Semantic vocabularies, tools for interoperability

The Publications Office of the European Union

Workshop: German credential services to meet SDG

09/09/2020

Summary

■ Who is the Publications Office

■ What platforms do we offer

■ How can the vocabularies be relevant for interoperability

Who is the Publications Office

The Publications Office of the European Union, is an interinstitutional office whose task is to publish the publications of the institutions of the European Union.

Its core activities include production and dissemination of legal and general publications in a variety of paper and electronic formats, managing a range of websites
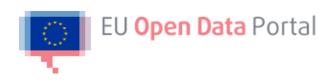
**Publications Office
of the European Union**

https://op.europa.eu

What platforms do we offer

- Catalogue of datasets from the EU institutions and other bodies

- Public procurement notices from the European Union and beyond

- The *Official Journal of the European Union*, EU case law and other resources for EU law

- Information about the results of EU-funded projects

Law | EUR-Lex

EU Publications

Research & Innovation CORDIS

EU Open Data

Business opportunities TED

EU DATATHON 2020

EU Whoiswho

What is behind them

TOOLS &
SYSTEMS

DOMAIN
EXPERTISE

METHODOLOGIES
& PROCEDURES

TRAININGS &
PRESENTATIONS

VOCABULARIES

What are the standard vocabularies published by the Publications Office

Authority tables

In order to harmonise and standardise the codes and the associated labels used in the Publications Office and on interinstitutional level in the conte...

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Country names, languages, licences, time periods, learning activities, learning schedules, learning opportunities, learning settings

Thesauri

A thesaurus is a controlled and structured vocabulary where concepts are represented by labels. In the context of the EU Vocabularies, a thesaurus is a ...

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EuroVoc,
DET (Digital Europa Thesaurus)

Taxonomies

A taxonomy is a set of controlled vocabulary terms organised into a hierarchical structure. Each term in a taxonomy is in one or more parent/child relationship to other ...

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EuroSciVoc - Europen Science Vocabulary,
NUTS - Nomenclature of Territorial Units for Statistics,
CPV – Common Procurement Vocabulary,

EuroVoc <> **Wikidata**
EuroVoc <> **Rameau**
EuroVoc <> **UNESCO**
EuroVoc <> **INSPIRE**
EuroVoc <> **Agrovoc**

Alignments

Alignments are common in database interoperability projects and tasks however, from the perspective of the semantic web we are referring to ontology alignments when a variab...

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Subject matter collections

⚙ **Business collections**

AKN4EU

BITS (Book Interchange Tag Suite)

CDM (Common Data Model)

Core Vocabularies

DCAT-AP for data portals in Europe

Digital Europa Thesaurus (DET)

ELI (European Legislation Identifier)

eProcurement

Europass

EuroSciVoc

Formex

IMMC Core metadata exchange protocol

OJEEP (Official Journal Electronic Exchange Protocol)

OP Core metadata element set

OP data structures and standards

Europass Vocabularies

Accreditation	Encoding	Learning opportunity
Assessment	Entitlement	Learning schedule
Communication channel	Entitlement status	Learning setting
Communication channel usage	Learning activity	Target group
Credential	Learning and verification	Verification
Education credit	Learning assessment	Verification status

What makes them special …

They are multilingual

They are big

They are connected

They are managed

What is the experience we offer

Produce and publish more than 100 multilingual vocabularies

Use and facilitate the collaborative management and editing of controlled vocabularies and metadata

Engage with and meet the needs of the semantic web and Linked Open Data requirements

Use and promote the use of controlled vocabularies and metadata on all available channels

Promote and support interoperability

Semantic web, technologies and standards
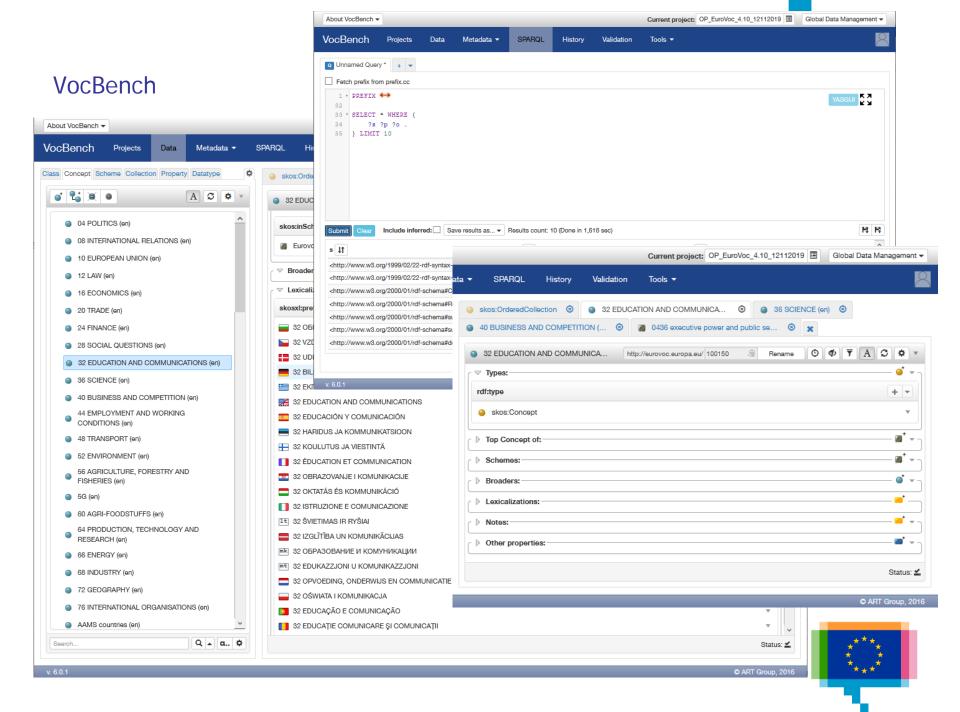
Resource Description Framework (RDF)

OWL Web Ontology Language

Terse RDF Triple Language

SKOS Simple Knowledge Organization System

VocBench

HOW ARE THE VOCABULARIES RELEVANT FROM AN INTEROPERABILITY PERSPECTIVE

Benefits

- Use of standardized vocabularies to make data exchange easier
  - *Have your documents organised using a vocabulary like EuroVoc*

- Use of multilingual vocabularies to provide easier access for international students and exchange of information with other international entities
  - *Your applications are instantly multilingual*
  - *Your documents can be easily translated*

- Reduce the effort to manage the content associated with your applications
  - *No worries related with updating lists and menus*

How we can help

	VocBench	Collaborative environment for editing semantic content
	CELLAR	One of the largest semantic repositories around
	PMKI	A new interoperability solution targeting public administration and businesses
	Open Data Portal	The gateway to make your datasets known and share them freely
	Knowledge	EU Vocabularies team is open to discuss the various use cases

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THANK YOU

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