

Joint Research Centre

The European Commission's science and knowledge service



Context

- The consumption of INSPIRE data is not easy
 - TG define complex data structures
 - Existing applications (libraries, web, desktop, mobile) have difficulties to consume the content
 - Rapid evolution of mainstream ICT
- On-going action under the INSPIRE maintenance and implementation work programme to define alternative encodings

Key pillars of data interoperability

Conceptual data models

- objects types, properties & relationships
- cross-domain harmonization
- based on a common modelling framework
- managed in a common UML repository

Encoding

 conceptual models independent of concrete encodings

standard

encoding:
GML, but also
possible to
derive other
encodings
(e.g. based
on RDF)

Harmonised vocabularies

- achieve better interoperability than free-text and/or multilingual content
- allow additional terms from local vocabularies
- 400 code lists
 & almost 5000
 values in
 central register

Registers

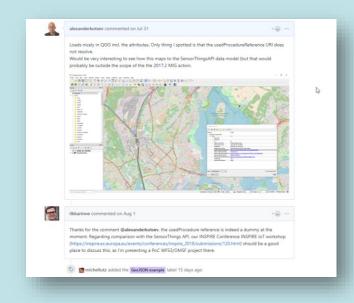
- provide
 unique and
 persistent
 identifiers for
 reference to
 resources
- allow their consistent management and versioning



2017.2: Alternative (to GML) encodings

Tasks

- 1. Encoding rule for GeoJSON (as a first example)
 - → Good Practice document 1
- 2. Generic rules / approaches for simplifying INSPIRE data models (useful for a number of alternative encodings)
 - → Good Practice document 2
- 3. Specific GeoJSON encodings (combining (1) and (2)) for Addresses, Environmental Monitoring Facilities & observations (as initial examples)

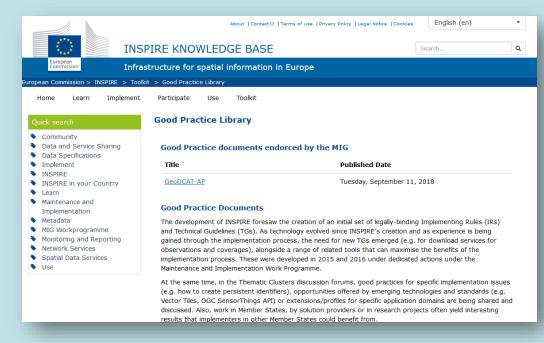


- Github working space: https://github.com/INSPIRE-MIF/2017.2
- Other alternative encodings (e.g. GeoJSON for other themes, RDF, Geopackage, ...) can be proposed in the future following the INSPIRE Good Practice procedure



INSPIRE Good practices - procedure

- Step 1. Initiation using a "good practice fiche"
 - evidence that the solution has been put into practice, and
 - has received broader support
- Step 2. Outreach through a webinar
- Step 3. Submission for inclusion in a good practices section in the INSPIRE Knowledge Base
 - ideally with support from one or several INSPIRE MS representatives



https://inspire.ec.europa.eu/portfolio/good-practice-library

- Step 4. Opinion of the MIG to endorse, ask for clarification or reject the good practice
- Step 5. Feedback from users through the good practice repository



Next steps

Adoption of GP documents

- Presentation of the Good Practice documents in a public webinar (today)
- Development of example implementations (until end of May)
- Public review (until end of May)
- Proposal for endorsement by the MIG (June meeting)

Other activities

- Work on other alternative encoding proposals (e.g. Geopackage)
- Challenge for the INSPIRE Helsinki workshop on 22-24 October 2019

