



European
Commission

ISA² Fostering Semantic Interoperability between public administrations in Europe

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ISA²



The ISA² programme

- Programme managed by the EC
- supporting development of interoperable IT solutions & Services
- Budget: **131M €**
- Duration: **2016-2020**
- Solutions developed upon proposals of the EU countries and the EC Services
- Solutions facilitate transactions across borders and/or across sectors between public administrations, businesses and citizens
- Solutions when related to IT: open source & free of charge

The ISA² programme – The Benefits

- For public administrations:
 - Reduced time and cost for the development of own IT solutions
 - Solutions that work smoothly in cross-border and/or cross-sector context
 - High end-user satisfaction, due to more efficient bureaucratic procedures
- For businesses and citizens:
 - Quicker and cheaper administrative procedures
 - Less red tape

The ISA² programme – The Solutions

- IT solutions covering wide range of areas:
 - [Semantics Interoperability](#)
 - [Open Data](#)
 - [Geospatial solutions](#)
 - [e-Procurement / e-Invoicing](#)
 - [Decision making and legislation](#)
 - [Solutions supporting the implementation of EU policies](#)
- Overview at [ISA² website, section "solutions"](#)

Interoperability Governance



**Legal
Interoperability**



**Organisational
Interoperability**



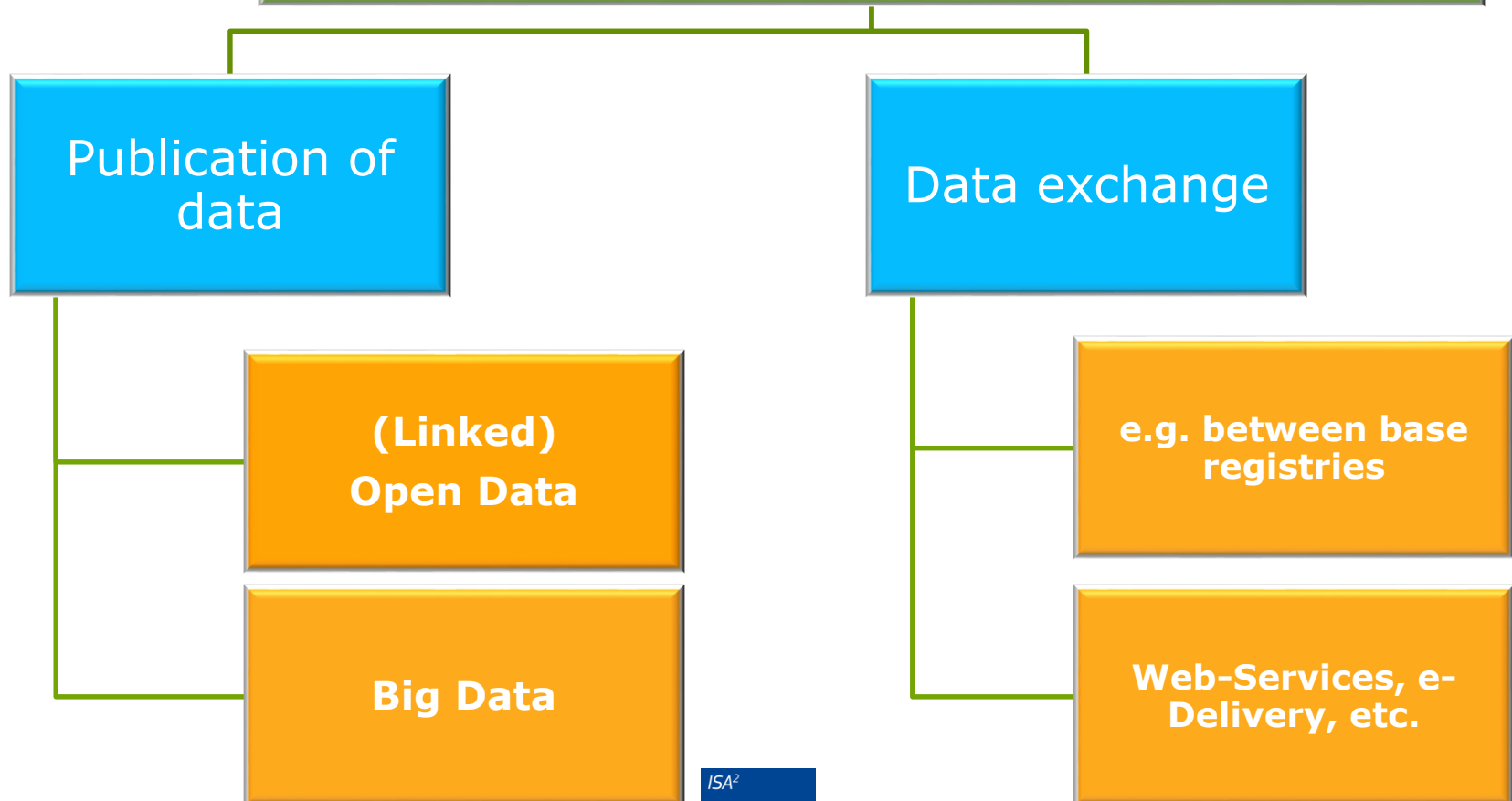
**Semantic
Interoperability**



**Technical
Interoperability**

**Integrated
Public Service
Governance**

Agreeing on formats and definitions of data and metadata





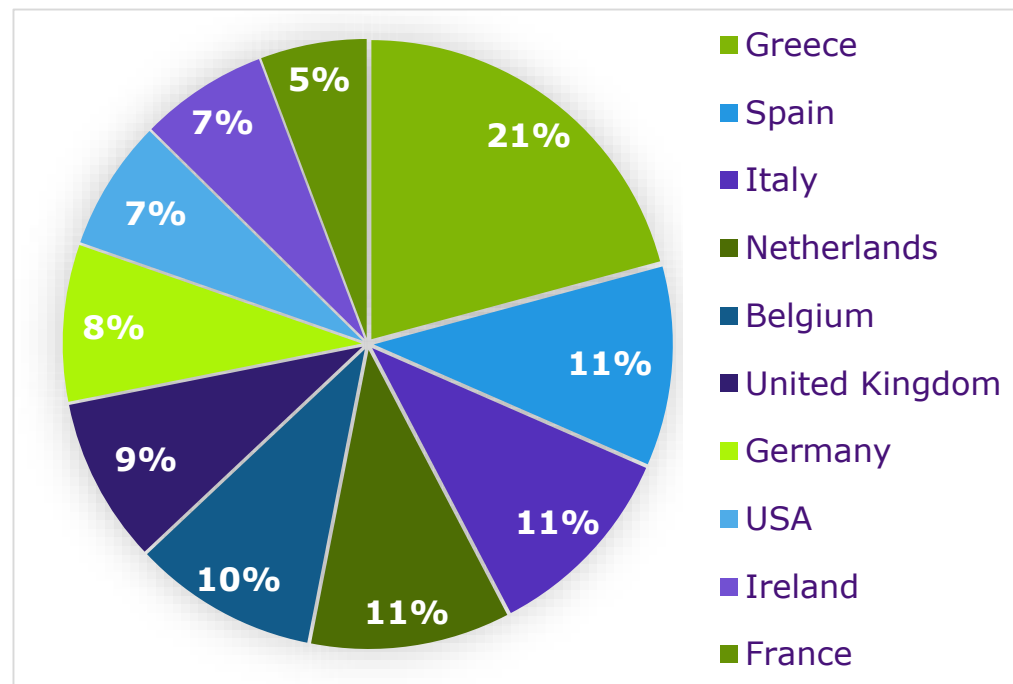
- Supporting the development, dissemination and use of **core vocabularies** and **data specifications**
- Developing **processes and guidelines for information governance and management**, and **supporting related policy implementation projects** and initiatives in the EU institutions and Member States



Stakeholders



- More than 1500 representatives of different organisations are participating/have participated in SEMIC activities.
- From more than 50 countries.



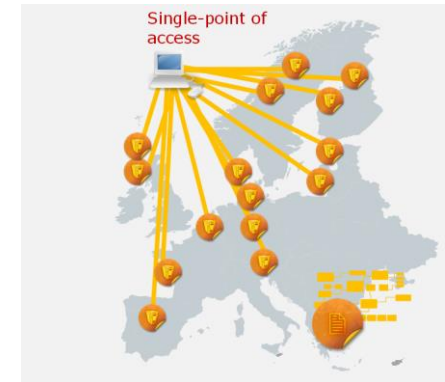


- ADMS
- DCAT-AP, STAT DCAT-AP, Geo DCAT-AP
- Core Vocabularies
 - Person, Business, Location
 - Public Service
 - Public Organization
 - Criterion, Evidence

ADMS is a simple specification to *describe* reusable interoperability solutions

Implementations

- Joinup
- Metadata Registry (MDR) of the EU Publications Office
- PoolParty Thesaurus Manager 3.1.0
- ADMS export feature for XRepository
- ADMS-compliant RDF export for W3C Technical Reports
- Automatic feed to harvest ADMS-compliant descriptions of GS1 in Europe assets
- ADMS export feature for the Spanish center for technology transfer



DCAT-AP provides a common specification for describing public sector datasets

Implementations

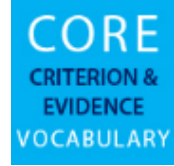
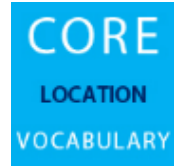
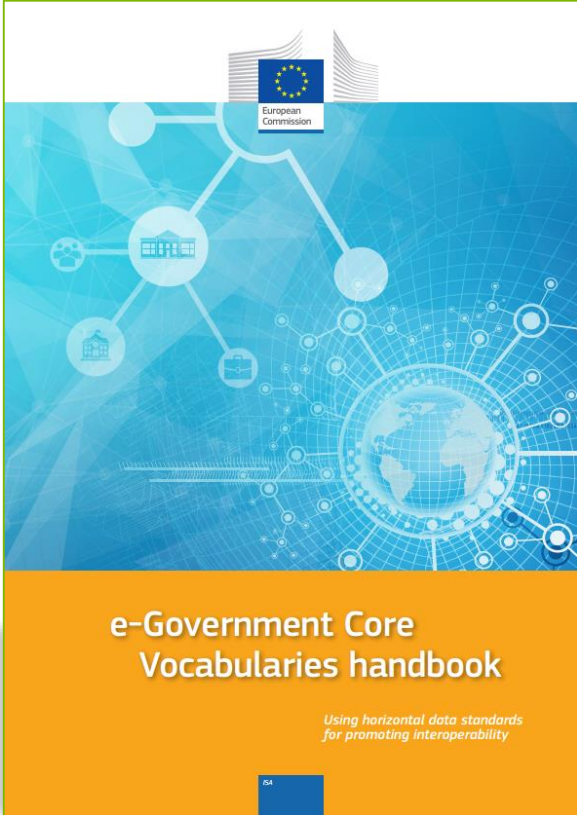
- [European Data Portal](#)
- European Union Open Data Portal (PO)
- Germany, Norway, Ireland, Sweden, Switzerland
- ...

Core Vocabularies



What is a core vocabulary?

Simplified, re-usable, and extensible data models that capture the **fundamental characteristics** of a data entity in a context-neutral and syntax-neutral fashion



See also:
[e-Government Core Vocabularies Handbook](https://joinup.ec.europa.eu/asset/core_vocabularies/asset_releases/core-vocabularies-v20)
https://joinup.ec.europa.eu/asset/core_vocabularies/asset_releases/core-vocabularies-v20



• Implementations¹

- Estonia
- Italy (Trentino)
- Belgium (Flanders)
- DG Just
 - BRIS project
 - Succession forms
 - Forms for Public Documents Regulation



¹<https://joinup.ec.europa.eu/node/44202>



ISA² Action SEMIC – <http://semic.eu>

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