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ADMS.SW - Asset Description Metadata Schema for Software

Current status and future plans

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Problem: information barriers to the sharing and reuse of software

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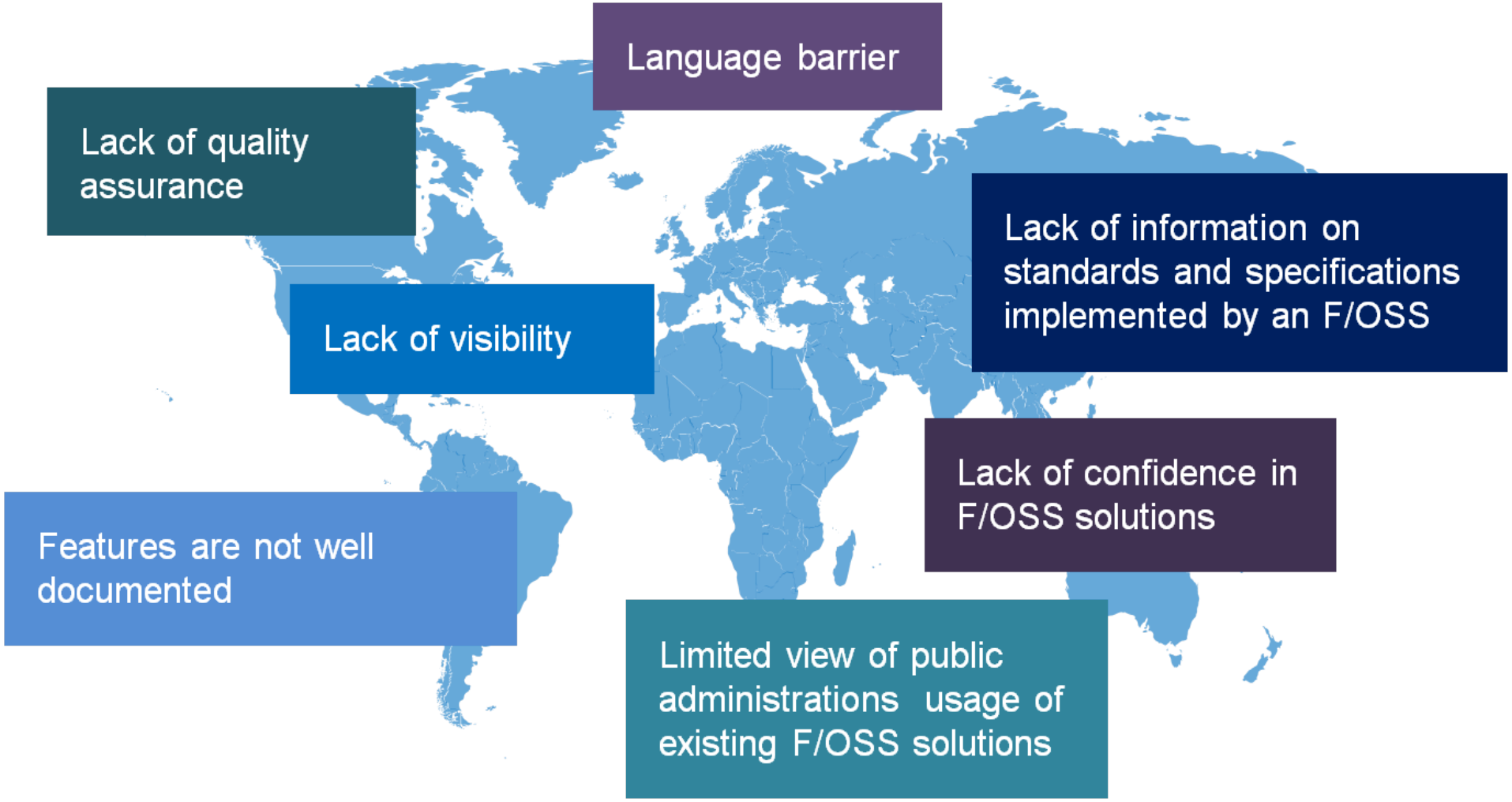
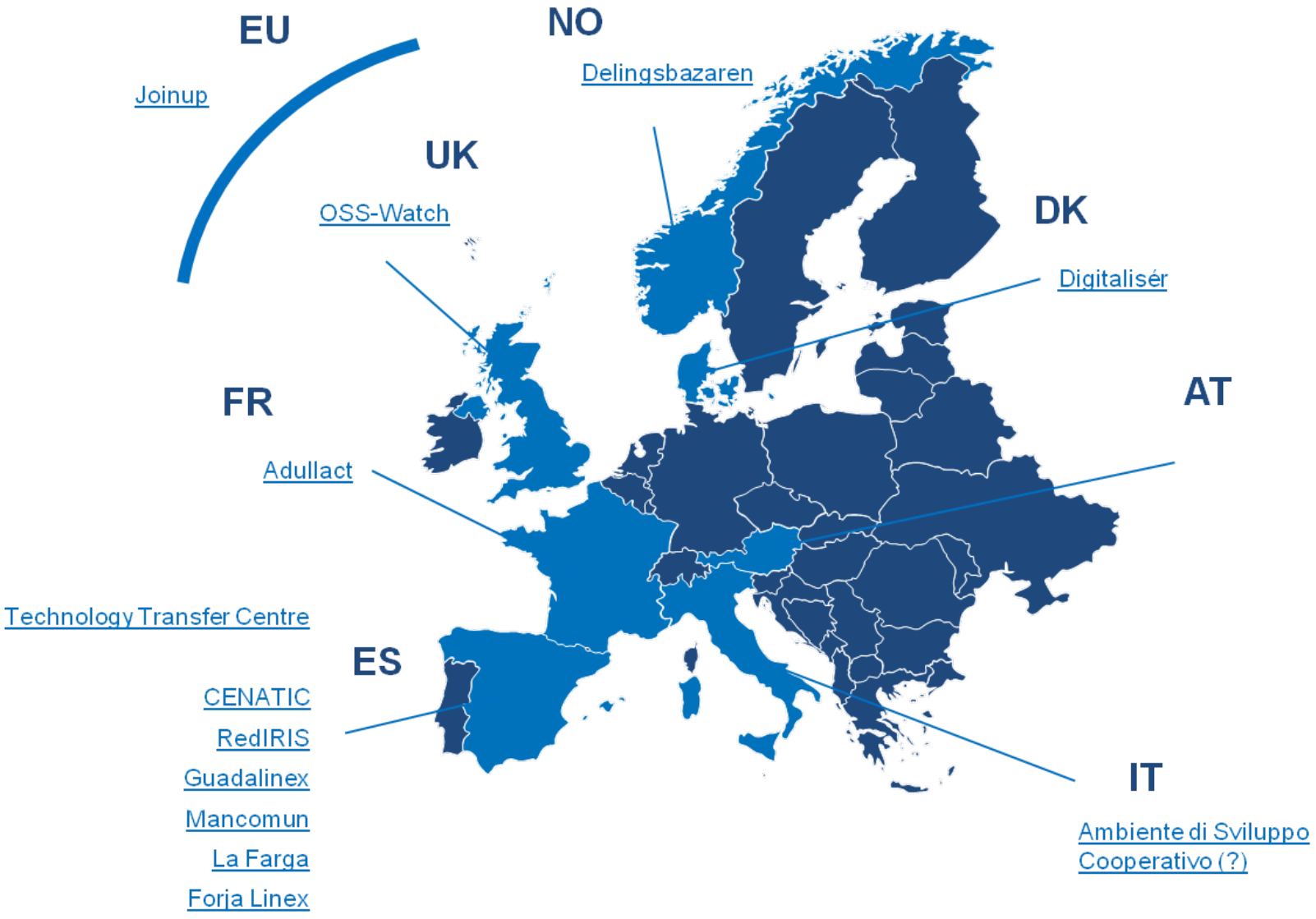
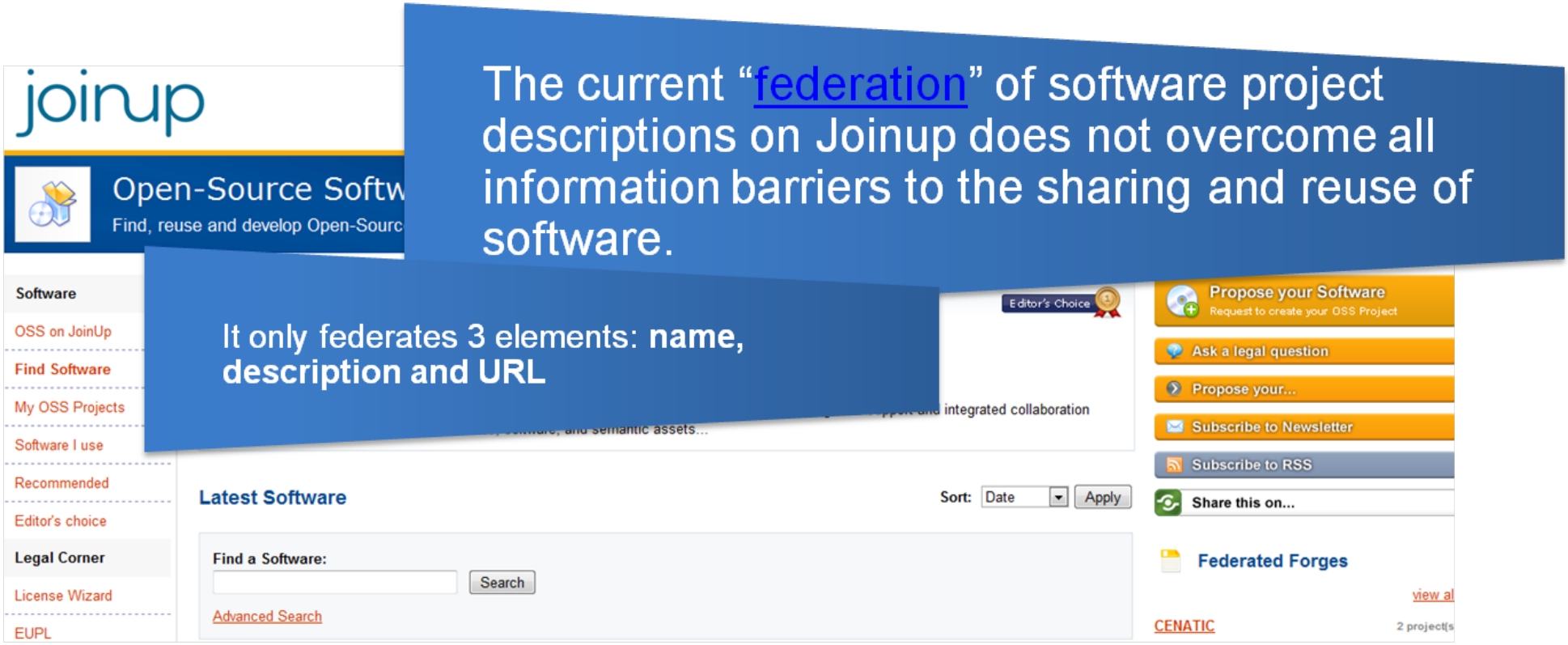


Existing software catalogues and forges in the EU public sector



Federated Forges: explore F/OSS solutions from a single point of access

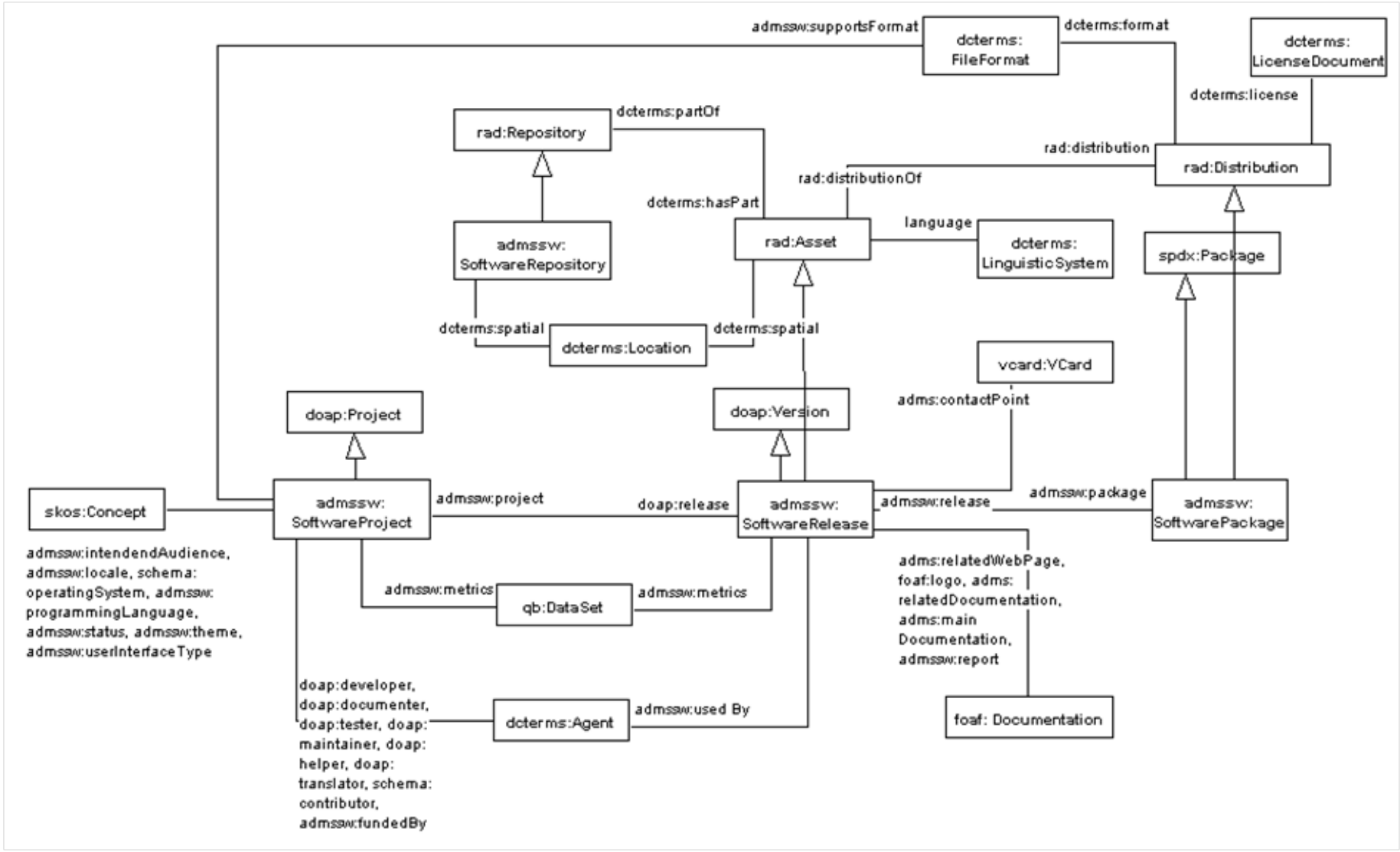


The current "federation" of software project descriptions on Joinup does not overcome all information barriers to the sharing and reuse of software.

It only federates 3 elements: **name, description and URL**

Dependent on a technology that is specific to GForge 4 and FusionForge. Software description metadata from other infrastructures cannot be automatically retrieved

ADMS.SW RDF Vocabulary to describe software projects, releases, and packages



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Reuse of other vocabularies

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ISO 19770-2

Dublin Core Metadata Element Set

W3C RDF Data Cube

SPDX

69% RE-USE

ADMS
ASSET DESCRIPTION METADATA SCHEMA

vCard

DOAP

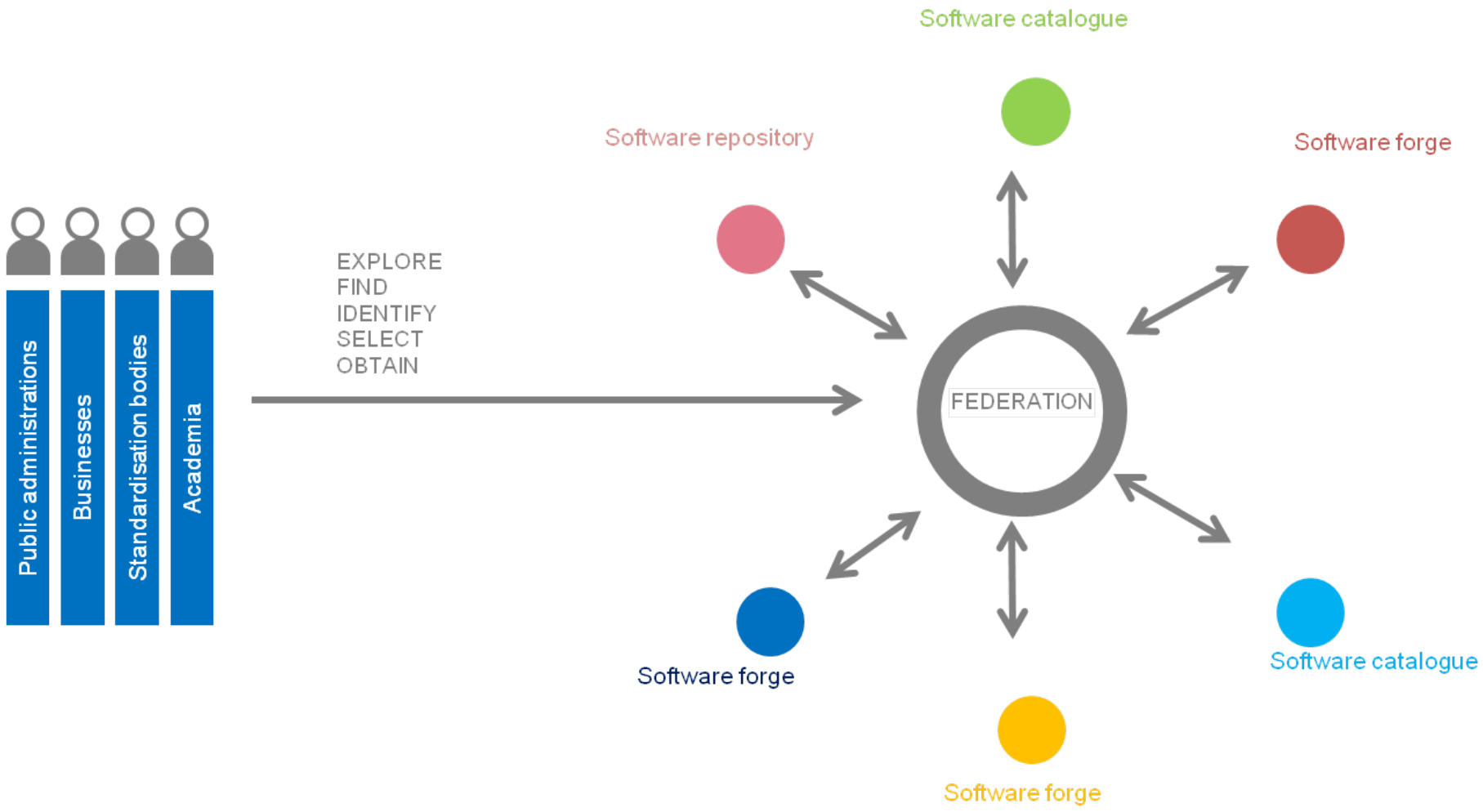
RADion
REPOSITORY ASSET DISTRIBUTION

Trove Software Map

W3C SKOS

FOAF

Building an enhanced, federated catalogue software for e-Government



Advantages

overcome information barriers

Help overcome the information barriers related to the sharing and reuse of interoperability solutions among public administrations

Better search

Allows searching for software from a single point of access

A common specification to describe software assets on the Web will give better visibility, better search, help overcome information barriers and provide a better linking

Better visibility

Increased and equal visibility, independent of the hosting location.

Better linking

Build and explore semantic networks of people, free and open software, and open standards

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Part of a bigger solution

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1 The provision of legal advice related to the sharing and reuse of software

2 The creation of procurement policies, regulations, guidelines, and processes to support the procurement of software

The maintenance of a software catalogue for public administration system development is not an isolated measure. Policy makers and public administrations need to continue to invest in a combination of measures:

3 Guidance with the effective support of a community of developers and users.

4 The construction and maintenance of a catalogue of open-standards and a software catalogue for public administration system development;

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Who is involved?

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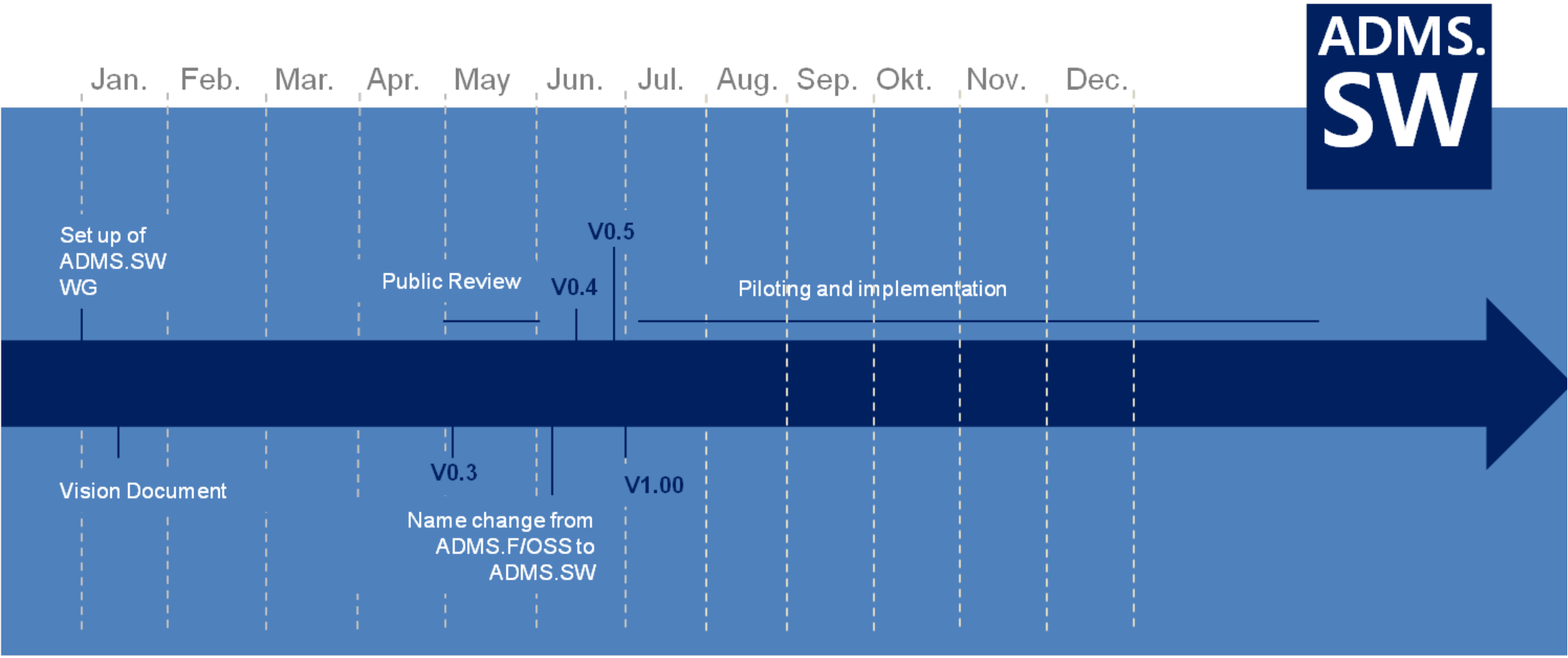
ADMS.SW Milestones



Known implementations

Google Refine RDF Template for ADMS.SW

ADMS.SW plugin for FusionForge

ADMS.SW export for the Debian Package Tracking System

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Future plans

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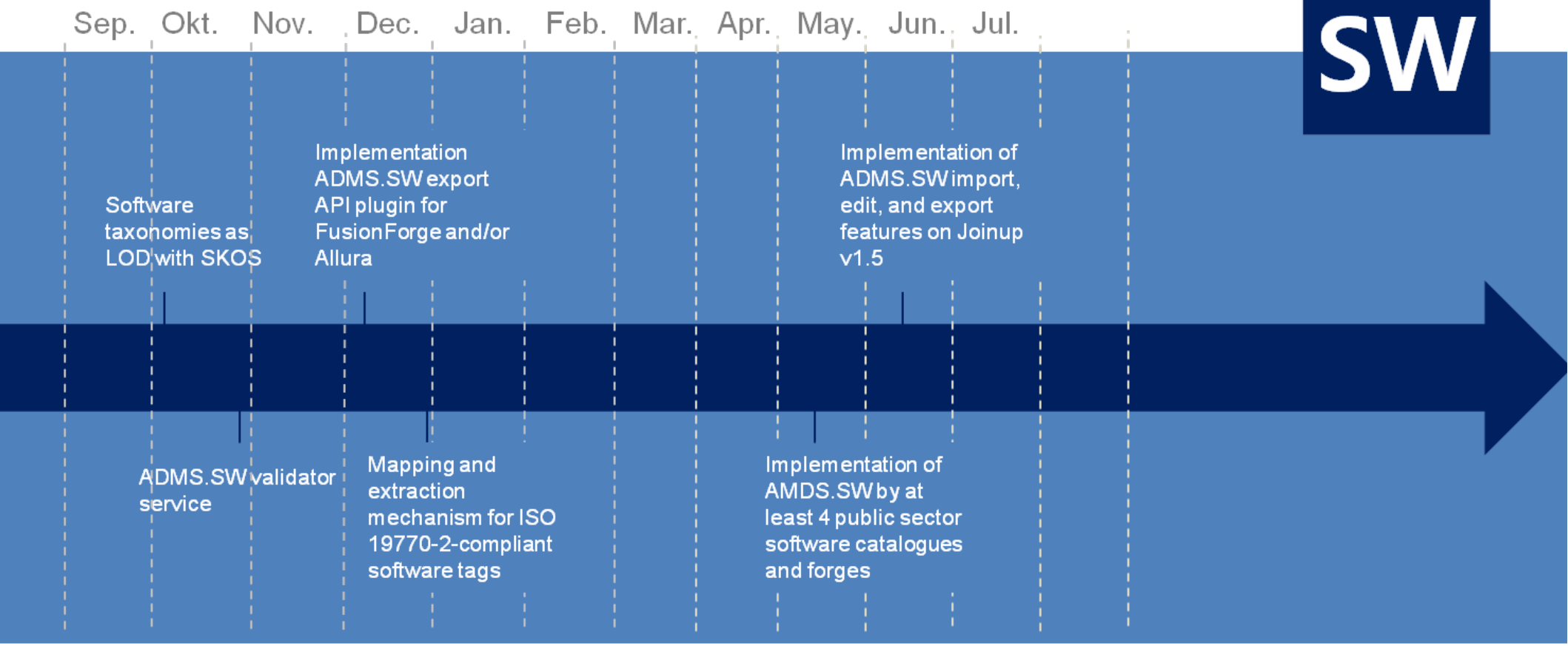
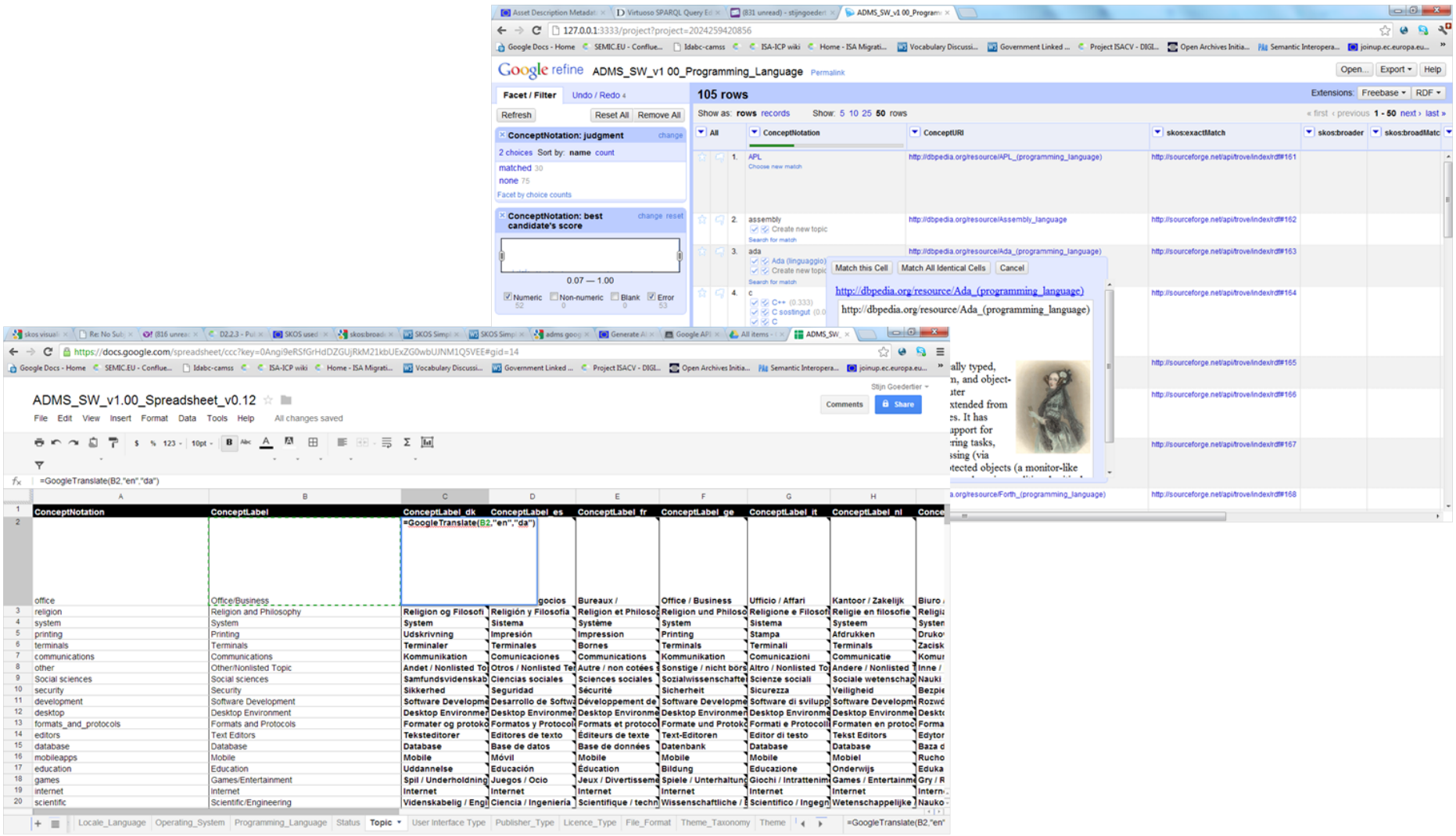
ADMS. SW



Publication of software taxonomies as linked open data



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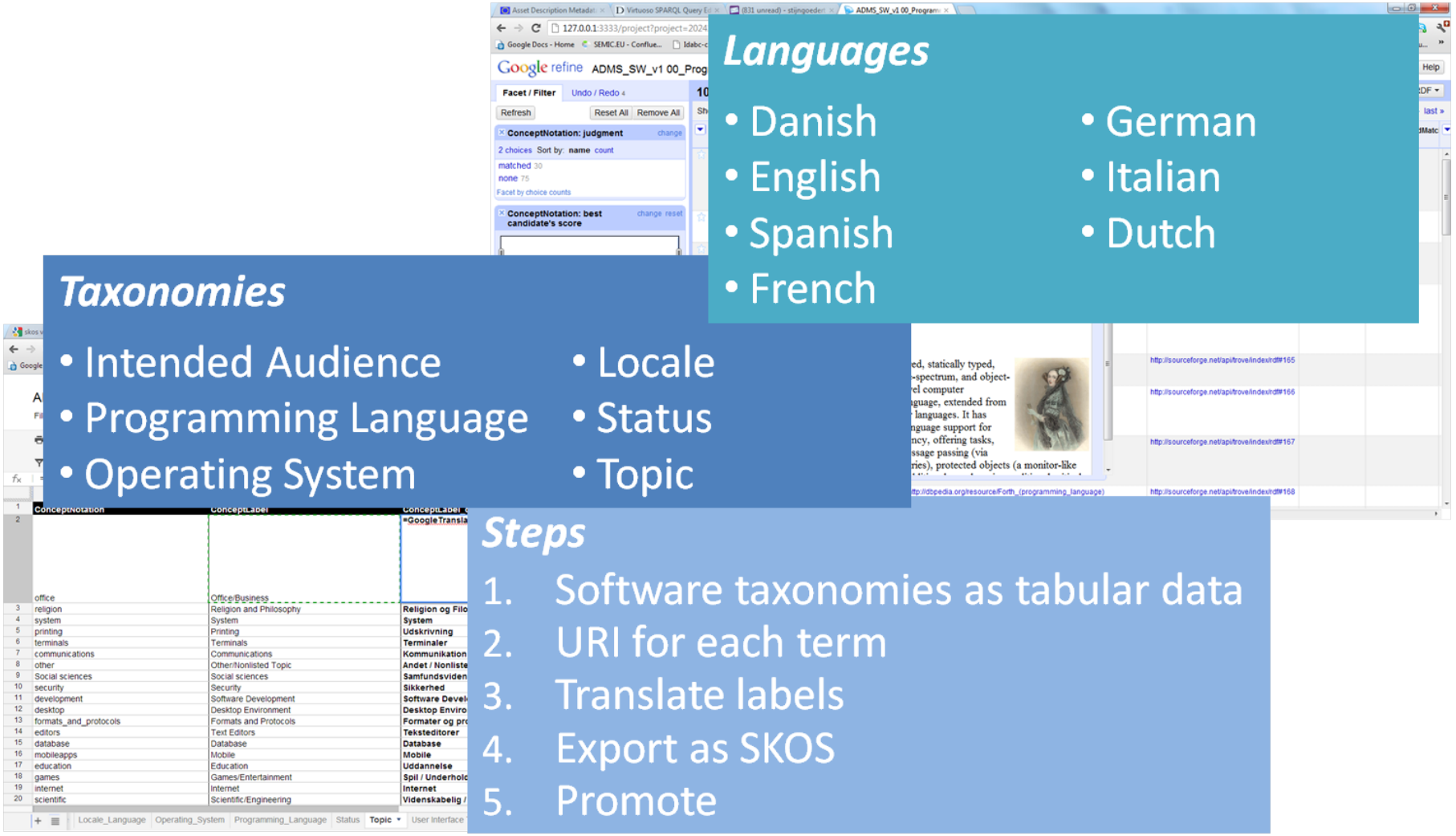


Languages

- Danish
- English
- Spanish
- French
- German
- Italian
- Dutch

Taxonomies

- Intended Audience
- Programming Language
- Operating System
- Locale
- Status
- Topic

Steps

1. Software taxonomies as tabular data
2. URI for each term
3. Translate labels
4. Export as SKOS
5. Promote

ADMS.SW Validator Framework

Validator for the Joinup Application Profile of ADMS

File to test: 02_accessURL_fail.ttl Go

Results

[BVR2] Every attribute of type URL must be formatted according to RFC 1738
(s) `http://example.com/SemanticAssetDistribution` identifies a subject for which the value of the adms:accessURL property is not a URL

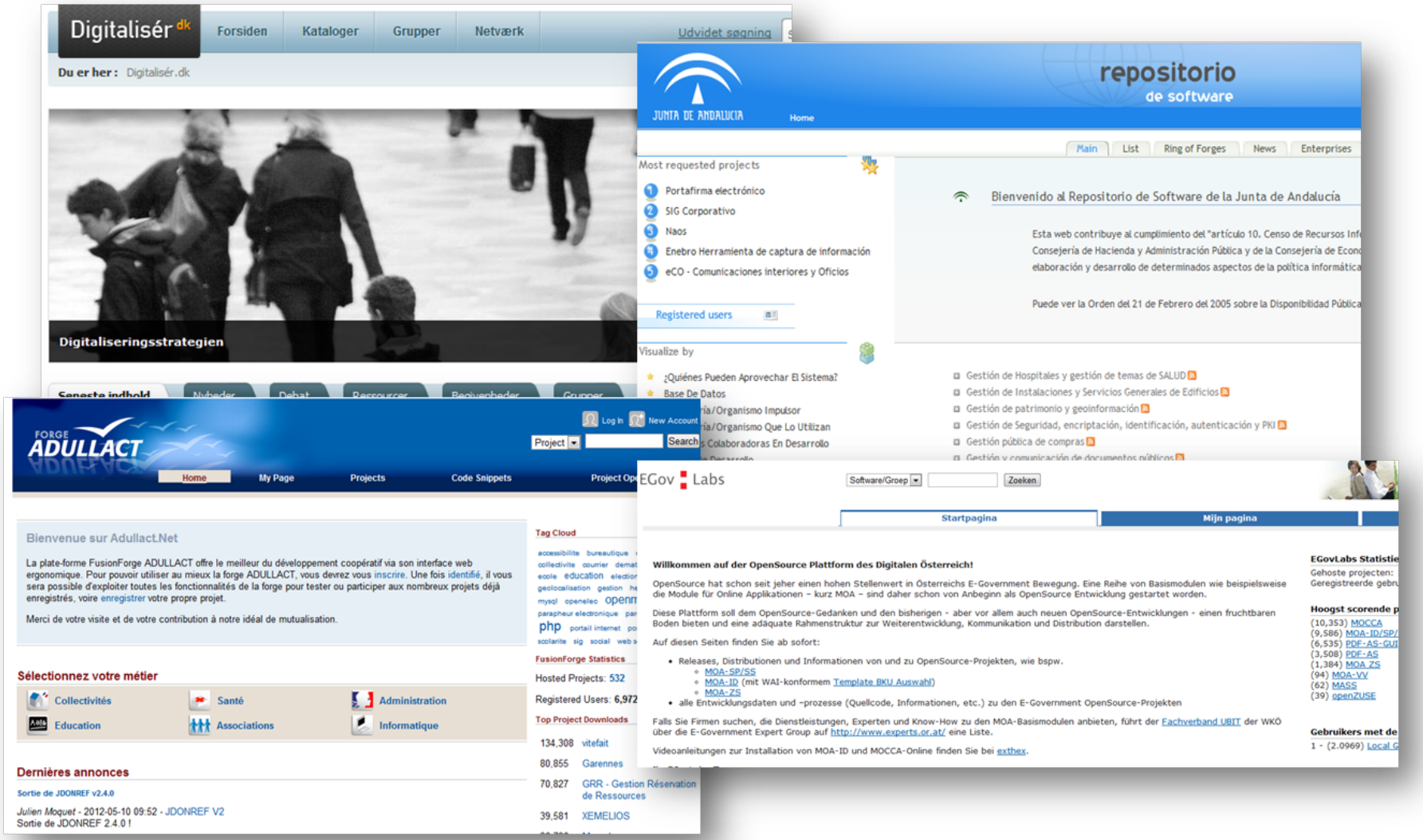
[BVR2] Every attribute of type URL must be formatted according to RFC 1738
(s) `http://example.com/Repository` identifies a subject for which the value of the adms:accessURL property is not a URL

[BVR2] Every attribute of type URL must be formatted according to RFC 1738
(o) `Homepage` identifies a subject for which the value of the adms:accessURL property is not a URL

[BVR2] Every attribute of type URL must be formatted according to RFC 1738
(o) `doi:foo:bar` identifies a subject for which the value of the adms:accessURL property is not a URL

ADMS.SW exporter plugin for FusionForge / GForge

Implementation of ADMS.SW in public sector catalogues



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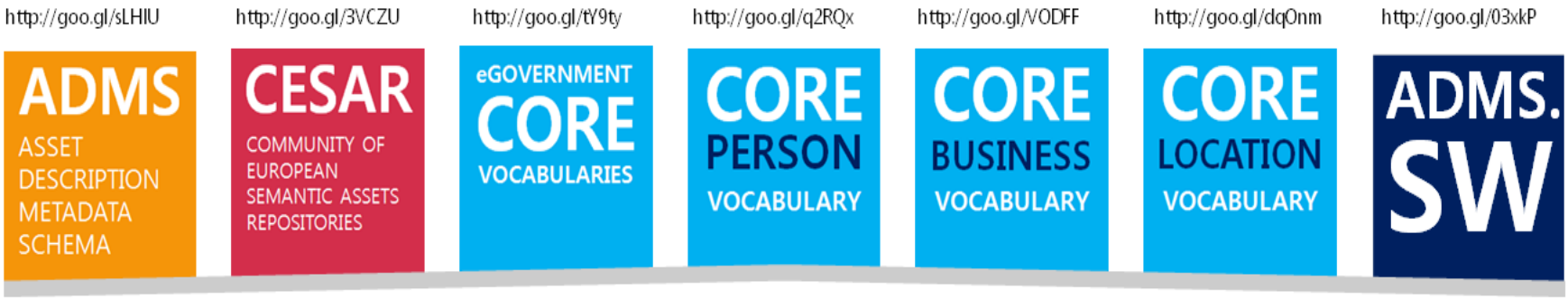
Get involved: Join ISA initiatives on Joinup

Visit us on joinup

joinup.ec.europa.eu



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