

Why we need extensions in INSPIRE – the European perspective

Michael Lutz

Workshop on INSPIRE extensions, Marne la Vallée, 20-21 June 2017



Joint Research Centre

The European Commission's science and knowledge service

http://ec.europa.eu/jrc



Overview

- Why do we need extensions
- Governance of extensions
- European examples
- Issues for discussion



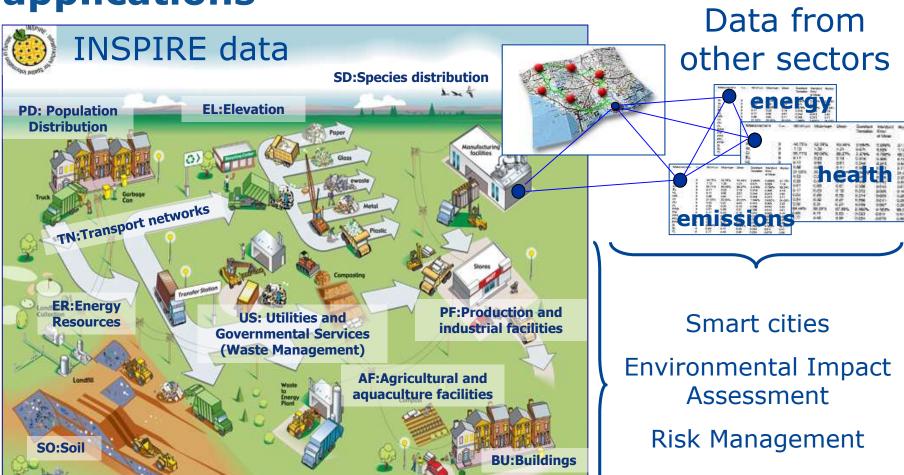
Why we need extensions



https://youtu.be/Ftgy8uU9y2A



INSPIRE - a base model for many applications



AM:Area management/ restriction/

regulation zones & reporting units

HB:Habitats and biotopes

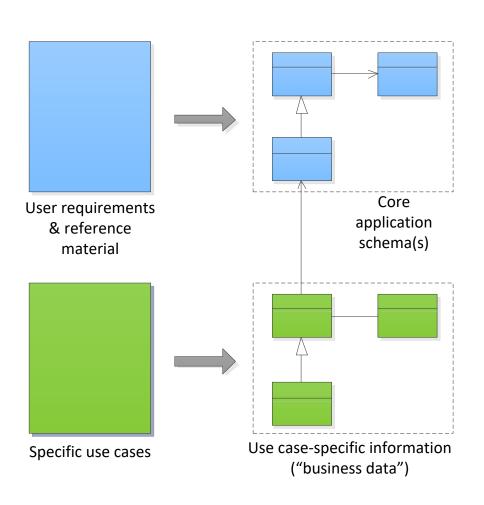


Meeting national needs with INSPIRE

- Different implementation approaches
 - INSPIRE implementation ≠ national implementation
 → no extension needed ("tick the INSPIRE box"
 - INSPIRE implementation = national implementation
 → need to extend the INSPIRE model in order to add properties / types relevant for national requirements

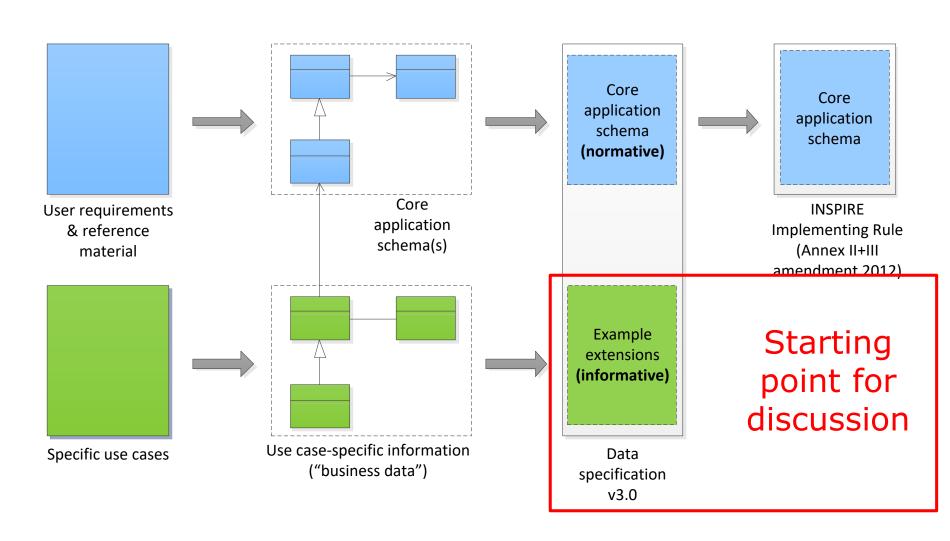


INSPIRE core and extension models



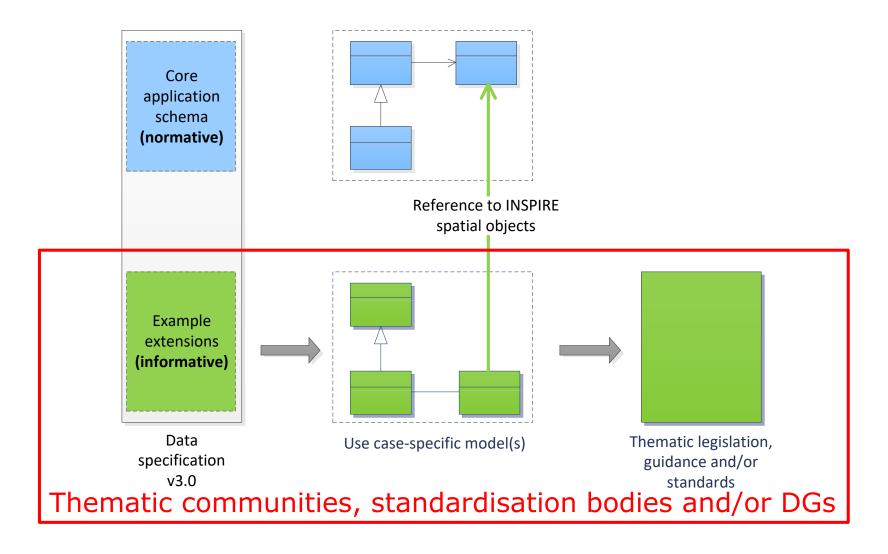


INSPIRE core and extension models



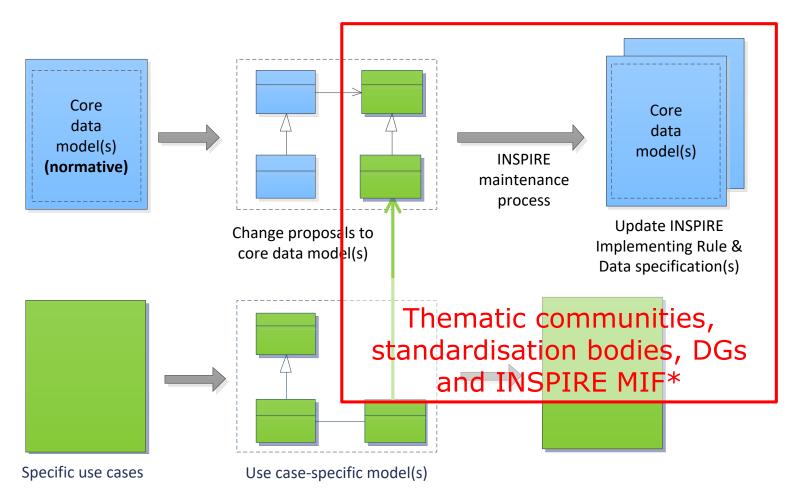


INSPIRE extensions: Governance





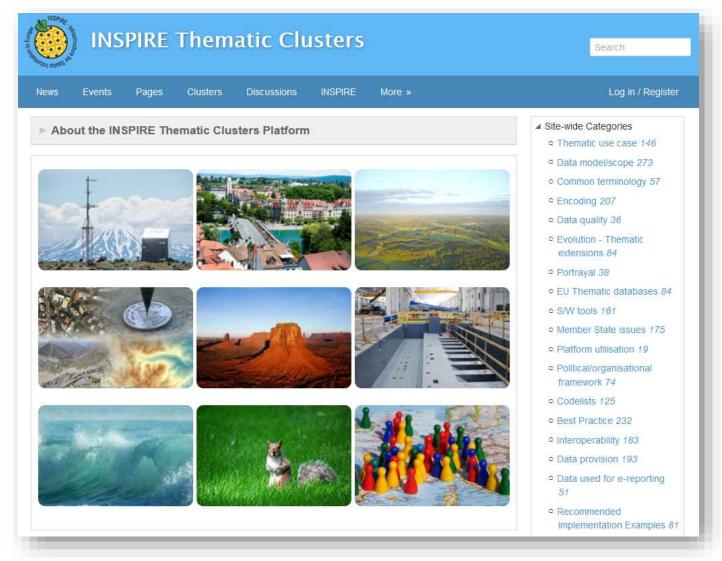
INSPIRE extensions & maintenance



* MIF = Maintenance and implementation framework



Thematic Clusters platform





Extension patterns

INSPIRE Data Specification Extensions

Get the most out of INSPIRE by extending data specifications!





View the Project on GitHub wetransform/inspire-extensions

Site Purpose and Overview

We collect and document best practices for extending INSPIRE models. This documentation shows how organisations can align their processes with the INSPIRE reference infrastructure. Below, you'll find an **extension methodology** that describes the process, people and tools needed to make an INSPIRE extension project successful, and provides common extension approaches in the form of a **pattern catalogue**.

The site has three core elements: The initial survey and inventory of existing INSPIRE Model Extensions, the extension pattern catalogue and an end-to-end tutorial project:

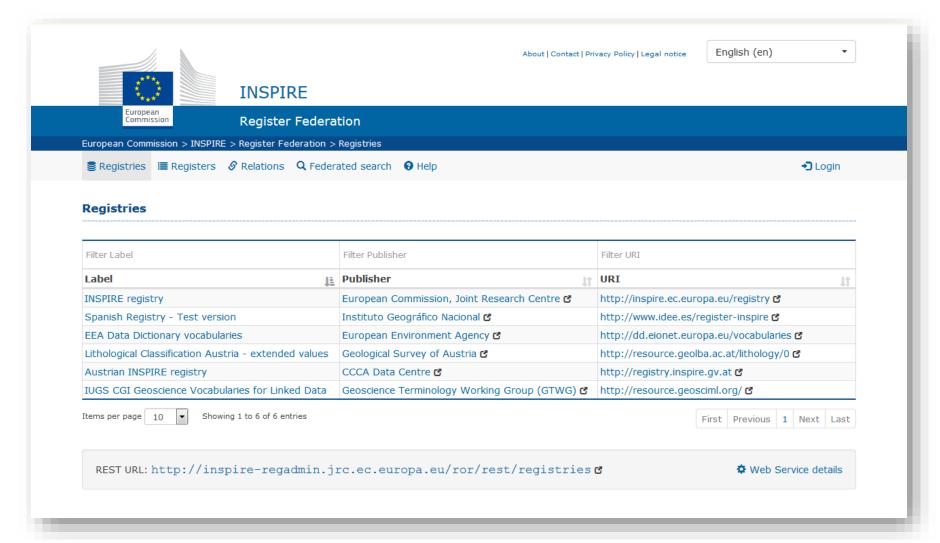
- 1. Introduction
- 2. Results of the Survey
- 3. Model Extensions Inventory
- 4. The INSPIRE Model-Driven Approach
- 5. The Extension Methodology
- 6. The Pattern Catalogue
- 7. An End-to-End Tutorial Project
- 8. Conclusions and Outlook

Current Project Activities

- 1. Kickoff Workshop (Amersfoort) 9th of March 2016 ✓
- 2. Model Extensions Inventory Delivery J
- 3. Advisory Board Meeting (Ispra) 21st of April ✓
- 4. Extension Methodology Draft 🗸
- 5. Full Pattern Catalogue 🗸
- 6. Tutorial Project and Running Example Documentation
- 7. Advisory Board Review Meeting (Ispra) 29th to 30th of June 2016 🗸
- 8. Final Report ✓
- 9. Workshop at INSPIRE Conference (Barcelona) 26th of September, 09:00 to 12:30 ✓



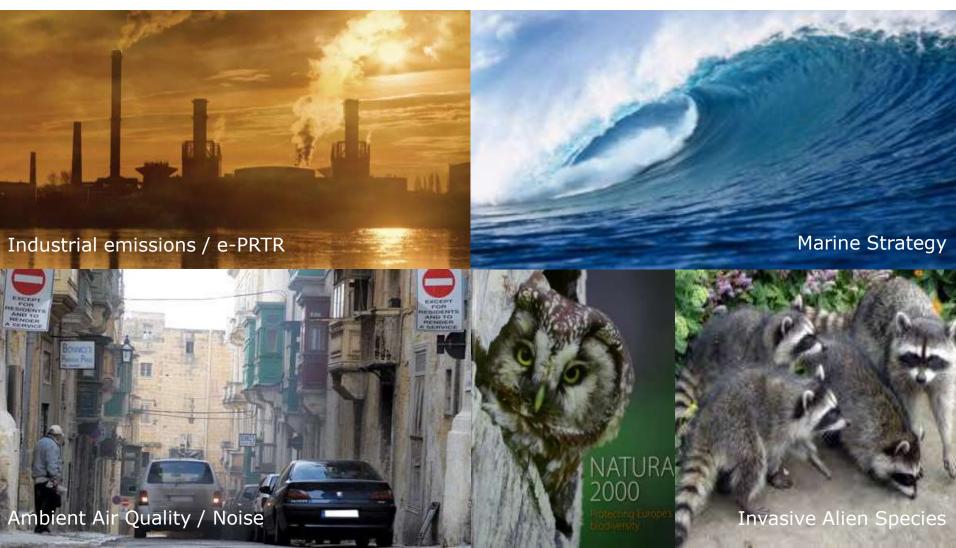
INSPIRE register federation





Examples – e-Reporting

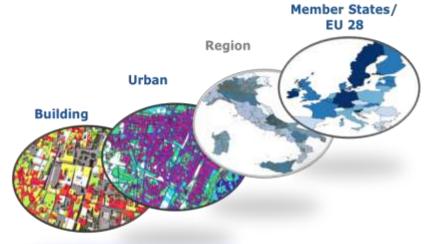






Examples – other applications





EPBD

Energy Performance of **Buildings** Directive

CoM

Covenant of Mayors (Cities) **EED-RED**

Energy Efficiency – Renewable Energy Directives (Member States)



Topics for discussion

- Extensions vs. profiles
- Different patterns for extensions (and their implications for services)
- Extensions in the INSPIRE reference validator
- Extensions and business processes (e.g. e-Reporting)
- A register for extensions?
 - why?
 - who should operate/fund it?
 - all welcome vs. only quality-assured/endorsed
 - are (some) examples/good practices enough (→ e.g. one per theme)