



Putting the core vocabularies into practice

SEMIC 2013, Dublin, 21 May 2013

ISA Programme

Action 1.1 - Semantic Interoperability

Stijn.Goedertier@pwc.be

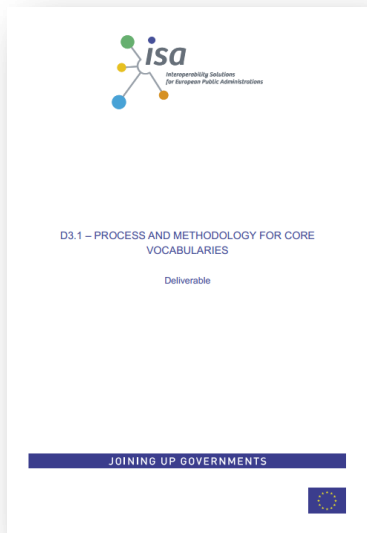
Nikos.Loutas@pwc.be



Outline

1. What are the Core Vocabularies?
2. Why are they relevant to public administrations?
3. How are they used?

Core vocabularies



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

CORE
PERSON
VOCABULARY

CORE
BUSINESS
VOCABULARY

CORE
LOCATION
VOCABULARY

CORE
PUBLIC
SERVICE
VOCABULARY

Outline

1. What are the Core Vocabularies?
2. Why are they relevant for public administrations?
3. How are they already put in practice?

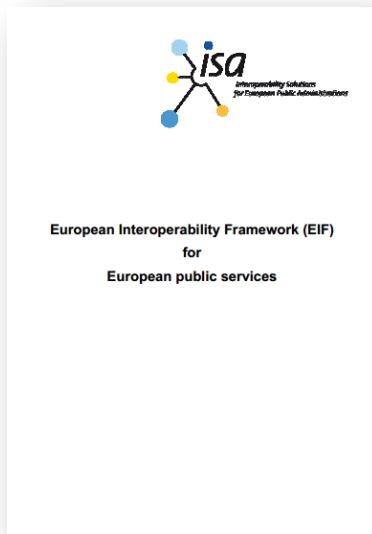


Why relevant?

1. Interoperability of base registers:
common vocabularies for interconnecting authentic sources of Government data
"Basic data" a Minimal Viable Product.

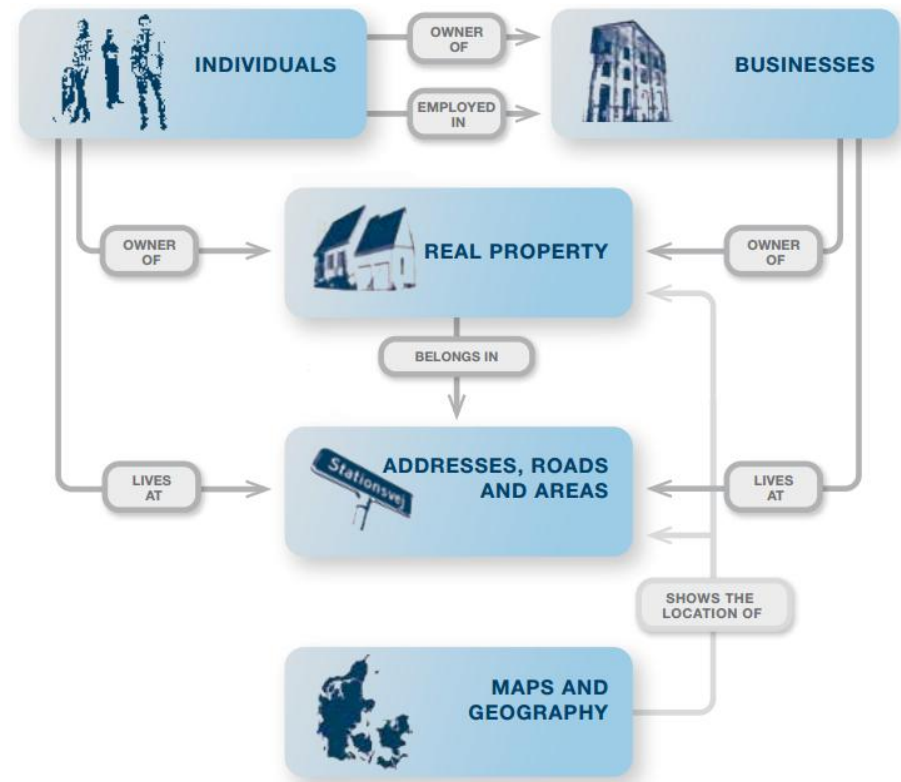
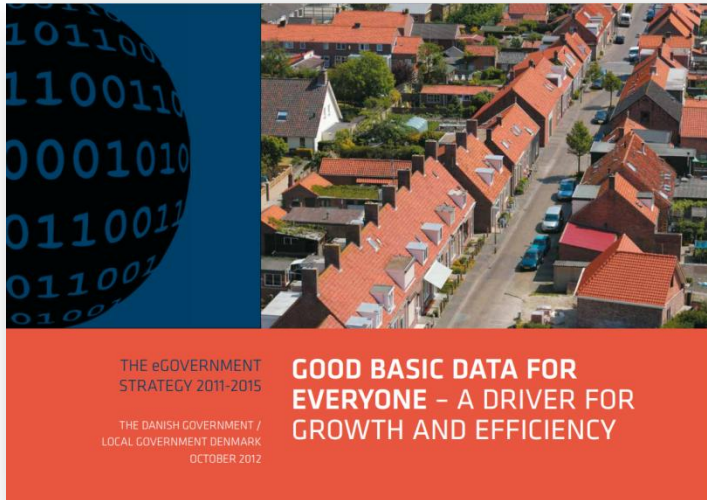
2. Interoperability of public services:
greatest common denominator to which one can add context-specific extensions.

European Interoperability Framework



Recommendation 12. *Public administrations, when working to establish European public services, should develop interfaces to authentic sources and align them at semantic and technical level.*

Denmark: “Good basic data for everyone”





E-SENS: common building blocks for cross-border public services

The core vocabularies as a starting point for context-specific vocabularies.

E.g. E-CODEX re-uses the Core Person Vocabulary.



Core Vocabularies

0. About the ISA Programme

1. What are the Core Vocabularies?

2. Why are they relevant for public administrations?

3. How are they already put in practice?

Known implementations

e-CODEX large-scale pilot on eJustice

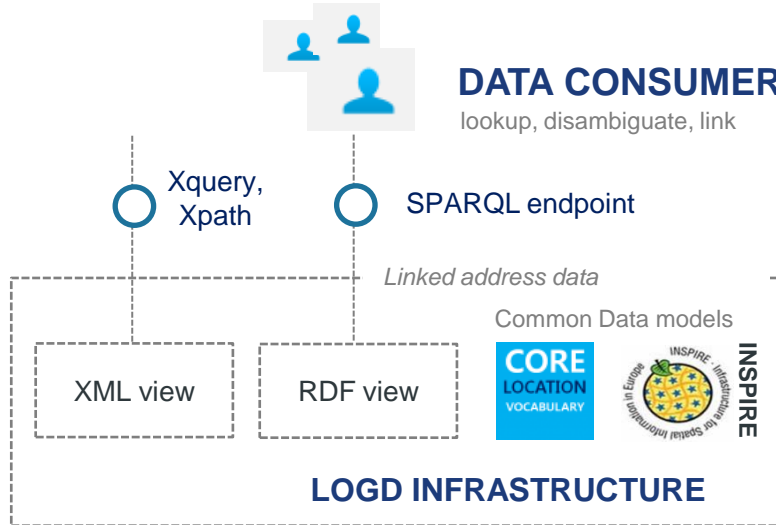
Open Corporates

The OSLO project

*5 pilot implementations initiated by the ISA
Programme:*

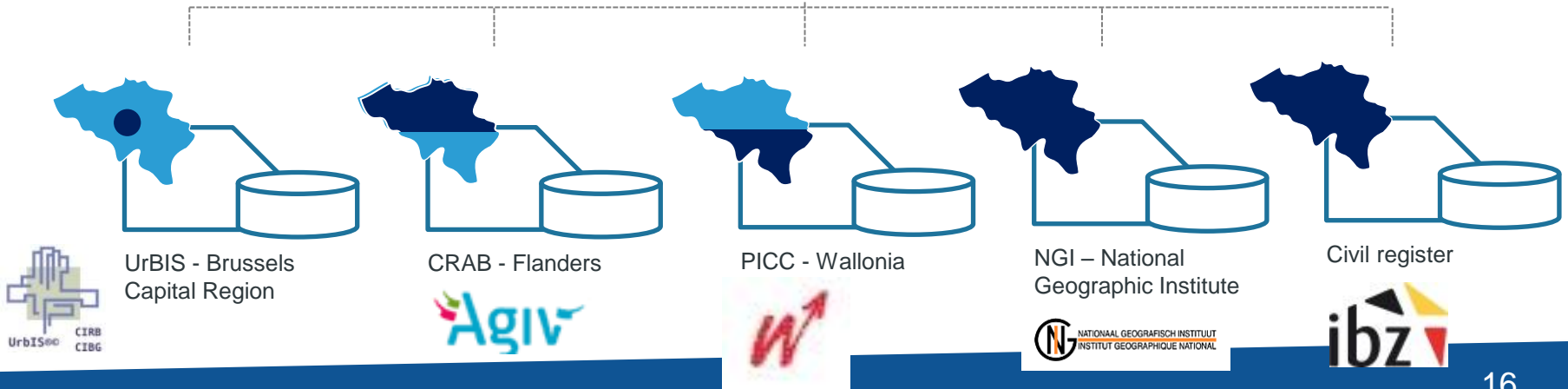
- *25 public administrations*
- *14 Member States*
- *4 EU Institutions*

Interconnecting Belgian address registers



XML and RDF views on relational data served over a Web interface

sample address data in *native* format





About: <http://location.testproject.eu/so/tn/Road/RN/10005121>

An Entity of Type : [Road](#),

References

Referenced By

- ex:abstracts
 - <http://location.testproject.eu/id/road/RN/10005121>
- ex:osmVisualization
 - <http://nominatim.openstreetmap.org/search?q=Schuman,Brussel&polygon=1>
- adminUnit
 - <http://location.testproject.eu/so/au/AdministrativeUnit/STATBEL/21004>
- nationalCode
 - N3a
- type
 - <http://inspire.ec.europa.eu/def/tnro/Road>
 - <http://inspire.ec.europa.eu/def/ad/ThoroughfareName>
- locn:geographicName
 - Schuman

Raw Data in: [Turtle](#) | [RDF/XML](#)



About: <http://location.testproject.eu/so/au/AdministrativeUnit/STATBEL/21004>

An Entity of Type : [AdministrativeUnit](#),

References

Referenced By

- ex:abstracts
 - Brussel
- ex:osmVisualization
 - <http://nominatim.openstreetmap.org/search?q=Brussel&polygon=1>
- nationalLevel
 - <http://inspire.ec.europa.eu/def/code-list/AdministrativeHierarchyLevel/5thOrder>
- upperLevelUnit
 - <http://location.testproject.eu/so/au/AdministrativeUnit/STATBEL/21000>
- type
 - <http://inspire.ec.europa.eu/def/au/AdministrativeUnit>
 - <http://inspire.ec.europa.eu/def/ad/AdministrativeUnitName>
- locn:geographicName
 - Brussel
 - Bruxelles

Raw Data in: [Turtle](#) | [RDF/XML](#)

GR- Ministry of administrative reform and electronic governance

Organogram for the Greek Ministry of Administrative Reform and eGovernance

- [Ministry of Administrative Reform and e-Governance](#)
 - [Office of the Deputy Minister for Administrative Reform and e-governance](#)
 - [Office of the Secretary General for Managing Authority of the Operational Program](#)
 - [Unit A Planning and Evaluation](#)
 - [Unit B Management of Acts](#)
 - [Unit C Pre-consents and On-the-spot checks](#)
 - [Unit D Organisation and Support](#)
 - [Office of the Secretary General for Financial Management](#)
 - [Directorate General of Financial Management](#)
 - [Directorate of Budget and Finance](#)
 - [Directorate of Procurement](#)
 - [Directorate of Administrative Management](#)
 - [Directorate General of Administrative Management](#)
 - [Directorate of Strategic Planning](#)
 - [Directorate of e-Governance](#)
 - [Directorate of Public Services](#)
 - [Directorate General of Human Resources Management](#)
 - [Directorate of Planning and Management](#)
 - [Directorate of Human Resources](#)
- [Department for Parliamentary Control](#)
- [Department for Legislative Work](#)
- [Department of Internal Auditing](#)

About: [Ministry of Administrative Reform and e-Governance](#)

An Entity of Type : [Ministry](#),

References Referenced By

- | | |
|-------------------|--|
| type | ▪ http://org.testproject.eu/mareg/def/orgunit/Ministry |
| alternative label | ▪ mareg |
| preferred label | ▪ Ministry of Administrative Reform and e-Governance
▪ Υπουργείο Διοικητικής Μεταρρύθμισης και Ηλεκτρονικής Διακυβέρνησης |
| classification | ▪ http://spcdata.digitpa.gov.it/CategoriaAmministrazione/30 |
| hasUnit | ▪ Office of the Deputy Minister for Administrative Reform and e-governance
▪ Department for Parliamentary Control
▪ Department for Legislative Work
▪ Department of Internal Auditing |



Plant protection products

ec.europa.eu/dgs/health_consumer/information_systems/index_en.htm

Legal notice | Contact | Search English (en)

HEALTH AND CONSUMERS

European Commission

European Commission > DGs > Health and Consumers > Information systems

HOME
ABOUT US
CONSULTATIONS
FUNDING
INFORMATION SOURCES
EVENTS
PRESS ROOM

Commissioner Borg

Health and consumers related agencies

- » European Food Safety Authority
- » European Medicines Agency
- » European Centre for Disease Prevention and Control

DG SANCO Data Inventory

The SANCO data inventory is being compiled to enable the dissemination, reuse and linking of publicly available sources of information and data within the policy domain of DG SANCO in a relevant, flexible, useful, accessible and cost effective way by using semantic web technology. The main benefits of exposing data semantically are: (a) the capacity to link information; (b) the automatic guaranteeing of the consistency of linked data.

The use of semantic technology is within the context of the Open Data Portal (ODP) project, which is a key element of the open government Commission initiative that addresses the publication of open datasets (not subject to restrictions of any kind) as well as metadata. The project focuses on the creation of an online catalog of datasets.

Each data item, instance or variable will be used in various taxonomies, e.g. eurovoc.europa.eu, joinup.europa.eu

SEMANTIC COMMUNITY

About: <http://health.testproject.eu/ppp/HU/id/Company/Syngenta-CH--Syngenta-Kft-HU->
An Entity of Type : [RegisteredOrganization](#),

References Referenced By

companyName
type

- Syngenta (CH) < Syngenta Kft. (HU) >
- <http://www.w3.org/TR/vocab-regorg/RegisteredOrganization>

Raw Data in: [Turtle](#) | [RDF/XML](#)

- » Pesticides
- » Community List of Approved Basic Materials
- » Agricultural and Vegetable Catalogue
- » RASFF Window (Rapid Alert System – Food and Feed)
- » European Community Health Indicators
- » European Union Register on Nutrition and Health Claims (Health Claims)
- » Food Contact Materials

- Describing companies using RegOrg

Core public service vocabulary

*Describe public services "**only once**" using a standard vocabulary, make machine-readable descriptions available to others so that they become **searchable on many** governmental access portals.*



Public Service Information
Provided by the Citizens Information Board



Vlaamse overheid



REPUBLIKA SLOVENIJA
MINISTRSTVO ZA JAVNO UPRAVO



Public services in Europe

Core Public Service Pilot: describe public services only once

Governments use local, regional, and national **access portals** to give businesses, citizens, and public administrations basic information about their public services. Unfortunately, this basic information often duplicated, unsynchronized, and not machine-readable. This fragmentation makes it difficult for citizens, businesses, and public administrations to find the public service that they need. It also leads to public service being re-created in different ways.

The **Core Public Service Vocabulary** allows public services to be described **only once** using a standard, external description, which can be re-used on many other occasions. This is how this can be done using a Linked Data description. This describes the origin of various public services.



About: [Obtaining information and applying for a real estate licence to startup a real estate agency in Malta](#)

An Entity of Type : [PublicService](#),

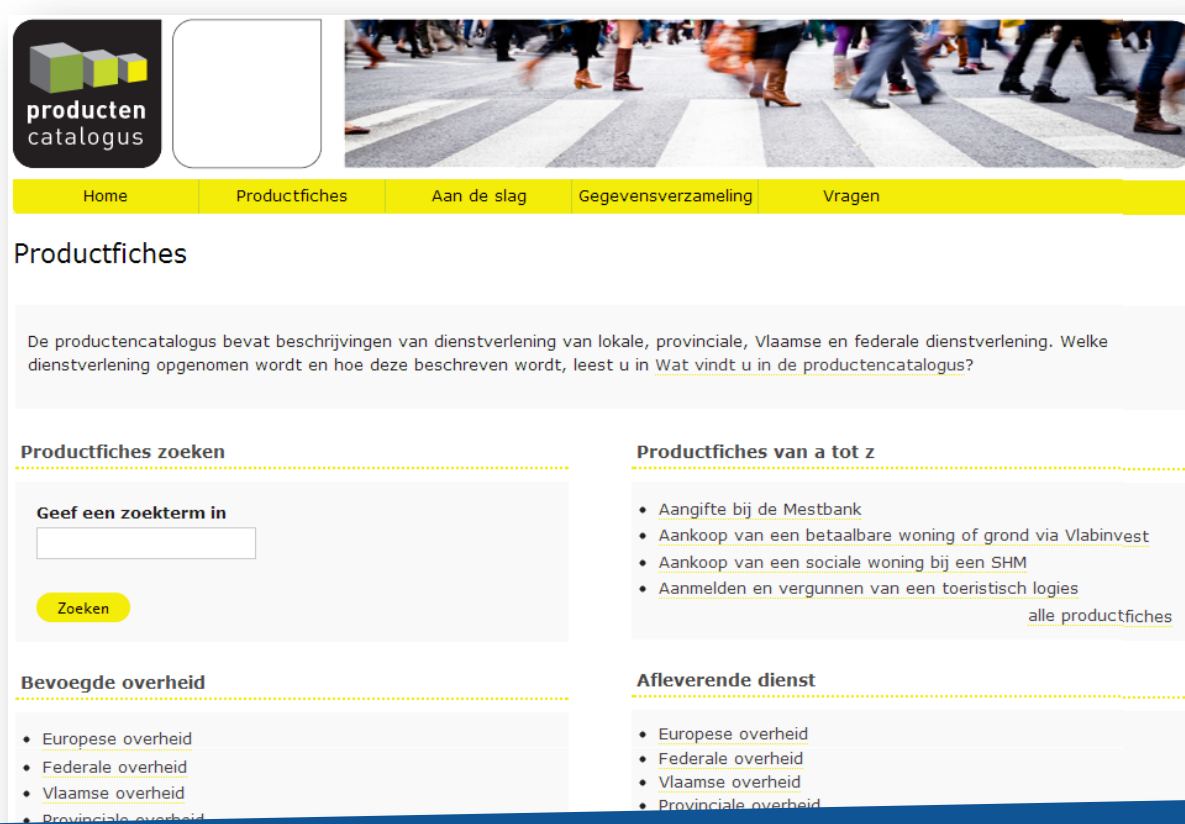
References Referenced By

Sample public service

From the [SPOCS large-scale pilot](#)
<http://cpsv.testproject.eu/id/mlt/>
<http://cpsv.testproject.eu/id/mlt/>
<http://cpsv.testproject.eu/id/ltu/>
<http://cpsv.testproject.eu/id/prt/>
<http://cpsv.testproject.eu/id/prt/>

- Spatial Coverage
 - Malta
- Title
 - Obtaining information and applying for a real estate licence to startup a real estate agency in Malta
- cpsv:follows
 - Real Estate Agency Rules
- cpsv:hasInput
 - <http://cpsv.testproject.eu/id/mlt/Input/Fee>
 - Application to register a commercial activity
 - Employment engagement form
 - Two passport size photos of applicant
 - Copy of ID card
 - Competence certificate/document
- cpsv:produces
 - Real Estate Agency Licence
- type
 - Public Service
- keyword
 - real estate
 - licence
 - property

Flemish Intergovernmental Product and service catalogue (IPDC)



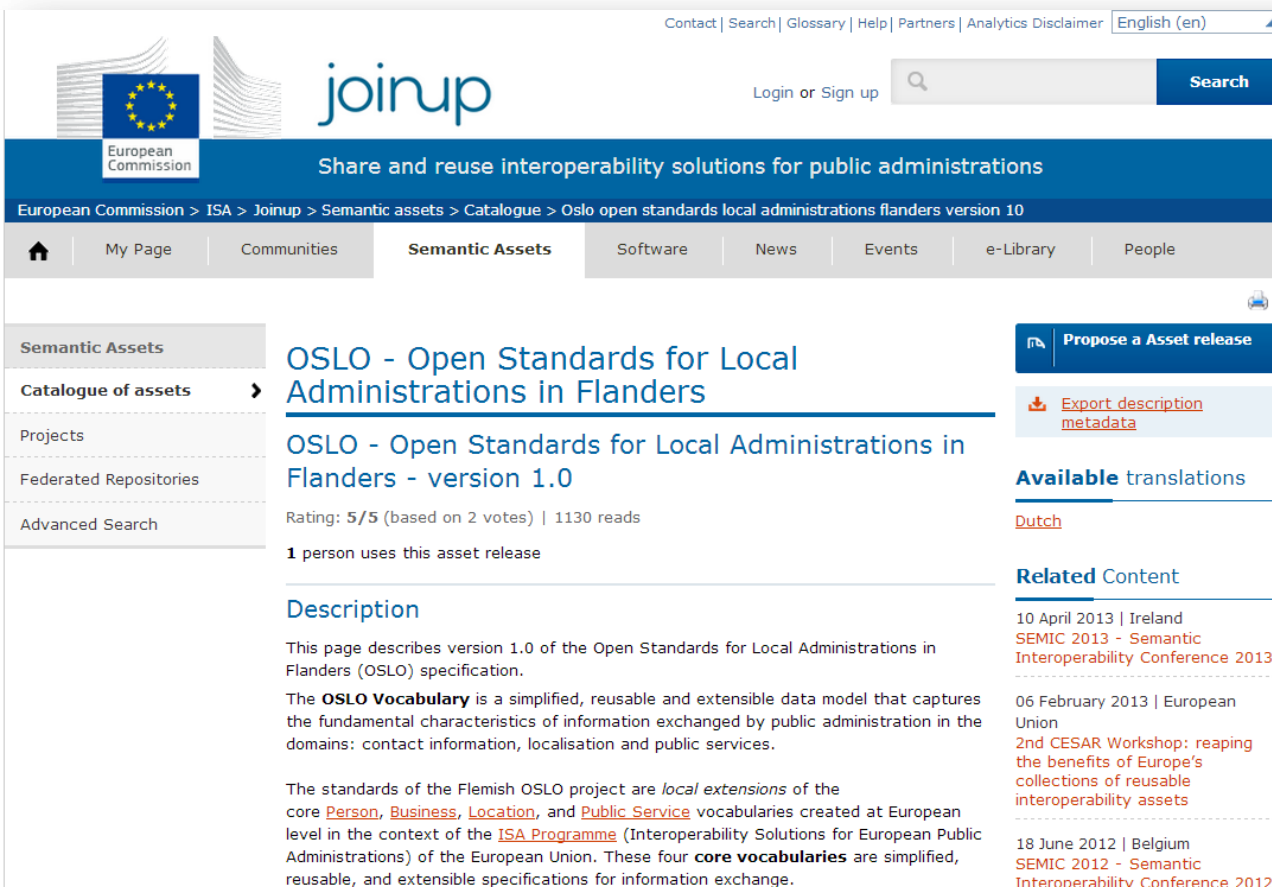
The screenshot shows the IPDC website interface. At the top left is the 'producten catalogus' logo. Below it is a navigation bar with links: Home, Productfiches, Aan de slag, Gegevensverzameling, and Vragen. The main content area is titled 'Productfiches' and contains a paragraph: 'De productencatalogus bevat beschrijvingen van dienstverlening van lokale, provinciale, Vlaamse en federale dienstverlening. Welke dienstverlening opgenomen wordt en hoe deze beschreven wordt, leest u in [Wat vindt u in de productencatalogus?](#)' Below this are three sections: 'Productfiches zoeken' with a search box and a 'Zoeken' button; 'Productfiches van a tot z' with a list of services: 'Aangifte bij de Mestbank', 'Aankoop van een betaalbare woning of grond via Vlabinvest', 'Aankoop van een sociale woning bij een SHM', and 'Aanmelden en vergunnen van een toeristisch logies', followed by a link 'alle productfiches'; and 'Aflleverende dienst' with a list of authorities: 'Europese overheid', 'Federale overheid', 'Vlaamse overheid', and 'Provinciale overheid'.

Exchange of service catalogue data between national, regional, and local governments.

REST web service that returns XML. **XSLT** to convert into Core Public Service.

Project manager: Katrien De Smet, CORVE (present at SEMIC 2013!)

OSLO: Open Standards for Local Administrations



Contact | Search | Glossary | Help | Partners | Analytics Disclaimer | English (en)

joinup

Login or Sign up

Search

European Commission

Share and reuse interoperability solutions for public administrations

European Commission > ISA > Joinup > Semantic assets > Catalogue > Oslo open standards local administrations flanders version 10

Home | My Page | Communities | **Semantic Assets** | Software | News | Events | e-Library | People

Semantic Assets

Catalogue of assets

Projects

Federated Repositories

Advanced Search

OSLO - Open Standards for Local Administrations in Flanders

OSLO - Open Standards for Local Administrations in Flanders - version 1.0

Rating: 5/5 (based on 2 votes) | 1130 reads

1 person uses this asset release

Description

This page describes version 1.0 of the Open Standards for Local Administrations in Flanders (OSLO) specification.

The **OSLO Vocabulary** is a simplified, reusable and extensible data model that captures the fundamental characteristics of information exchanged by public administration in the domains: contact information, localisation and public services.

The standards of the Flemish OSLO project are *local extensions* of the core [Person](#), [Business](#), [Location](#), and [Public Service](#) vocabularies created at European level in the context of the [ISA Programme](#) (Interoperability Solutions for European Public Administrations) of the European Union. These four **core vocabularies** are simplified, reusable, and extensible specifications for information exchange.

Propose a Asset release

[Export description metadata](#)

Available translations

[Dutch](#)

Related Content

10 April 2013 | Ireland
[SEMIC 2013 - Semantic Interoperability Conference 2013](#)

06 February 2013 | European Union
[2nd CESAR Workshop: reaping the benefits of Europe's collections of reusable interoperability assets](#)

18 June 2012 | Belgium
[SEMIC 2012 - Semantic Interoperability Conference 2012](#)

• *Putting the core vocabularies into a local context.*

• *Local administrations need locally enriched data models and data.*



OpenCorporates: basic company data for everyone

opencorporates

The Open Database Of
The Corporate World

We have information on
54,696,621 companies

search companies search officers

Filter by jurisdiction

1,297	Abu Dhabi (UAE)
109,967	Alaska (US)
40,155	Albania
779,083	Arizona (US)
44,723	Aruba
64,079	Bahrain
30,129	Barbados
43,612	Bermuda

*Machine-readable data:
(URI, legal identifier,
name, company type, activities)*

*Links back to
the base
registers*

Conclusions

- *The core vocabularies are used in many different contexts.*
- *They can easily be extended and integrated with other vocabularies.*
- *They can be adapted to your needs and context.*
- *They can be used both in an XML and an RDF world.*

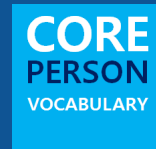
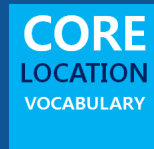
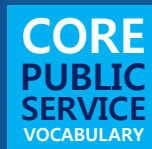
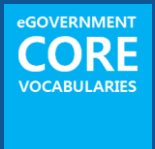
Project Officers:

Vassilios.Peristeras@ec.europa.eu

Szabolcs.Szekacs@ec.europa.eu

Contractor: Stijn.Goedertier@pwc.be

Visit our initiatives



Get involved



Follow [@SEMICEu](#) on Twitter



Join [SEMIC](#) group on LinkedIn



Join SEMIC community on Joinup