isa
**Interoperability Solutions
for European Public Administrations**

JOINING UP GOVERNMENTS

EUROPEAN
COMMISSION

ADMS-based federation of semantic assets repositories

isa

We define Semantic Interoperability Assets as highly reusable metadata (e.g. xml schemata, generic data models) and reference data (e.g. codelists, taxonomies, dictionaries, vocabularies) which are used for eGovernment system development

Cooperating partners with compatible visions, aligned priorities, and focused objectives

Political Context

Aligned legislation so that exchanged data is accorded proper legal weight

Legal Interoperability

Legislative Alignment

Coordinated processes in which different organisations achieve a previously agreed and mutually beneficial goal

Organisational Interoperability

Organisation and Process Alignment

Precise meaning of exchanged information which is preserved and understood by all parties

Semantic Interoperability

Semantic Alignment

Planning of technical issues involved in linking computer systems and services

Technical Interoperability

Interaction & Transport

Semantic IOP assets is the equivalent to TS at the semantic layer

Due to a large number of technical standards (TS) many problems are currently solved

TS are IOP agreements at the technical IOP level

- Joinup: >500 reusable semantic assets

- Joinup is not a one-of-kind infrastructure anymore

- National initiatives to create repositories/libraries/catalogs of metadata standards

- Standardization bodies and third party initiatives generate valuable and highly reusable specifications

How could we promote reuse at a European level?

How could we promote reuse of semantic assets at a European level?

... by enabling a federation of semantic assets repositories

– Cross-querying and discovery should be supported

– Respect the autonomy of each repository
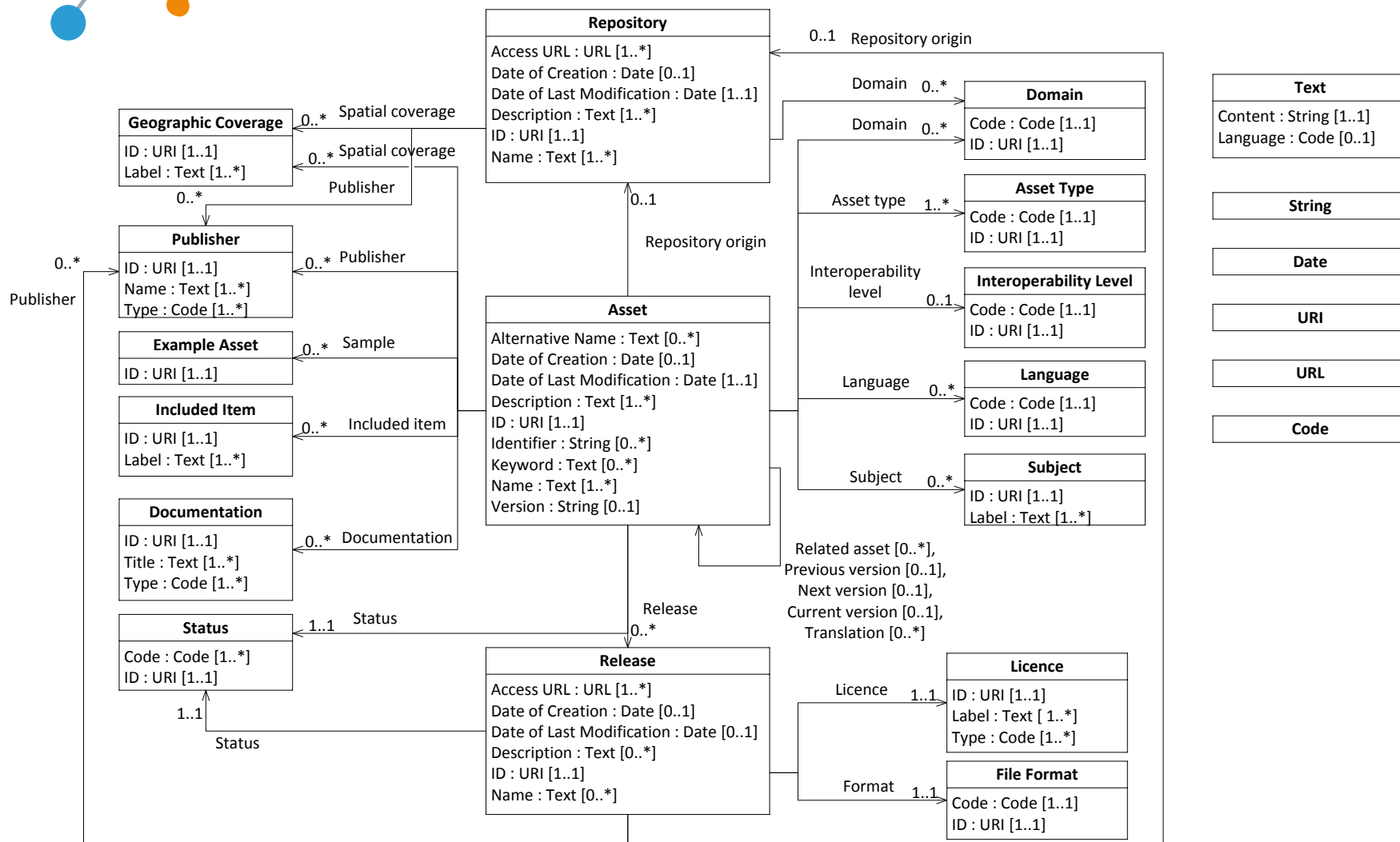
… by using common semantics to describe a "semantic asset"

We need a *common schema for assets description*

Asset Description Metadata Schema (ADMS)

- Broad Participation

  – Member States

  – EU institutions

  – Standardization bodies

  – External experts/academia

- W3C facilitation and methodology

- Currently the specification is available in UML, XML, RDF formats for public review at https://joinup.ec.europa.eu/asset/adms/release/08

- By June 2012:

  - Prepare the final ADMS v1.0 after the public comments period

  - ADMS endorsement by Member States (ISA Coordination Group?)

  - Deploy the first federation "wave" via Joinup by June 2012. Candidate repositories:

    - MSs repositories: Digitaliser.dk, RIHA (EE), Xrepository (DE), yhteentoimivuus.fi

    - Third parties repositories: GS1, International Commission on Civil Status, Listpoint, OASIS, W3C

    - Joinup (ex-SEMIC.EU), CELLAR

- After June 2012:

  - On-board more repositories

  - Promote the federation in the MSs

  - Promote the actual reuse of available assets

  - Start analysis for identifying alignment needs and opportunities

  - Continue and conclude (?) discussions with standardization bodies for the sustainability of the ADMS specification

- We should conclude on the followings:

  - Who participates in the first wave

  - With which resources (SIAs to be identified in broader collections of IOP assets)

  - Technical Architecture for the federation

  - Detailed planning for:

    - Having the participating repositories ready to join the federation by (?)

    - Having the technical specifications for the implementation at the Joinup.eu side available by end March 2012

  - How we document and share all implementation experience (wiki?)

ADMS-based federation
of semantic asset repositories

Vassilios Peristeras

DG DIGIT, ISA Unit

vassilios.peristeras@ec.europa.eu

Thank you!