



Infrastructure for Spatial Information in Europe

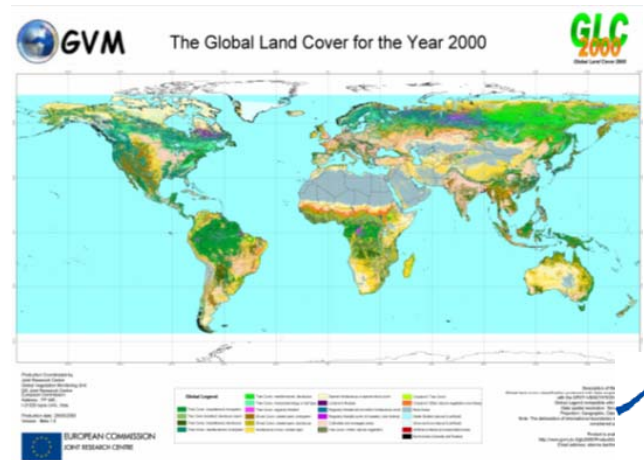
INSPIRE State of play

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Joint Research Centre
Institute for Environment and Sustainability

DG Joint Research Centre

Joint Research Centre

- Mission: to provide customer-driven **scientific and technical support** for the conception, development, implementation and monitoring of **European Union policies**.
- The JRC functions as a **reference centre** of science and technology for the Union.
- Close to the policy-making process, it serves the common interest of the Member States, while being **independent of special interests**, whether private or national.
- 7 institutes in 5 countries, 2300 people



Outline

- Introduction
- Status of INSPIRE
- Development of Implementing Rules
- Drafting Teams
- Outlook and Conclusions

Geo-spatial and Environmental information in Europe: State of the art

Introduction

- Data policy restrictions
 - pricing, copyright, access rights, licensing
- Lack of co-ordination
 - across borders
 - between levels of government
- Lack of standards for their use
 - incompatibility of data
 - incompatible information systems
 - fragmentation of information

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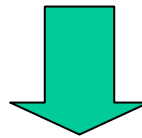
In summary: no infrastructure

EU has islands of data of different standards and quality...



Overall context

- **Increasing calls** for more information to support environmental policies **at European and MS level**
- Difficulties to **manage existing information** flows and obtain timely, accurate and policy-relevant information
- Need to take into account **differentiation across regions** with respect to the state of the environment
- Revision of approach to reporting and monitoring, moving to concept of **sharing of information**
- **Spatial information** plays a special role: early action needed



EC Proposal COM(2004) 516 for a Directive establishing an infrastructure for spatial information in the Community - INSPIRE

Proposal INSPIRE Framework Directive

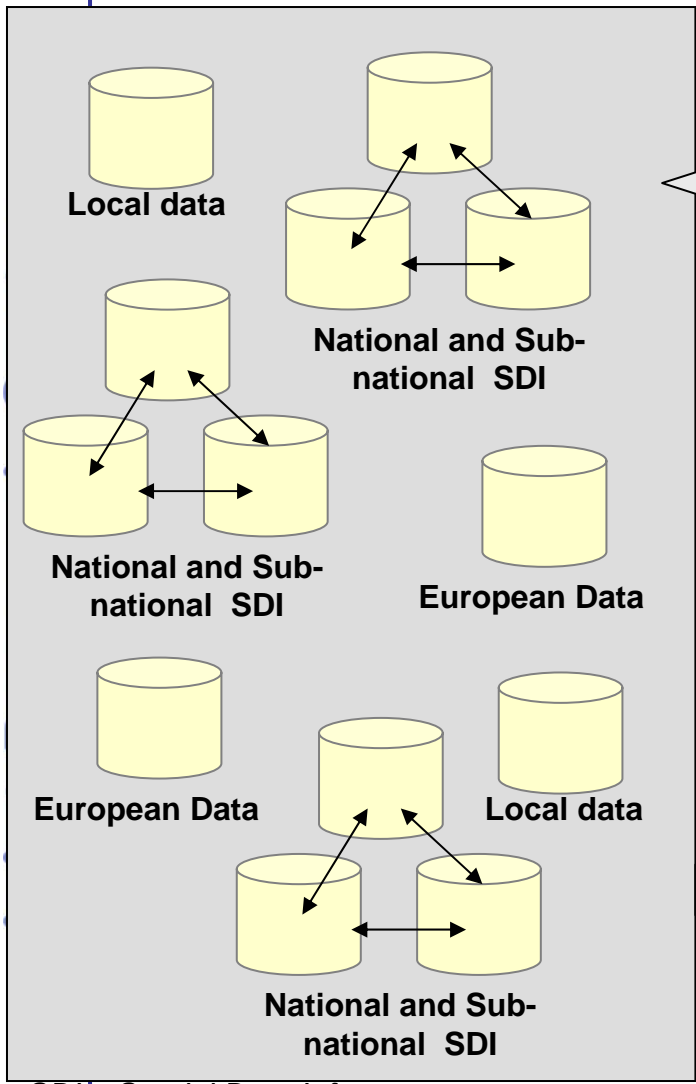
General Provisions

Introduction

- INSPIRE lays down **general rules** for the establishment of an infrastructure for spatial information in Europe to support environmental policies and policies that affect the environment
 - This infrastructure shall be based on infrastructures for spatial information established and operated by the Member States.
- INSPIRE requires also specific **implementing rules** to be adopted through Comitology

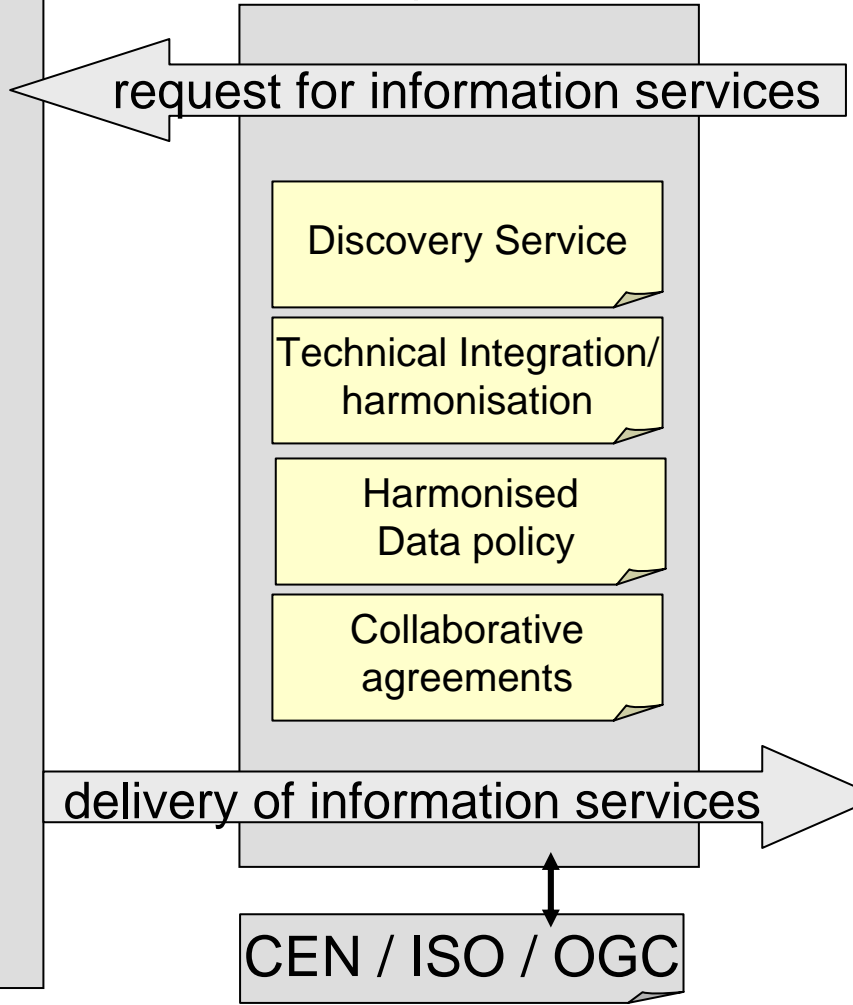
INSPIRE Information Flow

Data resources



SDI – Spatial Data Infrastructure

INSPIRE specifications



Users



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From Commission proposal to Community Directive implementation

- Preparatory phase (2004-2006)
 - *Co-decision procedure*
 - **Preparation of Implementing Rules**
- Transposition phase (2007-2008)
 - Directive enters into force
 - Transposition into national legislation
 - INSPIRE Committee starts its activities
 - Adoption of Implementation Rules by Committology
- Implementation phase (2009-2013)
 - implementation and monitoring of measures



INSPIRE legislative process, overall status

- EP first reading opinion adopted 7 June 2005
- Unanimous political agreement reached in Council on 24 June 2005
- Commission does not support the agreement
- Four MSs share Commission's concerns

INSPIRE legislative process

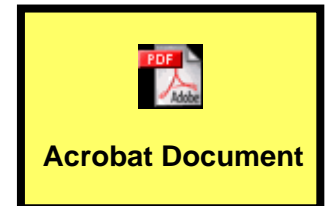
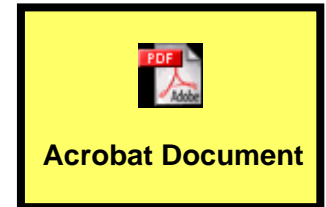
- Next steps
 - Formal Common Position expected late autumn
 - After this, EP has 3 months to adopt second reading opinion
 - After this, Council has 3 months to adopt Common Position at second reading
 - If still no agreement, “conciliation” process
- Preparation for drafting of Implementing Rules as foreseen in the proposed Directive continue as scheduled

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Example of Implementing rule

- Directive
 - DIRECTIVE 2001/16/EC OF THE EP AND OF THE COUNCIL of 19 March 2001 on the interoperability of the trans-European conventional rail system
- Implementing Rule
 - COMMISSION DECISION of 29 April 2004 specifying the basic parameters of the ‘Noise’, ‘Freight Wagons’ and ‘Telematic applications for freight’ Technical Specifications for Interoperability referred to in Directive 2001/16/EC



Overview of requirements

- metadata*
- spatial data sets and spatial data services*
- network services*
 - EU geo-portal
- access and rights of use for Community institutions and bodies**
- monitoring and reporting mechanisms**
- process and procedures



* technical: under JRC responsibility

** legal/procedural: under Eurostat responsibility

First hints on INSPIRE Implementing Rules

- Drafting Implementing Rules should
 - lay down scope and essential requirements for considered components and link to other Implementing Rules
 - be based on existing Standards & Specifications define what is necessary to achieve interoperability by usage/profiling/extension of European Standards
 - be tested and analysed to prove fitness for purpose.
- Implementing Rules *may* be complemented by
 - propose a strategy for a stepwise implementation and/or migration towards INSPIRE compliance
 - indicate a strategy for operation and maintenance (incl. updating of implementing rule)
 - include a cost/benefit analysis



Development of Implementing Rules

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INSPIRE Work Programme 2005-2006 (4/2005)

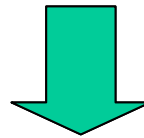
– Indicates deliverables and planning of drafting process:

- **Metadata for spatial Data (~ 2007)**
- **Network Services (~ 2007)**
- Spatial data specifications and harmonisation (~ 2009)
- Data and Service Sharing (~ 2007-2009)
- Monitoring and Reporting (~ 2007-2008)



The broader context

- The implementation of INSPIRE needs to consider the broader context of existing initiatives which could contribute to ESDI



- The INSPIRE Work Programme should interface with those partnerships and initiatives where relevant and establish synergy



concept of Spatial Data Interest Communities (SDIC)

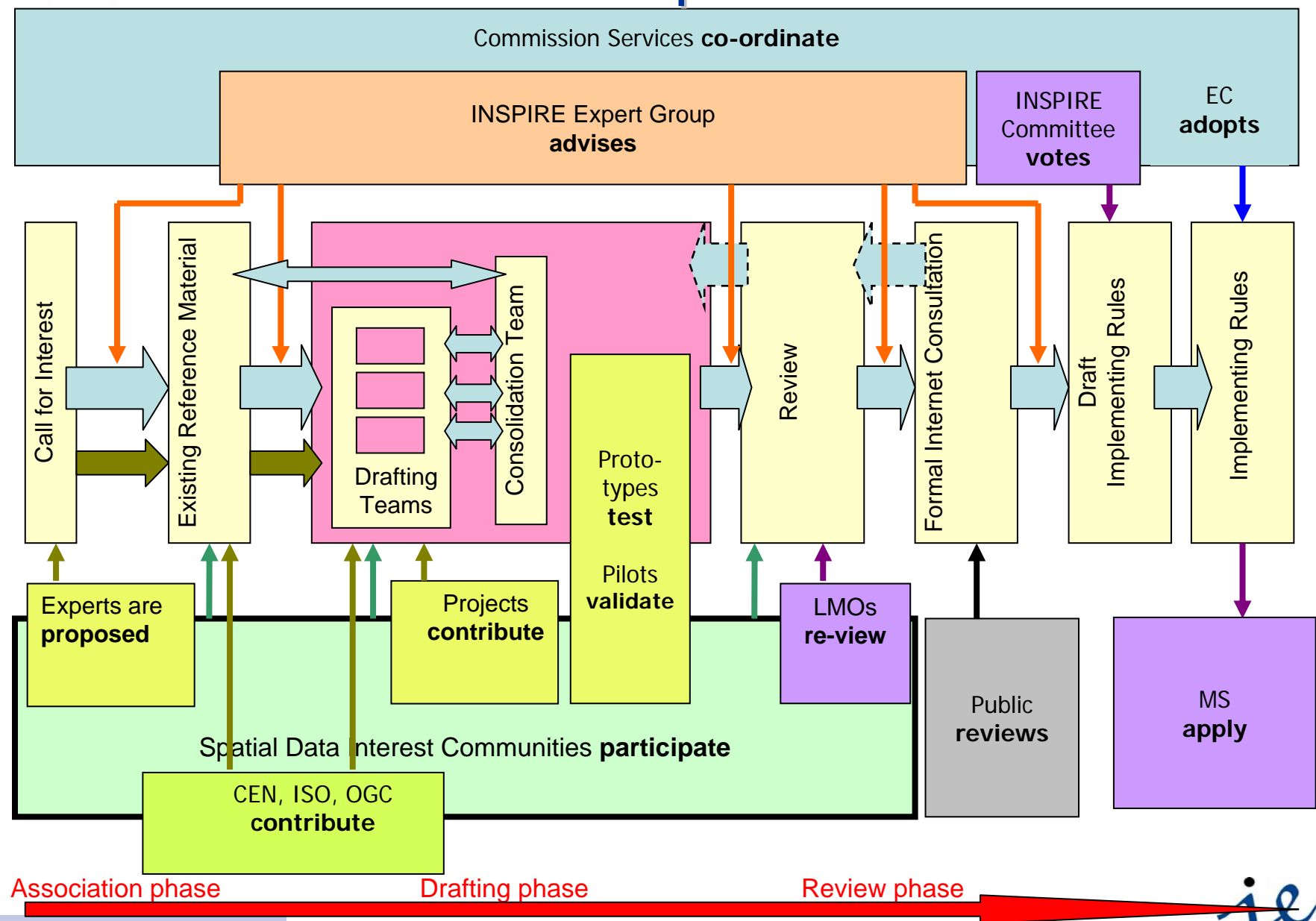
- SDIC bundle the human expertise of **users**, **producers** and **transformers** of spatial information, technical competence, financial resources and policies. Many SDIC exist today, generally organised by region, thematic issue or sector (industry).

The role of Spatial Data Interest Communities (SDIC)

- collect and describe user requirements,
- submit/develop reference materials
- allocate experts to the drafting teams,
- participate in the review process,
- implement pilot projects
 - to test/revise/develop the draft Implementing Rules,
- make cost/benefit analysis
 - to assess costs of the draft Implementing Rules,
- contribute to awareness raising and training

INSPIRE process

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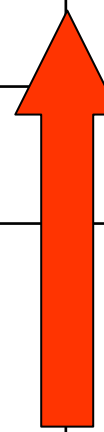
Association phase

Drafting phase

Review phase

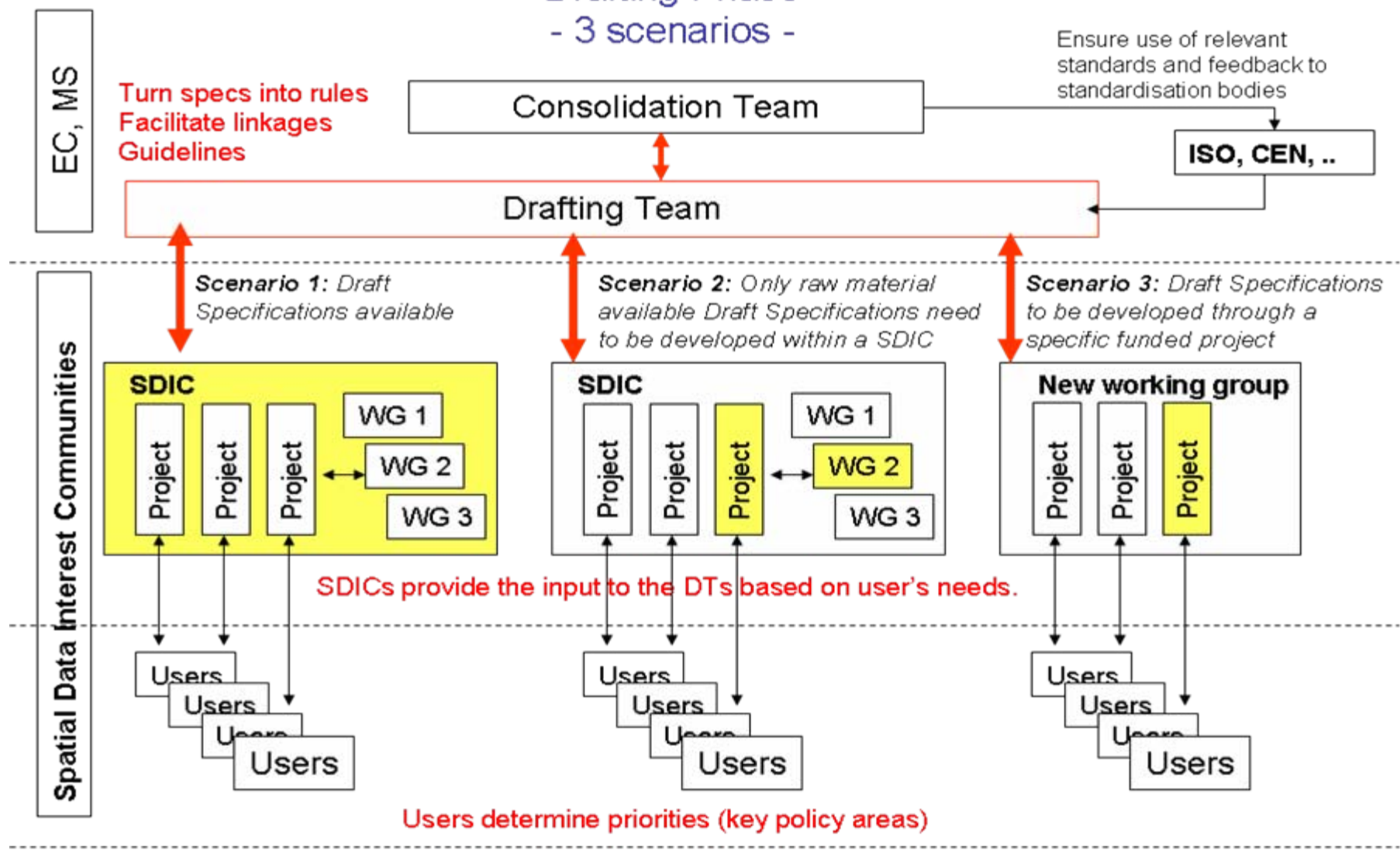
Results of the call for Experts

	Deadline	22-06-2005
Spatial Data Interest Communities (SDICs)	133	139 (+4.5%)
Legally Mandate Organisations (LMOs)	82	89 (+8.5%)
Proposed Experts	180	193 (+7.2%)
Referenced Materials	90	96 (+6.7%)
Identified Projects	91	94 (+3.3%)



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Drafting Phase
- 3 scenarios -



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INSPIRE Drafting Team Kick-off

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European Commission
Joint Research Centre, Ispra, Italy
2005-10-03 and 04



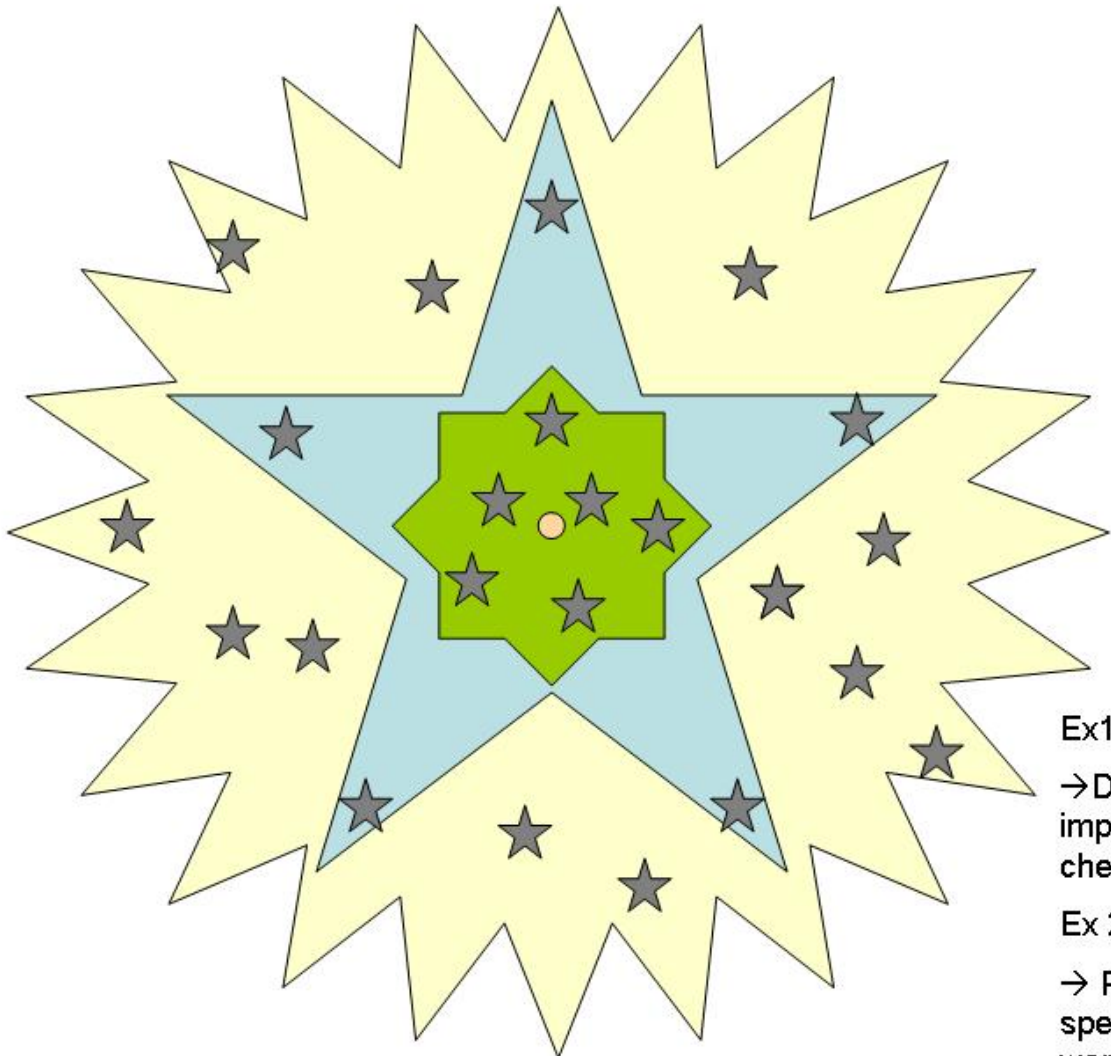


INSPIRE Drafting Teams

- Selection
 - Call for experts launched in 3/2005
 - Experts nominated by SDICs and LMOs
- Terms of Reference
 - to analyse and review the reference material
 - to write draft INSPIRE Implementing Rules
 - to provide recommendations to CT
(in case of conflicting technical specifications)
 - to provide suggestions to CT for testing any proposed specification
- DT Kick-off meeting 3-4 Oct 05
 - Official start of DT activities

Organisational Structure

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Participation
by SDICs +
LMO

Support Team
on specific
topics

Drafting Team

Drafting Team
Chair

Ex1: Data Exchange

→ Decision on GML, inclusion in the implementing rule and coherency check.

Ex 2: Service Chaining

→ Proposal for Transformation services specifications, through workflow/chaining expertise ensure chaining is in.



- Drafting Teams
 - Metadata for spatial Data
 - *Chair: Marcel Reuvers*
 - Network Services
 - *Chair: Jean-Jacques Serrano*
 - Spatial data specifications and harmonisation
 - *Chair: Clemens Portele*
 - Data and Service Sharing
 - *Chair: Ulrike Menzel*
 - Monitoring and Reporting
 - *Chair: Marie-louise Zambon*

IPR

- IPR of reference material remains with rightful owners,
- DT and supporting SDIC undertake not to disseminate restricted material clearly labelled as such (e.g. ISO documentation)
- Draft Implementing Rules are IP of the EC and will be circulated widely.

Communication Tools


- DT members are expected to maintain a healthy dialogue with the SDIC/LMO they represent, including through access to reference material and drafts
- Communication to the mailing list of SDICs contact points is via the EC
- E-mail lists of DT members will be provided for internal communication
- Intranet (CIRCA) has been set up and open to members of the DTs

Communication Policy

- Draft IR v.0 is internal to DT and CT
- Once a draft (v.1) is ready and reviewed by CT, it is published on INSPIRE Web site
- Other DTs have priority on reviewing
- When Revised Draft (v.2) is published, priority reviewing is for SDICs/LMOs via their contact points
- Revised (V.3) is open for public review,
- Final Draft is submitted to CT.



- Define an architecture/reference model for INSPIRE Network Services
 - Workshop for a to develop first draft early 12/2005
- Analyze & Update the INSPIRE Network Services Requirements
 - Based on the Requirements Documents prepared 9/2005 by JRC
 - Using additional reference material
 - Deadline 12/2005
- Revise the INSPIRE Work Programme
 - Deadline 12/2005



INSPIRE
Infrastructure for Spatial Information in Europe

Detailed definitions on the INSPIRE Network Services

Title	Detailed definitions on the INSPIRE Network Services
Creator	Joint Research Centre, Institute for Environment and Sustainability, Land Management Unit, ES&I Action
Date	2005-07-22
Subject	INSPIRE Implementing Rules for Network Services
Status	Final Version
Publisher	JRC Institute for Environment and Sustainability, Ispra
Type	Text
Description	The INSPIRE Directive proposed by the European Commission calls for implementing Rules on a number of topics. This report provides definition of the Network Services and the associated draft Implementing Rules. It is the first version of deliverable D 3.1 foreseen in the INSPIRE Work Programme Preparatory Phase 2005-2006.
Format	MS Word 952000 (.doc)
Source	Not applicable
Rights	INSPIRE working group members. © Commission of the European Communities.
Identifier	Detailed Definitions on the INSPIRE network Services V1.1.doc European Commission, Joint Research Centre, 2005
Language	En
Relation	Proposed for a Directive on the establishment of an Infrastructure for Spatial Information in the Community (INSPIRE) - COM(2004) 519 INSPIRE Work Programme Preparatory Phase 2005-2006
Coverage	Temporal: nomenclature=2005-07-11 end=2006-12-31 EU05

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Outlook

- Call for expression of interest for SDIC/LMO/Experts (continuously open)
 - Includes proposal for experts
- INSPIRE Expert Group meeting (27 June)
 - Proposal for Drafting Teams members
- INSPIRE Special SDIC Plenary
 - 11 EC GI&GIS ws (28 June)
- INSPIRE Drafting Teams
 - Set-up (31 July)
 - Kick-off (3-4 October)
- Running Pilots/Projects
 - SDIGER, RISE, MOTIIVE, ORCHESTRA, RELIT, ..
 - HMA
- Other future projects could help ..

Conclusions

- INSPIRE is a framework Directive with implementing rules to be defined in the coming years
- Highest involvement of key stakeholders through the SDIC concept
 - SDIC contribute to make the process to develop INSPIRE manageable and efficient
- Openness and transparency in drafting implementing measures will be followed
 - E.g., minutes of DT meetings available on-line
 - Draft implementing rules will be subject to formal public consultation
- Pilots and Projects could play a key role to define and validate the implementing rules

Thank you for your attention !

INSPIRE:
<http://inspire.jrc.it>