isa
Interoperability Solutions
for European Public Administrations

JOINING UP GOVERNMENTS

European Commission

A Reusable INSPIRE Reference Platform and INSPIRE Assets

Robin S. Smith and Andrea Perego
(EC Joint Research Centre)

- Cross-sector reuse of INSPIRE assets

- Ideas to make reuse easier with

ARe³NA

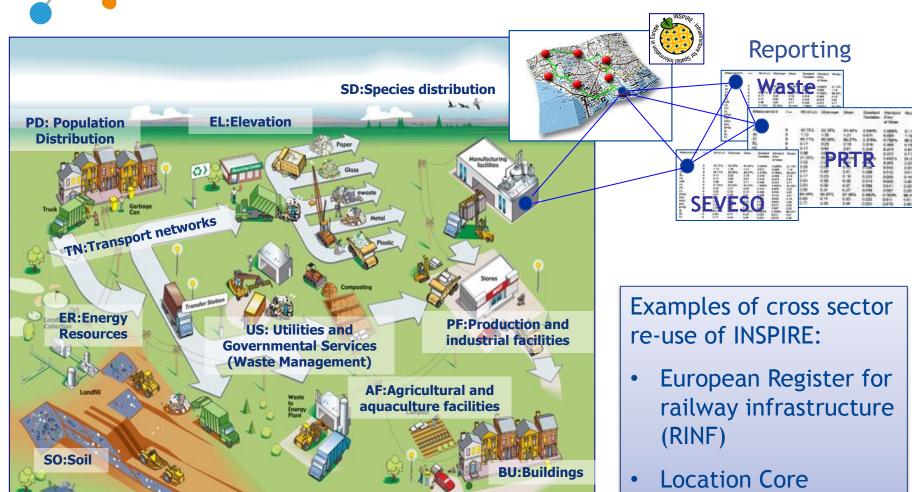| Openness | Interoperability | Reuse | Collaboration |

- The **INSPIRE Directive** (2007/02/EC) aims to create a spatial data infrastructure that will **facilitate spatial data access across borders** in harmonised way
- Detailed technical provisions are being laid down in daughter legislation on
  - **Metadata**
  - **Harmonisation of spatial data sets and services**
  - **Services for discovery, view, download etc.**
  - **Data and Service sharing (policy)**
- DG ENV, EEA and JRC (technical coordinator)
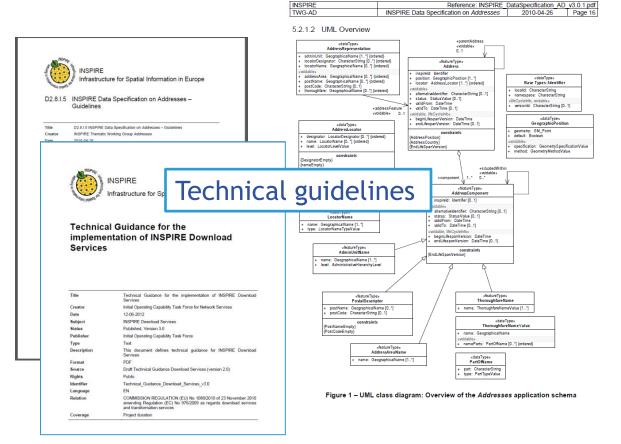
Cross-theme data interoperability

Examples of cross sector re-use of INSPIRE:

- European Register for railway infrastructure (RINF)

- Location Core Vocabulary pilot

Technical guidelines

Codelists

Figure 1 – UML class diagram: Overview of the *Addresses* application schema

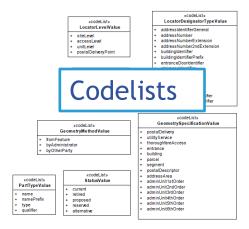Figure 5 – UML class diagram: Codelists

- ARE3NA inventories (policies, technologies...) as platform content

- Development of the ARE3NA platform in **JoinUp**

- Examples of missing components:
  - Registry of multilingual semantic assets for INSPIRE and possible cross-sector re-use
  - Access control for public sector data and services
  - INSPIRE RDF vocabularies and Linked Data

- Reusing cross-sector assets through an **e-Learning** approach
  - 'slide-sharing', 'collections', mapping relationships/ scenarios and sharing them to aid INSPIRE implementation
  - ... (lifelong) e-learning for semantic interoperability

- **Tagging** assets relevant to:
  - Domains
  - Key legal acts/ Policy (development/areas)
  - Initiatives/Projects
  - ...

robin.smith@ext.jrc.ec.europa.eu
andrea.perego@jrc.ec.europa.eu

Annex I

1. Coordinate reference systems
2. Geographical grid systems
3. Geographical names
4. Administrative units
5. Addresses
6. Cadastral parcels
7. Transport networks
8. Hydrography
9. Protected sites

Annex II

1. Elevation
2. Land cover
3. Ortho-imagery
4. Geology

Annex III

1. Statistical units
2. Buildings
3. Soil
4. Land use
5. Human health and safety
6. Utility and governmental services
7. Environmental monitoring facilities
8. Production and industrial facilities
9. Agricultural and aquaculture facilities
10. Population distribution – demography
11. Area management/restriction/regulation zones & reporting units
12. Natural risk zones
13. Atmospheric conditions
14. Meteorological geographical features
15. Oceanographic geographical features
16. Sea regions
17. Bio-geographical regions
18. Habitats and biotopes
19. Species distribution
20. Energy Resources
21. Mineral resources