeoNetwork Opensource	CatMDEdit V.5.0	Esri Geoportal Server	QSphere
	View Full Record			
Geospatial Metadata Content Standards Supported				
ISO 19115:2003 - Metadata	full	full	full	partial
ISO 19115-2 - Gridded Imagery Extension	full	none	full	none
ISO 19110 - Feature Catalog	full	full	full	none
ISO 19119 - Services	full	full	full	none
ISO 19115-1 - Metadata Fundamentals	full	none	full	partial
Other Related Metadata Standards	View	View	View	View



Cases in the world and the Latin American Metadata Profile - LAMP



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Geoportal de Chile

National Catalogue

www.geoportal.cl

Geoportal Server (ESRI) - Catálogo

Map Viewer

www.geoportal.cl/Visor

ArcGIS Server 10.1 - Visor



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National Geospatial Information Catalog

Entry point to the Geospatial Information Government of Chile

The screenshot shows the homepage of the Geoportal de Chile. At the top left is the IDE CHILE logo. The top right features the title "Geoportal de Chile" and "Catálogo Nacional de Información Geoespacial". Below the title are navigation links: "Catálogo", "Visor", "Apps", and "Contactar". A search bar labeled "Buscar datos geoespaciales" is prominently displayed. Below the search bar is a section titled "Datos por categoría" with icons for Agriculture and Livestock, Installations and Buildings, Society, Transport, Environment, Health, and Base Images. There is also a "Más categorías" link. On the left, a "Términos más buscados" sidebar lists terms like "comunas", "santiago", "regiones", "chile", "valdivia", etc. On the right, a "Últimos datos agregados" sidebar lists recent datasets such as "Limites de la División Política Administrativa" and "Estudio de Línea de Base y Zonificación en Predio Fiscal Río Olivares en la Región Metropolitana, año 2013".

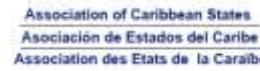
<http://www.geoportal.cl/geoportal/>

- Metadata records 19.092
- In accordance with ISO standards and OGC
- 7.444 metadata records are connected by standard CSW
- Chile has a National Metadata Profile based on ISO 19115

Institutions publishing information:

- ✓ Ministries
- ✓ Local governments
- ✓ Cartographic institutes
- ✓ Corporations
- ✓ Municipalities

More than 150 public agencies ...



INSPIRE - Infrastructure for Spatial Information in Europe



INSPIRE - Infrastructure for Spatial Information in Europe

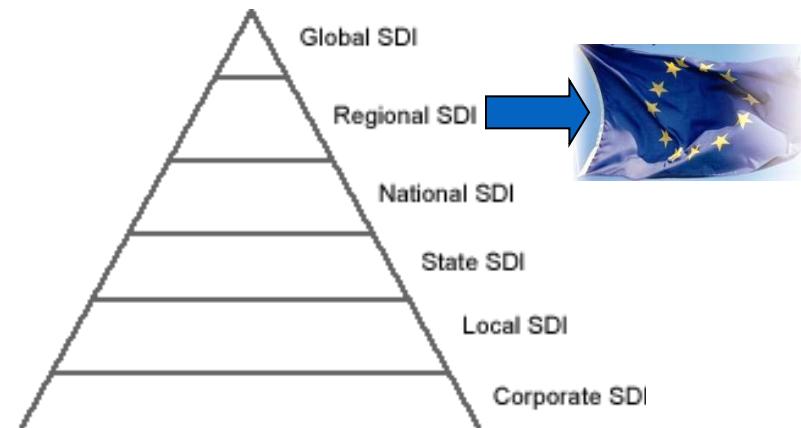
About INSPIRE:

The **INSPIRE directive aims to create a European Union (EU) spatial data infrastructure**. This will enable the **sharing of environmental spatial information** among public sector organisations and better facilitate public access to spatial information across Europe.

INSPIRE lays down general rules to establish an infrastructure for spatial information in Europe



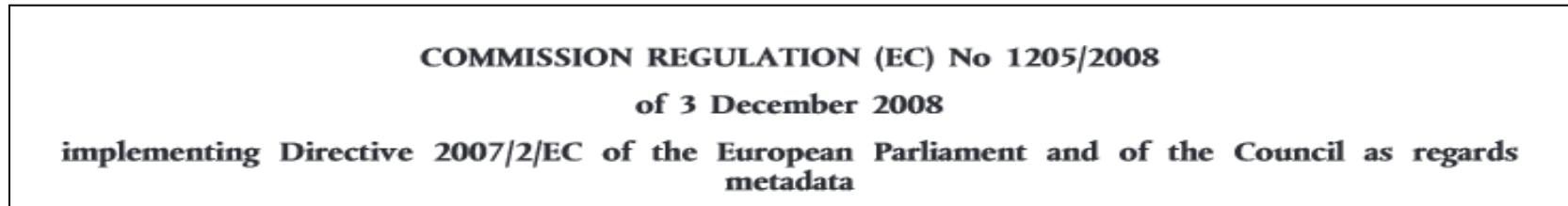
<http://eur-lex.europa.eu/LexUriServ/LexUriServ.do?uri=OJ:L:2007:108:0001:0014:EN:PDF>



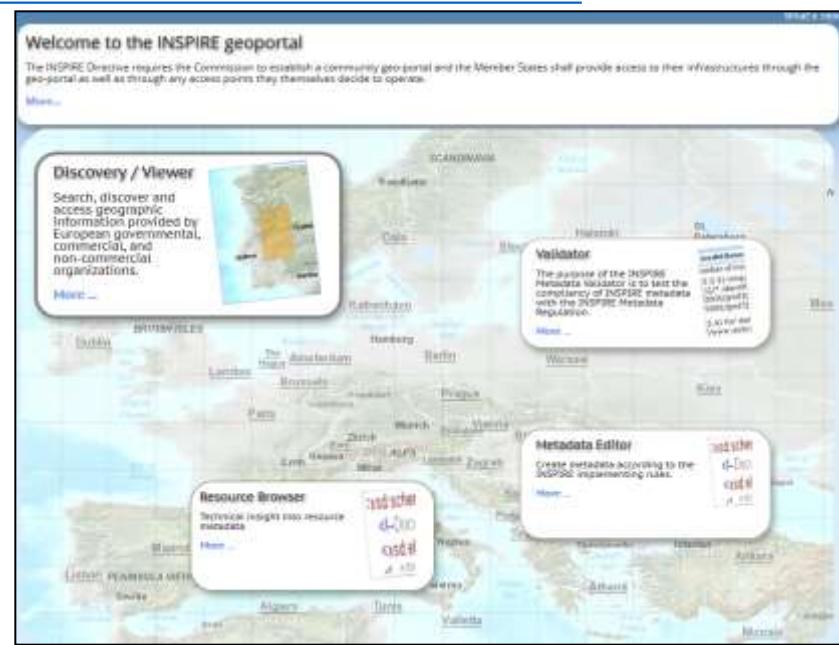
INSPIRE - Infrastructure for Spatial Information in Europe

Each country must publish its metadata according

INSPIRE profile of ISO 19115 and ISO 19119



This Regulation sets out the requirements for the creation and maintenance of metadata for spatial data



Latin America Metadata Profile - LAMP

Pan American Institute of Geography and History (PAIGH) is leading the work for a Latin America Metadata Profile, LAMP.

- Provides a common structure for documenting geographic information in Latin America
- The latest version was released in 2011.
- Used as a reference ISO 19115 and ISO 19106
- 126 page, It is extensive and it is not easy to implement
- PAIGH plans to have a new version this year 2016
- LAMP uses a Graphical Representation:

Mandatory

Conditional

Optional



IPGH



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IMPLEMENTATION
OF THE GEOGRAPHIC
DATA STANDARD
FOR THE AMERICAS



CHILE
MEXICO



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Latin America Metadata Profile - LAMP



CONVENCIONES



<http://metadatos.ign.es/MD-theme/documentos/Perfil%20Latinoamericano%20de%20Metadatos%20-%20LAMP.pdf>



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