



EC's ISA² programme and smart cities

TECH TRACK - Emerging Standards & Mechanisms

17 January 2019
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The ISA² programme supports the development of **digital solutions** that enable public administrations, businesses and citizens in Europe to benefit from **interoperable** digital public services.



Goals of the programme

Promote a holistic approach to interoperability

Cross border, cross sector and user centric public administrations

Identify, create and operate interoperability solutions

Facilitate the reuse of interoperability solutions by European public administrations.



Policy context

Contributes to the implementation of the **eGov Action Plan** (2016-2020) and the **EIF**

Contributes to completing the **DSM**

Importance stressed in the **Ministerial eGov Declaration from Tallinn of 6 October 2017**

Contributes to many EU policies, e.g. Open data initiative (the PSI directive), *the Once Only Principle*, Single Digital Gateway, etc.

Complements other EC programmes, e.g. CEF.



Some more details

Budget: 130M € for 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 mostly open source and for free



ISA² Action 2016.07 SEMIC: Promoting Semantic Interoperability amongst the EU Member States

Raising awareness on the importance of metadata management.



Identifying opportunities for alignment on semantic definitions, metadata and reference data sources with special focus on identification and definitions of Core Concepts/ Vocabularies.



Promoting, share and reuse of semantic assets, experiences and tools and facilitating agreements in key areas.





SEMIC specifications

ADMS

DCAT-AP

- Stat DCAT-AP
- Geo DCAT-AP

Core Vocabularies

- Person, Business, Location
- Public Service
- Public Organization
- Criterion, Evidence



ADMS

- ADMS is a simple specification to describe reusable interoperability solutions
- Implementations, e.g.
- Joinup
- Metadata Registry (MDR) of the EU Publications Office
- ADMS export feature for the Spanish center for technology transfer



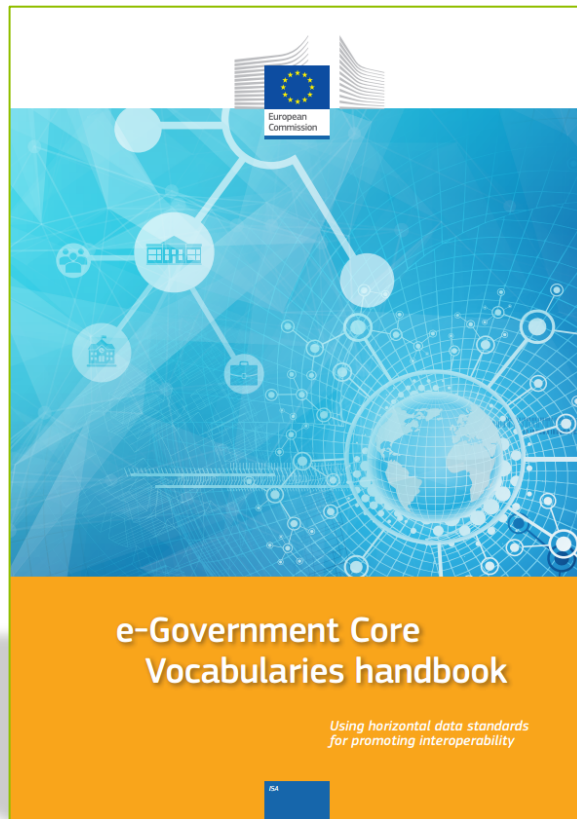
DCAT-AP



- 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
 - ...



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

CORE
BUSINESS
VOCABULARY

CORE
LOCATION
VOCABULARY

CORE
PERSON
VOCABULARY

CORE
PUBLIC
SERVICE
VOCABULARY

CORE
CRITERION &
EVIDENCE
VOCABULARY

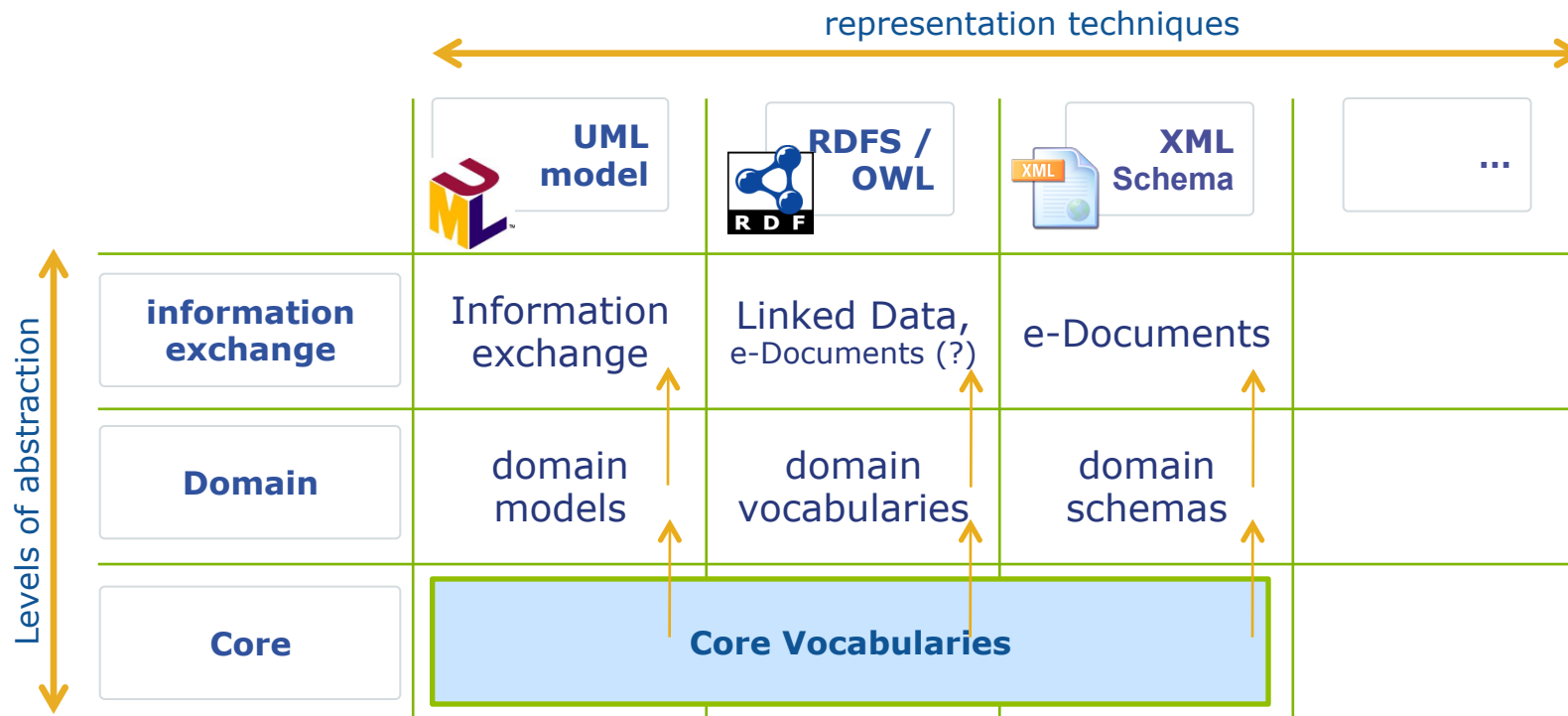
CORE
PUBLIC
ORGANISATION
VOCABULARY

See also:

<https://joinup.ec.europa.eu/collection/semantic-interoperability-community-semic/core-vocabularies>

https://joinup.ec.europa.eu/site/core_vocabularies/Core_Vocabularies_user_handbook/ISA%20Hanbook%20for%20using%20Core%20Vocabularies.pdf

Where do we operate?





ISA² Action 2016.29: Catalogue of Public Services

“Enhancing the **interoperability** and the **exchange of information** about public services within and across MSs and on the European level by.”

01 Identifying and defining **key life and business events** for grouping public services in a user-centric way.

Enabling the machine-readable **description** of public services by defining a **common data model**.

02

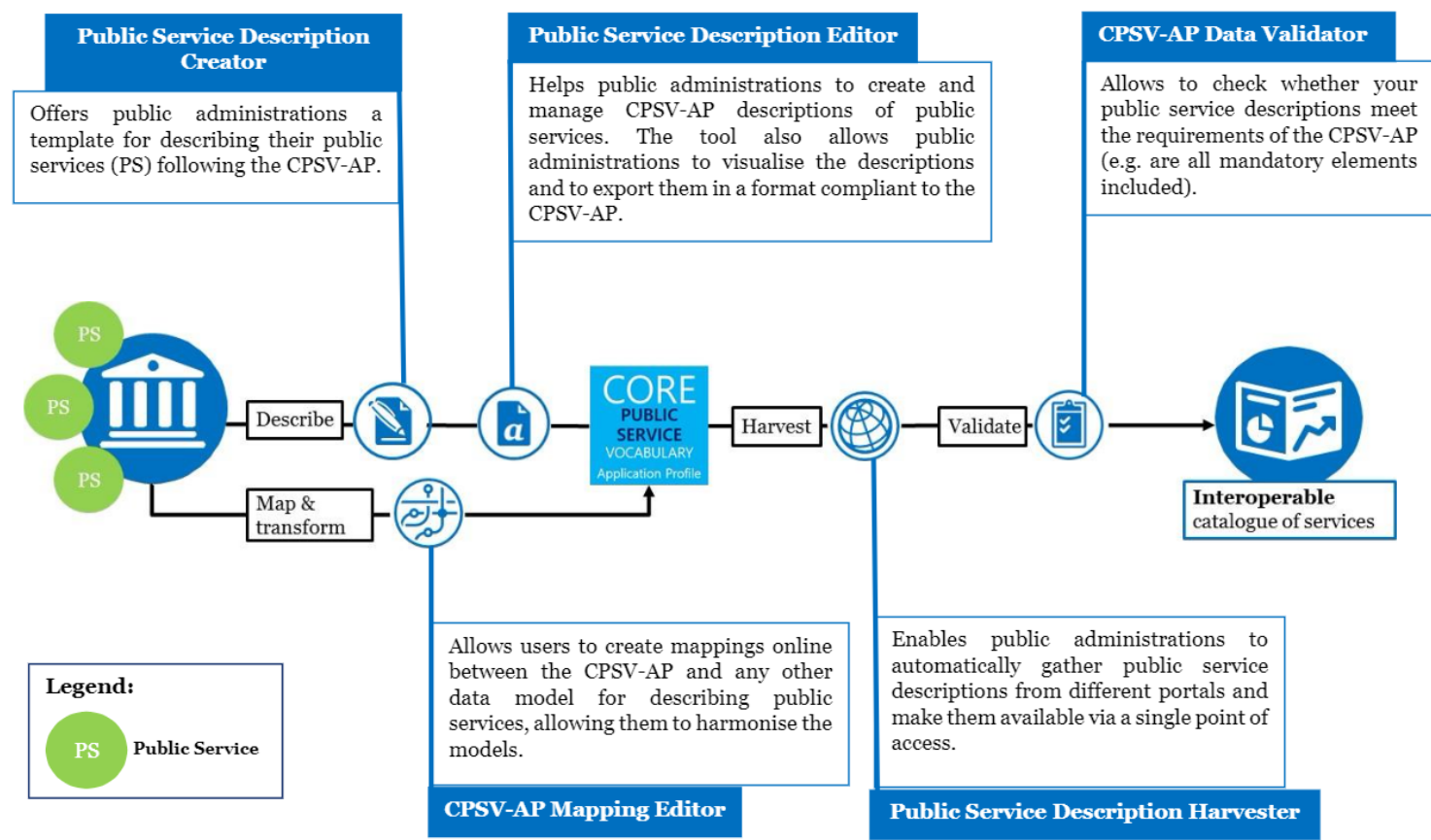
03 Identifying and developing **reusable software solutions** for the creation, management and exchange of public service descriptions.

Providing technical **support** to MSs and EUIs in setting up user-centric **one-stop-shops** for public services.

04



Reusable tools for the management of public service descriptions





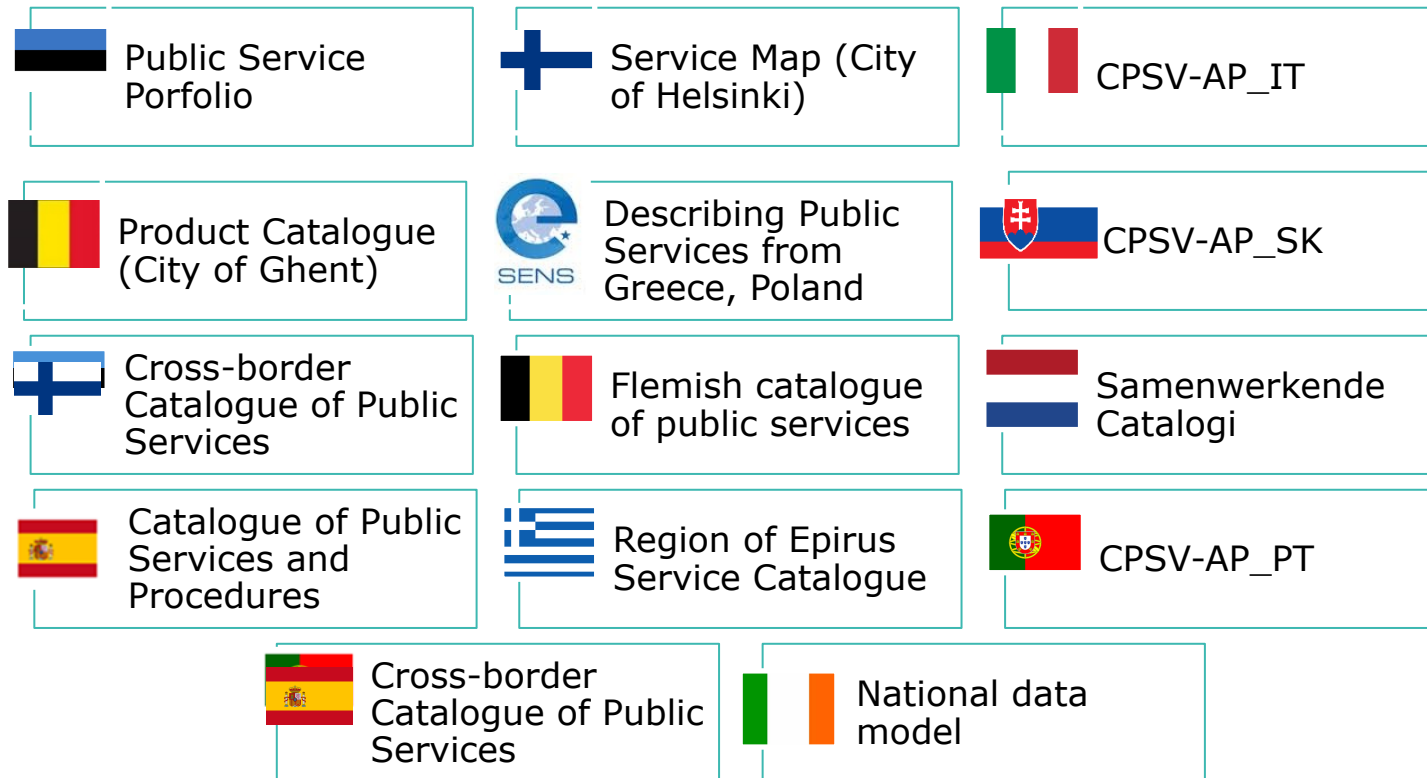
CPSV-AP: What is it?

The [Core Public Service Vocabulary Application Profile](#) is a data model for the description of public services, life and business events.

-  **Finding information about public services more easily**
-  **Building user-centric catalogues of public services at all levels**
-  **Managing portfolios of public services**
-  **Publishing descriptions of life and business events and related public services**



CPSV-AP: Who is using it?





CPSV-AP: How did MSs benefit from using the CPSV-AP and tools?

Qualitative interviews and a quantitative survey with Member States reusing the CPSV-AP and tools highlighted the following key perceived benefits.

“Cost-efficient and easy way to improve data accessibility and interoperability at a global level” - Spain

“Providing Member States with a strong basis to create integrated and centralised Catalogues of Public Services” - Italy

“Global network to tackle a global issue by sharing knowledge, best practices and resources” - Trentino

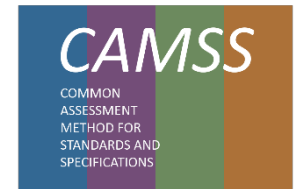
“Harmonisation and centralisation of data coming from different sources, especially in Member States having a complex administrative structure” – Greece (Epirus)

Complexity of dealing with standards.





CAMSS: **Common Assessment Method for Standards and Specifications**



Assessment and support on the selection of ICT standards and specifications for eGovernment projects

A list of ICT standards used by EU Member States

A free-access library of assessments performed on ICT standards, technical specifications or even organizations

Adoption of CAMSS for the evaluation of standards for the EU Catalogue of ICT procurement standards



Ways to use CAMSS

Using it – Do it yourself

- Access to assessment resources: *support to users, improved tools and training resources*

Re-using it – Reuse assessments

- A growing collection of assessments - *ready for reuse*
- *List to Member States Catalogues of standards*

Consuming it – Request the service

- CAMSS as a Service - *provision of assessments on demand*

Sharing & Reuse Awards 2019

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https://ec.europa.eu/isa2/awards-2019_en

<https://joinup.ec.europa.eu/collection/sharing-and-reuse-it-solutions/sharing-reuse-awards-2019>



ISA² programme

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Run by the Interoperability Unit at DIGIT (European Commission) with 131€M budget, the ISA² programme provides public administrations, businesses and citizens with specifications and standards, software and services to reduce administrative burdens.