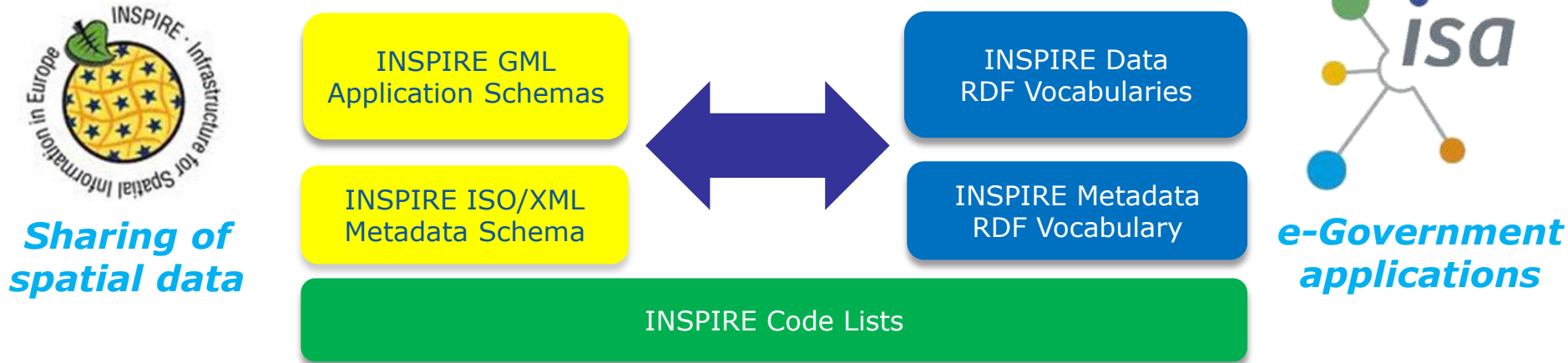# RDF and PIDs for INSPIRE:
a missing item in ARE3NA

Diederik Tirry, Michael Lutz & Andrea Perego
Linking Geospatial Data Workshop, London, 5-6 March 2014

www.jrc.ec.europa.eu

Serving society
Stimulating innovation
Supporting legislation

Rationale

Sharing of spatial data

INSPIRE GML Application Schemas

INSPIRE ISO/XML Metadata Schema

INSPIRE Data RDF Vocabularies

INSPIRE Metadata RDF Vocabulary
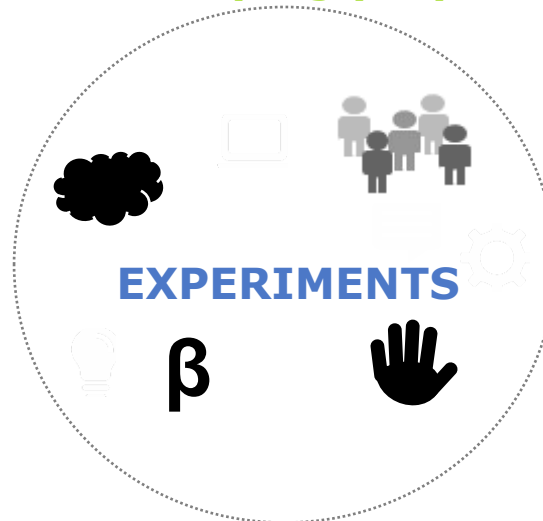
INSPIRE Code Lists

e-Government applications

- Lack of agreed rules or guidelines on how to create **RDF vocabularies from the UML models**.

- Lack of best practices and guidelines in the area of **global identifiers PIDs**

Set-up of the study

1. Setting the scene

2. Developing proposals

3. Refinement & recommendations

EXPERIMENTS

β

METHODOLOGIES

GUIDELINES

Preliminary results and open questions

- State-of-Play ➡ Scattered applications of RDF/PID
- Issues for discussion

Resource Description Framework (RDF)

- Transformation prerequisites & patterns
- Dealing with complexity of INSPIRE UML models
- Existing domain models (CityGML, GeoSciML…)
- Integration data-metadata
- Coverages to OWL

Persistent Identifiers (PID)

- Reconciling technical and organisational requirements
- Broader ICT-context (DOI)
- Desired degree of formalisation
- More examples of AS-IS URIs
- PIDs for non-spatial feature types

Help us build bridges from INSPIRE to eGovernment!

WHY?

- Informed discussion with stakeholders
- Improvements proposed and need to have potential obstacles identified.

HOW?

- **WEBINAR I** State-of-play RDF and PIDs 13/3/2014
- **WEBINAR II** Guidelines on methodologies 5-6/5/2014

More Details:

https://joinup.ec.europa.eu/event/

rdf-and-pids-location-state-play

AReᵌNA
A Reusable INSPIRE Reference Platform