



INSPIRE Progress

# Metadata Implementing Rule

The INSPIRE Team

Maribor, Slovenia

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# Outline



- INSPIRE Implementing Rule for Metadata
  - Content
  - Form
- Guidelines and editor
- Next steps



# Metadata - Content



**Member States shall ensure that metadata are created**

Directive 2007/2/EC  
Articles **5 and 6**

Information on timing of adoption and implementation

Information on what metadata shall be included

...and that those metadata are **kept up to date**



# Excerpt from Roadmap



## Adoption

Milestone date	Article	Description
2007-05-15		<i>Entry into force of INSPIRE Directive</i>
2008-05-15	5§4	Adoption of IR for the creation and updating of metadata

## Implementation

Milestone date	Article	Description
2010-05-15	6(a)	Metadata available for spatial data in Annex I and II
2013-05-15	6(b)	Metadata available for spatial data corresponding to Annex III



# INSPIRE Implementing Rule for Metadata Content



what metadata?  
Art. 5 & 6

- a. the **conformity** of spatial data sets with the implementing rules provided for in Article 7(1);
- b. the **conditions** applying to access to, and use of, spatial data sets and services and, where applicable, corresponding fees;
- c. the **quality and validity** of spatial data sets;
- d. the public authorities **responsible** for the establishment, management, maintenance and distribution of spatial data sets and services;
- e. any **limitations** on public access and the reasons for such limitations, in accordance with Article 13.



# INSPIRE Implementing Rule for Metadata Content



what metadata?

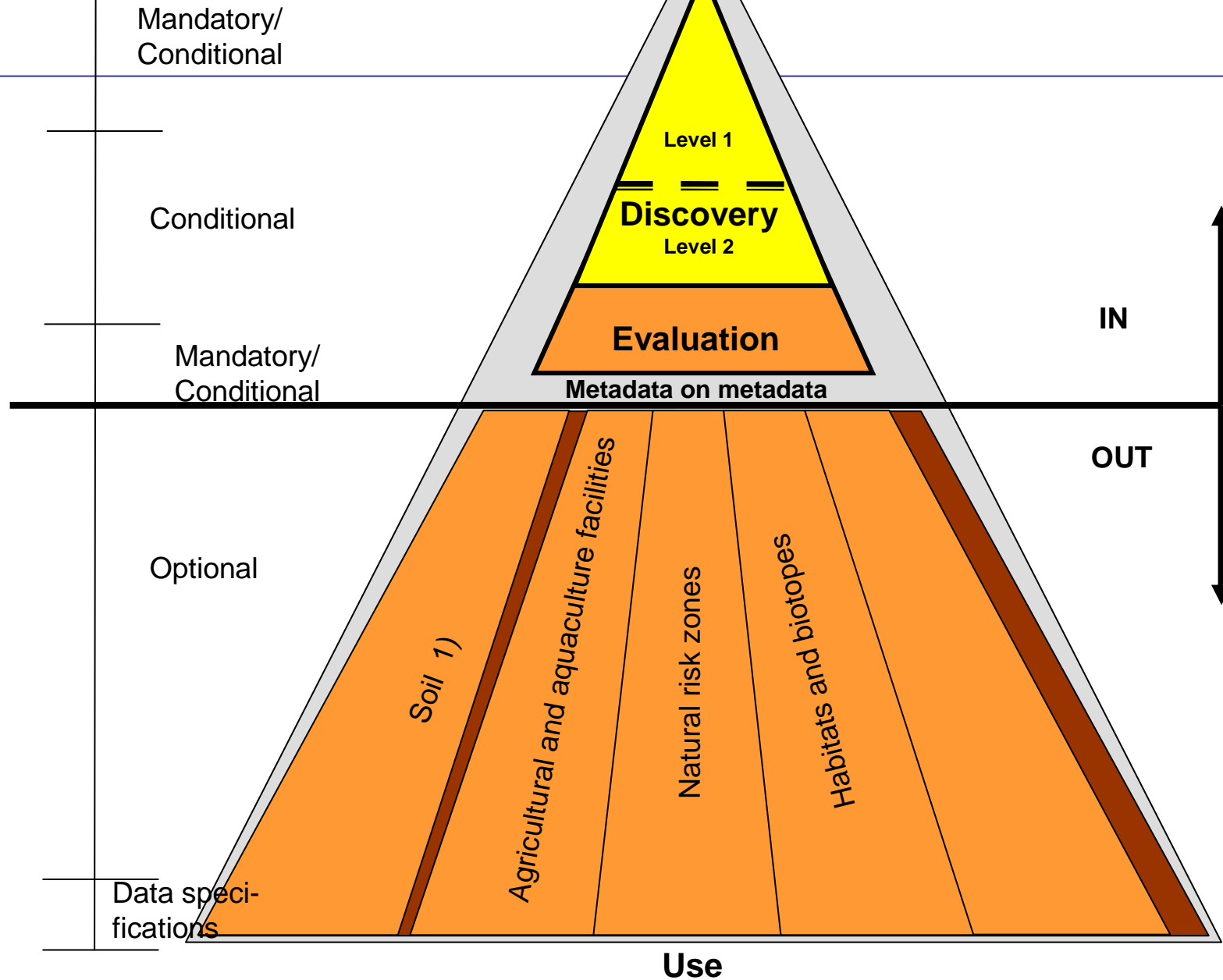
Art. 11

- a. Keywords;
- b. classification of spatial data and services;
- c. the quality and validity of spatial data sets;
- d. degree of conformity with the implementing rules provided for in Article 7(1);
- e. geographical location;
- f. conditions applying to the access to and use of spatial data sets and services;
- g. the public authorities responsible for the establishment, management, maintenance and distribution of spatial data sets and services.

The following combination of search criteria shall be implemented



# Strategic approach 1





# Stakeholder comments



- 1250 received. Very successful exercise of participation
  - Every comment was answer with motivation and published
  - Key Grouping of comments
  - Distinguish clearly between IRs, and guidelines,
  - Granularity
  - Conformity, quality, time, constraints

## Strategic approach 2

- Separate IRs from Guidelines
- IRs to focus on stable elements (What to do)
- Guidelines to implement based on ISO standards (How to do)



# Metadata IR - Content



**Minimum** that is **required** to implement the requirements of the Directive and allow interoperability through standards

Non-binding **guidelines** that allow conformance with EN ISO 19115 (data) and EN 19119 (services) + interoperability with e-government through ISO 15836.

Guidelines can be **updated when needed** taking into account technological and standards change e.g. revision of OGC catalogue specifications and new CEN work on Discovery of e-government resources.

**Key features**



# INSPIRE Implementing Rule for Metadata - Content




- **KEYWORD**

- If the resource is a spatial data service, at least one keyword from Part D.4 shall be provided (EN ISO 19115 service taxonomy).
- If a resource is a spatial data set or spatial data set series, at least one keyword shall be provided from the General Environmental Multi-lingual Thesaurus (GEMET) describing the relevant spatial data theme as defined in Annex I, II or III to Directive 2007/2/EC.



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# Metadata IR - form



## REGULATION.../.../EC implementing Directive 2007/2/EC of the European Parliament and of the Council as regards metadata

**Approved** by the INSPIRE Committee  
on 14 May 2008 with unanimous decision  
(323 votes in total, (22 votes not  
represented)

No objections from EP



# Metadata IR - form



Legal form: **regulation**

Automatically also national  
law in 27 countries



# INSPIRE Implementing Rule for Metadata - Form




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# Guidelines and editor



- Detailed non-binding guidelines for implementing INSPIRE metadata
  - Using EN ISO 19115 and EN ISO 19119
  - Using Dublin Core metadata



# Guidelines and editor



## Article 15

1. The Commission shall establish and operate an Inspire geoportal at Community level.
2. Member States shall provide access to the services referred to in Article 11(1) through the Inspire geo-portal referred to in paragraph 1. Member States may also provide access to those services through their own access points.

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The screenshot displays the INSPIRE Geoportal website. At the top, there is a navigation bar with links for 'home', 'info tours', 'themes', 'catalogues', and 'maps'. Below this, the main content area is divided into several sections:


- quick links**: Includes 'Internal Links' (Metadata Catalogues, Do your own map, Frequently asked questions) and 'External Links' (INSPIRE, European Commission GI & GIS Webportal, Geographic information in support of Environmental Policy, Europa, GEOS Clearinghouse).
- INSPIRE Community Geoportal**: A 'Welcome' message stating that the portal is Europe's Internet access point for geographic data under the INSPIRE Directive. It also notes that the portal does not store or maintain data, which are distributed across Europe.
- Portal Entries**: Features 'Information tours' (Find out what INSPIRE is, what this portal offers, and how to use the pages and tools.), 'Themes' (Helps users discover and access a wide variety of geographic information for specific data themes and European data centres.), 'Catalogues' (Search, discover and access geographic information provided by European governmental, commercial, and non-commercial organizations.), and 'Online Maps' (Search, view, edit online maps, and create your personalised map using distributed data.).
- News**: Lists recent events and updates, such as the 2007-03-05 Geo-Application Award and the 2007-02-02 INSPIRE Draft Implementing Rules for Metadata.
- EVENTS**: Lists upcoming events, including the 2007-07-16 Vespucci summer School and the 2007-07-04 Porto, Portugal 13th EC GI & GIS Workshop.

A 'Map of the Month' section features 'VHR satellite imagery' with a description: 'Browse through satellite images with amazing resolution, and appreciate the velocity and performance of this interoperable map service!' and a link to 'see the map'.



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# Next steps and conclusions



- Adoption process
  - INSPIRE Regulatory Committee expressed its opinion
  - European Parliament had until 19 June 2008 to check if Commission exceeded its powers
    - Draft metadata regulation uploaded to public Comitology Register (accessible via <http://www.ec-gis.org/inspire>)
    - No objection from EP
  - Translations expected to be ready by July
  - Publication possibly in August
  - Entry into force on the 20th day following its publication in the Official Journal of the European Union (August/September 2008)



# Next steps and conclusions



- Highest involvement of key stakeholders through the Spatial Data Interest Community (SDIC) and Legally Mandated Organisations (LMO) concepts
- Are you involved in a network representing producers, transformers and users of spatial data that falls within the scope of INSPIRE?
  - Register as a Spatial Data Interest Community!
- Has your organisation a legal mandate for one or more aspects of INSPIRE?
  - Register as a Legally Mandated Organisation!

- Keep informed
- Review deliverables from the Drafting Teams and the Thematic Working Groups
- Propose experts
- Submit reference material
- Testing of draft specifications



# Next steps and conclusion



- Metadata IR will become national law in 27 EU Member States and some EFTA countries
- The IRs are the result of a major collaborative effort with key experts in the field (the DT), the SDICs and LMOs, and the Commission
- They are technically coherent and can be implemented in compliance with international standards
- Tools are already being developed to facilitate the creation and maintenance of the metadata required which will make existing information resources in Europe more visible and usable.



# Thank you!!



Expert	Role/expertise	Country
Marcel Reuvers (chair)	Standards, link with CEN TC/287	Netherlands
Michael Gould (co-chair)	SDI implementation	Spain
Nicolas Lesage	Standards / mapping	France
Stefano Nativi	Link with GMES, grid	Italy
Gil Ross	Weather data (WMO)	United Kingdom
Kristian Senkler (co-chair)	Catalogues	Germany
Franz Daffner	Metadata implementation	EEA
David Danko	Standards	US
Jan Hjelmager	Standards / Cadastre	Denmark
Per Ryghaug	Standards / Metadata	Norway
Thomas Vögele, Kruse	Expert environmental data	Germany



# Thank you!!



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