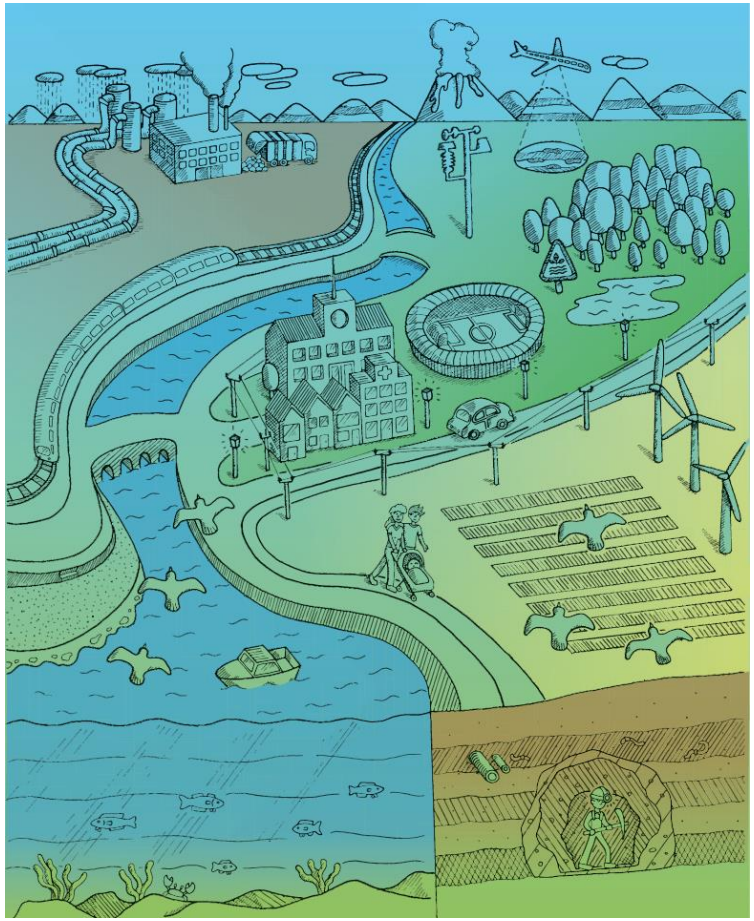
LOCATION POWERS



Linked INSPIRE data – Feasibility and benefits

Michael Lutz

European Commission – Joint Research Centre

INSPIRE in a nutshell

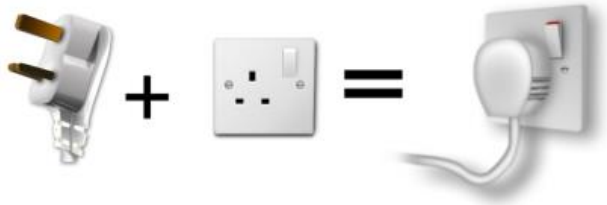
- Comprehensive framework for spatial data interoperability

  - inventory (monitoring of implementatio

  - data & service sharing

  - data & service discovery (metadata)
  - services for data access and visualisation

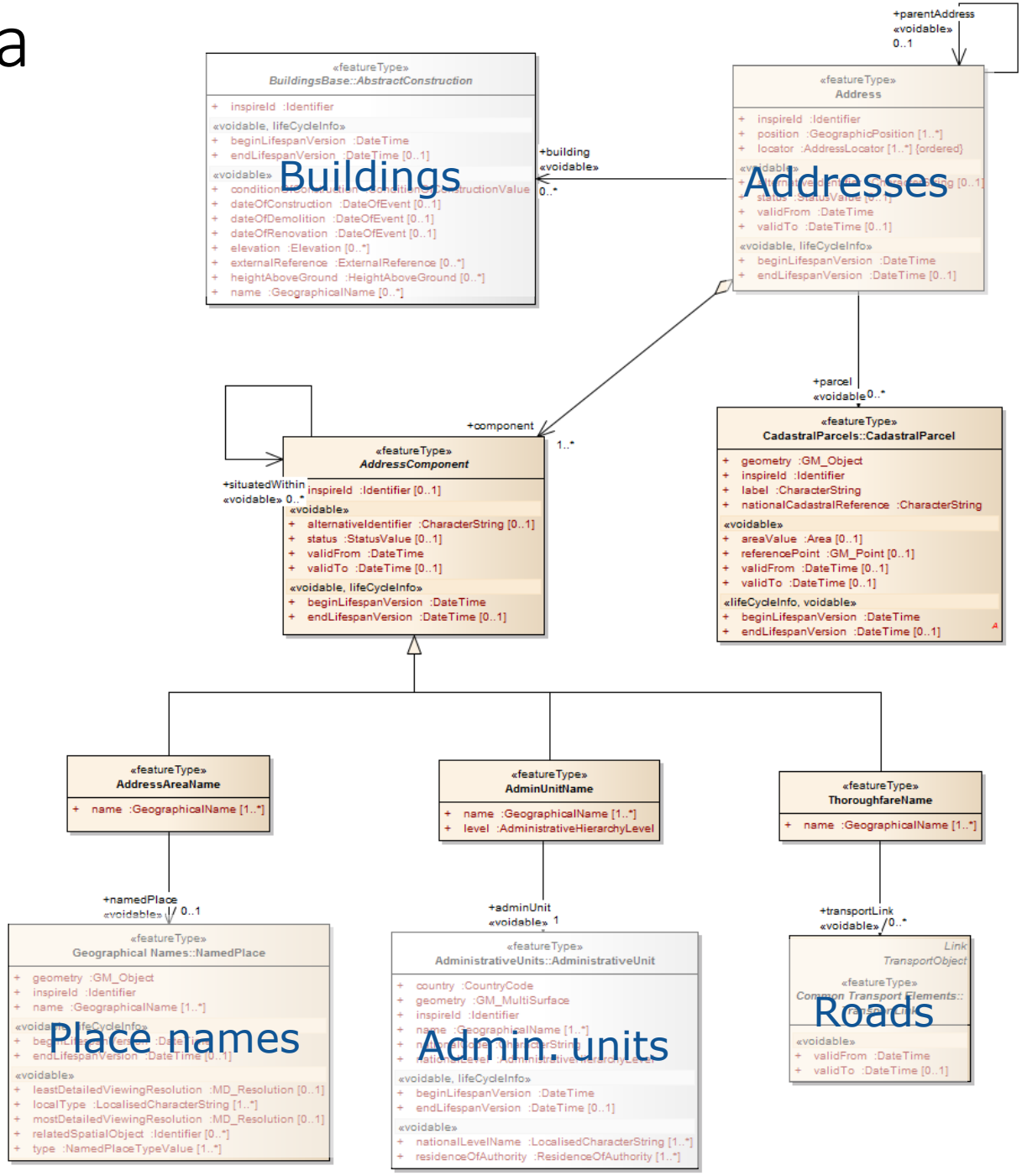
  - **data interoperability**



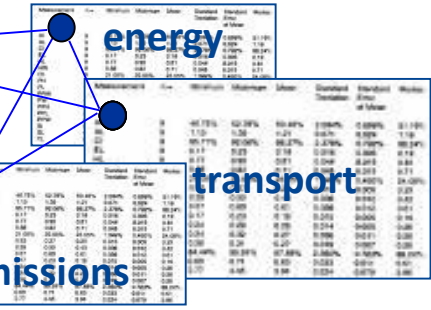
INSPIRE data models

Conceptual data models

- spatial objects and their properties and relationships for 34 data themes
- cross-domain harmonization
- based on a common modelling framework
- managed in a common UML repository



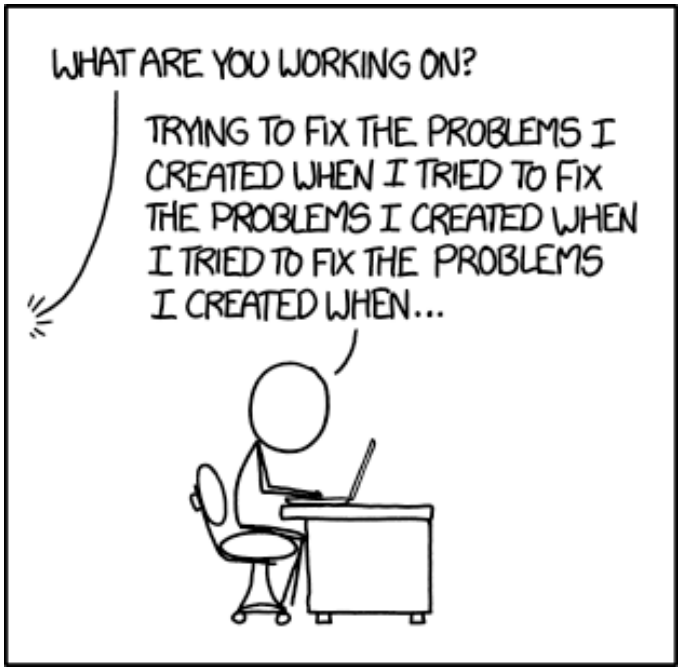
Possible links to data from other sectors



Ok, great…

- we have semantics,
- we have identifiers,
- we have links,
- we have guidance on all these…

So what's the problem???



So what's the problem???

- Conventional SDI tools and communities (OGC) are often not ready to deal with/benefit from links and semantics
- Semantic Web tools and communities are*
- Benefits of linked (geospatial) data are often claimed, but real evidence of benefits (compared to conventional SDI approaches) is often lacking

* not so clear for mainstream web developer community and tools

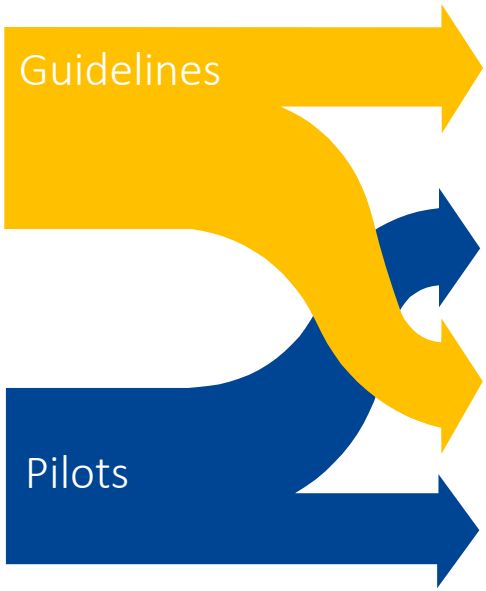
INSPIRE as Linked Data

NETAGE

Guadaltel
the value of difference

Objectives

- Draft guidelines for publishing INSPIRE data in RDF
- Elaborate the value propositions of geospatial data as linked open data



Draft methodology and vocabularies for refinement of the guidelines

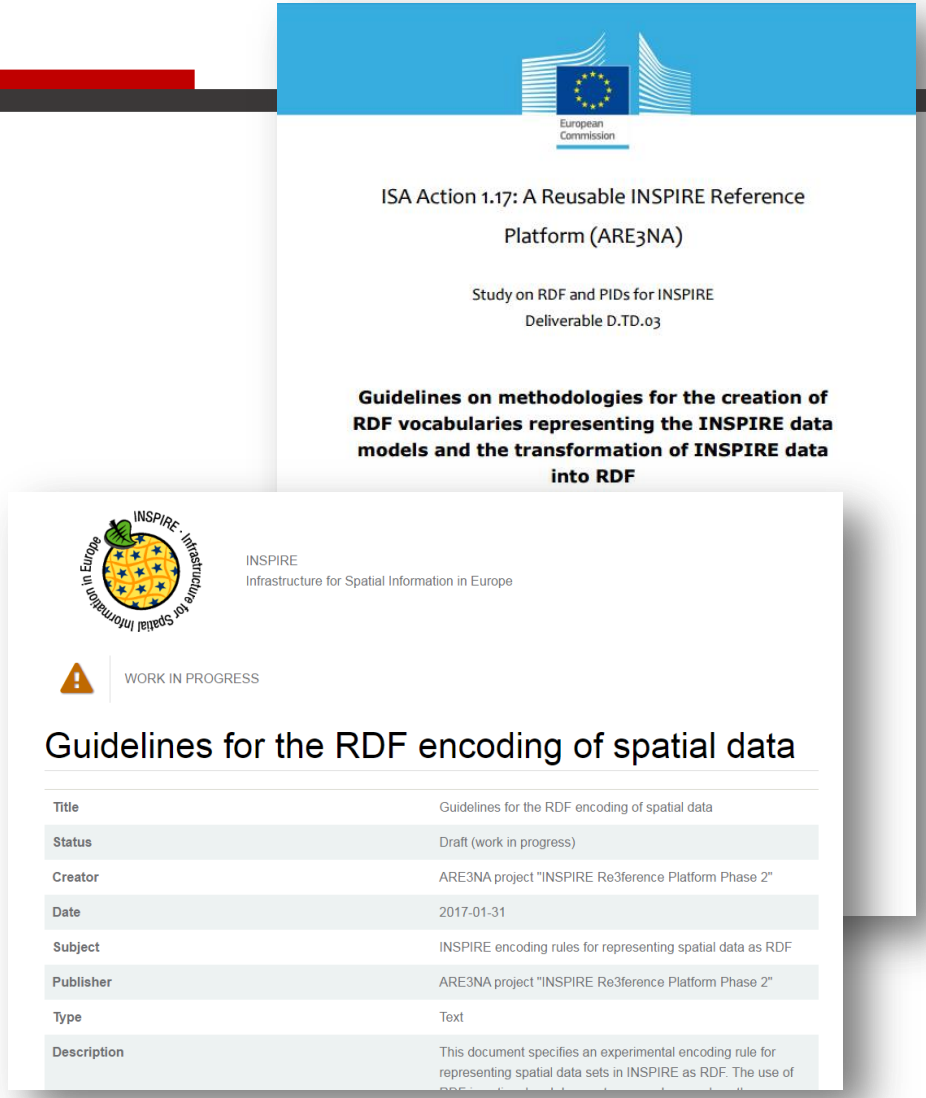
Feasibility and **benefits** of representing INSPIRE in RDF

Document issues related to methodology and vocabularies

Update guidelines following results of the pilots

RDF encoding guidelines

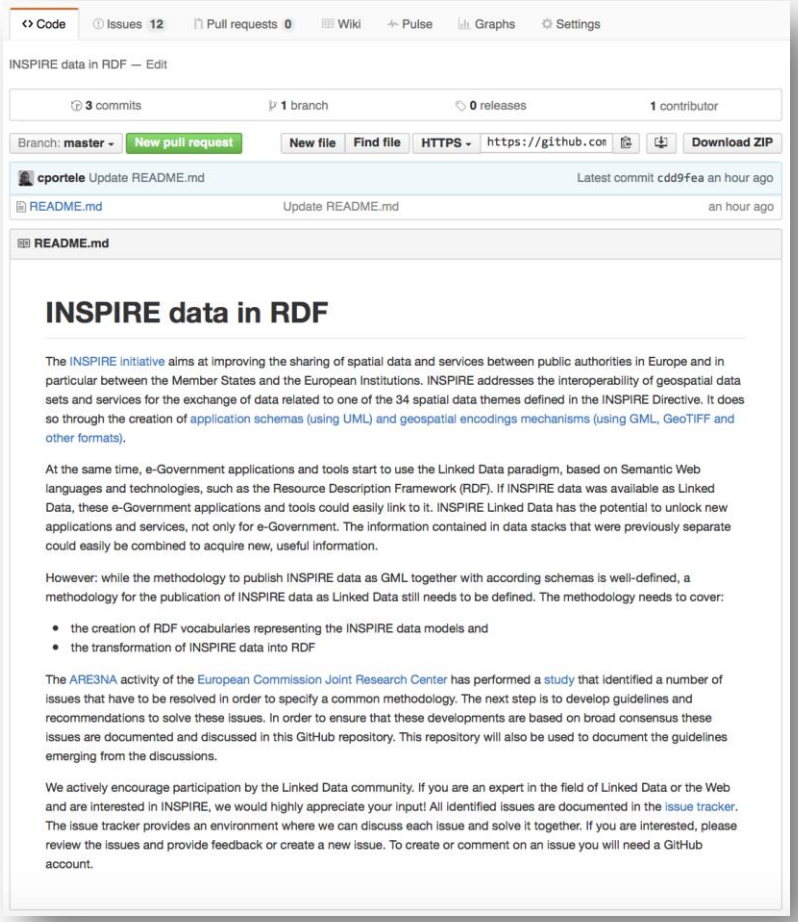
- Initial work in 2014
- Current work focuses on open issues and new input
- Goal is a draft for a new encoding rule for INSPIRE data, ready for stakeholder review



http://inspire-eu-rdf.github.io/inspire-rdf-guidelines/

Feedback on open issues on GitHub

- GitHub repository for discussing and resolving open issues
- Starting point: known open issues incl. a proposal for resolution
- Comments and ideas from stakeholders and experts working on related activities welcome!
- Also the emerging guidelines and proposed INSPIRE RDF vocabularies will be documented in the repository



https://github.com/inspire-eu-rdf/inspire-rdf-guidelines

Stay in touch

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https://joinup.ec.europa.eu/community/are3na/description

@INSPIRE_EU

https://www.linkedin.com/groups/1066897

http://inspire.ec.europa.eu/

This work is carried out under the ISA action ARE3NA and the ISA² action ELISE. More about ELISE and ARE3NA at https://ec.europa.eu/isa2/actions/improving-cross-border-exchange-location-information_en

ISA² is a EUR 131 million programme of the European Commission which develops digital solutions that enable interoperable cross-border and cross-sector public services for the benefit of public administrations, businesses and citizens across the EU.

ISA² supports a large range of actions and solutions. The ISA² solutions can be used free of charge and are open source when related to IT.

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