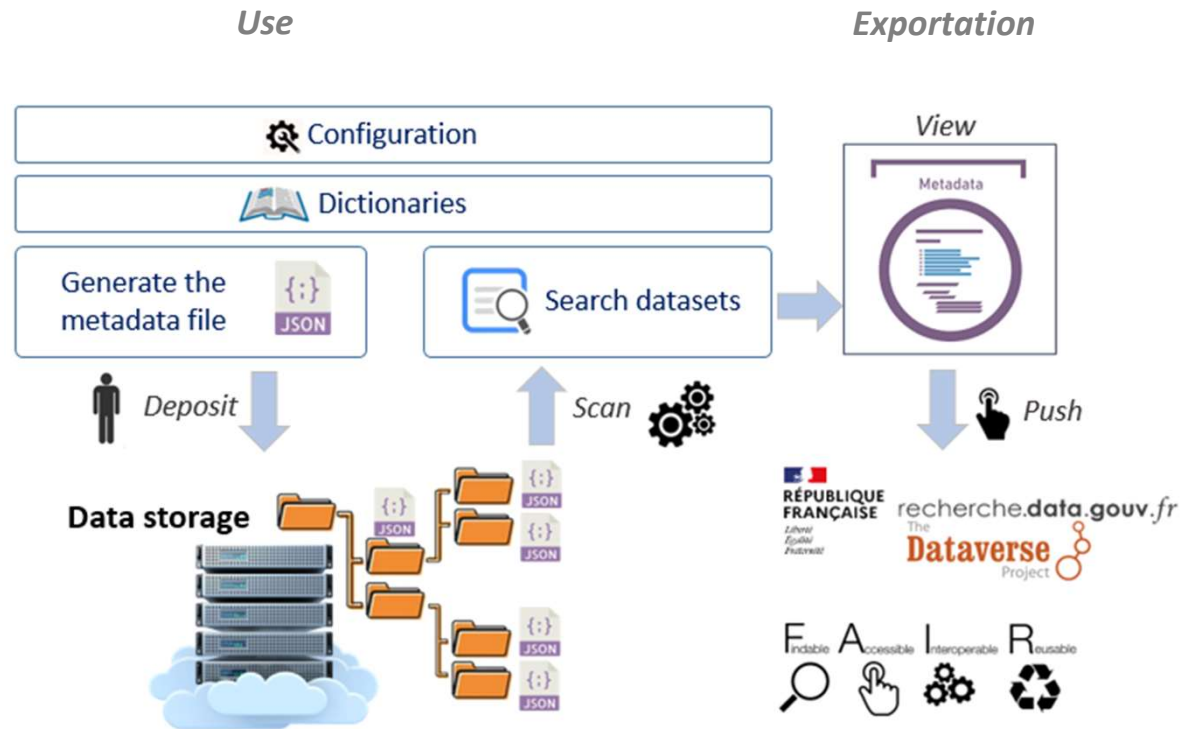


## A tool dedicated to metadata



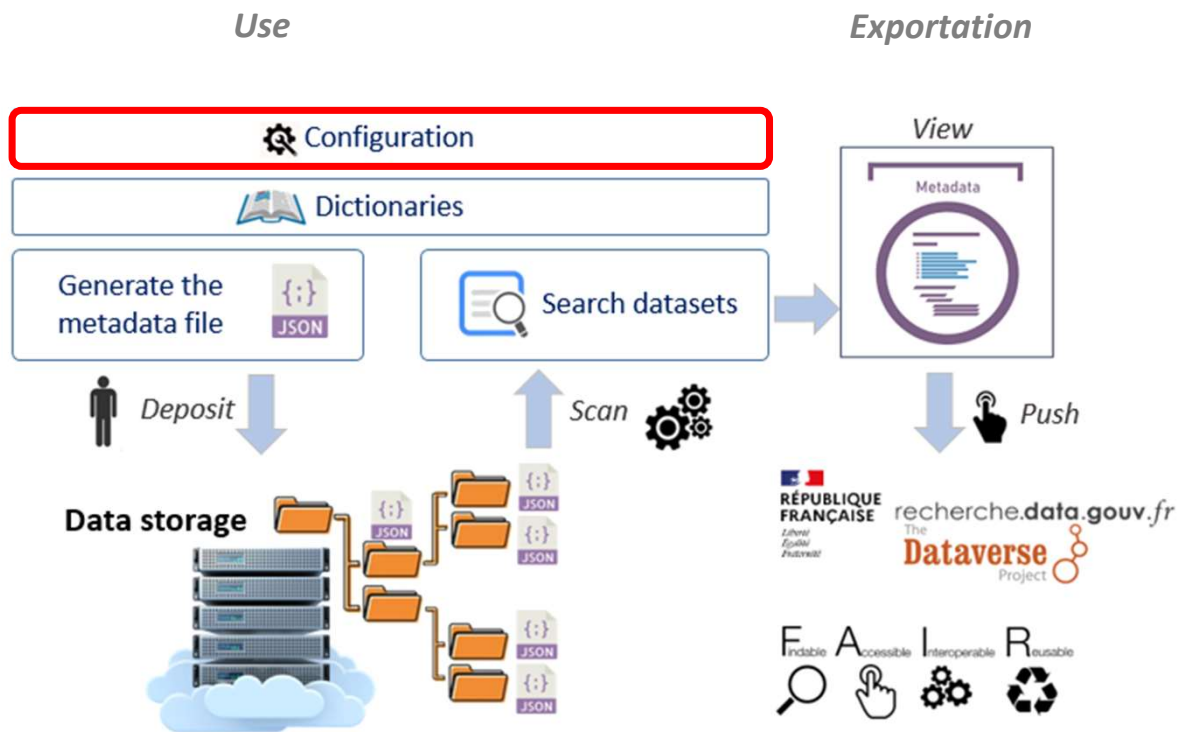
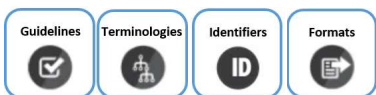
Assistance in entering and managing metadata

Filing Automation avoids re-entering metadata during distribution



## A tool dedicated to metadata

Standards & Terminologies  
The 4 FAIR pillars



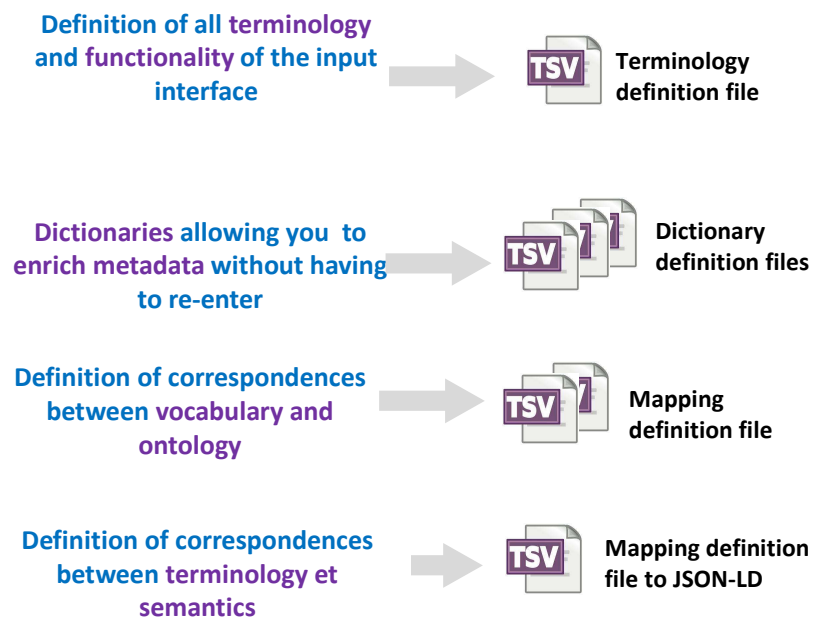
Assistance in entering and managing metadata

Filing Automation avoids re-entering metadata during distribution



# Configuration flexibility

## Configuration



Standards & Terminologies  
The 4 FAIR pillars

<https://pmb-bordeaux.fr/maggot/config/view>

## View all current definition files

- ▶ Terminology definition file [conf/config\\_terms.txt](#)
- ▶ Documentation definition file [conf/config\\_doc.txt](#)
- ▶ Dataverse definition file [conf/dataverse.txt](#)
- ▶ Mapping definition file [conf/mapping.txt](#)
- ▶ Schema.org JSON-LD definition file [conf/schema-jsonld.txt](#)

<https://pmb-bordeaux.fr/maggot/dictionary>

## Dictionaries

Dictionary:

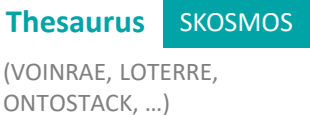
--- Choose a dictionary ---  
--- Choose a dictionary ---  
Information about grant  
**Information about people**  
Information about producer  
Information about vocabulary



# Roles

The **notion of role** makes it possible to take into consideration the contribution of each person according to their « job skills ».

Standards & Terminologies  
The 4 FAIR pillars



## Roles

« Data steward »  
+  
« Scientist »

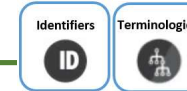
Upstream

Fix the frame based on standards and vocabularies recognized by the international community in the field.



Metadata Capture

« Input Mask »  
Allowing metadata to be captured according to a data description standard  
Good Practices



« Scientist »

Downstream

Transform data for interoperability  
*greatly facilitated by the task upstream*



«Data steward »

Role : Kind of action or behavior, in the place one occupies. A person can have several roles; similarly several people can have the same role.

# Definition of metadata



« Data steward »  
+  
« Scientist »



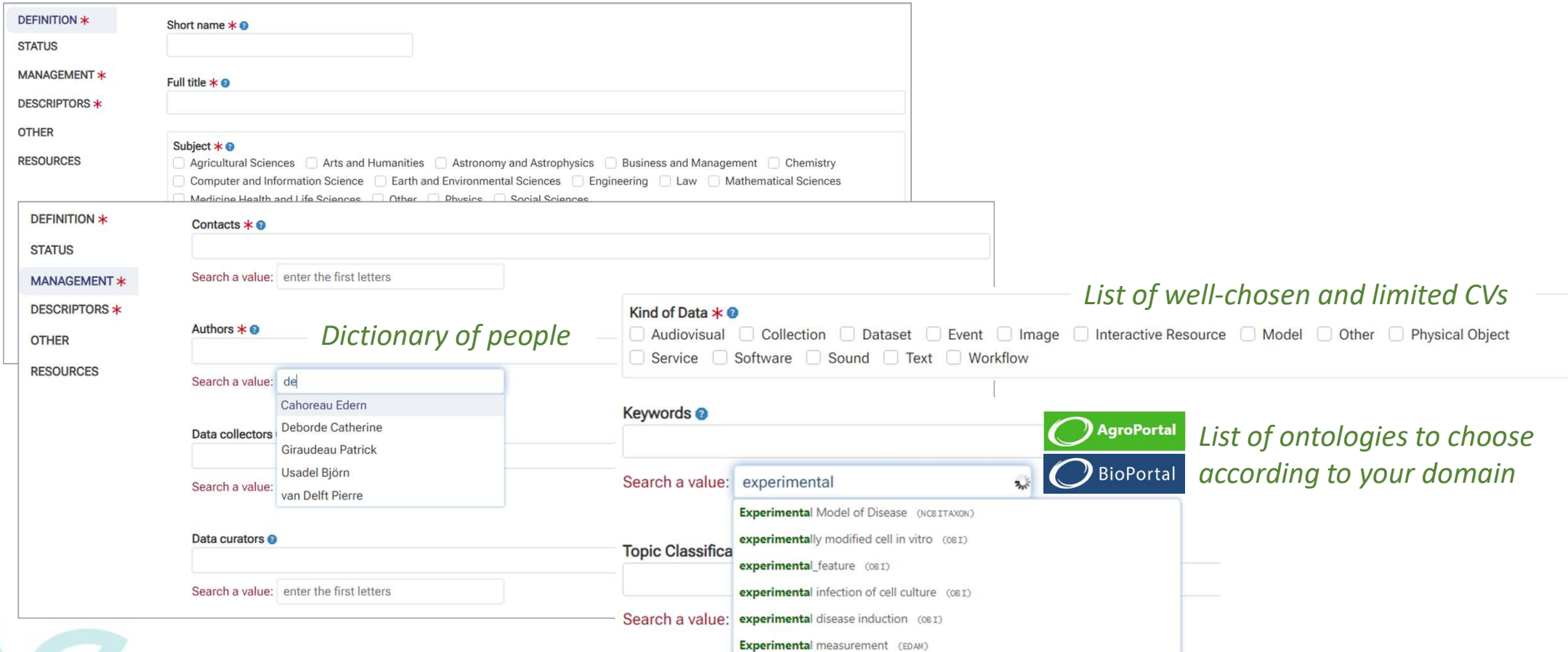
## Completely done using a single configuration file (TSV format)

Field	Section	Required	Search	ShortView	Type	features	Label	Predefined terms
title	definition	Y	N	1	textbox	width=350px	Short name	
fulltitle	definition	Y	Y	2	textbox		Full title	
subject	definition	Y	Y		checkbox	open=0	Subject	Agricultural Sciences, Arts and Humanities, Astronomy and Astrophysics, Business and Management, Chemistry, Computer and Information Science, Earth and Environmental Sciences, Engineering, Law, Mathematical Sciences, Medicine Health and Life Sciences, Other, Physics, Social Sciences
description	definition	Y	Y		areabox	rows=6, cols=30	Description of the dataset / Organization of directories	
note	definition	N	Y		areabox	rows=4, cols=30	Notes	
status	status	N	Y	3	dropdown	width=350px	Status of the dataset	In progress, Processed, Unprocessed
access_rights	status	N	Y	4	dropdown	width=350px	Access rights to data	Mixte, Private, Public
language	status	N	Y		checkbox	open=0	Language	Czech, Danish, Dutch, English, Finnish, French, German, Greek, Hungarian, Icelandic, Italian, Lithuanian, Norwegian, Romanian, Slovenian, Spanish, Swedish
license	status	N	Y		textbox	autocomplete=license	License	
contacts	management	Y	Y		multiselect	autocomplete=people, min=1	Contacts	
authors	management	Y	Y		multiselect	autocomplete=people, min=1	Authors	
collectors	management	N	Y		multiselect	autocomplete=people, min=1	Data collectors	
curators	management	N	Y		multiselect	autocomplete=people, min=1	Data curators	
members	management	N	Y		multiselect	autocomplete=people, min=1	Project members	
leader	management	N	Y		multiselect	autocomplete=people, min=1	Project leader	
wpleader	management	N	Y		multiselect	autocomplete=people, min=1	WP leader	
depositor	management	N	Y		textbox		Depositor	
producer	management	N	Y		multiselect	autocomplete=producer, min=1	Producer	
grantNumbers	management	N	Y		multiselect	autocomplete=grant, min=1	Grant Information	
kindOfData	descriptors	Y	Y		checkbox	open=0	Kind of Data	Audiovisual, Collection, Dataset, Event, Image, Interactive Resource, Model, Other, Physical Object, Service, Software, Sound, Text, Workflow
keywords	descriptors	N	Y		multiselect	autocomplete=biportal, onto=EFO: JERM: EDAM: MS: NMR: NCIT: OBI: PO: PTO: AGRO: ECOCORE: IOBC: NCBITAXON	Keywords	

*Built the web interface according to the specifications given upstream*



*Built the web interface according to the specifications given upstream*



The screenshot shows the Maggot web interface for defining metadata. The interface is divided into several sections:

- DEFINITION \*:** Includes fields for Short name, Full title, and Subject (with a list of categories like Agricultural Sciences, Arts and Humanities, etc.).
- MANAGEMENT \*:** Includes a Contacts field and a search box for authors.
- DESCRIPTORS \*:** Includes a search box for data collectors and a search box for data curators.
- OTHER:** Includes a search box for keywords.
- RESOURCES:** Includes a search box for topic classifications.

Callouts highlight specific features:

- Dictionary of people:** A callout points to the authors search box, which shows a dropdown list of names like Cahoreau Edern, Deborde Catherine, Giraudeau Patrick, Usadel Björn, and van Delft Pierre.
- List of well-chosen and limited CVs:** A callout points to the 'Kind of Data' section, which lists various data types like Audiovisual, Collection, Dataset, Event, Image, Interactive Resource, Model, Other, Physical Object, Service, Software, Sound, Text, and Workflow.
- List of ontologies to choose according to your domain:** A callout points to the 'Topic Classification' search box, which shows a dropdown list of terms like 'Experimental Model of Disease (NCBITAXON)', 'experimentally modified cell in vitro (OB1)', 'experimental feature (OB1)', 'experimental infection of cell culture (OB1)', 'experimental disease induction (OB1)', and 'Experimental measurement (EDAM)'. Logos for AgriPortal and BioPortal are also visible.



# Mapping to JSON-LD



« Data steward »



Mapping definition file to JSON-LD

#datasetField	Field	Type	Level	Array	Multiple	Property	Value type	Value source	Index	Prefix
	@type		0	FALSE	FALSE		schema:Dataset			
	@id		0	FALSE	FALSE					https://pmb-bordeaux.fr/maggot/metadata/
		schema:version	0	FALSE	FALSE		1.0			
	title	schema:identifier	0	FALSE	FALSE		#VALUE			maggot:
	fulltitle	schema:name	0	FALSE	FALSE		#VALUE			
	description	schema:description	0	FALSE	FALSE		#VALUE			
	note	schema:comment	0	FALSE	FALSE	#VALUE				
	license	schema:license	0	FALSE	FALSE		#VALUE			
	contacts	schema:creator	0	TRUE	TRUE					
	contacts	schema:creator	1	FALSE	FALSE	@type	schema:Person			
	contacts	schema:creator	1	FALSE	FALSE	name	#VALUE			
	contacts	schema:creator	1	FALSE	FALSE	identifier	#DICO	cvlist:people	3	https://orcid.org/
	contacts	schema:creator	1	FALSE	FALSE	email	#DICO	cvlist:people	4	
	contacts	schema:creator	1	FALSE	TRUE	affiliation				
	contacts	schema:creator	2	FALSE	FALSE	@type	schema:Organization			
	contacts	schema:creator	2	FALSE	FALSE	name	#DICO	cvlist:people	2	
	authors	schema:author	0	TRUE	TRUE					
	authors	schema:author	1	FALSE	FALSE	@type	schema:Person			
	authors	schema:author	1	FALSE	FALSE	name	#VALUE			
	authors	schema:author	1	FALSE	FALSE	identifier	#DICO	cvlist:people	3	https://orcid.org/
	authors	schema:author	1	FALSE	TRUE	affiliation				
	authors	schema:author	2	FALSE	FALSE	@type	schema:Organization			
	authors	schema:author	2	FALSE	FALSE	name	#DICO	cvlist:people	2	
	collectors	contributor	0	TRUE	TRUE					
	collectors	contributor	1	FALSE	FALSE	@type	schema:Person			
	collectors	contributor	1	FALSE	FALSE	contributorType	DataCollector			http://purl.org/datacite/v4.4/
	collectors	contributor	1	FALSE	FALSE	name	#VALUE			
	collectors	contributor	1	FALSE	FALSE	identifier	#DICO	cvlist:people	3	https://orcid.org/
	collectors	contributor	1	FALSE	TRUE	affiliation				
	collectors	contributor	2	FALSE	FALSE	@type	schema:Organization			
	collectors	contributor	2	FALSE	FALSE	name	#DICO	cvlist:people	2	
	curators	contributor	1	TRUE	TRUE					
	curators	contributor	1	FALSE	FALSE	@type	schema:Person			

Metadata schema (standard) (container)



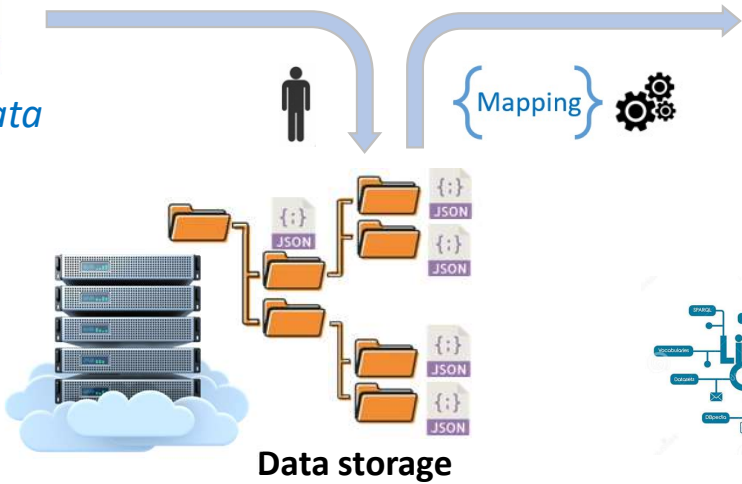
Vocabulary (content)

- Dictionaries
- Control Vocabulary
- OntoPortal (AgroPortal, BioPortal, ...)
- Thesaurus SKOSMOS (VOINRAE, LOTERRE, ONTOSTACK, ...)

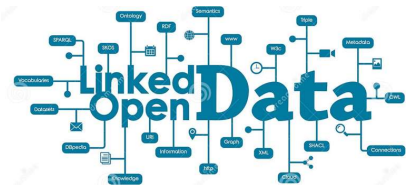


metadata crosswalk

TSV Mapping definition file to JSON-LD



Interoperability



Your local (meta)data repository

5 ★ Open Data  
<https://5stardata.info/fr/>








## Interoperability

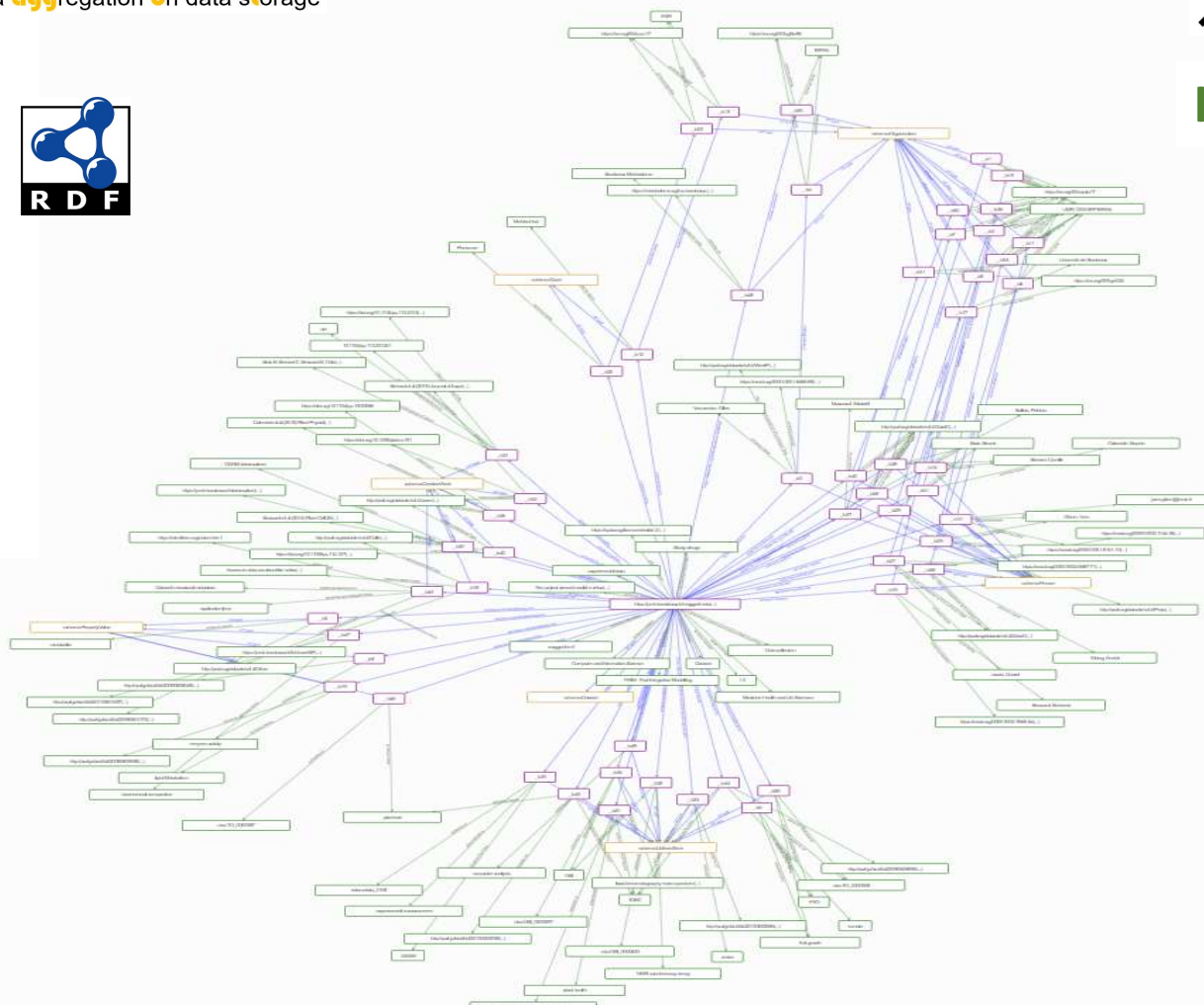
<https://issemantic.net/rdf-visualizer>

### Legend:

-  Type/Class
-  Instance/Individual
-  Value/Literal
-  Object property
-  Data property
-  Quoted triple
-  Blank node

### Vocabularies/prefixes:

- dcite: <http://purl.org/spar/datacite/>
- dcterms: <http://purl.org/dc/terms/>
- disco: <http://rdf-vocabulary.ddialliance.org/discovery#>
- edam: <http://edamontology.org/>
- obo: <http://purl.obolibrary.org/obo/>
- rdf: <http://www.w3.org/1999/02/22-rdf-syntax-ns#>
- schema: <http://schema.org/>



<https://pmb-bordeaux.fr/maggot/metadata/frim1?format=jsonld>

