



INSPIRE

Infrastructure for Spatial Information in Europe

Selection of Experts for Implementing Rules Drafting Teams

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Table of contents

| | | |
|----------|--|-----------|
| 1 | Introduction..... | 4 |
| 2 | Terms of Reference of SDICs/LMOs..... | 5 |
| 3 | Terms of Reference and Composition of Drafting Teams | 5 |
| 4 | Results of the open call for Experts | 6 |
| 5 | Process and Criteria for the Selection of Experts | 6 |
| 6 | Metadata Drafting Team..... | 9 |
| 6.1 | Metadata Core Drafting Team..... | 9 |
| 6.2 | Metadata Support Drafting Team on specific topics | 9 |
| 6.3 | LMO/SDIC Represented by the selected experts of the Metadata Teams..... | 10 |
| 6.4 | Other LMOs that have nominated experts for Metadata..... | 10 |
| 6.5 | Other SDICs that have nominated experts for Metadata | 11 |
| 7 | Data Specifications Drafting Team..... | 12 |
| 7.1 | Data Specifications Core Drafting Team..... | 12 |
| 7.2 | Data Specifications Support Drafting Team on specific topics | 12 |
| 7.3 | LMO/SDIC Represented by the selected experts of the Data Specifications Teams..... | 13 |
| 7.4 | Other LMOs that have nominated experts for Data Specifications..... | 14 |
| 7.5 | Other SDICs that have nominated experts for Data Specifications | 14 |
| 8 | Network Services Drafting Team | 16 |
| 8.1 | Network Services Core Drafting Team..... | 16 |
| 8.2 | Network Services Support Drafting Team on specific topics | 16 |
| 8.3 | Network Services Interface Team | 17 |
| 8.4 | LMO/SDICS represented by the selected experts of Network Services Teams..... | 17 |
| 8.5 | Other LMOs that have nominated experts for Network Services..... | 18 |
| 8.6 | Other SDICs that have nominated experts for Network Services | 18 |
| 9 | Data and Service Sharing Drafting Team..... | 19 |
| 9.1 | Data and Service Sharing Core Drafting Team (Provisional) | 19 |
| 9.2 | Data and Service Sharing Support Drafting Team (Provisional) | 19 |
| 9.3 | LMO/SDICS represented by the selected experts of Data and Service Sharing Teams..... | 20 |
| 9.4 | Other LMOs that have nominated experts for Data and Service Sharing..... | 20 |
| 9.5 | Other SDICs that have nominated experts for Data Sharing..... | 21 |

| | | | |
|--|--|---|--------------|
| Infrastructure for Spatial Information in Europe | | Reference: IR DT Selection_Experts final_v5.doc | |
| JRC/CT | Selection of Experts for Implementing Rules DT | 2005-07-29 | Page 3 of 35 |

| | | |
|-----------|--|-----------|
| 10 | Monitoring and Reporting Drafting Team | 22 |
| 10.1 | Monitoring and Reporting Core Drafting Team | 22 |
| 10.2 | Monitoring and Reporting Support Drafting Team | 22 |
| 10.3 | LMO/SDICS represented by the selected experts of Monitoring and Reporting Teams | 23 |
| 10.4 | Other LMOs that have nominated experts for Monitoring and Reporting | 23 |
| 10.5 | Other SDICs that have nominated experts for Monitoring and Reporting | 23 |
| 11 | Conclusion and Way Forward | 24 |
| | Appendix 1: List of Experts nominated by SDICs and LMOs | 25 |
| | Additional experts registered after the deadline | 34 |
| | Appendix 2: INSPIRE Data Themes: Replies from Data Specifications Experts | 35 |

| | | | |
|--|--|---|--------------|
| Infrastructure for Spatial Information in Europe | | Reference: IR DT Selection_Experts final_v5.doc | |
| JRC/CT | Selection of Experts for Implementing Rules DT | 2005-07-29 | Page 4 of 35 |

1 Introduction

Following 3 years of intensive collaboration with Member States experts and stakeholder consultation, the Commission has adopted on the 23rd of July 2004 a “proposal for a Directive of the European Parliament and of the Council establishing an infrastructure for spatial information in the Community (INSPIRE)”, hereafter referred to as INSPIRE (COM(2004) 516 final).

INSPIRE has entered into the Co-decision legislative process, where the Commission interacts with Council and European Parliament to discuss and further shape the proposal. Whilst the process continues, the INSPIRE Work Programme published in April 2005 identified a step-wise approach for the definition and preparation of the detailed Implementing Rules needed for a coherent application of the Directive. Such Implementing Rules cannot be developed in isolation but need to take into account of the broader international developments in the field of spatial data infrastructures and e-government, as well as the many initiatives, operational experiences, and international agreements and protocols already in place across the many thematic and geographical communities having a stake in the development of INSPIRE.

With these considerations in mind, an open call was launched on March 11th 2005 for the registration of interest by Spatial Data Interest Communities (SDIC) and Legally Mandated Organizations (LMO). The Work Programme identified SDICs as self-organised communities bringing together the human expertise, technical competence, financial resources and policies of users, producers and transformers of spatial information organized by geographic region, societal sector or thematic issue. LMO represent instead those organizations at local, regional, national, or international level that have a formal legal mandate giving them the responsibility for specific thematic data resources.

As part of the open call, SDICs and LMOs where asked to put forward experts and reference material to support the preparation of the Implementing Rules. The deadline for the registration of experts was the 29th April 2005.

The purpose of this document is to present the results of the call for experts, and the selection of the Drafting Teams in consultation with the INSPIRE Expert Group and the Commission services. The Drafting Teams are being established in the five areas to be addressed by Implementing Rules: metadata, data specification, and network services for which the Joint Research Centre has responsibility for the technical coordination of INSPIRE, and monitoring and reporting, and spatial data sharing under the responsibility of Eurostat.

The document is organised as follows: Section 2 and 3 summarise the terms of reference of the SDICs/LMOs and of the Drafting Teams respectively as published in the Work Programme. Section 4 provides the quantitative results of the call for experts. Section 5 indicates the process followed and the criteria adopted for the selection of experts, and Sections 6 to 10 show the composition of the selected Drafting Teams. Section 11 concludes, and the appendices list all registered experts and an additional analysis of the interest in the various INSPIRE data themes.

| | | | |
|--|--|---|--------------|
| Infrastructure for Spatial Information in Europe | | Reference: IR DT Selection_Experts final_v5.doc | |
| JRC/CT | Selection of Experts for Implementing Rules DT | 2005-07-29 | Page 5 of 35 |

2 Terms of Reference of SDICs/LMOs

The INSPIRE Work Programme identified the possible roles of SDICs and LMOs in respect to the development of the INSPIRE Implementing Rules as follows:

- to collect and describe user requirements (in its field of competence),
- to submit/develop reference materials as an input to the Drafting Teams,
- to allocate experts to the Drafting Teams,
- to participate in the review process,
- to implement pilot projects to test/revise/develop the draft Implementing Rules,
- to make cost/benefit analysis of the draft Implementing Rules,
- to contribute to awareness raising and training,
- to be kept informed.

3 Terms of Reference and Composition of Drafting Teams

The INSPIRE Work Programme identified the Terms of Reference of the Drafting Teams for the development of the INSPIRE Implementing Rules as follows:

- To analyse and review the reference material provided by the SDICs;
- To demand further input from SDICs if required;
- To write the draft INSPIRE Implementing Rules; the scope will be determined by one of the areas for which Implementing Rules are required;
- To provide recommendations to the Consolidation Team in case of conflicting technical specifications or issues;
- To provide suggestions to the Consolidation Team regarding the testing of any proposed technical specifications.

A Drafting Team (DT) is not expected to be involved in the following:

- Procedural aspects towards an approved Implementing Rule;
- Developing of new specifications;
- Resolving conflicts;
- Maintenance of the specifications beyond the Preparatory Phase.

In respect to the establishment and composition for the DT, the Work Programme indicated as follows:

- A Drafting Team is installed by the European Commission (EC);
- For a better efficiency in drafting, a core DT consists of a small number of experts (typically +/- 5). The experts are selected from those proposed by SDICs, by LMOs and others;
- Those experts participating in the INSPIRE Expert group, should not participate in a DT. Exceptions will be evaluated on a case by case basis.
- The selection of experts is done by the EC, with the advice of the INSPIRE Expert Group. More precisely DG JRC selects DTs focusing on technical aspects with advice from DG Eurostat, DG ENV and the INSPIRE Expert Group. DG Eurostat selects DTs focusing on organizational, legal, and policy aspects with advice of DG JRC, DG ENV and the INSPIRE Expert Group.

| | | | |
|--|--|---|--------------|
| Infrastructure for Spatial Information in Europe | | Reference: IR DT Selection_Experts final_v5.doc | |
| JRC/CT | Selection of Experts for Implementing Rules DT | 2005-07-29 | Page 6 of 35 |

- In particular cases (for instance extreme urgency, or particularly sensitive issues) the European Commission may appoint or dismiss experts. Any vacancies in the DT shall be filled by using the selection procedure described in the previous paragraph.
- The activities and outputs of the DT s will be co-ordinated by the EC through a Consolidation Team (CT) installed by the EC and consisting of EC staff. The CT is assisted by the EEA, and by the chairs of the DTs. The CT will cross-check interdependencies between the draft Implementing Rules and assure the necessary co-ordination to maintain coherence.
- When appropriate, the EC can temporarily appoint a small number of additional experts, or address the EC inter-service group on Geographic Information (COGI) for specific advice.
- In cooperation with the members of the DT and the CT, a chair will be appointed for each DT. The chair appoints a co-chair who replaces him or her whenever needed.

4 Results of the open call for Experts

At the deadline for the first submission of experts' nominations, the following had registered on the INSPIRE website:

- Spatial Data Interest Communities (SDICs): 133
- Legally Mandate Organisations (LMOs): 82
- Proposed Experts (individuals): 180
- Referenced Materials: 90
- Identified Projects: 91

After this deadline additional SDIC/LMO and experts registered. The situation at 26th July 2005 was the following

- Spatial Data Interest Communities (SDICs): 142
- Legally Mandate Organisations (LMOs):91
- Proposed Experts (individuals): 195
- Referenced Materials: 96
- Identified Projects: 96

Appendix 1 gives the full list of the experts registered by the respective SDICs and LMOs.

It also gives a list of the Experts that registered after the deadline until 26th July 2005.

5 Process and Criteria for the Selection of Experts

The published INSPIRE Work Programme indicated the following in respect to the criteria for the selection of Experts:

- SDICs and LMOs are being requested to propose experts for the DTs. Nominations need to be accompanied by the expert's contact information, the precise area of expertise, and a short (300 words max) and long curriculum vitae (optional), along with the preference for the DT to which the expert wishes to contribute and a realistic commitment on his or her availability. This availability should be expressed both in terms of person days and in terms of the time window in which he or she can contribute to the DT.
- The curriculum vitae and other information that the selection panel may have about the candidate is used to see to which extent the candidate matches a set of general and specific

| | | | |
|--|--|---|--------------|
| Infrastructure for Spatial Information in Europe | | Reference: IR DT Selection_Experts final_v5.doc | |
| JRC/CT | Selection of Experts for Implementing Rules DT | 2005-07-29 | Page 7 of 35 |

criteria. These criteria are listed in the tables below. Eventually a balance should be ensured between experts from Public Administration, Private sector, Research institutions.

Table I: Generic criteria for the selection of experts

| Type | Criteria |
|---------------------|--|
| Background | Active involvement in the development of NSDI, RSDI is required Knowledge of environmentally and information society related Directives is an asset Involvement in on going projects related to INSPIRE Implementing Rules is an asset |
| Drafting experience | Effective drafting Knowledge of developing abstract specifications Knowledge of developing implementation specifications |
| Commitments | Availability and Commitment to perform the tasks Commitment to ensure a broader feedback to experts' community in due time |

Table II: Specific criteria for the selection of experts

| Area | Criteria |
|---------------------------|--|
| Metadata for spatial data | Thematic expertise in metadata for the INSPIRE themes Participation in national and international standards development including thesauri and multi-lingual issues Experience with encoding (XML) Development and implementation of mechanisms for schema translation |
| Data Specifications | Conceptual modelling of spatial databases and Conceptual schema language expertise (UML) Thematic expertise in INSPIRE themes Participation in standards development for data specifications at local, national or international level, including multi-lingual issues Implementation of relevant standards for development of data specifications and data exchange mechanisms (XML/GML) Ontology modelling expertise and experience of multi-resolution representation in spatial databases Development and implementation of mechanisms for schema translation |
| Network services | Experience in SDI technical implementation System Architecture expertise Experience in Architecture verification and validation Knowledge of existing and emerging open IT and geospatial standards Distributed processing implementation and operation experience Specifications methods knowledge (UML,...) and tools Implementation specifications expertise |
| Data & Service sharing | Thematic expertise in different types of rights, such as rights of ownership, rights of use, copyright Experience with international / national / regional data policy development Knowledge of PSI Directive, Aarhus Convention Knowledge of different business models on data dissemination Knowledge on other related legal circumstances (e.g. privacy issues, national defence...) |
| Monitoring & Reporting | Knowledge on indicator generation Experience with international/national/regional data policy development Experience with other Community reporting obligations Knowledge of cost/benefit analysis |

As indicated by the Sections above the call for experts has had a tremendous success in terms of both breadth and thematic diversity of the community of stakeholders, and the extent of support offered toward the implementation of INSPIRE in respect to human and technical expertise, reference material, and financial commitment to support the nominated experts. Capitalising on the extent of this

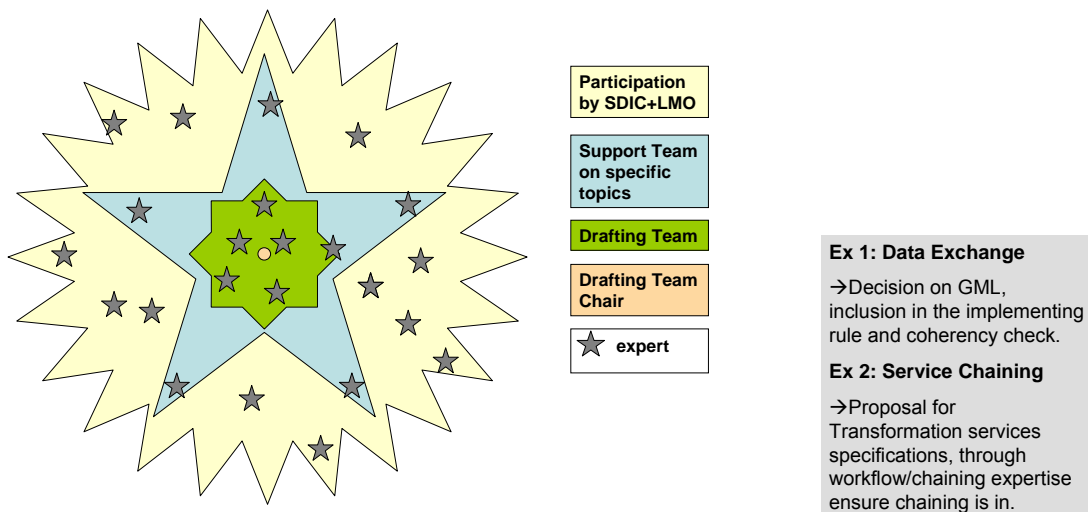
support is enormously important for the success of INSPIRE.

Therefore, whilst it was necessary to select from the large number of experts proposed small teams able to work effectively in coming to early drafts of the implementing rules, it was also clear that **all** the SDICs and LMOs that had experts available should be closely involved in the development process.

With these considerations in mind, the following organisational structure is adopted for the Drafting Teams:

- A small Core Team of editors for reviewing the material available and producing early drafts of the Implementing Rules;
- A small group of additional experts whom the Core group can call upon for specific areas of expertise during the reviewing, Drafting, or Commenting stages (Support Team);
- A small cross-cutting group of experts concentrating on the interface between data specifications, metadata, and network services and helping to ensure the overall technical consistency of the implementing rules;
- A broader group of experts nominated by **all** the SDICs and LMOs not already represented in the Core Drafting Team for internal reviewing and commenting on the drafts;
- The community at large including all the SDICs registered (including those registered after 29th April, and those that have not proposed experts), and others through the open publication of the drafts for comments.

The following figure captures the organisational structure of the Drafting Teams.



Having set out a proposed structure that ensure flexibility and effectiveness as well as capitalizing on the full range of expertise put forward by the SDICs/LMOS, the following process has been adopted to structure the selection of the Core Drafting Team and Support Team:

- Independent review of all the material submitted by each expert (short and Long CV whenever available) by an EC selection panel;
- Long Short-List of possible candidates with indication of their core competence and value adding to the specific Drafting Team, thematic expertise, background (public, private, and academic sectors), extent of availability, degree of support by SDIC and or LMO, and perspective (mainly data user, producer, or value adding);
- Short list of candidates considering potential overlap between Core Drafting Teams, balance between thematic expertise, background and perspectives, extent and degree of support, and geographical spread.

| | | | |
|--|--|---|--------------|
| Infrastructure for Spatial Information in Europe | | Reference: IR DT Selection_Experts final_v5.doc | |
| JRC/CT | Selection of Experts for Implementing Rules DT | 2005-07-29 | Page 9 of 35 |

The short list of candidates has been presented to the INSPIRE Expert Group at the meeting in Alghero on 28th June 2005. Two weeks have been allowed for formal comments by the INSPIRE Expert Group and other Commission services. Following this period of consultation, the proposed experts have been contacted to confirm their availability. This document presents the results of this consultation, and the final selection of experts for the drafting teams.

6 Metadata Drafting Team

Next to the general criteria for pre-selection of Experts some specific criteria for Metadata of the implementation of the directive were applied, as mentioned in the Terms of Reference of the INSPIRE Work Programme (see Table II – chapter 5 of this document).

6.1 Metadata Core Drafting Team

| Name | Role/Expertise | Nationality |
|-----------------------|--------------------------------------|-------------|
| Marcel Reuvers | DT Chair, link with CEN/TC287 | NL |
| Michael Gould | SDI implementation | ES |
| Nicolas Lesage | standards/mapping | FR |
| Stefano Nativi | Link with GMES+ Grid | IT |
| Gil Ross | Weather data | UK |
| Kristian Senkler | Catalogues | DE |
| To be confirmed | Environment metadata | EEA/EIONET |

6.2 Metadata Support Drafting Team on specific topics

| Name | Role/Expertise | Nationality |
|-------------------|---|-------------|
| Maico Centis | Link to monitoring and reporting | IT |
| David Danko | International implementation | US |
| Jan Hjelmager | Expert Cadastre | DK |
| Therese Libourel | Data modelling Link to Data specifications | FR |
| Per Ryghaud | Geology | NO |
| Thomas Vögele | Expert Environmental data | DE |
| TbD ^{1*} | e-government | TbD |

*TbD = To be determined.

In addition to the contribution of e-gov and environment communities, it is envisaged that the process of drafting the Metadata Implementing Rules will work in close collaboration with the activities of CEN/TC 287 which is in the process of developing a European metadata core, the first draft of which is scheduled for November 2005.

¹ Contacts are being established with the CEN Information Society Standards System (ISSS) –Multimedia Metadata Initiative - Dublin Core (MMI-DC) which has been developing Workshop Agreements on the use of ISO 15836 (Dublin Core) for e-government metadata. Should the CEN ISSS Technical Proposal "Environmental information and dissemination to the public" be resourced, it will be used to fill the current gap in e-government expertise.

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|--|--|---|---------------|
| Infrastructure for Spatial Information in Europe | | Reference: IR DT Selection_Experts final_v5.doc | |
| JRC/CT | Selection of Experts for Implementing Rules DT | 2005-07-29 | Page 10 of 35 |

6.3 LMO/SDIC Represented by the selected experts of the Metadata Teams

| Surname | LMO | SDIC |
|-----------------|--|---|
| Centis | | ISA Map: Harmonisation of regional data resources for cross-border planning |
| Danko | | OGC-SDIC: Open Geospatial Consortium SDIC |
| Gould | IDEE WG of the Commission on Geomatics (National Geographic High Council, ES) | OGC-SDIC |
| Hjelmager | National Survey and Cadastre, Denmark | EuroSDR |
| Lesage | IGN, France CNIG, France | EuroGeographics EuroSDR |
| Libourel | LIRMM: Le Laboratoire d'Informatique, de Robotique et de Microélectronique de Montpellier | ROSELT: Long Term Ecological Monitoring Observatories Network |
| Nativi | | INTERO: Italian National Earth & Environment Research Community OGC-SDIC |
| Reuvers | Ravi/NCGI: National Centre for GI Cadastre, Land Registry and Mapping Agency Netherlands Institute of Applied Geoscience TNO - National Geological Survey | |
| Ross | Met Office British Atmospheric Data Centre | WMO RAVI: World Meteorological Organisation Region VI grouping |
| Ryghaud | Geological Survey of Norway | European Geological Surveys |
| Senkler | Lenkungsgremium GDI-DE (Steering Committee GDI-DE) | |
| To be confirmed | | EEA/EIONET |
| Vögele | Coordination Center UDK/GEIN (KUG) | |

6.4 Other LMOs that have nominated experts for Metadata

| Organisation |
|---|
| Bundesamt für Kartographie und Geodäsie (BKG), Germany |
| Colegio de Registradores de la Propiedad, Mercantiles y Bienes Muebles de España (Association of Land and Mercantile Registrars of Spain) |
| Dirección General para la Biodiversidad, Spain |
| European Land Registry Association (ELRA), Spain |
| Federal Office of Metrology and Surveying (BEV), Austria |
| Hellenic Mapping and Cadastral Organization |
| IDEE Working Group of the Commission on Geomatics (National Geographic High Council Spain) |
| Institute of Geodesy, Cartography and Remote Sensing, Hungary |
| Inventaire forestier national –France |
| NGI (Nationaal Geografisch Instituut) IGN (Institut Géographique National), Belgium |
| Royal Netherlands Meteorological Institute (KNMI) |
| Umweltbundesamt GmbH (Austrian Federal Environment Agency) |

6.5 Other SDICs that have nominated experts for Metadata

| Acronym | Title |
|--------------|---|
| AGISEE | Association for Geospatial Data in South-East Europe |
| AGILE | Association of Geographic Information Laboratories Europe |
| ATMOS-DMC | Atmospheric Data Management Centres |
| CEMR | Council of European Municipalities and Regions |
| CBC | Cross Border Cooperation |
| DEG-AP | Data Exchange Group on Air Pollution |
| DFD | German Remote Sensing Data Center |
| EMI | European Meteorological Infrastructure |
| ESIT | Project for ESRIN enhanced service infrastructure technology |
| EUREF | Reference Frame Sub-Commission for Europe of the IAG |
| FPGI / PFIG | Federal Platform for Geo-Information (BE) |
| GI-CLAN | Geo-Information Community in Coastal LANDscape |
| GIS-Flanders | SDI GIS-Flanders |
| MAGGIS | Working Group for the Management of Geotectonic data in GIS projects |
| NATURE-GIS | Geo-Information in Protected Areas and Nature Conservation |
| OGESDI | Open standards based geospatial services development and implementation |
| PASI | Polish Association for Spatial Information |
| Registra | Registra, SL |
| RurSDI | SDI for rural activities |
| Sea-Search | Pan-European network for oceanographic and marine data and information management |
| TEE | Technical Chamber of Greece |

| | | | |
|--|--|---|---------------|
| Infrastructure for Spatial Information in Europe | | Reference: IR DT Selection_Experts final_v5.doc | |
| JRC/CT | Selection of Experts for Implementing Rules DT | 2005-07-29 | Page 12 of 35 |

7 Data Specifications Drafting Team

Next to the general criteria for pre-selection of Experts some specific criteria for Data Specifications of the implementation of the directive were applied, as mentioned in the Terms of Reference of the INSPIRE Work Programme (see Table II – chapter 5 of this document).

Of the three technical chapters of the Directive, the Chapter “Interoperability of Spatial Data Sets and Services” (commonly referred to in the document as simply “Data Specifications”) has the largest scope, since it covers the specifications for 31 data themes in the Annexes. Clearly it is not possible to represent the expert knowledge across all these themes in a Drafting Team composed of a few individuals. The selection process has therefore identified those candidates who bring expertise across several of the “Annex I-II” data themes, plus those with expertise in the “Annex III” data themes.

The composition of the proposed Drafting Team reflects the fact that, in the initial phase of the Implementing Rules development, the key objective must be to provide a common technical framework within which specifications for the various themes can be developed. This implies a common methodology for specifications development, which requires expertise in data modelling, conceptual schema language, feature identifiers, multiple representation, spatio-temporal modelling, data exchange, schema transformation and multilingual issues. Experts with these skills have been selected to be included in the Drafting Team. In the subsequent phase, the Drafting Team will be involved in the organisation of “sub-teams” who will produce the actual specifications for the separate or groupings of themes of the Annexes.

7.1 Data Specifications Core Drafting Team

| Name | Role/Expertise | Nationality |
|------------------------|--|-------------|
| Clemens Portele | DT Chair, schema transformation | DE |
| Eric Bayers | Multilingual aspects | BE |
| Andreas Illert | Reference data | DE |
| Arvid Lillethun | Environmental data requirements | NO |
| Keith Murray | Data modelling, identifiers | UK |
| Claudia Pegoraro | Conceptual Schema Language | IT |
| Peter Van Oosterom | Standards, cadastre requirements | NL |

7.2 Data Specifications Support Drafting Team on specific topics

| Name | Role/Expertise | Nationality |
|---------------------|----------------------------------|-------------|
| Marek Baranowski | Environmental data requirements | PL |
| Peter Bartak | Reference data | CZ |
| Hans-Ulrich Bartsch | Geo-scientific data requirements | DE |
| André Bernath | Data modelling | CH |
| Francis Bertrand | Environmental data requirements | FR |
| Stephan Gruber | Reference data, data modelling | AT |
| Heinz Habrich | Geodetic Reference Systems | DE |
| Stapan Kafka | Imagery requirements | CZ |

| | | | |
|--|--|---|---------------|
| Infrastructure for Spatial Information in Europe | | Reference: IR DT Selection_Experts final_v5.doc | |
| JRC/CT | Selection of Experts for Implementing Rules DT | 2005-07-29 | Page 13 of 35 |

| Name | Role/Expertise | Nationality |
|-------------------|--|-------------|
| Ron Lake | Data exchange | CA |
| Dominique Laurent | Data modelling | FR |
| Therese Libourel | Conceptual modelling, Link to Metadata | FR |
| George Panopoulos | Spatio-temporal representation | GR |
| Marcel Reuvers | Standards | NL |
| Anne Ruas | Multiple representation | FR |
| Markus Seifert | Standards, reference data | DE |
| Andrew Woolf | Data exchange | UK |

7.3 LMO/SDIC Represented by the selected experts of the Data Specifications Teams

| Surame | LMO | SDIC |
|------------|---|--|
| Baranowski | | PASI: Polish Association for Spatial Information |
| Bartak | | OGESDI: Open standards based geospatial services development and implementation |
| Bartsch | | European Geological Surveys SDIC |
| Bayers | NGI-IGN Belgium | Federal Platform for geo-information |
| Bernath | Swiss Organisation for Geographical Information | |
| Bertrand | Ministere de l'Ecologie et du Développement Durable, France CNIG, France | |
| Gruber | Federal Office of Metrology and Surveying (BEV) | |
| Habrich | Bundesamt für Kartographie und Geodäsie (BKG) | EUREF EuroSDR |
| Illert | Bundesamt für Kartographie und Geodäsie (BKG) | EuroSDR EuroGeographics |
| Kafka | | RurSDI: SDI for rural activities |
| Lake | | OGC-SDIC: Open Geospatial Consortium SDIC |
| Laurent | IGN, France CNIG, France | |
| Libourel | LIRMM: Le Laboratoire d'Informatique, de Robotique et de Microélectronique de Montpellier | ROSELT: Long Term Ecological Monitoring Observatories Network |
| Lillethun | Norwegian Mapping and Cadastre Authority | European Environment Agency |
| Murray | Ordnance Survey | Intra-Governmental Group on GI, UK Royal Institute of Chartered Surveyors Geomatics |
| Panopoulos | | TEE: technical Chamber of Greece |
| Pegoraro | | Sistema Informativo Territoriale e Ambientale Diffuso del Sistema Piemonte |
| Portele | Lenkungsgremium GDI-DE | OGC-SDIC |

| | | | |
|--|--|---|---------------|
| Infrastructure for Spatial Information in Europe | | Reference: IR DT Selection_Experts final_v5.doc | |
| JRC/CT | Selection of Experts for Implementing Rules DT | 2005-07-29 | Page 14 of 35 |

| Surame | LMO | SDIC |
|--------------|--|--|
| Reuvers | Ravi/NCGI Cadastre, Land Registry and Mapping Agency Netherlands Institute of Applied Geoscience TNO - National Geological Survey | |
| Ruas | IGN, France CNIG, France | EuroSDR |
| Seifert | Lenkungsgrremium GDI-DE (Steering Committee GDI-DE) (explanation: GDI-DE = SDI Germany) | |
| Van Oosterom | | OGC-SDIC |
| Woolf | British Atmospheric Data Centre (NCAS/BADC) | ATMOS-DMC: Atmospheric Data Management Centres |

7.4 Other LMOs that have nominated experts for Data Specifications

| Organisation |
|---|
| Agriculture and Fisheries Unit, JRC |
| Colegio de Registradores de la Propiedad, Mercantiles y Bienes Muebles de España (Association of Land and Mercantile Registrars of Spain) |
| Direccion General para la Biodiversidad, Spain |
| Hellenic Mapping and Cadastral Organization |
| IDEE Working Group of the Commission on Geomatics (National Geographic High Council), Spain |
| Instituto Geográfico Português |
| Institute of Geodesy, Cartography and Remote Sensing (FÖMI), Hungary |
| Lantmateriet, National Land Survey, Sweden |
| Met Office (UK) |
| Ministry for Environment Physical Planning and Public Works, Greece |
| Umweltbundesamt GmbH (Austrian Federal Environment Agency) |

7.5 Other SDICs that have nominated experts for Data Specifications

| Acronym | Title |
|--------------|---|
| AGILE | Association of Geographic Information Laboratories Europe |
| AGISEE | Association for Geospatial Data in South-East Europe |
| CBC | Cross Border Cooperation |
| CEMR | Council of European Municipalities and Regions |
| DEG-AP | Data Exchange Group on Air Pollution |
| EGS | European Geological Surveys SDIC |
| ELRA | European Land Registry Association |
| EMI | European Meteorological Infrastructure |
| ESIT | Project for ESRIN enhanced service infrastructure technology |
| EUREF | Reference Frame Sub-Commission for Europe of the International Association of Geodesy |
| EUROGI | European Umbrella Organisation for Geographic Information |
| GHARIMS | Generalization of Hazard/Risk predictive Mapping Standards for Disaster Management |
| GI-CLAN | Geo-Information Community in Coastal LANDscape |
| GIS-Flanders | SDI GIS-Flanders |

| | | | |
|--|--|---|---------------|
| Infrastructure for Spatial Information in Europe | | Reference: IR DT Selection_Experts final_v5.doc | |
| JRC/CT | Selection of Experts for Implementing Rules DT | 2005-07-29 | Page 15 of 35 |

| Acronym | Title |
|------------|---|
| GPN | German Phytodiversity Network |
| IGGI | United Kingdom, Intra-Governmental Group on Geographic Information |
| INTERO | Italian National Earth& Environment Research Community |
| IRCCM | International Research Consortium on Continental Margins |
| ISA Map | Harmonisation of regional data resources for cross-border planning |
| MAGGIS | Working Group for the Management of Geo-tectonic data in GIS projects |
| NAGREF | National Agricultural Research Foundation |
| NATURE-GIS | Geo-Information in Protected Areas and Nature Conservation |
| ND | Digital Norway (Norw.: Norge Digitalt) |
| Registra | Registra, SL |
| RICS | RICS Geomatics |
| Sea-Search | Sea-Search: pan-European network for oceanographic and marine data and information management |
| SGSETAU | System of geospatial ensuring temporary association of Ukraine |
| SOGI | Swiss Organisation for Geographic Information |
| WISE GIS | Expert Group on GIS under the Water Framework Directive (WFD) |
| WMO-RAVI | World Meteorological Organisation Region VI grouping (RAVI) |

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|--|--|---|---------------|
| Infrastructure for Spatial Information in Europe | | Reference: IR DT Selection_Experts final_v5.doc | |
| JRC/CT | Selection of Experts for Implementing Rules DT | 2005-07-29 | Page 16 of 35 |

8 Network Services Drafting Team

Next to the general criteria for pre-selection of Experts some specific criteria for Network Services of the implementation of the directive were applied, as mentioned in the Terms of Reference of the INSPIRE Work Programme (see Table II – chapter 5 of this document).

In the context of Network Services, the combination of a Core Team, a Support Team on specific technical topics and an Interface Team linking the Network Services Drafting Team with the other Drafting Teams or the SDIC/LMO on specific topics will help ensuring technical soundness, consistency and coherency of the resulting draft Implementing Rules.

8.1 Network Services Core Drafting Team

| Name | Role/Expertise | Nationality |
|----------------------|---|-------------|
| Jean-Jacques Serrano | DT Chair, Geoportal, Spatial data theme expertise | FR |
| Markus Müller | NSDI Development and Maintenance | DE |
| Olaf Østensen | ISO TC 211 | NO |
| Didier Richard | Exchange and Web Services | FR |
| Tapani Sarjakoski | Transformation | FI |
| Graham Vowles | Software Engineering and DRM | UK |

8.2 Network Services Support Drafting Team on specific topics

This team is part of the Network Services Drafting Team; the Support Team provides technical expertise on specific topics.

| Name | Role/Expertise | Nationality |
|-------------------------------|---------------------------------|-------------|
| Pedro Alvarez- Pérez- Aradros | Upload services | ES |
| Tomasz Berezowski | Implementation | PL |
| Buckl Bernhard | Discovery | DE |
| Yves Coene | Chaining | BE |
| Dominique Flandroit | View services | BE |
| Michel Grothe | Invoke services | NL |
| Corrado Iannucci | Download/Link with EIONET | IT |
| Werner Hoffman | Architecture | AT |
| Martin Tuchyna | Link with Environment Community | SK |

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|--|--|---|---------------|
| Infrastructure for Spatial Information in Europe | | Reference: IR DT Selection_Experts final_v5.doc | |
| JRC/CT | Selection of Experts for Implementing Rules DT | 2005-07-29 | Page 17 of 35 |

8.3 Network Services Interface Team

This team is part of the Network Services Drafting Team. The Interface Team will ensure consistency with the other chapters of the directive during the implementing rules drafting. In addition, should new reference materials be required, the Interface Team will link to the relevant SDIC/LMO for example for the provision of new reference material. Whenever possible, the selection was done to ensure the expert has knowledge in both directive chapters and was as well is a member of the targeted DT.

| Name | Proposed Role | Nationality |
|-------------------------------------|------------------------------|-------------|
| Michael Gould (service metadata) | Links services to Metadata | ES |
| Lea Leskinen | Links services to sharing | FI |
| Pedro Muro-Medrano | Links services to monitoring | ES |
| Clemens Portele (data phase 1) | Links services to data spec | DE |
| Kristian Senkler (service metadata) | Links services to Metadata | DE |
| Peter Van Oosterom (data phase 2) | Links services to data spec | NL |

8.4 LMO/SDICS represented by the selected experts of Network Services Teams

| Surname | LMO | SDIC |
|-----------------------|---|---|
| Álvarez Pérez-Aradros | | OGC-SDIC: Open Geospatial Consortium |
| Berezowski | | OGESDI: Open standards based geospatial services development and implementation |
| Bernhard | | DFD: German Remote Sensing Data Center |
| Coene | | ESIT: Project for ESRIN enhanced service infrastructure technology |
| Flandroit | NGI-IGN Belgium | Federal Platform for Geo-information |
| Gould | IDEE WG of the Commission on Geomatics (National Geographic High Council, ES) | OGC-SDIC |
| Grothe | Ministry of Transport, Public Works and Water management | EuroSDR |
| Leskinen | | EMI: European Meteorological Infrastructure |
| Müller | Lenkungsgremium GDI-DE (Steering Committee Spatial Data Infrastructure Germany) | |
| Muro-Medrano | IDEE WG of Commission on Geomatics (NGHC) | OGC-SDIC |
| Nativi | | OGC-SDIC INTERO: Italian National Earth & Environment Research Community |
| Østensen | Norwegian Mapping and Cadastre Authority | |
| Portele | Lenkungsgremium GDI-DE | OGC-SDIC |
| Richard | IGN, France CNIG, France | EuroSDR |
| Sarjakoski | Finnish Geodetic Institute | EuroSDR EuroGeographics |
| Serrano | CNIG, France BRGM France | OGC-SDIC EGS: European Geological Surveys |
| Van Oosterom | | OGC-SDIC |
| Vowles | Ordnance Survey | OGC-SDIC EuroSDR |

| | | | |
|--|--|---|---------------|
| Infrastructure for Spatial Information in Europe | | Reference: IR DT Selection_Experts final_v5.doc | |
| JRC/CT | Selection of Experts for Implementing Rules DT | 2005-07-29 | Page 18 of 35 |

8.5 Other LMOs that have nominated experts for Network Services

| Organisation |
|--|
| British Atmospheric Data Centre (NCAS/BADC) |
| Federal Office of Metrology and Surveying (BEV), Austria |
| Met Office, UK |
| Ministero dell'Ambiente e Tutela del Territorio, Italy |
| Institut d'Aménagement et d'Urbanisme de la Région d'Ile-de-France-Paris |
| Institute of Geodesy, Cartography and Remote Sensing, Hungary |
| Slovak environmental agency |
| Umweltbundesamt GmbH (Austrian Federal Environment Agency) |

8.6 Other SDICs that have nominated experts for Network Services

| Acronym | Title |
|--------------|---|
| AGEO | Österreichischer Dachverband für Geographische Information / Austrian Umbrella Organization for GI |
| AGISEE | Association for Geospatial Data in South-East Europe |
| ATMOS-DMC | Atmospheric Data Management Centres |
| DEG-AP | Data Exchange Group on Air Pollution |
| EUREF | Reference Frame Sub-Commission for Europe of the International Association of Geodesy |
| GHARIMS: | Generalization of HAZard/Risk predictive Mapping Standards for disaster management |
| GI-CLAN | Geo-Information Community in Coastal LANDscape |
| GIS-Flanders | SDI GIS-Flanders |
| IRCCM | International Research Consortium on Continental Margins |
| ISA Map | Harmonisation of regional data resources for cross-border planning |
| RurSDI | SDI for rural activities |
| Sea-Search | Sea-Search: pan-European network for oceanographic and marine data and information management |
| SOGI | Swiss Organisation for Geographic Information |
| TEE | Technical Chamber of Greece |
| TWINS | Transnational Working group for Interoperable Network Services |
| UkrCosmoGIS | Ukrainian Working Group for the implementation of remote sensing data and technologies in the State Monitoring Environmental System |
| WMO-RAVI | World Meteorological Organisation Region VI grouping (RAVI) |

| | | | |
|--|--|---|---------------|
| Infrastructure for Spatial Information in Europe | | Reference: IR DT Selection_Experts final_v5.doc | |
| JRC/CT | Selection of Experts for Implementing Rules DT | 2005-07-29 | Page 19 of 35 |

9 Data and Service Sharing Drafting Team

Next to the general criteria for pre-selection of Experts some specific criteria for Data and Service Sharing of the implementation of the directive were applied, as mentioned in the Terms of Reference of the INSPIRE Work Programme (see Table II – chapter 5 of this document).

In respect to the Data and Service Sharing DT the joint analysis proved an under-representation of the spatial data user communities. Since the Call for expression of interest remains open, the Commission intends to present for this particular DT additional experts before the DT kick-off meeting foreseen in early October. The composition of the DT in Table 9.1 is therefore to be considered provisional, pending the selection of additional experts.

9.1 Data and Service Sharing Core Drafting Team (Provisional)

| Name | Role/Expertise | Nationality |
|--------------------|--|-------------|
| Ulrike Menzel | DT chair, Pricing policies, rights of use, copyrights | AT |
| Laila Aslesen | Cadastral legislation PSI implementation | NO |
| Stefan Bjorkhammer | Copyrights and dissemination | SE |
| Claire Hadley | GI data policy and public affairs Licensing, Data custodianship | UK |
| Matti Holopainen | Link to local government | FI |
| Jorge Requejo | Cost issues related to NSDI Environmental restrictions on property rights | ES |
| Ewa Wysocka | Legal regulations in surveying and cartography | PL |

9.2 Data and Service Sharing Support Drafting Team (Provisional)

| Name | Role/Expertise | Nationality |
|-----------------------|--|-------------|
| Jens Hollaender | Subscription based licensing models Intellectual Property Rights | DK |
| Ian Jackson | Strategic, political and economic issues related to spatial data acquisition and access | UK |
| Katleen Janssen | PSI and State of Play, liability | BE |
| Lea Leskinen | Data policy management PSI for meteo-data | FI |
| Claire Stacino | Database protection rights Privacy legislation | BE |
| Romain Vialle | Administrative, financial and business framework | FR |
| Roland Michael Wagner | Digital Rights Management Geo e-Business | DE |

| | | | |
|--|--|---|---------------|
| Infrastructure for Spatial Information in Europe | | Reference: IR DT Selection_Experts final_v5.doc | |
| JRC/CT | Selection of Experts for Implementing Rules DT | 2005-07-29 | Page 20 of 35 |

9.3 LMO/SDICS represented by the selected experts of Data and Service Sharing Teams

| Surname | LMO | SDIC |
|-------------|--|--|
| Aslesen | Norwegian mapping and cadastre authority | EuroGeographics |
| Bjorkhammer | Lantmateriet Sweden | |
| Hadley | | IGGI: Inter-governmental Group for GI |
| Hollaender | | KMS: National Survey and Cadastre, Denmark |
| Holopainen | | CEMR: Council of European Municipalities and Regions |
| Jackson | | EGS: European Geological Surveys |
| Janssen | | SDIC-MORE: MOnitoring and REporting |
| Leskinen | | EMI: European Meteorological Infrastructure |
| Menzel | Federal office of surveying BEV, Austria | |
| Requejo | Collegio de Registradores de la Propiedad, Spain | |
| Stacino | NGI-IGN Belgium | EuroGeographics |
| Vialle | CNIG, France IGN, France | |
| Wagner | | OGC-SDIC:Open Geospatial Consortium |
| Wysocka | | PASI: Polish Association for Spatial Information |

9.4 Other LMOs that have nominated experts for Data and Service Sharing

| Organisation |
|---|
| British Atmospheric Data Centre (NCAS/BADC) National |
| Direccion General para la Biodiversidad National, Spain |
| European Land Registry Association (ELRA), Spain |
| General Administration of Patrimonial Documentation National, Belgium |
| Hellenic Mapping and Cadastral Organisation |
| Institut Géographique National, France |
| Institute of Geodesy, Cartography and Remote Sensing National, Hungary |
| Lenkungsgremium GDI-DE (Steering Committee Spatial Data Infrastructure Germany) |
| LIRMM: Le Laboratoire d'Informatique, de Robotique et de Microélectronique de Montpellier |
| Met Office, UK |
| Ministry for Environment Physical Planning and Public Works National, Greece |
| Ordnance Survey GB |
| Royal Netherlands Meteorological Institute (KNMI) |
| Umweltbundesamt GmbH (Austrian Federal Environment Agency) |

| | | | |
|--|--|---|---------------|
| Infrastructure for Spatial Information in Europe | | Reference: IR DT Selection_Experts final_v5.doc | |
| JRC/CT | Selection of Experts for Implementing Rules DT | 2005-07-29 | Page 21 of 35 |

9.5 Other SDICs that have nominated experts for Data Sharing

| Acronym | Title |
|-------------|--|
| AGEO | Österreichischer Dachverband für Geographische Information / Austrian Umbrella Organization for Geographic Information |
| AGISEE | Association for Geospatial Data in South-East Europe |
| ATMOS-DMC | Atmospheric Data Management Centres |
| CEMR | Council of European Municipalities and Regions |
| CBC | Cross Border Cooperation |
| EuroSDR | EuroSDR - European Spatial Data Research Organisation |
| GHARIMS | Generalization of HAZard/RIsk predictive Mapping Standards for disaster management |
| GPN | German Phytodiversity Network |
| ISA Map | Harmonisation of regional data resources for cross-border planning |
| IRCCM | International Research Consortium on Continental Margins |
| INTERO | Italian National earTh & Environment Research cOmmunity |
| OGESDI | Open standards based geospatial services development and implementation |
| ESIT | Project for ESRIN enhanced service infrastructure technology |
| RICS | RICS Geomatics |
| RurSDI | SDI for rural activities |
| SDIC ENV RW | SDIC Environnement Région Wallonne |
| Sea-Search | Sea-Search: pan-European network for oceanographic and marine data and information management |
| SGSETAU | System of geospatial ensuring temporary association of Ukraine |
| WISE GIS | Expert Group on GIS under the Water Framework Directive (WFD) |
| WMO-RAVI | World Meteorological Organisation Region VI grouping (RAVI) |

| | | | |
|--|--|---|---------------|
| Infrastructure for Spatial Information in Europe | | Reference: IR DT Selection_Experts final_v5.doc | |
| JRC/CT | Selection of Experts for Implementing Rules DT | 2005-07-29 | Page 22 of 35 |

10 Monitoring and Reporting Drafting Team

Next to the general criteria for pre-selection of Experts some specific criteria for monitoring and reporting of the implementation of the directive were applied, as mentioned in the Terms of Reference of the INSPIRE Work Programme (see Table II – chapter 5 of this document).

Having analysed the candidatures, it became obvious that a major misunderstanding of the scope had occurred. Although both the proposal for a Directive and the INSPIRE Work Programme indicate that the monitoring and reporting activities concern the implementation of the INSPIRE directive, it seems that about $\frac{3}{4}$ of the experts provided their expertise and specialization in the field of environmental monitoring and reporting. There is only a minority of proposals reflecting that the monitoring, evaluation and assessment concerns the implementation of the INSPIRE Directive as such.

On the other hand the team which could be created from those who interpreted the call appropriately seems to be highly competent. The strong candidate for chairing the DT is Ms Marie-Louise Zambon from the Institute Géographique National, France, having a long-term experience in the IGN quality team (focused on both, the geographic data and the processes, management) and particularly in reporting on the mapping activities towards the French Parliament.

Taking into account the misunderstanding of the scope, it was decided to offer the opportunity to all experts who indicated their interest for the field of monitoring and reporting, to confirm or re-consider their commitment for this particular Drafting Team or to express a preference for others, after which the preliminary DT composition can be adapted to the outcome of this clarification process.

10.1 Monitoring and Reporting Core Drafting Team

| Name | Role/Expertise | Nationality |
|----------------------|--|-------------|
| Marie-Louise Zambon | DT chair Generic indicator description grid, Conformance checking, Cost indicators, + Interface with data specification | FR |
| Wolf Garber | Data collection, Environmental monitoring | DE |
| Przemyslaw Gruszecki | link with the reporting mechanism of the WFD | PL |
| Pedro Muro-Medrano | Automated indicator generation and retrieval + Interface with INSPIRE prototype SDIGER + Interface with network services | ES |
| Danny Vandenbroucke | Analysis of monitoring needs, Process evaluation indicators, Cost-effectiveness indicators, Implementation planning | BE |

10.2 Monitoring and Reporting Support Drafting Team

| Name | Role/Expertise | Nationality |
|------------------------|--|-------------|
| Barbara Albiniak | Link to Environmental data/EIONET | PL |
| Maico Centis | Structural Indicators + Interface with metadata | IT |
| Nathalie Delattre | Monitoring and reporting solutions (EDSI for 30 countries) | BE |
| Dimitri Dello Buono | Italian national cartographic portal, coordinating computer science with environmental monitoring and GIS, marketing and data policy issues, MBA + Interface with portals | IT |
| Daniela Florea | Cost-benefit indicators SMEs in eContent | RO/UK |
| Marja Tammilehto-Luode | Finnish SDI strategy and GI council | FI |
| Dirk Vanderstighelen | Process evaluation and improvement planning Implementation monitoring Change-management | BE |

| | | | |
|--|--|---|---------------|
| Infrastructure for Spatial Information in Europe | | Reference: IR DT Selection_Experts final_v5.doc | |
| JRC/CT | Selection of Experts for Implementing Rules DT | 2005-07-29 | Page 23 of 35 |

10.3 LMO/SDICS represented by the selected experts of Monitoring and Reporting Teams

| Surname | LMO | SDIC |
|------------------|---|---|
| Albiniak | | EIONET |
| Centis | | ISA Map: Harmonisation of regional data resources for cross-border planning |
| Delattre | NGI-IGN Belgium | EuroGeographics Federal Platform on Geo-information |
| Dello Buono | | INTERO: Italian National earTh & Environment Research cOmmunity |
| Florea | | CBC: Cross Border Cooperation |
| Garber | | DEG-AP: Data Exchange Group on Air Pollution |
| Gruszecki | | WISE GIS: Expert Group on GIS under the Water Framework Directive (WFD) |
| Muro-Medrano | IDEE WG of the Commission on Geomatics (NGHC, ES) | |
| Tammilehto-Luode | | SDI_Statistics |
| Vandenbroucke | | NATURE-GIS: GI in Protected Areas and Nature Conservation MORE: MONitoring and REporting |
| Vanderstighelen | | GIS-Flanders |
| Zambon | CNIG, France IGN, France | |

10.4 Other LMOs that have nominated experts for Monitoring and Reporting

| Organisation |
|---|
| Agriculture and Fisheries Unit, JRC |
| General Administration of Patrimonial Documentation, Belgium |
| Institut Géographique National, France |
| Institute of Geodesy, Cartography and Remote Sensing, Hungary |
| Ministry for Environment Physical Planning and Public Works, Greece |
| Umweltbundesamt Gmbh (Austrian Federal Environment Agency) |

10.5 Other SDICs that have nominated experts for Monitoring and Reporting

| Acronym | Title |
|-------------|--|
| AGEO | Österreichischer Dachverband für Geographische Information / Austrian Umbrella Organization for GI |
| CEMR | Council of European Municipalities and Regions |
| GCHARIMS | Generalization of HAZard/RIsk predictive Mapping Standards for disaster management |
| GI-CLAN | Geo-Information Community in Coastal LANDscape |
| NAGREF | National Agricultural Research Foundation |
| OGC-SDIC | Open Geospatial Consortium |
| SDIC ENV RW | SDIC Environnement Région Wallonne |
| Sea-Search | Sea-Search: pan-European network for oceanographic and marine data and information management |
| SGSETAU | System of geospatial ensuring temporary association of Ukraine |
| TEE | Technical Chamber of Greece |

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|--|--|---|---------------|
| Infrastructure for Spatial Information in Europe | | Reference: IR DT Selection_Experts final_v5.doc | |
| JRC/CT | Selection of Experts for Implementing Rules DT | 2005-07-29 | Page 24 of 35 |

11 Conclusion and Way Forward

This document has presented the results of the call for experts for the INSPIRE Drafting Teams, and the evaluation process put in place at the JRC and EUROSTAT with the support of the INSPIRE Expert Group and DG Environment.

The Drafting Teams together with the Support Teams will have their initial meeting at the Joint Research Centre in Ispra on the 3-4 October 2005.

Their work will be supported by the wider community of stakeholders including all the registered SDICs and LMOs and the European Commission, which will also have the responsibility of monitoring the overall performance of the teams, and take into account new developments. These will include new projects, reference materials, and experts that may complement or alter the initial teams in recognition of the dynamic nature of the process, and extent of commitment required.

Appendix 1: List of Experts nominated by SDICs and LMOs

| Name | Surname | Organisation | SDIC/LMO | Metadata | Data Spec | Network | Sharing | Monitoring |
|-------------|----------------------|--|---|----------|-----------|---------|---------|------------|
| Henri | Aalders | TU Delft | OGC-SDIC | Y | Y | | | |
| Barbara | Albiniak | Chief Inspectorate for Environmental Protection, Poland | EIONET | | | | | Y |
| Carlos | Almonacid | Universidad Autónoma de Madrid (UAM) | Colegio de Registradores de la Propiedad, Mercantiles y Bienes Muebles de España (Association of Land and Mercantile Registrars of Spain) | Y | Y | | | |
| Carlos | Almonacid | Universidad Autónoma de Madrid (UAM) | European Land Registry Association (ELRA) | Y | Y | | | |
| Pedro J. | Álvarez Pérez-Arados | University of Zaragoza | OGC-SDIC | | | Y | | |
| Laila | Aslesen | Norwegian Mapping and Cadastre Authority | Norwegian Mapping and Cadastre Authority | | | | Y | |
| Lars H. | Backer | Statistics Sweden (Statistiska centralbyrån) | SDI_Statistics | | | | | Y |
| Gebhard | Banko | Umweltbundesamt GmbH (Austrian Federal Environment Agency) | Umweltbundesamt GmbH (Austrian Federal Environment Agency) | | Y | | | Y |
| Marek | Baranowsk | UNEP/GRID-Warsaw | PASI | | Y | | | |
| Cosyn | Bart | Support Center GIS-Flanders | GIS-Flanders | | | Y | | |
| Peter | Bartak | Intergraph EHQ | OGESDI | Y | Y | Y | Y | |
| Hans-Ulrich | Bartsch | BGR is a Member Geological Survey of EuroGeoSurveys | EGS | | Y | | | |
| Joëlle | Bastin | Ministry of Environment | SDIC ENV RW | | | | Y | Y |
| Peter | Baumann | International University Bremen | IRCCM | | Y | Y | Y | |
| Eric | Bayers | NGI-IGN Belgium | NGI-IGN Belgium | | Y | | | |
| Euro | Beinat | SPINlab - Vrije Universiteit Amsterdam | GCHARIMS | | | Y | Y | |
| Rubén | Béjar Hernández | University of Zaragoza | OGC-SDIC | | Y | | | |
| Rubén | Béjar Hernández | University of Zaragoza | IDEA WG of the Commission on Geomatics (National Geographic High Council) | | Y | | | |
| Tomasz | Berezowski | INTERGRAPH Poland Ltd. | OGESDI | | | Y | | |
| André | Bernath | SITgisconsult / GEOAargau AG | SOGI | | Y | | | |
| Elzbieta | Bielecka | Institute of Geodesy and Cartography , Poland | PASI | Y | | | | |

| Name | Surname | Organisation | SDIC/LMO | Metadata | Data Spec | Network | Sharing | Monitoring |
|-----------------|--------------------|--|--|----------|-----------|---------|---------|------------|
| Lorenzo | Bigagli | Italian National Research Council (CNR) | INTERO | | Y | Y | | |
| Stefan | Bjorkhammar | Lantmateriet, National land Survey of Sweden | Lantmateriet, National Land Survey | | | | Y | |
| Frédérique | Blanc | CLS, Space Oceanography Division | Sea-Search | Y | | | | Y |
| Ulrich | Boes | AGISEE | AGISEE | Y | Y | | Y | |
| Kees | Borst | RIJKSWATERSTAAT - RIKZ (Nat.Inst for Coast & Marine Management) | Sea-Search | Y | | | | Y |
| Marek | Brylski | INTERGRAPH Poland Ltd. | OGESDI | | Y | | | |
| Heinz | Brüggemann | Landesvermessungsamt Nordrhein-Westfalen | Lenkungsgremium GDI-DE (Steering Committee GDI-DE) | | | | Y | |
| Bernhard | Buckl | DFD DLR | DFD | Y | | Y | | |
| Alessandro | Caporali | UNIVERSITY OF PADOVA | EUREF | | | Y | | |
| Jacob | Carstensen | National Environmental Research Institute | Sea-Search | | | | | Y |
| Angelo | Cavallin | University of Milano-Bicocca, Milan, Italy | GCHARIMS | | Y | | | Y |
| Maico | Centis | Autonomous Region Friuli Venezia Giulia | ISA Map | Y | Y | Y | Y | Y |
| Karel | Charvat | Wirelessinfo | RurSDI | Y | Y | Y | Y | |
| François | Chirié | IGN France | IGN France | | Y | | Y | |
| François | Chirié | IGN France | CNIG France | | Y | | Y | |
| Chang-Jo | Chung | Geological Survey of Canada | GCHARIMS | | Y | | | Y |
| Yves | Coene | SPACEBEL | ESIT | Y | | Y | Y | |
| João | Cordeiro Fernandes | Instituto Geográfico Português | Instituto Geográfico Português | | Y | | | |
| Arpad | Cseko | Institute of Geodesy, Cartography and Remote Sensing | Institute of Geodesy, Cartography and Remote Sensing | | | | | Y |
| David M. | Danko | ESRI - Europe | OGC-SDIC | Y | | | | |
| Marian | De Vries | Delft University of Technology | OGC-SDIC | Y | Y | Y | | |
| Nathalie | Delattre | NGI-IGN Belgium | NGI-IGN Belgium | | | | | Y |
| Dimitri | Dello Buono | Italian Ministry for the Environment and Territory | INTERO | | | | Y | Y |
| Jean Christophe | Desconnets | Research Unit Desertification - IRD France | ROSELT | Y | Y | | | |
| Wim | Devos | Agriculture and Fisheries Unit, JRC | Agriculture and Fisheries Unit, JRC | | Y | | | Y |
| Ralph | Diment | Intergraph UK | OGESDI | | | | Y | |
| Andreas | Donaubauer | Runder Tisch GIS (Round Table GIS) | TWINS | | | Y | | |

| | | | |
|--|--|---|---------------|
| Infrastructure for Spatial Information in Europe | | Reference: IR DT Selection_Experts final_v5.doc | |
| JRC/CT | Selection of Experts for Implementing Rules DT | 2005-07-29 | Page 27 of 35 |

| Name | Surname | Organisation | SDIC/LMO | Metadata | Data Spec | Network | Sharing | Monitoring |
|-------------------------|-----------------|---|---|----------|-----------|---------|---------|------------|
| Marianna | Dravucz | Institute of Geodesy, Cartography and Remote Sensing | Institute of Geodesy, Cartography and Remote Sensing | | Y | | | |
| Javier | Espiago | Universidad Autónoma de Madrid (UAM) | Registra | Y | Y | | | |
| Experts EuroGeographics | EuroGeographics | EuroGeographics | EuroGeographics | Y | Y | Y | Y | Y |
| Andrea Gabriele | Fabbri | Vrije Universiteit | GCHARIMS | | Y | | | Y |
| Dominique | Flandroit | NGI-IGN Belgium | NGI-IGN Belgium | | | Y | | |
| Daniela | Florea | Geo Strategies Ltd | CBC | | | | Y | Y |
| Zoltan | Forgacs Dr. | Institute of Geodesy, Cartography and Remote Sensing | Institute of Geodesy, Cartography and Remote Sensing | | | | Y | |
| Pierrette | Fraisse | General Administration of Patrimonial Documentation | General Administration of Patrimonial Documentation | | | | Y | Y |
| Michael | Franzen | Federal Office of Metrology and Surveying (BEV) | EuroSDR | | | | Y | |
| Jean-François | Gaillet | Navteq | OGC-SDIC | | Y | | | |
| Wolf | Garber | Federal Environmental Agency, Germany | DEG-AP | | Y | Y | | Y |
| Michael | Gould | Universitat Jaume I | OGC-SDIC | Y | | Y | Y | |
| Michael | Gould | Universitat Jaume I | IDEE WG of the Commission on Geomatics (National Geographic High Council) | | | Y | | |
| Miro | Govedarica | Faculty of Technical Science Center for Geoinformation Technologies and Systems | AGISEE | Y | Y | Y | | |
| Michel | Grothe | RWS AGI | EuroSDR | | | Y | | |
| Michel | Grothe | RWS AGI | Ministry of Transport, Public Works and Watermanagement | | | Y | | |
| Stephan Rupert | Gruber | Federal Office of Metrology and Surveying (BEV) | Federal Office of Metrology and Surveying (BEV) | | Y | | | |
| Przemysław | Gruszecki | The Chief Inspectorate for Environmental Protection | WISE GIS | | Y | | Y | Y |
| Heinz | Habrich | Bundesamt für Kartographie und Geodäsie (BKG) | Bundesamt für Kartographie und Geodäsie (BKG) | | Y | | | |
| Heinz | Habrich | Bundesamt für Kartographie und Geodäsie (BKG) | EuroSDR | | Y | | | |
| Heinz | Habrich | Federal Agency for Cartography and Geodesy (BKG) | EUREF | Y | Y | | | |
| Clare | Hadley | Ordnance Survey | Ordnance Survey | | | | Y | |
| Clare | Hadley | Ordnance Survey | IGGI | | | | Y | |
| Karl | Haussteiner | Federal Office of Metrology and Surveying (BEV) | Federal Office of Metrology and Surveying (BEV) | Y | | | | |

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| Infrastructure for Spatial Information in Europe | | Reference: IR DT Selection_Experts final_v5.doc | |
| JRC/CT | Selection of Experts for Implementing Rules DT | 2005-07-29 | Page 28 of 35 |

| Name | Surname | Organisation | SDIC/LMO | Metadata | Data Spec | Network | Sharing | Monitoring |
|--------------|---------------|--|---|----------|-----------|---------|---------|------------|
| Dr. Dirk | Hinterlang | State Agency for Ecology, Land Reform and Forestry North Rhine-Westphalia (LÖBF NRW) | Lenkungsgrremium GDI-DE (Steering Committee GDI-DE) | | Y | | | |
| Jan | Hjelmager | National Survey and Cadastre, Denmark | KMS | Y | | | | |
| Jan | Hjelmager | National Survey and Cadastre of Denmark (KMS) | EuroSDR | Y | | | | |
| Wernher | Hoffmann | Federal Office of Metrology and Surveying (BEV) | Federal Office of Metrology and Surveying (BEV) | | | Y | | |
| Jens | Hollaender | National Survey and Cadastre, Denmark | KMS | | | | Y | |
| Jans | Hollaender | National Survey and Cadastre (KMS), Denmark | EuroSDR | | | | Y | |
| Matti | Holopainen | Association of Finnish Local Authorities | CEMR | Y | Y | | Y | Y |
| Vilni Verner | Holst Bloch | Statistics Norway | SDI_Statistics | | | | | Y |
| Jan | Horálik | Intergraph | OGESDI | Y | Y | Y | | |
| Corrado | Iannucci | Finsiel SpA | Ministero dell'Ambiente e Tutela del Territorio | | | Y | | |
| Andreas | Illert | Bundesamt für Kartographie und Geodäsie (BKG) | Bundesamt für Kartographie und Geodäsie (BKG) | | Y | | | |
| Andreas | Illert | Bundesamt für Kartographie und Geodäsie (BKG) | EuroSDR | | Y | | | |
| Ian | Jackson | British Geological Survey | EGS | | | | Y | |
| Kathrin | Jaenicke | Runder Tisch GIS (Round Table GIS) | TWINS | | | Y | | |
| Stapan | Kafka | Help Service Remote Sensing | RurSDI | Y | Y | Y | Y | |
| Despina | Kallidromitou | EPSILON International SA | NATURE-GIS | | Y | | | |
| Andriana | Katsina | Hellenic Mapping and Cadastral Organization | Hellenic Mapping and Cadastral Organization | Y | | | | |
| Simon | Kay | Agriculture and Fisheries Unit, JRC | Agriculture and Fisheries Unit, JRC | | Y | | | |
| Wassilios | Kazakos | disy Informationssysteme GmbH | GI-CLAN | Y | | Y | | |
| Mykola | Kharytonov | SC "Dniprokosmos" of National Space Agency of Ukraine | SGSETAU | | Y | | Y | Y |
| Komp | Klaus-Ulrich | EFTAS - Fernerkundung Technologietransfer GmbH | EUROGI | | Y | | | |
| Martin | Krch | INTERGRAPH Germany GmbH | OGESDI | | | Y | | |
| Pavel | Krejcir | Intergraph | OGESDI | Y | | Y | Y | |
| Torsten | Kunkel | GeoTask AG | TWINS | | | Y | | |
| Natalia | Kussul | Space Research Institute NASU-NSAU | UkrCosmoGIS | | | Y | | |

| Name | Surname | Organisation | SDIC/LMO | Metadata | Data Spec | Network | Sharing | Monitoring |
|-------------|--------------|---|---|----------|-----------|---------|---------|------------|
| Ron | Lake | Galdos Systems | OGC-SDIC | Y | Y | Y | Y | |
| Dominique | Laurent | IGN France | IGN France | | Y | | | |
| Dominique | Laurent | IGN France | CNIG France | | Y | | | |
| Nicolas | Lesage | IGN France | IGN France | Y | | | | |
| Nicolas | Lesage | IGN France | CNIG France | Y | | | | |
| Nicolas | Lesage | IGN France | EuroSDR | Y | | | | |
| Lea | Leskinen | Finnish Meteorological Institute | EMI | Y | Y | | Y | |
| Pal | Levai | Institute of Geodesy, Cartography and Remote Sensing (FÖMI) Hungary | Institute of Geodesy, Cartography and Remote Sensing | | | | Y | |
| Thérèse | Libourel | LIRMM | LIRMM | Y | Y | | Y | |
| Thérèse | Libourel | LIRMM | ROSELT | Y | Y | | | |
| Arvid | Lillethun | Norwegian Mapping and Cadastre Authority | Norwegian Mapping and Cadastre Authority | | Y | | | |
| Leszek | Litwin | Institute of Spatial and Cadastral Systems | NATURE-GIS | Y | Y | | | |
| Felix | Lux | Umweltbundesamt Gmbh (Austrian Federal Environment Agency) | Umweltbundesamt Gmbh (Austrian Federal Environment Agency) | | Y | Y | Y | |
| Gergely | Maucha | Institute of Geodesy, Cartography and Remote Sensing (FÖMI) Hungary | Institute of Geodesy, Cartography and Remote Sensing | Y | | | | |
| Gilbert | Maudire | IFREMER | Sea-Search | Y | Y | Y | Y | |
| Pierre | Maurel | CEMAGREF | GI-CLAN | Y | Y | | | |
| Rudolf | May | Federal Agency for Nature Conservation | GPN | | Y | | Y | |
| Ulrike | Menzel | Federal Office of Metrology and Surveying (BEV) | Federal Office of Metrology and Surveying (BEV) | | | | Y | |
| Bill | Metcalf | Cambridge Strategic Management | CBC | | | | | Y |
| Snejana | Moncheva | Institute of Oceanology, BAS | Sea-Search | | | | | Y |
| Jean-Pierre | Mouton | NGI-IGN Belgium | NGI-IGN Belgium | Y | | | | |
| Pedro R. | Muro-Medrano | University of Zaragoza | OGC-SDIC | | | Y | | Y |
| Pedro R. | Muro-Medrano | University of Zaragoza | IDEA WG of the Commission on Geomatics (National Geographic High Council) | | | | | Y |
| Keith | Murray | Ordnance Survey | Ordnance Survey | | Y | | Y | |
| Keith | Murray | Ordnance Survey Great Britain (OSGB) | EuroSDR | | Y | | Y | |
| Keith | Murray | RICS Geomatics | RICS | | Y | | Y | |
| Keith | Murray | IGGI | IGGI | | Y | | Y | |

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| Infrastructure for Spatial Information in Europe | | Reference: IR DT Selection_Experts final_v5.doc | |
| JRC/CT | Selection of Experts for Implementing Rules DT | 2005-07-29 | Page 30 of 35 |

| Name | Surname | Organisation | SDIC/LMO | Metadata | Data Spec | Network | Sharing | Monitoring |
|-----------|---------------------|---|---|----------|-----------|---------|---------|------------|
| Markus | Müller | AED-SICAD AG | Lenkungsgrremium GDI-DE (Steering Committee GDI-DE) (explanation: GDI-DE = SDI Germany) | | Y | Y | | |
| Kris | Nackaerts | INTERGRAPH Benelux BV | OGESDI | | Y | | | |
| Iuli | Nascimento | Institut d'Aménagement et d'Urbanisme de la Région d'Ile- de-France-Paris | Institut d'Aménagement et d'Urbanisme de la Région d'Ile- de-France-Paris | | | Y | | |
| Stefano | Nativi | Italian National Research Council (CNR) | INTERO | Y | | Y | | |
| Stefano | Nativi | Italian National Research Council (CNR) | OGC-SDIC | Y | | Y | | |
| Markus | Noll | Association of Austrian Cities / town of Bruck an der Mur | CEMR | | Y | | Y | |
| Josè | Ojeda Zujar | University of Seville, Department of Physical Geography | GI-CLAN | Y | | | | Y |
| Olaf | Østensen | Norwegian Mapping and Cadastre Authority | Norwegian Mapping and Cadastre Authority | | | Y | | |
| Anders | Östman | University of Gävle | AGILE | Y | Y | | | |
| Tamas | Palya | Institute of Geodesy, Cartography and Remote Sensing | Institute of Geodesy, Cartography and Remote Sensing | | | Y | | |
| George | Panopoulos | National Technical University of Athens | TEE | Y | Y | Y | | Y |
| Claudia | Pegoraro | CSI Piemonte | SITAD SP | | Y | | | |
| Fabrizio | Piana | Institut of Geoscience and Earth Resources of Italian National Council of Researches (CNR IGG) | MAGGIS | Y | Y | | | |
| Ekaterini | Plessa - Valadaki | Ministry for environment Physical Planning and Public Works | Ministry for Environment Physical Planning and Public Works | | Y | | | Y |
| Spyros | Plessas | Ministry for Environment Physical Planning and Public Works (MINENV) | Ministry for Environment Physical Planning and Public Works | | Y | | Y | Y |
| Catalin | Popa | Geo Strategies SA | CBC | Y | Y | | Y | |
| Clemens | Portele | Interactive Instruments GmbH | OGC-SDIC | Y | Y | Y | | |
| Clemens | Portele | Interactive Instruments GmbH | Lenkungsgrremium GDI-DE (Steering Committee GDI-DE) | Y | Y | Y | | |
| Wilko | Quak | Delft University of Technology | OGC-SDIC | | Y | Y | | |
| Juan | Remondo Tejerina | Universidad de Cantabria | GHARIMS | | Y | | | |
| Jorge | Requejo | Colegio de Registradores de la Propiedad y Mercantiles de España | Colegio de Registradores de la Propiedad, Mercantiles y Bienes Muebles de España (Association of Land and Mercantile Registrars of Spain) | | | | Y | |

| Name | Surname | Organisation | SDIC/LMO | Metadata | Data Spec | Network | Sharing | Monitoring |
|--------------|-------------|--|---|----------|-----------|---------|---------|------------|
| Jorge | Requejo | Colegio de Registradores de la Propiedad y Mercantiles de España | European Land Registry Association (ELRA) | | | | Y | |
| Marcel | Reuvers | Ravi/NCGI | Cadastre, Land Registry and Mapping Agency | Y | Y | Y | | |
| Marcel | Reuvers | Ravi/NCGI | Ravi/NCGI | Y | Y | Y | | |
| Marcel | Reuvers | Ravi/NCGI | Netherlands Institute of Applied Geoscience TNO - National Geological Survey (TNO-NITG) | Y | Y | Y | | |
| Didier | Richard | IGN France | IGN France | Y | | Y | | |
| Didier | Richard | IGN France | EuroSDR | Y | | Y | | |
| Didier | Richard | IGN France | CNIG France | Y | | Y | | |
| Lesley | Rickards | British Oceanographic Data Centre (BODC) | Sea-Search | Y | | | | |
| Gil | Ross | Met Office | WMO-RAVI | Y | Y | Y | Y | |
| Gil | Ross | Met Office | Met Office | Y | Y | Y | Y | |
| Gil | Ross | Met Office | ATMOS-DMC | Y | Y | Y | Y | |
| Gil | Ross | Met Office | British Atmospheric Data Centre (NCAS/BADC) | Y | Y | Y | Y | |
| Anne | Ruas | IGN France | IGN France | | Y | | | |
| Anne | Ruas | IGN France | CNIG France | | Y | | | |
| Anne | Ruas | IGN France | EuroSDR | | Y | | | |
| Blanca | Ruiz Franco | banco de datos para la biodiversidad | Direccion General para la Biodiversidad | Y | Y | | Y | |
| Per | Ryggaug | Geological Survey of Norway | EGS | Y | | | | |
| Tapani | Sarjakoski | Finnish Geodetic Institute (FGI) | Finnish Geodetic Institute | | | Y | | |
| Tapani | Sarjakoski | Finnish Geodetic Institute (FGI) | EuroSDR | | | Y | | |
| Dick | Schaap | MARIS | Sea-Search | Y | | | | |
| Bernhard | Schneider | GeoTask AG | TWINS | | | Y | | |
| Manfred | Schrenk | AGEO / MULTIMEDIAPLAN.AT DI Manfred Schrenk KEG | AGEO | | | Y | Y | Y |
| Markus | Seifert | Bavarian Surveying and Mapping Agency | Lenkungsgremium GDI-DE (Steering Committee GDI-DE) | Y | Y | Y | | |
| Kristian | Senkler | con terra GmbH | Lenkungsgremium GDI-DE (Steering Committee GDI-DE) | Y | | | | |
| Jean-Jacques | Serrano | BRGM | CNIG France | Y | | Y | | |
| Jean-Jacques | Serrano | BRGM | OGC-SDIC | Y | | Y | | |
| Jean-Jacques | Serrano | BRGM | EGS | | | Y | | |
| Jean-Jacques | Serrano | BRGM | BRGM | Y | | Y | | |

| Name | Surname | Organisation | SDIC/LMO | Metadata | Data Spec | Network | Sharing | Monitoring |
|----------------|------------------|---|---|----------|-----------|---------|---------|------------|
| Athanassios | Skodras | Hellenic Open University | Hellenic Mapping and Cadastral Organization | | | | Y | |
| Steven | Smolders | Geographic Information Management SA/NV | ESIT | Y | Y | Y | | |
| Pierluigi | Soddu | Italian Department of Civil Protection USSN | INTERO | | Y | | | |
| Erik | Sommer | Statistics Denmark | SDI_Statistics | | | | | Y |
| Wolfgang | Spangl | Umweltbundesamt | DEG-AP | | | | | Y |
| Claire | Stacino | NGI-IGN Belgium | NGI-IGN Belgium | | | | Y | |
| Emmanuel | Stefanakis | Harokopio University of Athens-Department of Geography | Hellenic Mapping and Cadastral Organization | | Y | | | |
| Dragan | Stojanović | Faculty of Electronic Engineering, University of Niš | AGISEE | | Y | Y | | |
| Ellen | Strandenæs | Public roads Administration / Statens vegvesen | ND | | Y | | | |
| Marja | Tammilehto-Luode | Statistics Finland | SDI_Statistics | | | | | Y |
| Emilia Ivanova | Tcherkezova | Institute for Landscape Planning and Ecology (ILPOE) Stuttgart, Germany | AGISEE | | Y | | | |
| Sideris | Theoharopoulos | NAGREF | NAGREF | | Y | | | Y |
| Martin | Tuchyna | Slovak environmental agency | Slovak environmental agency | | | Y | | |
| Marc | Uffer | Marc Uffer (independent consultant) | SOGI | | | Y | | |
| Dick | Van Den Hout | TNO | DEG-AP | | | | | Y |
| Frans J.M. | Van Der Wel | Royal Netherlands Meteorological Institute (KNMI) | Royal Netherlands Meteorological Institute (KNMI) | Y | | | Y | |
| Frans J.M. | Van Der Wel | Royal Netherlands Meteorological Institute | EMI | Y | | | Y | |
| Peter | Van Oosterom | TU Delft | OGC-SDIC | Y | Y | Y | | |
| Danny | Vandenbroucke | SADL/K.U.Leuven R&D | NATURE-GIS | Y | | | | Y |
| Danny | Vandenbroucke | SADL/K.U.Leuven R&D | MORE MONitoring and REporting | Y | | | | Y |
| Dirk | Vanderstighelen | Support Center GIS-Flanders | GIS-Flanders | Y | Y | | | Y |
| Aleš | Veršič | Environment Agency of the Republic of Slovenia | DEG-AP | Y | | Y | | Y |
| Romain | Vialle | IGN-France | CNIG France | | | | Y | |
| Romain | Vialle | IGN France | IGN-France | | | | Y | |
| Thomas | Voegele | Coordination Center UDK/GEIN (KUG) | Coordination Center UDK/GEIN (KUG) | Y | | | | |
| Emmanouil | Vourvachis | Ministry for the Environment, Physical Planning and Public Works (MINENV) | Ministry for Environment Physical Planning and Public Works | | Y | | | Y |

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| Infrastructure for Spatial Information in Europe | | Reference: IR DT Selection_Experts final_v5.doc | |
| JRC/CT | Selection of Experts for Implementing Rules DT | 2005-07-29 | Page 33 of 35 |

| Name | Surname | Organisation | SDIC/LMO | Metadata | Data Spec | Network | Sharing | Monitoring |
|----------------|----------------|--|---|----------|-----------|---------|---------|------------|
| Graham | Vowles | Ordnance Survey | Ordnance Survey | | | Y | Y | |
| Graham | Vowles | Ordnance Survey | OGC-SDIC | | | Y | Y | |
| Graham | Vowles | Ordnance Survey Great Britain (OSGB) | EuroSDR | | | Y | Y | |
| Graham | Vowles | IGGI member | IGGI | | | | Y | |
| Roland-Michael | Wagner | Institut for Geoinformatics, University of Muenster | OGC-SDIC | | | Y | Y | |
| Juergen | Walther | Bundesamt für Kartographie und Geodäsie (BKG) | Bundesamt für Kartographie und Geodäsie (BKG) | Y | | | | |
| Juergen | Walther | Bundesamt für Kartographie und Geodäsie (BKG) | EuroSDR | Y | | | | |
| Christina | Wasström | Lantmateriet, National Land Survey of Sweden | Lantmateriet, National Land Survey | | Y | | | |
| Philip A G | Watts | Ordnance Survey of Great Britain | Ordnance Survey | | | | Y | |
| Philip A G | Watts | IGGI | IGGI | | | | Y | |
| Philip A G | Watts | Ordnance Survey Great Britain (OSGB) | EuroSDR | | | | Y | |
| Mario | Wijns | General Administration of Patrimonial Documentation | General Administration of Patrimonial Documentation | | | | Y | |
| Jean | Wolsack | CGGREF, French ministry of agriculture | Inventaire forestier national – France | Y | | | | |
| Andrew | Woolf | CCLRC e-Science Centre | British Atmospheric Data Centre (NCAS/BADC) | Y | Y | Y | Y | |
| Andrew | Woolf | CCLRC e-Science Centre | ATMOS-DMC | Y | Y | Y | Y | |
| Ewa | Wysocka | Institute of Geodesy and Cartography, Poland | PASI | | | | Y | |
| Marie-Louise | Zambon | IGN France | IGN France | | | | | Y |
| Marie-Louise | Zambon | IGN-France | CNIG France | | | | | Y |
| F. Javier | Zarazaga-Soria | University of Zaragoza | OGC-SDIC | Y | | | | |
| F. Javier | Zarazaga-Soria | University of Zaragoza | IDEE WG of the Commission on Geomatics (National Geographic High Council) | Y | | | | |
| Konrad | Zirm | Umweltbundesamt Gmbh (Austrian Federal Environment Agency) | Umweltbundesamt Gmbh (Austrian Federal Environment Agency) | Y | | | | Y |

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| Infrastructure for Spatial Information in Europe | | Reference: IR DT Selection_Experts final_v5.doc | |
| JRC/CT | Selection of Experts for Implementing Rules DT | 2005-07-29 | Page 34 of 35 |

Additional experts registered after the deadline

| Name | Surname | Organisation | SDIC/LMO | Metadata | Data Spec | Network | Sharing | Monitoring |
|-------------|------------|--|---|----------|-----------|---------|---------|------------|
| Francis | Bertrand | IFEN (French Institute for the Environment) | Ministère de l'Ecologie et du Développement Durable | | Y | | | |
| Francis | Bertrand | IFEN (French Institute for the Environment) | CNIG France | | Y | | | |
| Armin | Burger | Agriculture and Fisheries Unit, JRC | Agriculture and Fisheries Unit, JRC | Y | Y | Y | | |
| Salvatore | Costabile | Ministry of Environment of Italy | INTERO | | | | Y | |
| Jean | Dusart | Joint Research Centre | ESB INSPIRE | Y | | | | |
| Jiri | Hradec | CENIA, Czech Environmental Information Agency | CENIA, Czech Environmental Information Agency | Y | | Y | | |
| Adam | Iwaniak | Association of Polish Surveyors | APS | Y | | | | |
| Katleen | Janssen | ICRI-K.U.Leuven | MORE MONitoring and REporting | | | | Y | |
| Andriana | Katsina | Hellenic Mapping and Cadastral Organization | Hellenic Mapping and Cadastral Organization | Y | | | | |
| Thomas | Maurer | Global Runoff Data Centre (GRDC) in the Federal Institute of Hydrology (BfG) | GRDC | Y | Y | | Y | |
| John | Pepper | United Kingdom Hydrographic Office | IGGI | | Y | | Y | |
| Athanassios | Skodras | School of science and technology, Hellenic open university | Hellenic Mapping and Cadastral Organization | | | | Y | |
| Emmanuel | Stefanakis | Harokopio University of Athens-Department of Geography | Hellenic Mapping and Cadastral Organization | | Y | | | |

Appendix 2: INSPIRE Data Themes: Replies from Data Specifications Experts

The following table refers to experts registered at the deadline for the first submission of experts' nominations.

| Annex 1 | | | |
|--|------|----------|-------------|
| Theme | User | Producer | Coordinator |
| Coordinate reference systems | 47 | 12 | 20 |
| Geographical grid systems | 34 | 11 | 11 |
| Geographical names | 36 | 10 | 12 |
| Administrative units | 32 | 12 | 11 |
| Transport networks | 21 | 7 | 6 |
| Hydrography | 34 | 13 | 9 |
| Protected sites | 21 | 7 | 8 |
| Annex 2 | | | |
| Theme | User | Producer | Coordinator |
| Elevation | 29 | 21 | 10 |
| Identifiers of Properties | 15 | 10 | 4 |
| Cadastral parcels | 19 | 13 | 8 |
| Land cover | 34 | 24 | 12 |
| Orthoimagery | 33 | 18 | 15 |
| Annex 3 | | | |
| Theme | User | Producer | Coordinator |
| Statistical units | 24 | 6 | 8 |
| Buildings | 19 | 10 | 4 |
| Soil | 26 | 13 | 9 |
| Geology | 22 | 10 | 12 |
| Land use | 33 | 17 | 11 |
| Human health and safety | 7 | 2 | 3 |
| Government service and environmental monitoring facilities | 27 | 15 | 10 |
| Production and industrial facilities | 16 | 6 | 3 |
| Agricultural and aquaculture facilities | 21 | 8 | 8 |
| Population distribution and demography | 14 | 4 | 5 |
| Area management/restriction/regulation zones & reporting units | 19 | 3 | 4 |
| Natural risk zones | 20 | 12 | 8 |
| Atmospheric conditions | 16 | 10 | 15 |
| Meteorological geographical features | 21 | 10 | 15 |
| Oceanographic geographical features | 19 | 12 | 11 |
| Sea regions | 15 | 8 | 4 |
| Bio-geographical regions | 18 | 5 | 8 |
| Habitats and biotopes | 18 | 8 | 9 |
| Species distribution | 15 | 7 | 10 |