

eSDI-Net+

European SDI Best Practices in Dialogue

INSPIRE Conference 2010, Krakow, Poland

June 22, 2010

Joachim Rix

Technische Universität Darmstadt
Fraunhoferstr. 5
64283 Darmstadt, Germany

Email: joachim.rix@gris.tu-darmstadt.de
<http://www.esdinetplus.eu>

eSDI-Net+

Network for promotion of cross border dialogue and exchange of best practices on Spatial Data Infrastructures (SDIs) throughout Europe



Establishment of a Thematic Network funded within the eContentplus programme of the European Commission

ECP-2006-GEO-320005

Second Step of SDI development

- shift from national (strategic) SDIs to sub-national (operational) SDIs

From “talking about SDIs to doing SDIs” (Ian Masser)

- Success at the sub-national level has become a crucial point of the overall success



Why eSDI-Net+?

Obstacles SDI's have to face:

1. Technological Barriers
(Lack of Reusability and Clustered Data)
2. Organisational Barriers
(Fragmentation and Lack of Harmonisation and Interoperability)
3. Legal Barriers
4. Cultural and Linguistic Barriers

Objectives of eSDI-Net+

- To establish a Thematic Network as **platform for communication** and exchange among stakeholders involved in the creation and use of SDI's
- To **bring together potential SDI stakeholders** in order to increase awareness and to facilitate the creation of
 - **guidelines**
 - **standards**
 - **best practices**
- To establish **communication mechanisms between European and local levels** to maximize benefits of INSPIRE, GMES, GALILEO and e-government programmes
- To develop solutions for **multicultural and multilingual** access, exploitation, use, and reuse of digital GI content in Europe

Thematic Network – Initial Partners

Geographic coverage

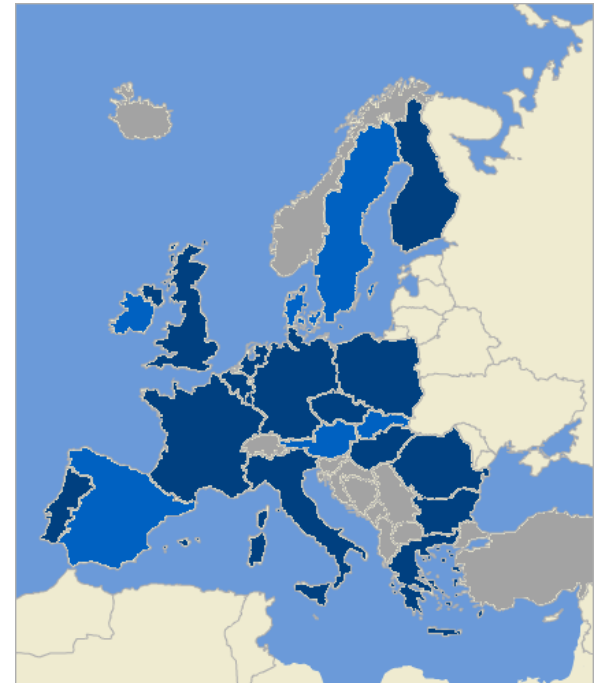
Organisations from 15 European countries from the different regions in Europe

Involvement of Stakeholders

- Providers of digital geographical data (local, national and regional public authorities, private organisations and institutions)
- Users of digital geographical data (research institutes, universities, software manufacturers)
- National and international GI umbrella Associations
- Consultancy and Network Management

Consortium Members

1. **Technische Universität Darmstadt**, Germany (TUD)
2. **AGH University**, Poland (AGH)
3. **AM/FM GIS Italia**, Italy (AMFM)
4. **Association for Geospatial Information in South-East Europe**, Bulgaria (AGISEE)
5. **Association of Geographic Information Laboratories for Europe**, Netherlands (AGILE)
6. **Association USIG** (Users of Geographic Information), Portugal (USIG)
7. **CNR-IMATI**, Italy
8. **EUROGI**, Netherlands
9. **Fraunhofer Gesellschaft**, Germany (FHG-IGD und FOKUS)
10. **GISIG**, Italy
11. **Hungarian Association for Geo-information** (HUNAGI)
12. **Research Institute for Artificial Intelligence**, Romania (ICIA)
13. **Intergraph**, Czech Republic (INGR)
14. **Kuovola Region Federation of Municipalities**, Finland (KRF)
15. **Linköpings Universitet**, Department of Computer and Information Science, Sweden (LIU-IDA)
16. **Regione Piemonte**, Italy (PIEMONTE)
17. **Katholieke Universiteit Leuven**, Belgium (K.U.Leuven R&D)
18. **The South East European Research Centre**, Greece (SEERC)
19. **The University "Jaume I" (King James I)**, Spain (UJI)
20. **University of Rome "La Sapienza"**, Italy (URS)



Aspects relating to standards, dissemination of information and exploitation of the results

1. INSPIRE

- JRC + EuroGeographics at the Advisory Board
- Partners are represented in INSPIRE committees
- Related projects in the INSPIRE context
- Workshops and presentation at the INSPIRE Conferences

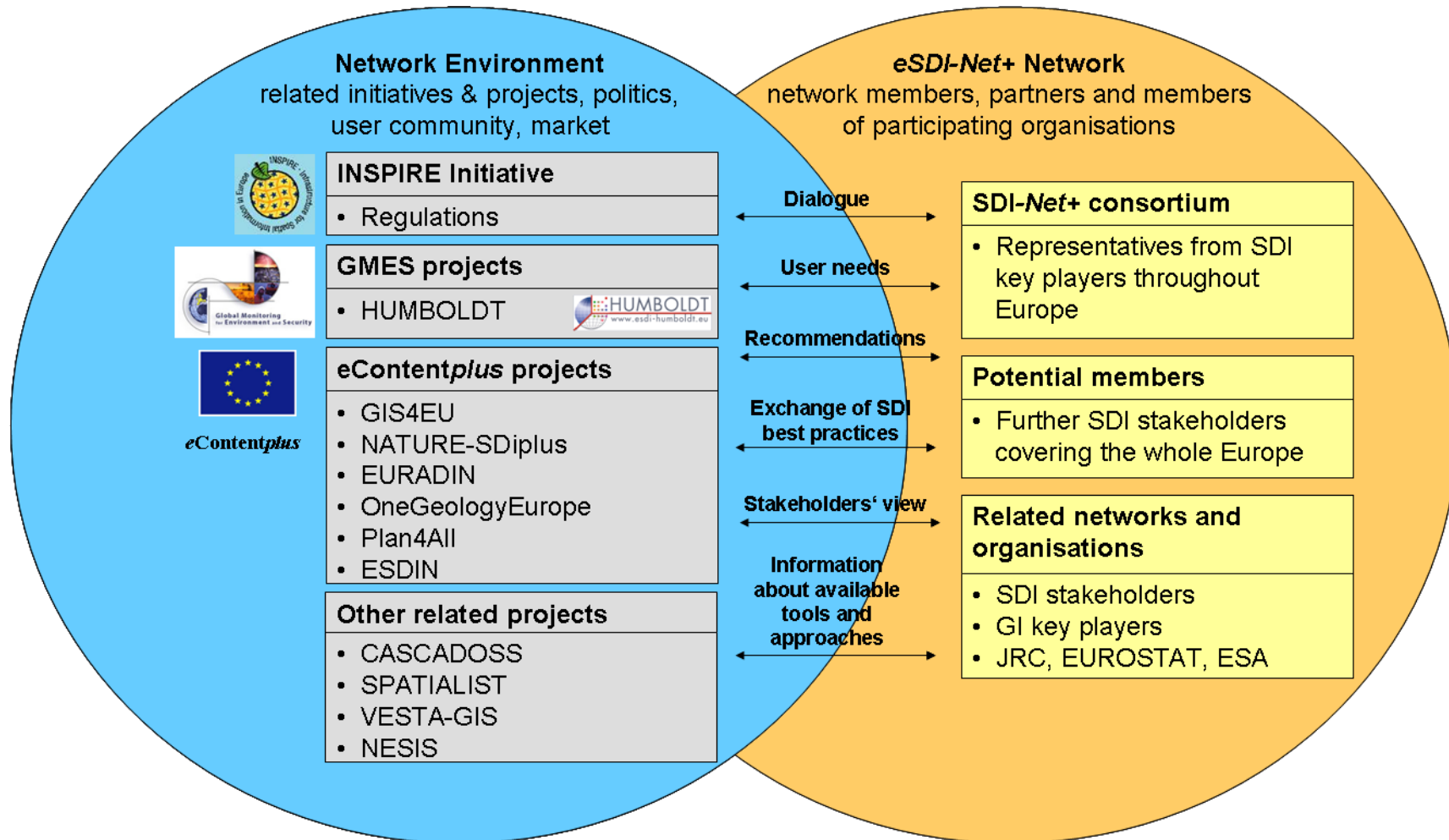
2. OGC: bilateral meetings took place

3. Industry: INGR partner; ESRI in Advisory Board; participate in project events and workshops

4. Dissemination & Awareness building

5. Network Sustainability

Related initiatives and projects – current status of collaboration



Assessment methodology

Key aspects of the SDI selection:

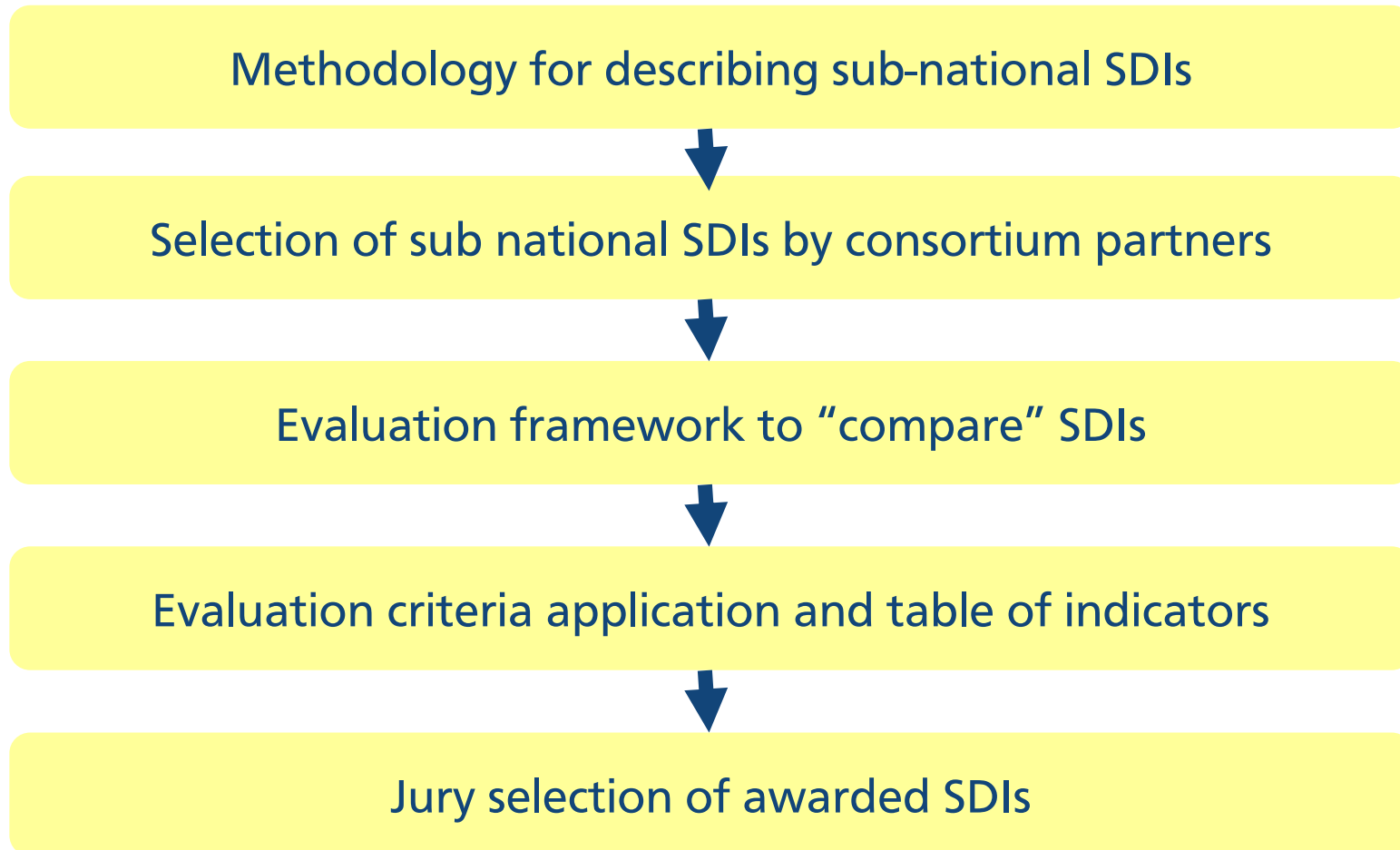
1. Technological, innovative level and originality of the SDI
 2. Implementation and/or readiness for INSPIRE principles
 3. Level of fostering cooperation between different users
(proof of visibility and/or user feedback)
 4. Possibility of extension or transfer to other countries and regions
-

Assessment methodology

Information to describe an SDI: 106 questions

Sub-national SDI identity card	15 questions
SDI usage assessment	14 questions
Networking people assessment	10 questions
Socio-economic impact analysis	9 questions
Organisational assessment	12 questions
Coping with legal aspects	6 questions
Technical functionalities-facilities-components	28 questions
Geoportal assessment	12 questions

How did we select Best Practices?



Regional and national SDI workshops

SDI Selection Timeline	2008								2009						
	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul
Southeast Europe						■	■	■	■	■	■	■	■	■	
UK/Ireland						■	■	■	■	■	■	■	■		
Portugal/Spain					■	■	■	■	■	■	■	■	■		
Hungary	■	■	■	■	■	■	■	■	■	■	■	■	■		
CZ/Slovakia	■	■	■	■	■	■	■	■	■	■	■	■	■		
Italy	■	■	■	■	■	■	■	■	■	■	■	■	■		
Germany	■	■	■	■	■	■	■	■	■	■	■	■	■		
Netherlands/Belgium						■	■	■	■	■	■	■	■	■	■
France	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
Scandinavia					■	■	■	■	■	■	■	■	■	■	■
Poland					■	■	■	■	■	■	■	■	■	■	■

- Identification and Preparation
- Questionnaires and Interviews
- Assessment and Selection
- Workshop
- Report
- Recommendation of Best Practices for the Award

In Summary:

>200 Cases identified
26 Countries
12 Workshops
135 Cases evaluated
→ 12 Best Practices

Assessment methodology

Evaluation criteria and indicators

Five main criteria	32 weighted indicators
1. SDI «size» (quantity)	6
2. SDI «quality» (meeting user requirements)	7
3. Co-operation and subsidiarity	7
4. Sustainability	4
5. Users usability	8

European SDI Best Practice Awards 2009 – Best Practice Categories

1. Organisational and institutional aspects
2. User involvement
3. Technological aspects
4. Thematic SDIs

12 outstanding SDIs from 9 European countries

SDI Name	Region and country
Centre Régional de l'Information Géographique (CRIGE-PACA)	Provence-Alpes-Côte d'Azur (France)
Forth Valley GIS	Scotland (UK)
Nordrhein-Westfalen	North Rhine-Westphalia (Germany)
IDEC Infraestructura de Dades Espacials de Catalunya	Catalunya (Spain)
IDERIOJA: Infraestructura de Datos Espaciales del Gobierno de La Rioja	La Rioja (Spain)
Infrastruttura per l'Informazione Territoriale (IIT) della Lombardia	Regione Lombardia (Italy)
National Land & Property Gazetteer and National Street Gaze	English Regions & Wales (UK)
Norway Digital-ND	Norway
Plansystem.dk	Denmark
SIG Pyrénées	Aquitaine, Midi-Pyrénées et Languedoc-Roussillon (France)
SNIG - Sistema Nacional de Informação Geográfica	Portugal
X BORDER GDI (Cross border Geo-data infrastructure XGDI)	Province of Limburg (NL)

European SDI Best Practice Awards 2009

Learning from Best Practices
International Conference in Turin, Italy, Nov. 26th-27th 2009



3 Highly Recommended Best Practices

- IDERioja, La Rioja, Spain
Spatial Data Infrastructure of the Government of La Rioja
Ana García de Vicuña
- Forth Valley GIS, Scotland, UK
Regional Shared Data Infrastructure
Alan Moore
- X Border GDI
A living Cross-Border Co-operation
Sven Robertz, Frans van der Storm



eSDI-NET+

Network for promotion of cross border dialogue and exchange of best practices on Spatial Data Infrastructures (SDI's) throughout Europe

**eSDI-Net+ newsletter
06/2010 - SDI
assessment results and
upcoming events**

**eSDI-Net+ at the Digital
Earth Summit 2010 in
Nessebar, Bulgaria**

**SDIs in Dialogue -
eSDI-Net+ at the
INSPIRE Conference
2010 in Krakow**

Available Results - Summary

- **Sustainable network**
as a platform to exchange experiences in the field of SDI and GI
- **International contacts**
to SDIs, GI and SDI key players, GI associations and related networks and projects
- **12 regional and national SDI workshops**
to present SDI best practices at local, national and regional levels
- **More than 200 SDIs from 32 countries analysed**
in interviews and at workshops
- **12 European SDI Best Practices**
highly commended at the European SDI Best Practice Awards 2009 in Turin, Italy in November 2009
- **SDI Best Practice Database**
containing data of 135 sub-national SDIs (will be public soon)
- **SDI assessment methodology**
developed by the eSDI-Net+ project
- **SDI self-assessment framework** will be finalised soon

Load Form

ID

SDI Name

ID Card

- A - Quantity
- B - Quality
- C - Co-operat.
- D - Sustain.
- E - Usability
- Save and Close**

ID Card

Country NUTS Level

NUTS name

Develop. status Year of Creation Legitimacy

Thematic SDI

State Services

Local Authorities

Mission

Objective

Legal Status

Funding mechanisms

Binding mechanisms


URL

Is the SDI recommended, after National WS, in its best practice at the national level?

Detailed sheet

Microsoft Access - [ESDI]

File Modifica Visualizza Incerico Formato Record Strumenti Finestra



Country NUTS Level NUTS name

SDI Name

Status Year of Creation Legitimacy

Thematic State Services Local Authorities Workforce

Mission

Objective

Legal Status

Funding mechanisms

Binding mechanisms

URL

Detailed sheet

Lessons Learnt

- **Each SDI is a special case**
 - with its specific requirements and needs
 - with its individual solution
- **We can learn from each other**
 - Leadership and supportive structures are essential
 - Dialogue is not only helpful, but needed
 - Exchange experiences (do not re-invent the wheel)
(the information has not yet reached all the level to be involved)
 - Good practices as examples are motivating
 - well-known ones: e.g. Catalunya in Spain, North-Rhine Westfalia, Germany
 - less known ones: e.g. IDERijoa in Spain, X-Border-GDI (NL, BE, Ger)
- SDIs will not grow in a week
→ **get started and grow over time**

Next steps toward sustainability

- Promote Best Practices
 - workshops to bring these experiences back to sub national level
 - Dissemination of lessons learnt
 - Continue the SDI assessment process
 - Call for a next Best Practice Award
- Provide a SDI Self Assessment Framework
- Extend the network
- Generate impulses at the European and international level
 - JRC, EUROSTAT, ESA, ...
 - United Nations, Digital Earth, ...

➔ **Strive for a sustainable network: eSDI-Net+ under EUROGI flag**



eSDI-Net+: a network to continue!

- Long-term sustainability with support of EUROGI
- Continue updating the database of SDIs
- Continue the series of the showcase workshops
- Involvement of the SDIs and the network partners in the workshops of related projects
- Personnel allocated to support the development of the eSDI-Net+ network and PR measures
- Integration of the eSDI-Net+ website in EUROGI's website, maintained by EUROGI, showing the ongoing developments of the network and in the SDI field



EUROGI

is the umbrella organisation that represents the European Geographic Information (GI) community. It is an independent, non-governmental, and non-profit organisation.

EUROGI is convinced that good governance, economic and social development, and informed public participation depend upon the availability and widespread use of reliable and spatially-referenced information





eSDI-NET+

Network for promotion of cross border dialogue and exchange of best practices on Spatial Data Infrastructures (SDI's) throughout Europe

**eSDI-Net+ newsletter
06/2010 - SDI
assessment results and
upcoming events**

**eSDI-Net+ at the Digital
Earth Summit 2010 in
Nessebar, Bulgaria**

**SDIs in Dialogue -
eSDI-Net+ at the
INSPIRE Conference
2010 in Krakow**