European
Commission

"Now! ... *That* should clear up
a few things around here!"

Core Vocabularies

Hague, 6 Nov. 2014
Vassilios.Peristeras@ec.europa.eu

ISA

ISA Core Vocabularies

Pilots
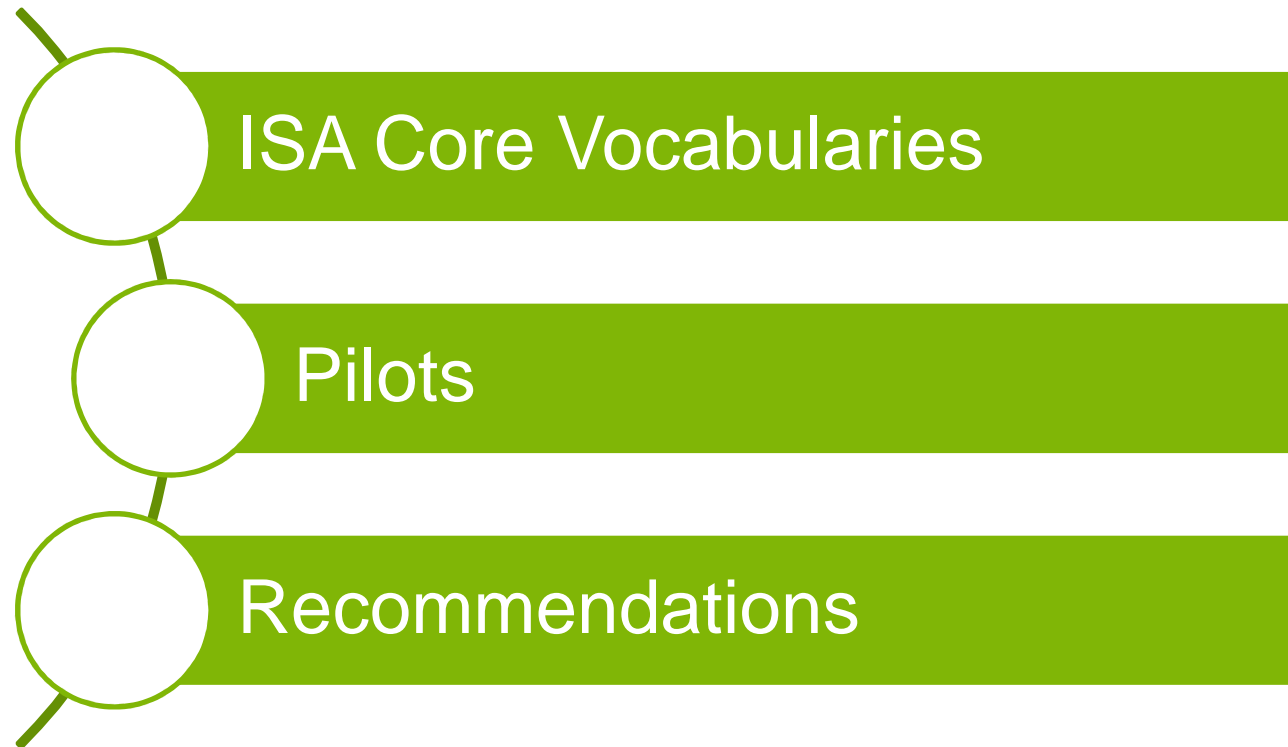
Recommendations

"...What has been discovered over the years is that there are a number of (information) structures that are universal and applicable to all kinds of organizations, both private and public. There are four fundamental categories: People and Organizations, Geography, Physical Resources and Activities and Events"

David Hay, Describing the World: Data Patterns

European Commission

Core vocabularies

Simplified, generic, re-usable and extensible data models that capture the fundamental characteristics of a data entity in a context-neutral and syntax-neutral fashion.
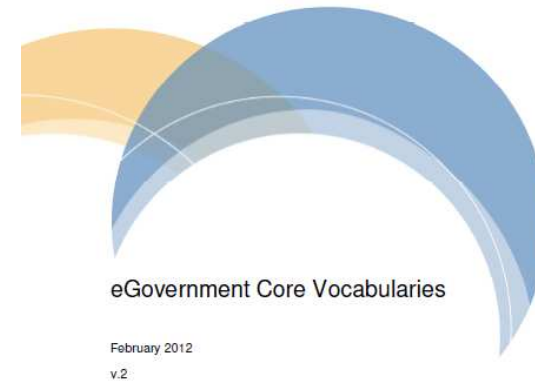
eGovernment Core Vocabularies

February 2012

v.2

isa
Interoperability Solutions
for European Public Administrations

D3.1 – PROCESS AND METHODOLOGY FOR CORE VOCABULARIES

Deliverable

isa
Interoperability
for European Pu

CORE PUBLIC SERVICE VOCABULARY

CORE PERSON VOCABULARY

CORE BUSINESS VOCABULARY

CORE LOCATION VOCABULARY

DCAT APPLICATION PROFILE FOR EUROPEAN DATA PORTALS

Core Vocabularies

European

Core Vocabularies Working Group

W3C methodology

Multi disciplinary
working group

67 people

21 Member States and the US, South Africa and Croatia

+
EU institutions

Standardization bodies

External experts/academia

CORE LOCATION VOCABULARY
Core Location TF: chaired by EC Joint Research Centre/H6 (INSPIRE Directive)

CORE BUSINESS VOCABULARY
Core Business TF: chaired by DG MARKT (European Business Registry project)

CORE PERSON VOCABULARY
Core Person TF: chaired by EUROJUST

European Commission

Core Vocabularies are available through the Joinup.eu platform

Core Vocabularies have been endorsed by the MSs in the context of the ISA Coordination Group

Open License

ISA Open Metadata License v1.1

https://joinup.ec.europa.eu/category/licence/isa-open-metadata-licence-v11

eGOVERNMENT **CORE** VOCABULARIES

CORE PUBLIC SERVICE VOCABULARY

CORE LOCATION VOCABULARY

CORE BUSINESS VOCABULARY

CORE PERSON VOCABULARY

W3C Working Group Note

W3C®

**Core Business Vocabulary
W3C Note**
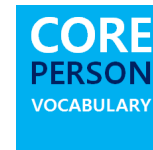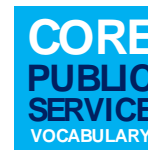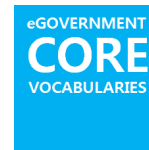
Registered Organization Vocabulary

W3C Working Group Note 28 May 2013

This version:
http://www.w3.org/TR/2013/NOTE-vocab-regorg-20130528/
Latest published version:
http://www.w3.org/TR/vocab-regorg/
Previous version:
http://www.w3.org/TR/2013/WD-vocab-regorg-20130108/
Editors:
Phil Archer, W3C / ERCIM
Marios Meimaris , National Technical University of Athens (Invited Expert) (from 1 March 2013)
Agisilaos Papantoniou , National Technical University of Athens (Invited Expert) (until 28 Feb 2013)

The vocabulary defined in this document is also available in these non-normative formats: RDF/XML and Turtle.
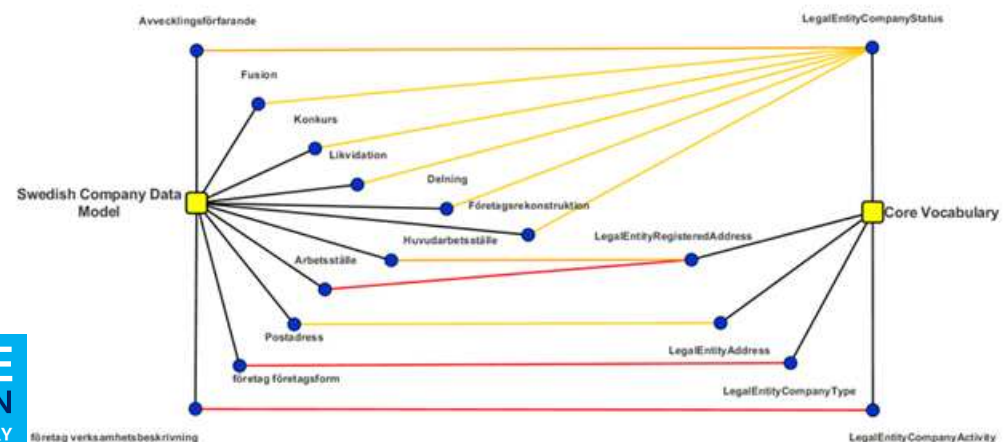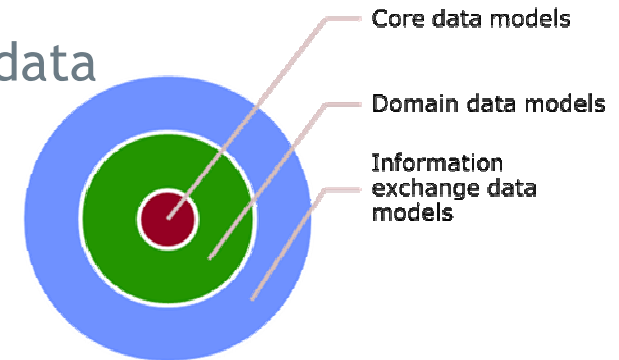
Abstract

The Registered Organization Vocabulary is a profile of the Organization Ontology for describing organizations that ha⋯ a national or regional register.

Value

Core data models

Domain data models

Information exchange data models

- New systems: As default starting points for data modeling

- Existing systems:

  - As reference or "bridge" data models for integration and information sharing

  - As export specifications for publishing open data

eGOVERNMENT **CORE** VOCABULARIES **CORE** PUBLIC **SERVICE** VOCABULARY **CORE** LOCATION VOCABULARY **CORE** BUSINESS VOCABULARY **CORE** PERSON VOCABULARY

1) Interconnecting Belgian address data using the Core Location Vocabulary

- In collaboration with AGIV, CIRB, bpost, FEDICT, SPW, NGI /IGN and EC INSPIRE team.
- Pilot available at: http://location.testproject.eu/BEL/

2) Linking national plant protection products registers

In collaboration with DG SANCO and agencies from 8 Member States, i.e. Austria, Belgium, Germany, Greece, Hungary, Poland, The Netherlands and Sweden.

- Pilot available at: http://health.tesproject.eu/PPP/
- using the Registered Organization Vocabulary

European
Commission

3) Publishing organisational data as Linked Open Government Data

- In collaboration with the Greek Ministry of Administrative Reform and e-Government and Agenzia per l'Italia Digitale.
- Pilot available at: http://org.testproject.eu/MAREG/

4) Reusable public service descriptions using the Core Public Service Vocabulary

- In collaboration with SPOCS and e-CODEX large scale pilots, Flemish Intergovernmental Product and Service Catalogue and DERI, National University of Ireland, Galway.
- Pilot available at: http://cpsv.testproject.eu/CPSV/

European Commission

5) Interconnecting maritime surveillance data using the Core Location and the Registered Organization Vocabularies

In collaboration with DG MARE, EMSA and the Spanish Armada.

- Pilot available at: http://maritime.testproject.eu/CISE/ (under development)

1) The Flemish Local Authority Association has used all Core Vocabularies and has created an extension to cover local authorities needs

2) eIDAS develops minimum set of identification data for legal and natural persons based on the ISA core vocabularies

Develop a national catalogue of core data standards (I)

1. Identify highly reusable information entities which remain relevant across different government domain

   - *Examples from DK, USA, DE, JP: person, business, locations*

   - *Rule of thumb: this data is stored in base registries*

2. Model this information to create generic data models and define reference data values. Use standard modeling approaches (e.g. UML, XML, RDF) and reuse existing content standards whenever possible (e.g. ISA Core Vocabularies, UBL)

   - *Example: the OSLO data standard for local authorities*

3. Develop and maintain a library of these core data standards. Promote this library as an authoritative source of core data elements (objects, properties, values)

   - *Examples: Germany-KOSIT, USA-NIEM, Japan-Core Vocabularies*

Develop a national catalogue of core data standards (I)

4. Develop tools to a) allow easy reuse of the models published in the library, b) validate compliance with the core library

   - Examples: Germany-KOSIT, USA-NIEM

5. Provide space for organic growth of domain specific libraries around the core library. Allow domain-specific communities to contribute and share their (core library-compliant) models.

   - Examples: Germany-KOSIT, USA-NIEM

6. Document your data models using ADMS and make descriptions available on the web. Joinup federates this content.

   - Examples: 23 repositories already have used ADMS to describe their assets including Germany - Xrepository, Estonia - RIHA, the Netherlands - Dutch Standardisation Forum, Belgium - Belgian Interoperability Catalogue, Denmark - Digitalisér.dk.

7. Develop a national government metadata and standards policy (e.g. "comply or explain")

Wed 12 November 2014 – 10 a.m. CET

WORKSHOP

Core data models for public administrations

@SEMICeu

http://www.semic.eu

- **11 Member States**
- **USA, National Information Exchange Model**
- **Japan, Core Vocabularies**

NL: Mr. Joop Rasser
Mr. Kristian Mul
Mr. Erik Jonker

ISA

European Commission

? **Questions**

vassilios.peristeras@ec.europa.eu

joinup

Visit our initiatives

Get involved

Follow @SEMICeu on Twitter

Join the SEMIC group on LinkedIn

Join the SEMIC community on Joinup

CESAR
COMMUNITY OF EUROPEAN SEMANTIC ASSETS REPOSITORIES

ADMS
ASSET DESCRIPTION METADATA SCHEMA

DCAT
APPLICATION PROFILE FOR EUROPEAN DATA PORTALS

SOFTWARE FORGES COMMUNITY

ADMS. SW

eGOVERNMENT CORE VOCABULARIES

CORE PUBLIC SERVICE VOCABULARY

CORE LOCATION VOCABULARY

CORE BUSINESS VOCABULARY

CORE PERSON VOCABULARY

ISA