HIGH LEVEL FORUM ON GLOBAL GEOSPATIAL MANAGEMENT INFORMATION

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SDI-Challenges European perspective *

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THE HIGH LEVEL FORUM ON GLOBAL GEOSPATIAL INFORMATION MANAGEMENT Seoul, Republic of Korea, 24-26 October 2011

Session 1: Challenges in geospatial policy formation and institutional arrangements

SDI-Challenges European perspective

Jarmo Ratia Director General

National Land Survey of Finland

INSPIRE

INfrastructure for SPatial InfoRmation in Europe

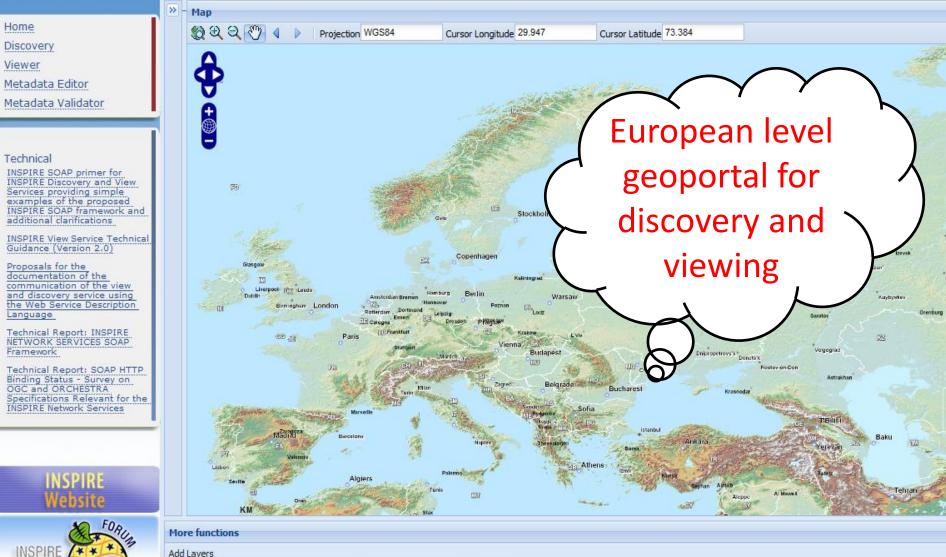


- INSPIRE is European Union (EU) <u>framework directive</u> which came into force in May 2007.
- INSPIRE is founded on <u>common</u> European environmental <u>policy</u>.
- The goal is to establish European Spatial Data Infrastructure (ESDI) based on <u>harmonized national SDI's</u> in Member States (MS).
- The directive is adopted to MS's <u>national laws</u>.
- INSPIRE will be implemented according detailed technical <u>implementing rules</u> prepared by expert drafting teams.



European Commission INSPIRE Geoportal

EUROPEAN COMMISSION > INSPIRE GEOPORTAL > Viewer



Add Layers

INSPIRE Registry Find Layers

World Generic Map Service with EuroGlob... Select a Service

INSPIRE Principles



- Spatial data should be <u>collected once</u> and maintained at the level where this can be done most effectively
- It must be possible to <u>combine seamlessly</u> spatial data from different sources across the EU and share it between many users and applications
- It must be possible for spatial data collected at one level of administration to be shared between all the different levels of administration
- Spatial data needed for good governance should be available on <u>conditions that are not restricting</u> its extensive use
- It should be easy to <u>discover</u> which spatial data is available, to evaluate its fitness for purpose and conditions for its use



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Keyword Advice	geo.admin.ch: the geoportal of the Swiss Geoportals for	
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Coordination Data supply and costs	The federal geodata portal is a publicly acana national SDI's	
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<u>Full text search</u> <u>geocat.ch</u> ഈ Geodata	Current	
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Index INSPIRE Maps	AND	44700
<u>Maps</u> Organisation Portrayal services		
Thematic geoportals	Obtain data	

Dufour Map 🖙

Zone plans for emergency

protection 🖙

Short description of geo.admin.ch

Hiking trails VECTOR25

<u>Fiver geo.admin.ch</u> Published at: 12.08.2010 |

SDI Challenges

- Political consent
 - Information society, electrical services, eGovernment
- Data policy restrictions
 - Pricing, copyright (IPR), accesing rights, licensing policy
- Technical incompatibility in existing SDI's
 - Incompatible data products, incompatible information systems, lack of interoperability, redundancy
- Technical standards are still immature
 - Entrepreunal spirit in implementation, different versions of standards, global solutions (like Google, Bing, Nokia...) tend to pass by
- Lack of coordination in governance
 - Between levels in administration, between countries (across borders)
- Lack of data (or poor quality of the data)

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GEOCATALOGUE

Adresse complète | Nom de la commune

However, excellent datasets are already freely available for viewing !

AVAMIRAL

Aérodromes Réseaux de Transports urbains et scolaires d'Agglopole Provence SOURCES D'ÉNERGIE HYDROGRAPHIE Réseau Hydrographique Réseau de la société du Ma sélection : 5 couches Monuments nationaux i * i Opacité Commo 30% Réseau Hydrographique Opacité com 100% Routes Opacité _____ 100% Photographies Aériennes Opacité _____ 100%



SERVICES

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J'y vais

EuroGeographics



- Not-for-profit organisation of 54 European mapping, land registry and cadastral agencies
- Activities focus on underpinning the ESDI with definitive reference data sets
- Engages European decision-makers with important initiatives, policies and projects
- Exchanges best practises to meet the users' needs
- Harmonises national datasets into a portfolio of integrated pan-European spatial products



ELF = European Location Framework



- Public sector reference data for others to rely on
- Cooperate and collaborate
- One reference at European level
- One reference at national scale, based on NMCAs distributed INSPIRE services and common standards
- Data provider's Toolbox
- Data policy and licensing works for everybody!

Developing the European Spatial Data Infrastructure



Eurogeographics' products meet the demand with European wide coverage!

les Bains

EuroBoundaryMap

EuroGlobalMap

EuroRegionalMap

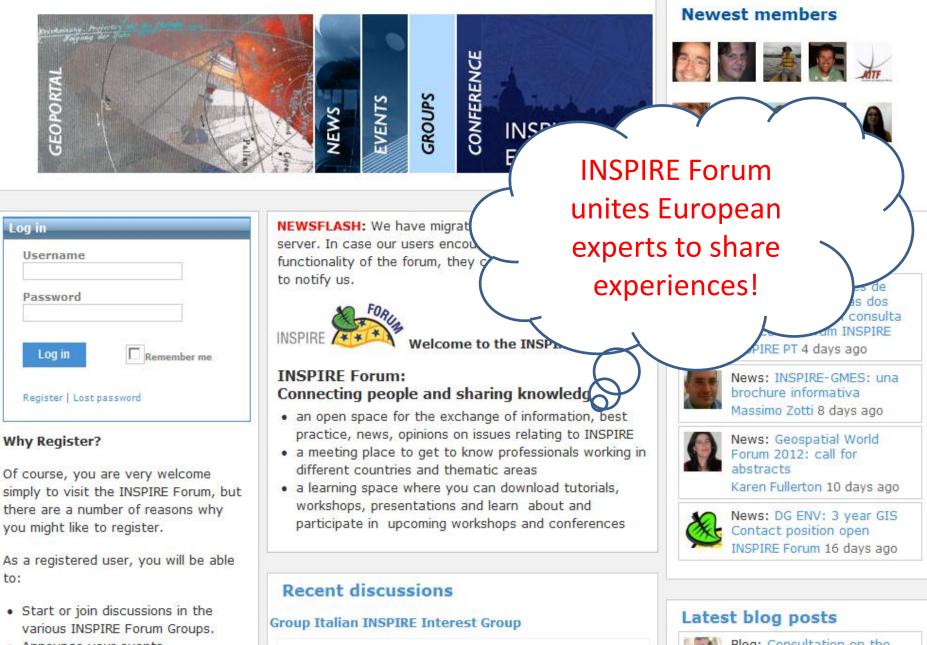
EuroDEM

INSPIRE Cooperation

Inspire encourages experts in cooperation

- Each EU Member State has own national implementation strategy
- Discussion of stakeholders roles
- Consequencies to data products and production
- Cooperation between organisations within country to fulfill national obligations
- Implementation of services interfaces
- Development of the national geoportals





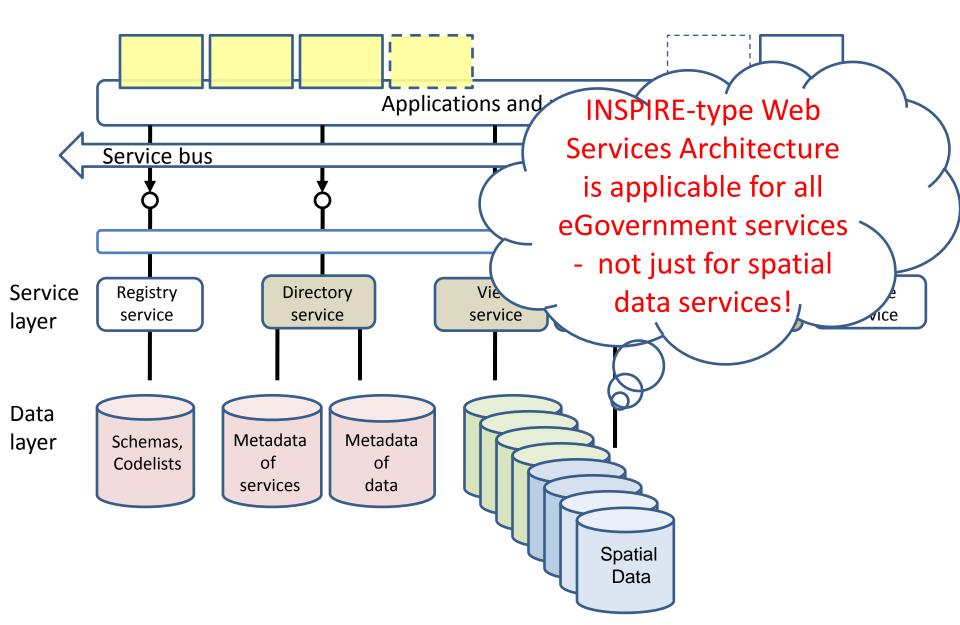
American and states assessed

INSPIRE architecture

Common architecture to build on

- Harmonises services in EU Member States
- Holistic stack of international standards
- Interoperability of systems
- Business-to-business (B2B) interfaces
- Easy access to original data sources
- Basis for new e-services to citizens

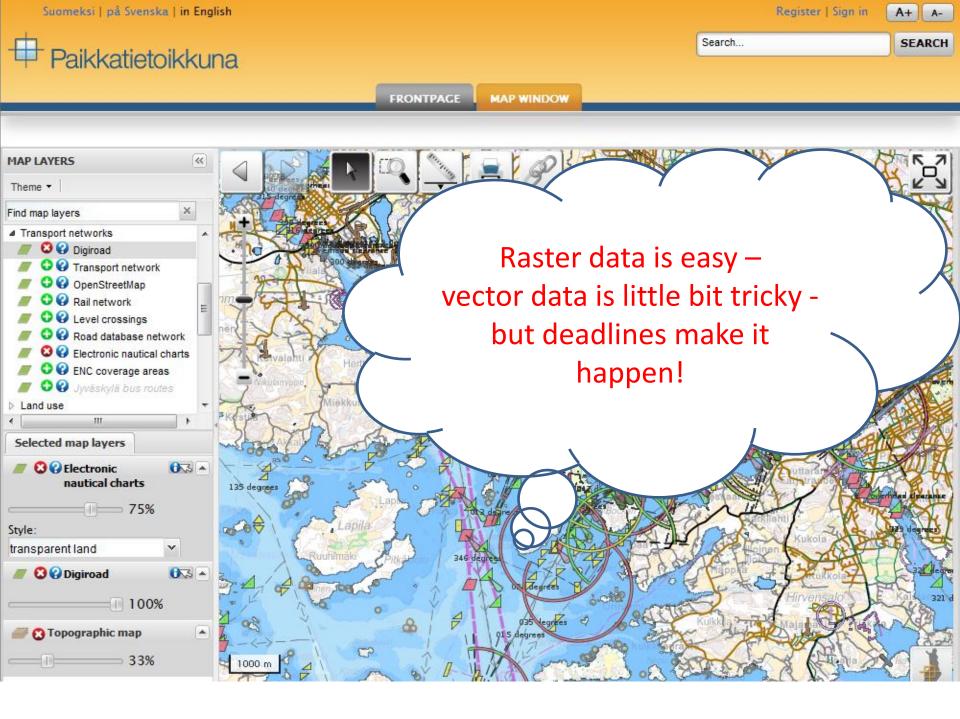
INSPIRE Architecture



Inspire deadlines

Inspire gives timetables to do the homework

- Regulative process
- Administrative recommendations
- Education
- Metadata supply
- Implementation of service interfaces
- Monitoring and reporting



Costs

Inspire implementation takes a lot of resources

- Huge investments have been made to data capture
- European cooperation is time consuming
- National support services demands investments
- Education takes time from experts
- Implementation of services is not an easy task
- Maintenance of services is laborious



Benefits

Inspire catalyses European development

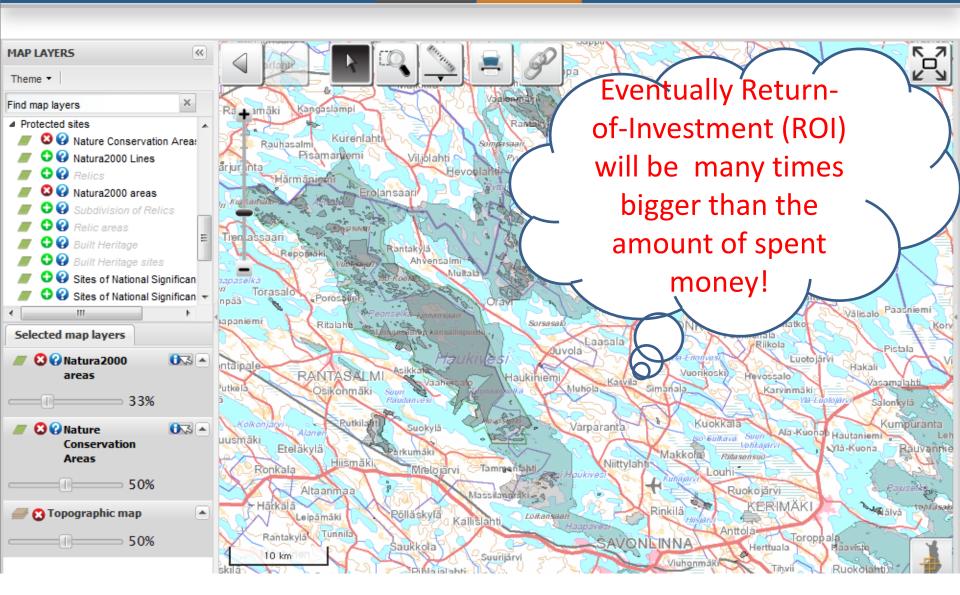
- Shift from data capture to data services
- Wider attention to spatial data at political level
- National SDI "marries" eGovernance!
- Increasing possibilities to make global innovations
- "GIS goes to Web", analyzing tools for everyone

Paikkatietoikkuna

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FRONTPAGE MAP WINDOW



Openess

- Inspire encourages to open governance
 - Open standards
 - Open source code
 - Open service interfaces
 - Open data
 - Open competition

