About The COAR-IG Controlled Vocabularies And The Webinar Series

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Jochen Schirrwagen, Bielefeld University Library, Germany

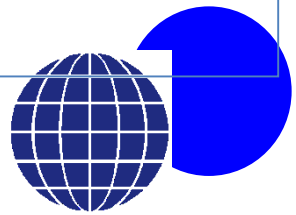
Agenda

- About COAR and the COAR-IG „Controlled Vocabularies“
- Our methodology and collaborative tools
- The Resource Type vocabulary
- About the webinar programme and workshop events

COAR At A GLANCE

"COAR aims to facilitate the vision by bringing together research repositories as part of a global infrastructure; to link across continents and around the world, enabling new forms of research and supporting new models of scholarly communication."

- Since 2009
- > 100 member organizations worldwide
- Major activities
  - Alignment / Interoperability of Repository Networks
  - Next Generation Repositories
  - Open Science / RDM
  - Capacity building



About the COAR Interest Group "Controlled Vocabularies" and Editorial Board

- Set up in 2014 by COAR members and external experts
- Editorial Board formed by volunteering IG members
  - Monitoring the vocabulary landscape
  - Discussion of use cases and best practices
  - Definition / maintenance of a set of controlled vocabularies
  - Outreach and collaboration with repository developer community

Motivation & Challenges regarding Controlled Vocabularies in Repository Metadata

- Aimed for improving quality and consistency of metadata
  - To capture & tame the proliferation of heterogeneous terms & standards

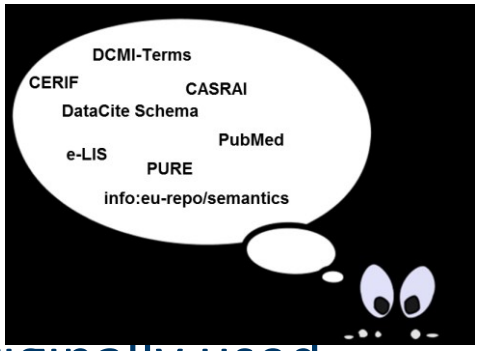
Challenge	Approach
International context • but regional distinctions • E.g. by language, communities	Consideration of • Multilinguality • Terms may have limited scope
Numerous vocabulary/ontology initiatives referring to the same/similar thing	Support of of linking, mapping, crosswalking
Interoperability	Adoption of modern (web) standards to describe vocabularies

About the COAR Interest Group "Controlled Vocabularies" and Editorial Board

- Starting point: the info:eu-repo application profile
- Focus on:
  - ***Resource*** (publication) ***types***
  - ***Access rights***
  - ***Document version types***
  - ***Date types*** (incl. dates to express embargo periods)
- To consider as recommendations
  - ***Authority Files for Funder (or Organizations) and GrantIds***
  - ***LOC Identifier Vocabulary*** to express resource identifier schemes
  - ***Authority Files for Author and Contributor IDs***
  - ***LOC Classification scheme vocabulary***
  - ***Rights and License statements (like creative commons, rightsstatements.org)***

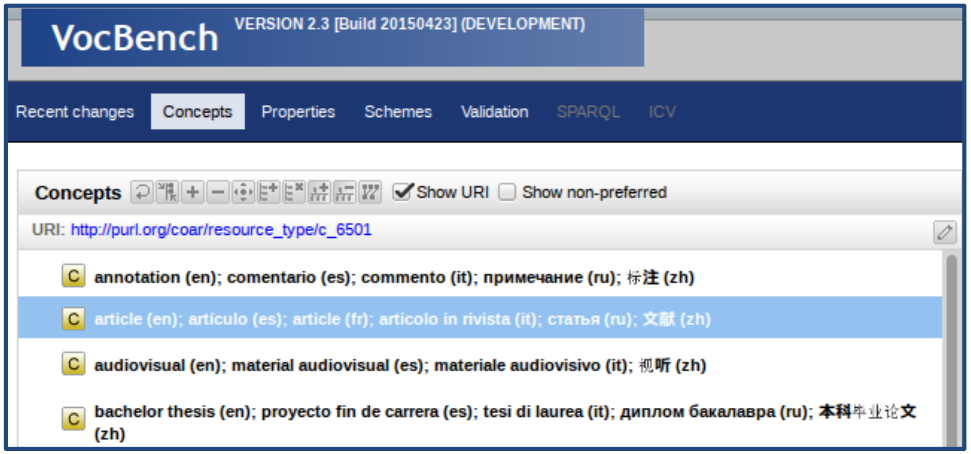
Methodological Approach

- Revision of vocabularies and terms from “info:eu-repo”
- Comparison (and matching) with other established vocabularies and dictionaries
- Statistical analysis about terms used in repository metadata
- Workflow controlled and web-based editorial process by help of VocBench (originally used for Agrovoc)

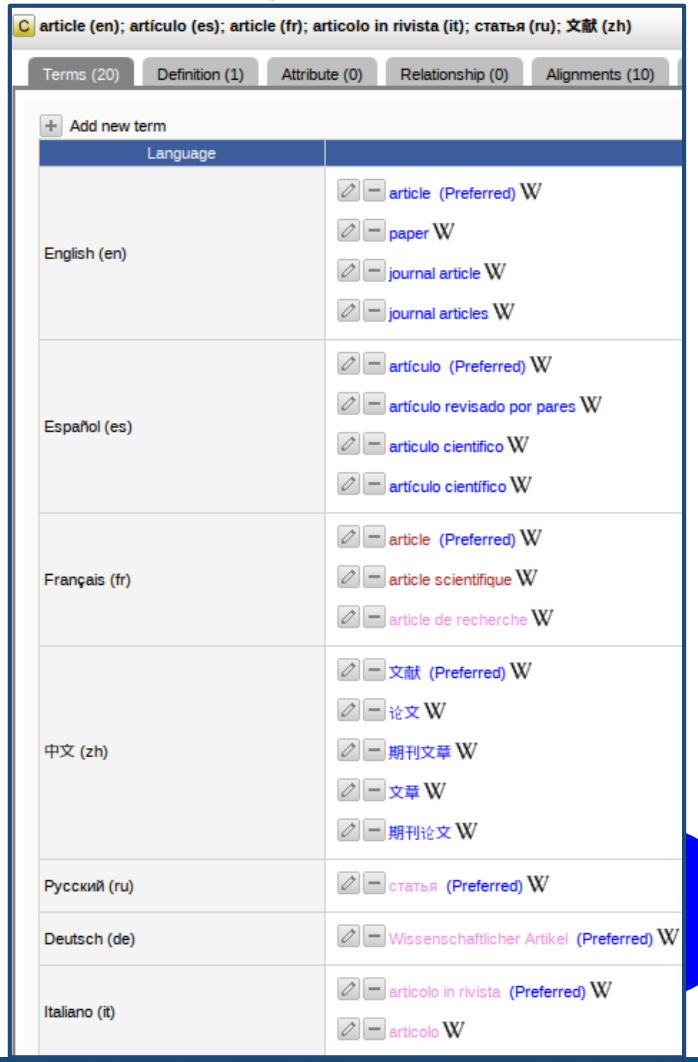


VocBench: Vocabulary Editing and Workflow Tool

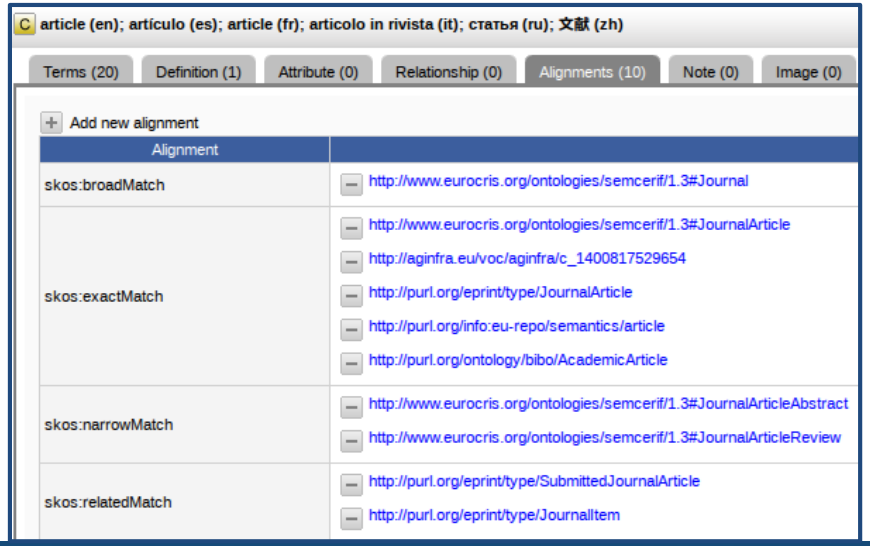
Concept



Multilingual Labels



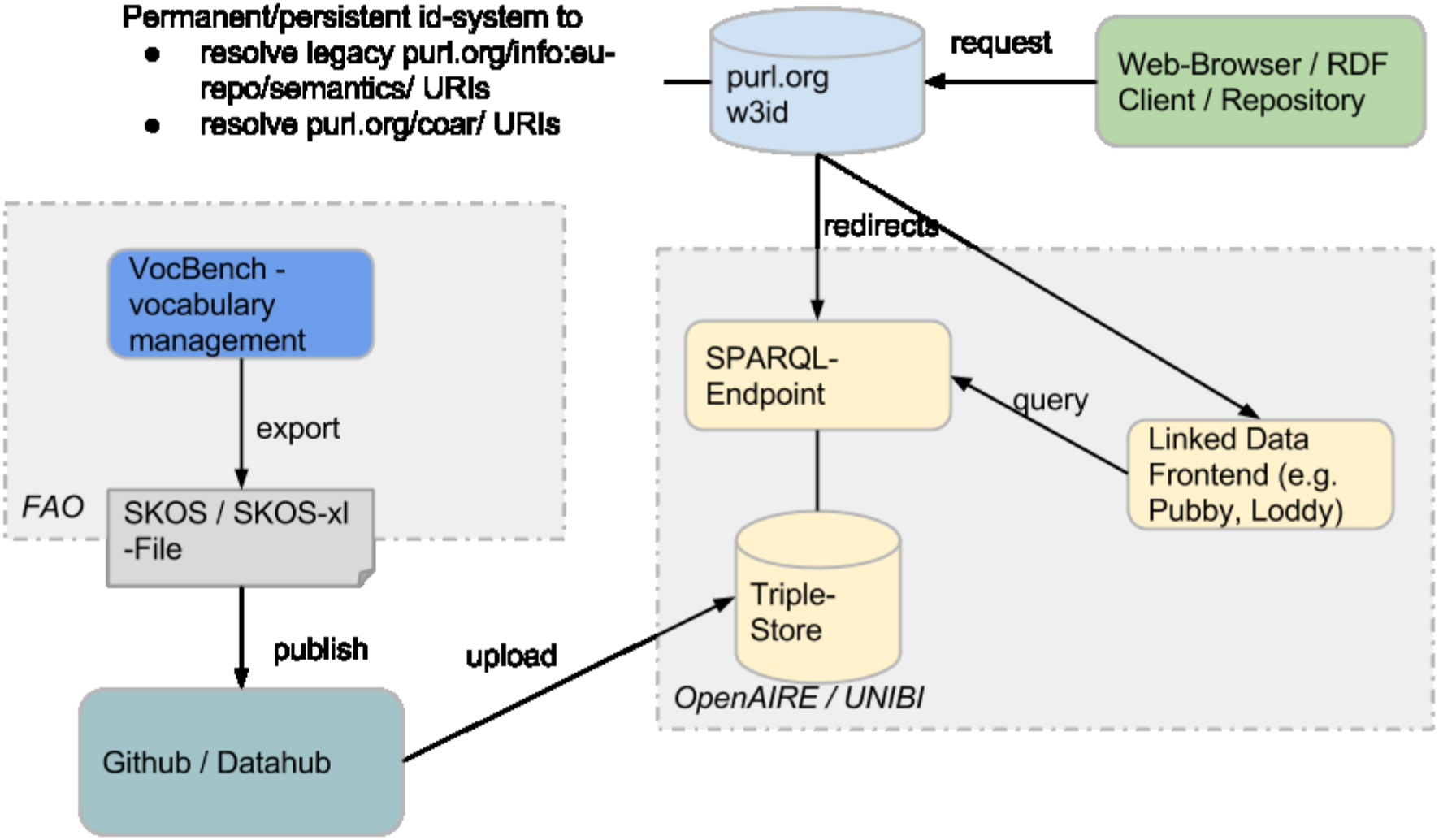
Mappings



Implementation

Permanent/persistent id-system to

- resolve legacy purl.org/info:eu-repo/semantics/ URIs
- resolve purl.org/coar/ URIs



Linked Data Frontend

Serving Humans …

http://purl.org/coar/resource_type/c_8042

working paper

Concept URI

Multilingual Labels

Concept Definition

Definition
A working paper or preprint is a report on research that is still on-going or which has not yet been accepted for publication.

Property	Value
rdf:type	skos:Concept
skos:inScheme	http://purl.org/coar/resource_type
skos:broader	http://purl.org/coar/resource_type/c_18cf
skos:exactMatch	http://www.eurocris.org/ontologies/semcerif/1.3#WorkingPaper http://purl.org/eprint/type/WorkingPaper http://purl.org/spar/fabio/WorkingPaper http://purl.org/info:eu-repo/semantics/workingPaper http://aginfra.eu/voc/aginfra/c_1400818040361
skos:broadMatch	http://purl.org/dc/dcmitype/Text http://purl.org/ontology/bibo/Document

Hierarchy and Matches (Mappings)

Property	Value
dcterms:modified	2016-04-09T12:57:26Z
skos:definition	http://purl.org/coar/resource_type/def_d2db

prefLabel	altLabel	Lang
working paper	working or discussion paper discussion paper working papers	en
研究手稿	未发表论文 工作底稿 未發表論文	zh
documento de trabajo	borrador de trabajo	es
working paper	papier de travail pré-publication document de travail préprint	fr
working paper	documento di lavoro	it
Arbeitspapier		de
рабочий документ	рабочий доклад промежуточная рабочая документация рабочий отчёт рабочие материалы проект документа материалы для обсуждения дискуссионная статья	ru

…and Machines

```
@prefix skos: <http://www.w3.org/2004/02/skos/core#> .
@prefix bibo: <http://purl.org/ontology/bibo/> .
@prefix skosxl: <http://www.w3.org/2008/05/skos-xl#> .
@prefix dc: <http://purl.org/dc/terms/> .
@prefix xsd: <http://www.w3.org/2001/XMLSchema#> .

<http://purl.org/coar/resource_type/c_8042> a skos:Concept ;
  skos:definition <http://purl.org/coar/resource_type/def_d2db> ;
  skos:inScheme <http://purl.org/coar/resource_type> ;
  skos:broader <http://purl.org/coar/resource_type/c_18cf> ;
  skos:broadMatch <http://purl.org/dc/dcmitype/Text>, bibo:Document ;
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  dc:modified "2016-04-09T12:57:26Z"^^xsd:dateTime .
```

COAR Resource Type Controlled Vocabulary

- > 50 concepts supported
- Labels available in (currently) 12 languages:
  - English, german, frensh, spanish, catalan, italian, chinese, japanese, russian, portuguese, dutch, turkish
- Concepts are assigned permanent identifiers (URIs)
- Hierarchical structure
- Mappings ('matches') to terms of other controlled vocabularies that mean the same or similar thing
- Published under CC-BY 4.0
- http://vocabularies.coar-repositories.org/documentation/resource_types/

Concepts in the Resource Type Vocabulary v1

- -- text
  - -- annotation
  - -- periodical
    - -- journal
      - -- contribution to journal
        - -- journal article
        - -- editorial
        - -- data paper
        - -- letter to the editor
  - -- bibliography
  - -- book
    - -- book part
  - -- review
    - -- book review
  - -- conference object
    - -- conference proceedings
      - -- conference paper
      - -- conference poster
    - -- conference paper not in proceedings
    - -- conference poster not in proceedings
  - -- lecture
  - -- letter
  - -- patent
  - -- preprint
  - -- report
    - -- report part
    - -- internal report
    - -- memorandum
    - -- other type of report
    - -- policy report
    - -- project deliverable
    - -- report to funding agency
    - -- research report
    - -- technical report
  - -- research proposal
  - -- technical documentation
  - -- working paper
  - -- thesis
    - -- bachelor thesis
    - -- doctoral thesis
    - -- master thesis
  - -- musical notation
- -- image
  - -- moving image
    - -- video
  - -- still image
- -- software
- -- cartographic material
  - -- map
- -- interactive resource
  - -- website
- -- sound
  - -- musical composition
- -- workflow
- -- other
- -- dataset

Adoption By Repositories and in Metadata Guidelines

- EPrints plugin: mapping von EPrints types to COAR Resource Types: http://bazaar.eprints.org/422/ and tested eg. In E-LIS repository
- Included in Classification Server of PHAIDRA: http://vocab.phaidra.org
- Dspace Prototype implementation provided by University of Minho
- Supported in upcoming release of next OpenAIRE Repository Manager Guidelines

About the Series of Webinars

- Proposal to provide online training to the repository community
- For community capacity building
- To discuss issues; exchange best practices
- Scheduled every ~6 weeks

Themes
Introduction / Basics
Good Practices of Vocabulary use in Repositories
Modern Standards and Tools for Controlled Vocabularies
The COAR Resource Type Vocabulary
COAR Vocabularies in Practice – Repository Use Cases
Adoption of COAR Vocabularies in Metadata Guidelines

Workshops on COAR Controlled Vocabularies

- 15-Oct-2016, in conjunction with the DC-2016 conference in Copenhagen, Denmark http://dcevents.dublincore.org/IntConf/index/pages/view/workshop

- 22-Nov-2016, in conjunction with the 10th MTSR conference in Göttingen, Germany http://www.mtsr-conf.org/index.php/programme

Thank You For Your Attention!

About COAR

https://www.coar-repositories.org

office@coar-repositories.org

@coar_ev

About COAR Controlled Vocabularies

http://purl.org/coar/igcv

vocabularies@coar-repositories.org