

Interoperable registers and registries in the EU: Perspectives from INSPIRE

Andrea Perego & Michael Lutz

Linking Geospatial Data Workshop, London, 5-6 March 2014

www.jrc.ec.europa.eu

*Serving society
Stimulating innovation
Supporting legislation*



INSPIRE maintenance & implementation framework

- Moving into the implementation phase
 - maintain technical guidelines and legal acts
 - support INSPIRE implementation
- maintenance and implementation work programme
 - MIWP-6: Registries and registers
 - MIWP-4: Managing and using http URIs for INSPIRE identifiers
- Organisation
 - Commission expert group on Maintenance & Implementation (MIG)
 - Supported by “pool of experts” →
 - ISA action **ARe³NA** supports development of missing items



The INSPIRE registry

- Key infrastructure component
 - provide unique and persistent identifiers for resources
 - allow their consistent management and versioning
 - items can be referred to unambiguously
- Registers for
 - code lists and values
 - feature concepts
 - application schemas
 - glossary
 - possibly others (documents, organisations, licences, layers, portrayal rules, encodings, ...)
- Based on **Re³gistry** software developed in **ARe³NA** ISA action



Features

- Current
 - Multilingual content (based on IR content) and user interface
 - Search, table filtering, sorting and pagination
 - Formats: HTML, (bespoke) XML, JSON and Atom
 - Support for external references
- Future plans
 - Versioning of register items
 - Links to external extensions
 - API
 - Additional formats: (ISO 19135) XML, SKOS/RDF
 - Improved register management, e.g.
 - user interface (supported ISO 19135 workflow)
 - incremental import



Issues for discussion

- How to deal with versioning?
 - Versioning and persistent identifiers / URIs
 - Level of granularity of versioning (register, item, language)
 - Versioning and relationships between register items
- How to deal with multi-linguality?
 - where all language representations are equally valid
 - where (official) translations are partially missing
- How to deal with external extensions
 - Modelling register extensions
 - Context / scope of register extensions
 - Connecting registries (→ API, formats)
- How to deal with alignment and re-use of existing registers
 - Within the geospatial domain
 - Across domains & borders



Thanks!

More details

- The INSPIRE MIF
<http://inspire.ec.europa.eu/mif/>
- The INSPIRE Registry
<http://inspire.ec.europa.eu/registry/>
- The Re³gistry
<https://joinup.ec.europa.eu/software/re3gistry/>
- ARe³NA
<https://joinup.ec.europa.eu/community/are3na/>

Contacts

michael.lutz@jrc.ec.europa.eu

andrea.perego@jrc.ec.europa.eu

