Sharing software for INSPIRE implementation, use and reuse

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Serving society
Stimulating innovation
Supporting legislation

ARe³NA
A Reusable INSPIRE Reference Platform
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Interoperability

Openness

Reuse

Collaboration

... sharing reusable components for INSPIRE implementation and interoperability in cross-border/cross-sector contexts.
Developments for INSPIRE and beyond

VGI

Cross-sector apps

RDF & PID

AAA

Application and Geoportals

Internet

GeoRM Layers

Discovery Service

View Service

Download Service

Transf. Service

Harmonized SDS

Interoperable SDS

Invokable SDS

SDS

Preservation

Network

Services

Harmonized

Interoperable

Invokable

discoverable

Re3gistry +

Metadata

SOS

Picrit

Validation
Our FOSS-the Re³gistry

- Tool to publish ‘reference data’
- Reuse of Re3gistry tool in Slovakia
- Recent study on registry interoperability will lead to more work on a registry federation

V1.0 on JoinUp

https://joinup.ec.europa.eu/software/re3gistry/home
What we want to address

• Help share existing experience

• INSPIRE has a lot of ‘rules’/technical guidelines:
  ▪ For metadata, data specifications, web services...

• They are designed to explain what results will look like... not how to get there
What we want to address

- bridge this technical gap
- update the INSPIRE website
- guide people, share best practices, act as a ‘reference point’ for INSPIRE... in innovative ways
- react to technical changes
- support coordination
- **bring the solution providers closer to implementers and build our community**
- put in place a ‘living lab’ to meet users needs, build capacity and get your feedback
A platform supporting tools sharing

- Address the **challenges** mentioned this morning

- Improve collaboration of **implementers**, **SDI software developers** and **application providers** to have interoperable and reusable solutions

- Involve **FOSS** actors to make INSPIRE fully operational to:
  - Protect the environment
  - Enable the development of software with great potential for reuse
  - Reuse INSPIRE in other sectors
Prototype:  http://srv-aaashib-ext.jrc.it/are3na

- Built in Drupalv7
- Start with the most simple to start discussion
- Think about visualisations in the future
- e.g. Show what software offers
• Show what INSPIRE offers

• Move from lists to more interactive workflows
“Step 1” - DS Toolkit 1.0

A tool for implementers and users

Our notion of a ‘reference platform’

- We want to promote innovation and be an ‘arena’ where implementers and developers find/showcase information about:
  - Software, Tools/apps
  - Through a common vocabulary
  - Help developers (and others) understand requirements

- ... a virtual setting to discuss how tools supporting INSPIRE implementation and reuse:
  - can be improved or
  - can be created to fill in the gaps...

- This is about people as much as technology
Missing items

INSPRIRE as is today

Existing software with a need to be updated

New software

INSPRIRE between today and other ICT solutions

Existing interoperable solutions with a need to be updated

New interoperability solutions
Platform:
Inventory + Architectures, + standards documents

Software tools and vocabularies: Metadata licensing, synch. (and opensearch), data processing+ download, INSPIRE GML clients, CTS/Validation and Service Monitoring tools

Interoperability Registers, repositories and brokers: metadata, Re3gistry, data models, physical models, GML extensions

Guidance and capacity building: Cloud, transformation WS, fragmenting TGs, ISO

Standards: Metadata and Coordination of GI/e-gov bodies

Extending INSPIRE: Data scope (x2), VGI, Services (WCS, WMC, WMTS, portrayal), APIs x 4
Missing items- open questions

- Is it useful having one place for requirements coming from INSPIRE implementers?
- Do you have relevant experience to share with us? (tools, missing items...)
- How could we approach the missing items ‘process’?
- **Where should discussion take place?**
- Are their innovative approaches to funding that you want to share with us (e.g. crowdsourcing)?
- What could be barriers to people’s contribution to this process?
Other open ‘living lab’ questions

• What could the benefits be for you?
• Do you understand INSPIRE and consider yourself to be a partner?
• Do you know if your solutions fit INSPIRE’s needs?
• Do you see enough/potential ‘business’ in INSPIRE?
• What barriers to collaboration do you face (e.g. with implementers)?
• Who else could be involved?
• For those who could build apps on INSPIRE, what basic information do you need?
For more information
Just search “ARE3NA”

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Grazie mille