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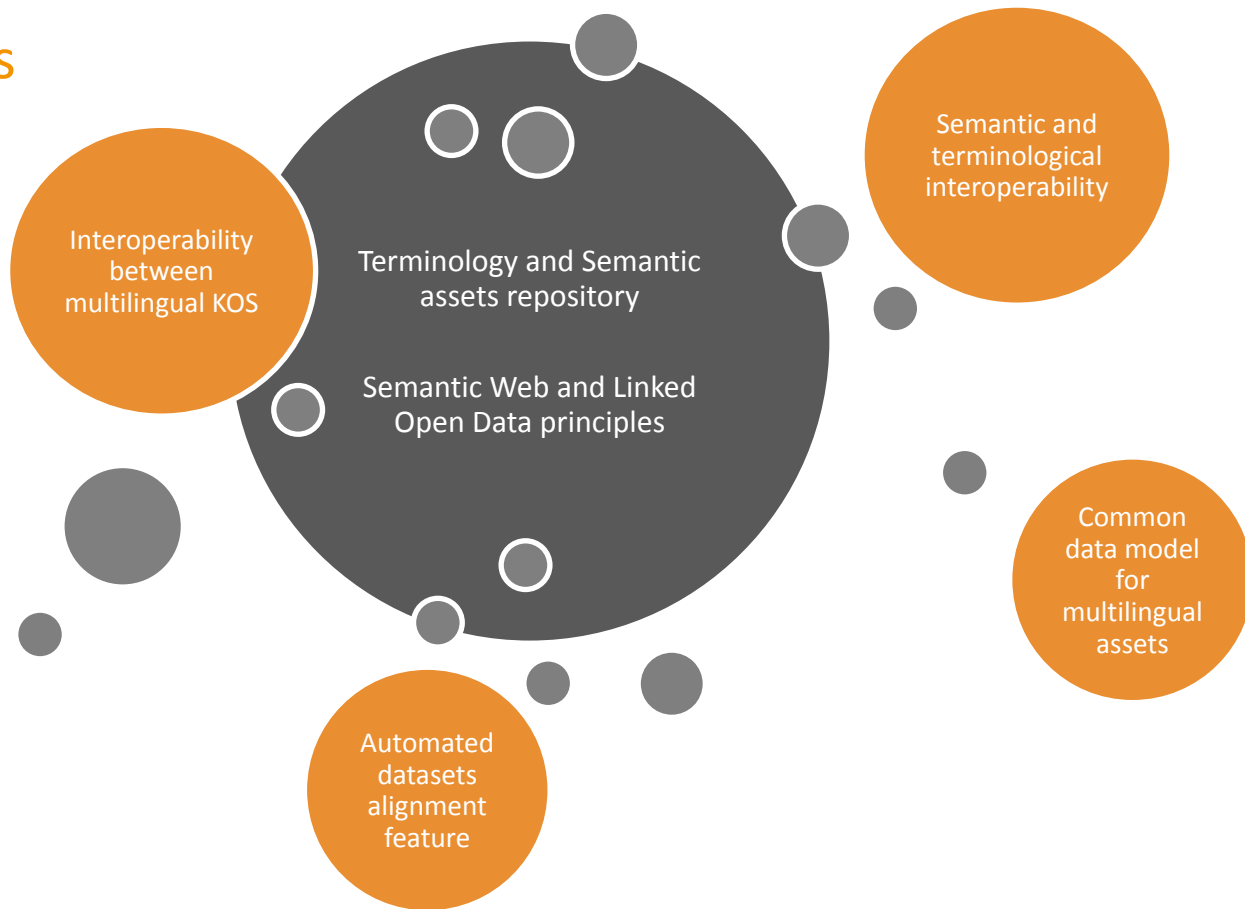
THE PMKI PLATFORM

Public Multilingual Knowledge management Infrastructure for the Digital Single Market

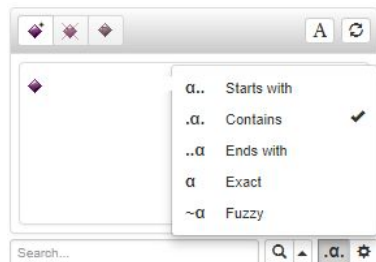
ENDORSE.

THE EUROPEAN DATA CONFERENCE ON REFERENCE DATA AND SEMANTICS

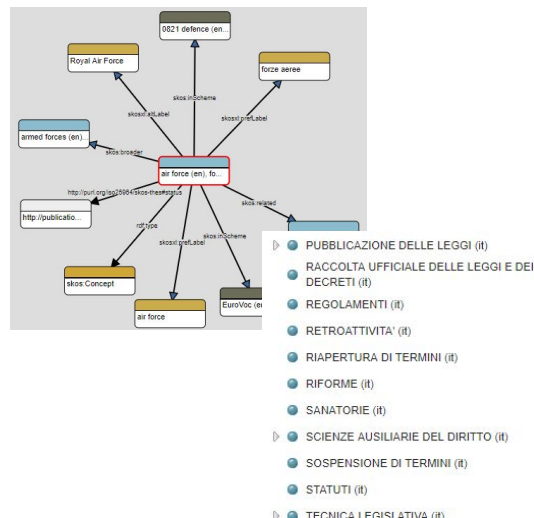
Objectives



PMKI platform – a Web interface, an API and a SPARQL endpoint



Browse



SPARQL Query

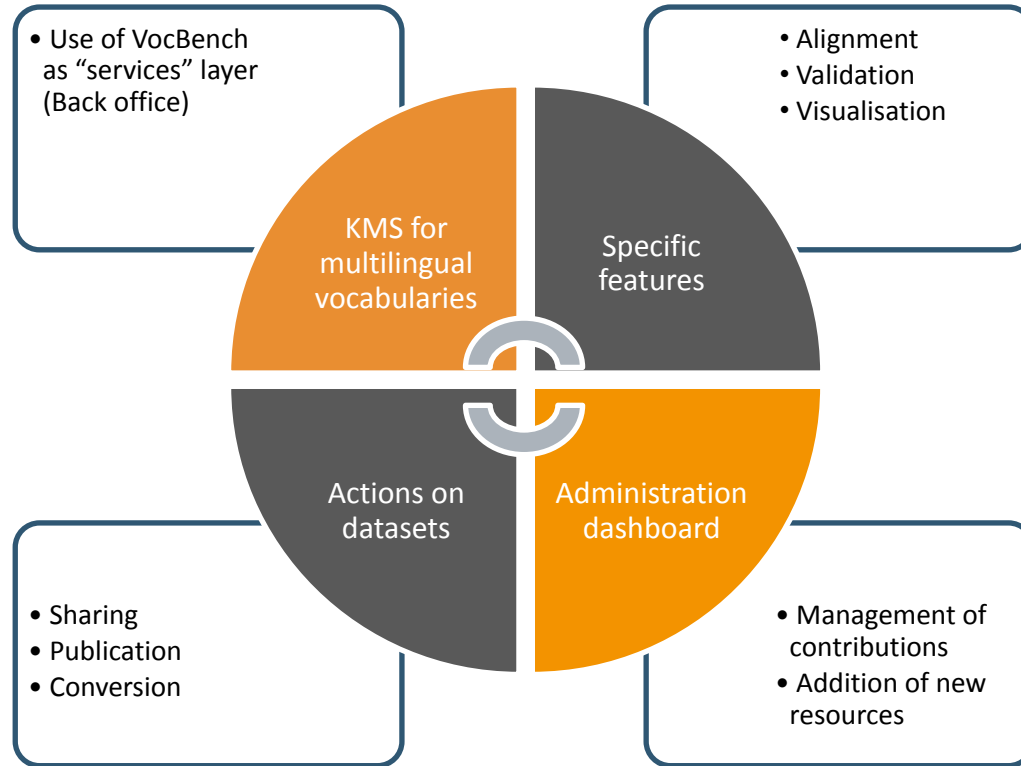


REST API Architecture



Alignment Services API

PMKI platform – integrated services



Demonstration

WEBLINK

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PMKI welcome page

PMKI

Datasets Search Alignments

Login

Welcome to PMKI!

Public Multilingual Knowledge Management Infrastructure for the Digital Single Market (PMKI)

Contribute to PMKI

Submit a contribution request

PMKI Datasets Search Alignments [Login](#)

Name Last name

Email

Contribution

Resource name

Home page *

Description

☐ I'm the owner of the resource

(*) Optional field

☐ I'm the owner of the resource

Base URI

Model Lexicalization model

Request submitted

Your contribution request has been successfully submitted. It will be evaluated by the administrator and you will receive the response to the provided email



Approve the submission request

PMKI

Datasets

Search

Alignments

Datasets

Contributions

Configuration

Contributions management

Submitted

12/13/2019, 10:04:58 AM

4/9/2020, 8:07:13 PM

4/10/2020, 4:04:20 PM

4/21/2020, 2:52:12 PM

4/21/2020, 2:55:07 PM

3/10/2021, 5:45:04 PM

Create dataset

Name

LandAndWater

Base URI

http://www.fao.org/landandwater/

Model

SKOS

Lexicalization model

SKOSXL

Repository Access

CreateRemote

Repo Configuration

GraphDB Free (remote only)

Configure

Ok

Close

Contribution type

Details

Approve

ater/>

Stable

...

✓

✗

OC/>

Stable

...

✓

✗

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Stable

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ENDORSE

PMKI: PUBLIC MULTILINGUAL KNOWLEDGE MANAGEMENT INFRASTRUCTURE FOR THE DIGITAL SINGLE MARKET

8

Load the data

PMKI Datasets Search Alignments

Load data

Email address ⓘ
najeh.hajlaoui@ext.publications.europa.eu

Dataset name ⓘ
LandAndWater

File

Browse

 LandAndWater_20141202.nt

Lifter
RDF Deserializing Lifter

Format
N-Triples

Resolve imports
From Web

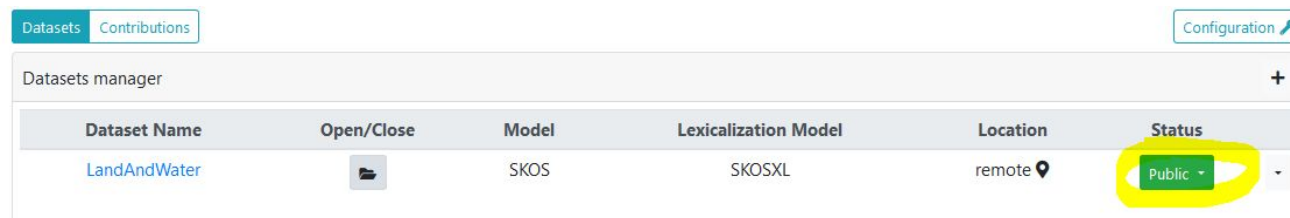
Load

Load data

Data loaded successfully

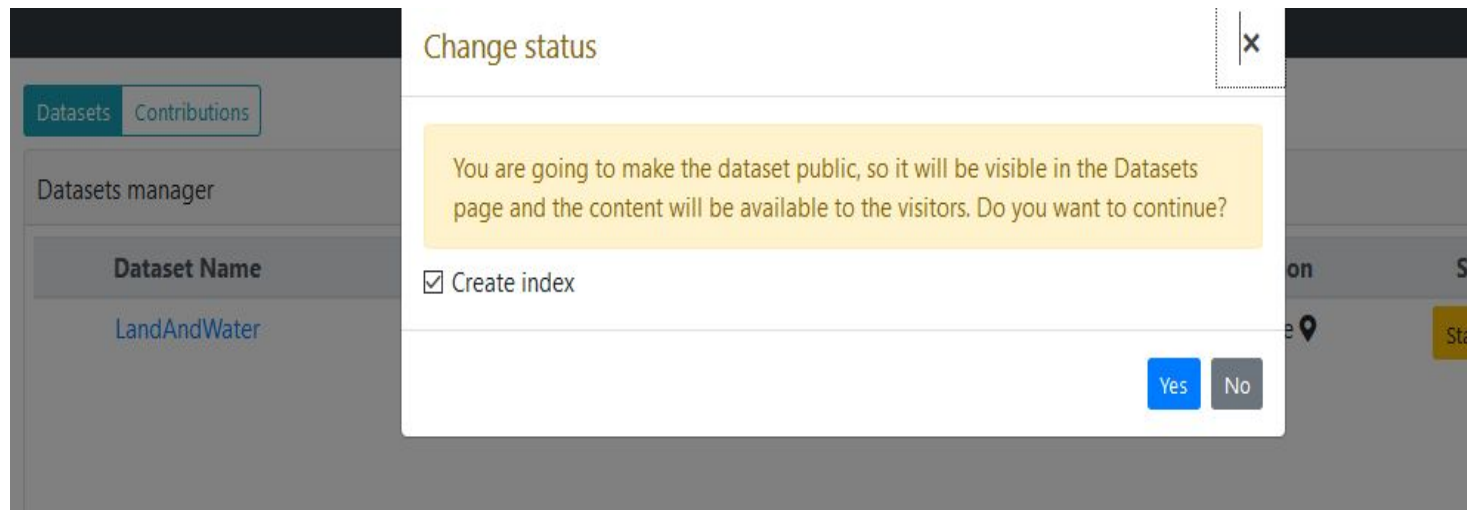
Ok

Make the dataset project public



The screenshot shows the 'Datasets manager' interface. At the top, there are tabs for 'Datasets' and 'Contributions', and a 'Configuration' button with a wrench icon. Below the tabs is a table with the following columns: 'Dataset Name', 'Open/Close', 'Model', 'Lexicalization Model', 'Location', and 'Status'. The table contains one row for the dataset 'LandAndWater'. The 'Status' column for this dataset shows a green button labeled 'Public' with a dropdown arrow, which is highlighted by a yellow circle.

Dataset Name	Open/Close	Model	Lexicalization Model	Location	Status
LandAndWater		SKOS	SKOSXL	remote	Public



The data is available

PMKI [Datasets](#) [Search](#) [Alignments](#) [Login](#)

LandAndWater

[Data](#) [Sparql](#)

[Concept](#) [Collection](#) [Scheme](#) [Property](#) [Alignments](#)

A ↺ ⚙

- Abstraction of fossil water (en), Extracción de las aguas fósiles (es), Extraction des eaux fossiles (fr)
- Accumulation (en), Acumulación (es), Accumulation (fr)
- Actual evapotranspiration (en), Actual evapotranspiración (es), Evapotranspiration réelle (fr)
- Agricultural water managed area (en), Superficie total con gestión del agua para agricultura. (es), Superficie totale avec contrôle de l'eau pour l'agriculture (fr)
- Agriculture drainage water (en), Agua de drenaje agrícola (es), Eau de drainage pour l'agriculture (fr)
- Annuals area (crops) (en), Superficie con cultivos anuales (es), Superficies de cultures annuelles (fr)
- Aquifer (en), Acuífero (es), Aquifère (fr)
- Arable land (en), Terras arables o de labranza (es), Terres arables (fr)
- Area of harvested crops under irrigation (en), Superficie regada cosechada (es), Superficies des cultures irriguées et récoltées (fr)
- Area salinized by irrigation (en), Superficie salinizada por el riego (es), Superficie salinisée par l'irrigation (fr)

[Q](#) [α..](#) [⚙](#)

Text search (water)

The screenshot displays the PMKI (Public Multilingual Knowledge Management Infrastructure) interface. The main window shows a search for 'water' under the 'LandAndWater_1' dataset. A modal window titled 'Search results' is open, displaying 30 results found. The results are listed in a scrollable area, showing multilingual entries for various water-related concepts.

Search results

30 results found.

- Water harvesting (en), Captación y almacenamiento de agua (es), Collecte des eaux de ruissellement (fr)
- Water balance (en), Balance hídrico (es), Bilan hydrologique (fr)
- Water charge (en), Tarifa básica y de aprovechamiento por el agua (es), Tarif de l'eau (fr)
- Water use by agriculture (en), Uso de agua para la agricultura (es), Utilisation des eaux pour l'agriculture (fr)
- Water use by agriculture for irrigation (en), Uso del agua para riego (es), Utilisation des eaux á des fins d'irrigation (fr)
- Water quality (en), Calidad de las aguas (es), Qualité des eaux (fr)
- Water quality criteria (en), Criterios de calidad de las aguas (es), Critères de qualité des eaux (fr)
- Water resources appraisal (en), Evaluación del recurso agua (es), Evaluation des ressources en eau (fr)
- Water resources produced on a 10th frequency of a dry year (en), Recursos hídricos producidos internamente en un año seco de frecuencia de 10 años (es), Ressources en eau

PMKI Datasets Search Alignments

LandAndWater_1

Concept Collection Scheme Property Align

water

Data Sparql

Ok

Browse, visualize dataset

PMKI Datasets Search Alignments



EuroVoc-20200630-0

Data

Sparql

Concept Collection Scheme Property Alignments

A



04 ПОЛИТИКА (bg), 04 POLITICKÝ ŽIVOT (cs), 04 POLITIK (da), 04 POLITISCHES LEBEN (de), 04 ΠΟΛΙΤΙΚΗ (el), 04 POLITICS (en), 04 VIDA POLÍTICA (es), 04 POLIITIKA (et), 04 POLITIikka (fi), 04 VIE POLITIQUE (fr), 04 POLAITIOCHT (ga), 04 POLITIKA (hr), 04 POLITIKA (hu), 04 VITA POLITICA (it), 04 POLITIKA (lt), 04 POLITIKA (lv), 04 ПОЛИТИКА (mk), 04 POLITIKA (mt), 04 POLITIEK (nl), 04 ŻYCIE POLITYCZNE (pl), 04 ATIVIDADE POLÍTICA (pt), 04 POLITICĂ (ro), 04 POLITIKA (sk), 04 POLITIKA (sl), 04 POLITIKA (sq), 04 ПОЛИТИКА (sr), 04 POLITIK (sv)

08 МЕЖДУНАРОДНИ ОТНОШЕНИЯ (bg), 08 MEZINÁRODNÍ VZTAHY (cs), 08 INTERNATIONALE RELATIONER (da), 08 INTERNATIONALE BEZIEHUNGEN (de), 08 ΔΙΕΘΝΕΙΣ ΣΧΕΣΕΙΣ (el), 08 INTERNATIONAL RELATIONS (en), 08 RELACIONES INTERNACIONALES (es), 08 RAHVUSVAHELISED SUHTED (et), 08 KANSAINVÄLISET SUHTEET (fi), 08 RELATIONS INTERNATIONALES (fr), 08 CAIDREAMH IDIRNÁISIÚNTA (ga), 08 MEĎUNARODNI ODNOSI (hr), 08 NEMZETKÖZI KAPCSOLATOK (hu), 08 RELAZIONI INTERNAZIONALI (it), 08 TARPTAUTINIAI SANTYKIAI (lt), 08 STARRTAUTINIAI ATTISČIAI (lv), 08

politics



α..



04 POLITICS (en), 04 VIE POLITIQUE (fr)

http://eurovoc.europa.eu/100142

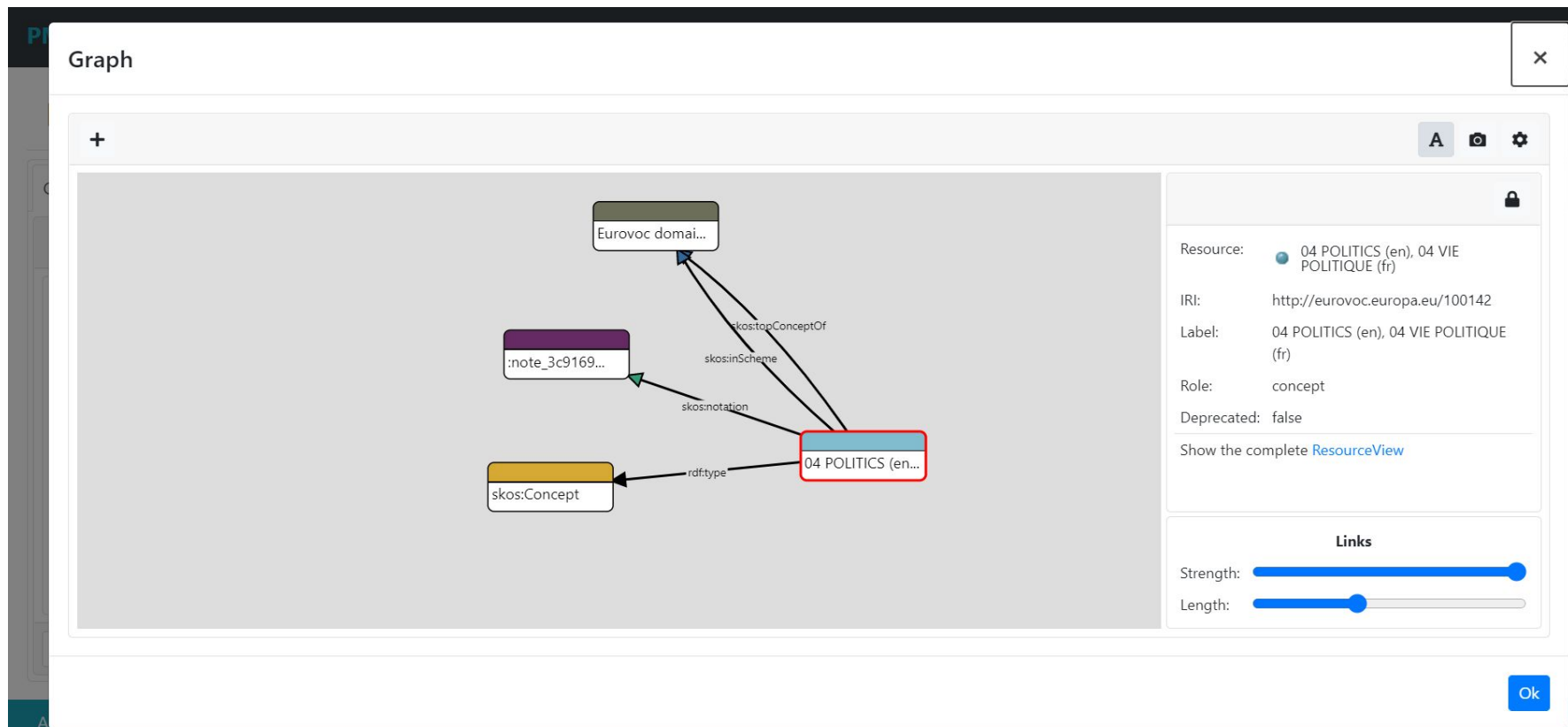


A



Type	skos:Concept
Top Concept Of	Eurovoc domains (en)
In Scheme	Eurovoc domains (en)
Preferred Label	04 ПОЛИТИКА (bg) 04 POLITICKÝ ŽIVOT (cs) 04 POLITIK (da) 04 POLITISCHES LEBEN (de) 04 ΠΟΛΙΤΙΚΗ (el) 04 POLITICS (en) 04 VIDA POLÍTICA (es) 04 POLIITIKA (et) 04 POLITIikka (fi) 04 VIE POLITIQUE (fr)

Graph representation of a concept



Graph representation of a concept

EuroVoc-20200630-0

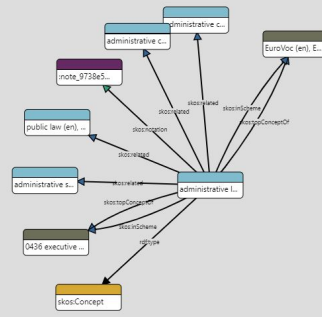
Data Sparql

Concept Collection Scheme

- access to the courts (en), accès à
- accounting (en), comptabilité (fr)
- accounting system (en), système
- standardised accounting system (en), système normalisé de comptabilité (fr)
- ACP countries (en), pays ACP (fr)
- administrative law (en), droit administratif (fr)**
 - administrative contract (en), contrat administratif (fr)
 - administrative measure (en), mesure administrative (fr)
 - administrative offence (en), infraction administrative (fr)

Graph

+



exécutif et

exécutif et

Search...



administrative law (en)

Derecho administrativo (es)

Search in all the datasets

Search

law



Filters: Datasets Languages

'law' matches in 3 datasets.

EuroVoc-20200630-0

12 LAW (en), 12 DROIT (fr)

<http://eurovoc.europa.eu/100145>

12 LAW (en)

EU law - international law (en), droit de l'UE-droit international (fr)

<http://eurovoc.europa.eu/435196>

EU law - international law (en)

EU law - national law (en), droit de l'UE-droit national (fr)

<http://eurovoc.europa.eu/5127>

EU law - national law (en)

international law - national law (en), droit international-droit interne (fr)

<http://eurovoc.europa.eu/4009>

Alignment

Alignments

Source dataset:

☒ Table ☐ Graph

Dataset

[http://rdfa...](#)

[http://data...](#)

[Eurovoc_CU...](#)

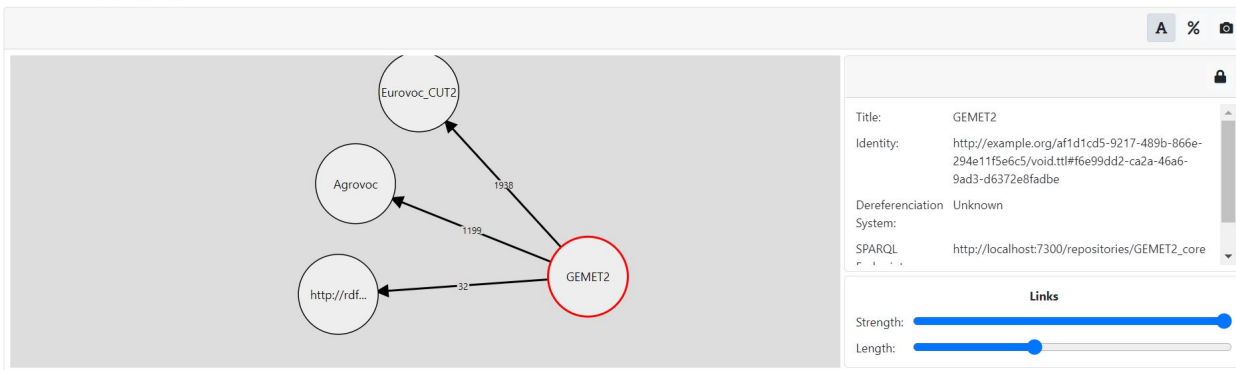
[http://dbpe...](#)

[Agrovoc](#)

Alignments

Source dataset: GEMET2

☐ Table ☒ Graph



Title: GEMET2
Identity: <http://example.org/af1d1cd5-9217-489b-866e-294e11f5e6c5/void.ttl#f6e99dd2-ca2a-46a6-9ad3-d6372e8fadbe>
Dereferenciation System: Unknown
SPARQL: http://localhost:7300/repositories/GEMET2_core

Links

Strength:

Length:

SPARQL access

The screenshot displays the PMKI (Public Multilingual Knowledge Management Infrastructure) interface for accessing EuroVoc-2020 data via SPARQL. The interface is divided into three main sections:

- Left Panel (Query Editor):** Contains a search bar with "PMKI Datasets Search", a "Query +" button, and a SPARQL query editor. The query is:

```
SELECT * WHERE { ?s a skos:Concept . ?s skosxl:prefLabel ?x1 skosxl:prefLabel ?x2 . } LIMIT 10
```

 Below the query is a "Submit" button and a "Clear" button. A "Results count: 1 (Done in 180ms)" message is visible at the bottom.
- Central Panel (Results Window):** Displays the results of the SPARQL query. The URL in the address bar is <http://eurovoc.europa.eu/637>. The results are shown in a table format:

Property	Value
Type	skos:Concept
Top Concept Of	1621 economic structure (en), 1621 structure économique (fr) EuroVoc (en), EuroVoc (fr)
In Scheme	1621 economic structure (en), 1621 structure économique (fr) EuroVoc (en), EuroVoc (fr)
Preferred Label	икономика (bg) hospodářství (cs) økonomi (da) Wirtschaft (de) οικονομία (el) economy (en) economía (es) majandus (et) talous (fi) économie (fr) economia (hr)

- Right Panel (Data/Sparql View):** Contains a "Data" tab and a "Sparql" tab. The "Sparql" tab is active, showing the query editor. Below the query editor is a "Powered by YASGUI" logo. At the bottom right, there is an "Ok" button.

The PMKI platform in a snapshot

