INSPIRE
A Framework for Cooperation

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ERDAS EMEA
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AGENDA

Rendez-vous with R.A.M.A.

ERDAS experiences and references

Focusing on technology enablers

Lessons learned
INSPIRE Timeline

RENDEZ-VOUS WITH R.A.M.A.
SDI assets for enabling cooperation

- How to address hierarchical relationship among different political/administrative levels of SDI concepts?

- **Roadmap:**
  - for a shared understanding of policies and responsibilities

- **Awareness:**
  - of resources availability and data ownership rights

- **Monitoring:**
  - to facilitate use and transfer of geospatial data

- **Architecture:**
  - to leverage standards, protocols and
Cooperation at several SDI levels

- Governance of Spatial Data Infrastructures in local government organizations
- Support to cross-boundary, national or regional decision-making
- Custom handling of data policies and service licensing
- Capabilities to interoperate at other cooperation levels
- Harmonized interoperability policies, reference datasets, technical standards

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Examples

INSPIRE Invoke Services

Publish

INSPIRE Invoke Service

Facilitator/Expert

Server Deployed Processings

Numerous Remote Clients

Rules Base

SDI Services

Edit

Data Store

Data Store
INSPIRE five domains of action
Spatial Data Infrastructures (SDIs) in Europe

Data Specifications Rules ✓

Metadata Rules ✓

Network Services Rules ✓
Discovery, View, Download, Transform, Invoke

Data Sharing Rules ✓

Monitoring and Reporting ✓
Some existing Frameworks for cooperation

EXPERIENCES & REFERENCES
Overview on some leading projects
INSPIRE linkages

R&D
- SWING
- GENESIS
- GIGAS

GMES
- HMA Projects serie

GEOSS
- OGC AI Pilot
Experience with SWING Project (IST FP6, 2006-2009)

- A European Commission funded research project

- Research on open Semantic Web Service framework: description of geospatial Web Services Capabilities (functional) and Interfaces (usage)

- ERDAS providing web service registry and semantically enhanced discovery

www.swing-project.org
Experience with GENESIS project (ICT FP7, 2008-2011)

- An enabler of the future Single Information Space in Europe for the Environment
- ERDAS providing catalog information models for Earth Observations and ISO 19115 metadata

- Correlation between environmental and health data
- Near real time decision-making processes
- Appropriate information of citizens
- Support professionals in their daily practices in relation with the environment management and health
Experience with HMA projects serie
EO ground segments access

- ERDAS provided expertise to the European Space Agency and other HMA stakeholders, regarding:
  - OGC Registry Services standardization process and specification work,
  - OGC Catalog reference platform,
  - and HMA interface proxy deployments, on top of legacy catalogs.
Experience with GIGAS project
Standardization processes harmonization

- Analysis of consensus building processes & tools in GEOSS, INSPIRE, GMES, and in standardization bodies
- Recommendations e.g. to OGC, considering INSPIRE and GEOSS requirements

GIGAS will provide recommendations:
- To increase architectural coherence
- To strengthen EU contribution to international standardization
- For further strategic research
Experience with GEOSS Pilot Phases 2&3
(GEO Task AR-09-01, AIP-2 and -3)

• Group on Earth Observations (GEO) Architecture Implementation Pilot for GEOSS
• ERDAS as OGC member co-leading several work groups
  • Access to Products, Sensors and Models
  • Portals and Client applications
  • Data Harmonization…

• Augmenting the GEOSS Common Infrastructure (GCI)
  • GEO Portals
  • Clearinghouse
  • Components and Services Registry
  • Standards and Interoperability Registry
ERDAS for INSPIRE
Share and contribute

• New ‘ERDAS for INSPIRE’ page on erdas.com
• New White Paper ‘International Standards for Data Models & Web Services - Supporting SDI Contributions to INSPIRE’
• New ‘ERDAS for INSPIRE’ Webinar
• New ERDAS EMEA SDIC
• ERDAS Silver Sponsor at the INSPIRE 2010 Conference
How ERDAS Corporate Strategy (also) addresses INSPIRE

TECHNOLOGY ENABLERS
ERDAS Geospatial Enterprise Platform
Find, Describe, Catalog & Deliver Geospatial Data, Web Services & Geo-Processing

ArcMap
IMAGINE / ERM
Author & Publish Models

Google Earth
Virtual Earth
TITAN
Web App Framework

Data Management Application and SDK
Mobile Apps For Field Update

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Italy and ‘Regione’ portals
National geoportale.it

Regione Calabria

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France and national portals
geoPortail & geoCatalogue

IGN
- Insertion of National partners' MTD
- CS-W 2.0 ISO AP
- Java API
- Repository
- Admin Tools
- IGN Metadata production

BRGM
- Insertion of the IGN's MTD
- CS-W 2.0 ISO AP
- Search Engine
- Online form

GéoPortail local Catalog
- Metadata ebRIM registry
- Harvest
- Delivery

National GéoCatalogue
- Metadata

Admin Tools
- Insertion of the IGN's MTD
- CS-W 2.0 ISO AP
ERDAS solutions to market needs
The Geospatial information value chain
ERDAS solutions to market needs
The Geospatial information value chain

- Author once, maintain locally
- Manage resources and their access rights
- Connect seamlessly different sources, publish quickly and reliably
- Deliver through organizational boundaries
- Increased Value of Information
- OGC, ISO and IT Interoperability
- Decision Support Business Systems
- Geospatial Data: Produce and Sell Data
- Information: Buy and Consume Information

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When do we meet our next challenges?

LESSONS LEARNED
INSPIRE SDI Architecture Principles

INSPIRE Architecture

Next Challenges for enabling cooperation across boundaries?
ERDAS solutions to market needs
Enterprise vision and positioning

• Follow and implement standards evolutions
• Provide configurable and extensible tools
• Interoperate with existing business systems
• Help organizations to connect their users to share data
• Improve employee, customer and partner visibility to information, enabling them to respond faster and collaborate better

➢ Support organisations in their stepped approach to SDIs
Next INSPIRE Goals
Several targets

ERDAS goals meeting INSPIRE roadmap:
- Data specifications Annex II
- National geoportals requiring Business to Business architecture at the back office (ERDAS APIs, ERDAS solutions openness)
Summary

INSPIRE Web Site:
http://inspire.jrc.ec.europa.eu

ERDAS for INSPIRE web page & White Paper
http://www.erdas.com/Solutions/eGovernance.aspx

ERDAS Labs, Research & Development page:
http://labs.erdas.com

ERDAS forming INSPIRE Spatial Data Interest Community (SDIC):
http://inspire.jrc.ec.europa.eu/index.cfm/pageid/42/list/7/id/38540
Going further

Any questions?

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