



HAL
open science

Maggot : Designed to foster good data management, with “ data sharing ” in mind.

Daniel Jacob, François Ehrenmann, Philippe Chaumeil

► **To cite this version:**

Daniel Jacob, François Ehrenmann, Philippe Chaumeil. Maggot : Designed to foster good data management, with “ data sharing ” in mind.. Semantic Linked Data at INRAE, Oct 2023, Sète, France. hal-04256711

HAL Id: hal-04256711

<https://hal.inrae.fr/hal-04256711>

Submitted on 25 Oct 2023

HAL is a multi-disciplinary open access archive for the deposit and dissemination of scientific research documents, whether they are published or not. The documents may come from teaching and research institutions in France or abroad, or from public or private research centers.

L'archive ouverte pluridisciplinaire **HAL**, est destinée au dépôt et à la diffusion de documents scientifiques de niveau recherche, publiés ou non, émanant des établissements d'enseignement et de recherche français ou étrangers, des laboratoires publics ou privés.

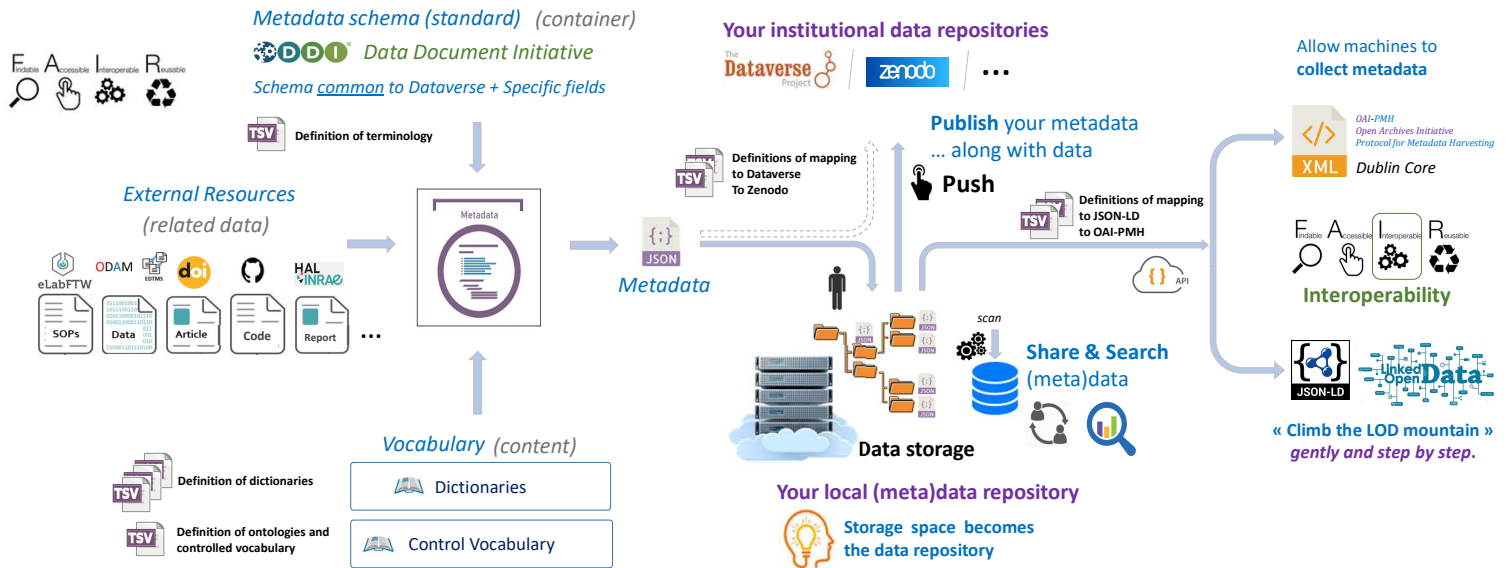


Distributed under a Creative Commons Attribution 4.0 International License

An ecosystem for sharing metadata

The **Maggot** tool allows users to describe the **Metadata** of their datasets produced within a collective (research unit, platform, multi-partner project, etc.), thus making it possible

- to answer certain questions of the **Data Management Plan (DMP)** concerning the **organization, documentation, storage and sharing of data** in the data storage space,
- to meet certain data and metadata requirements, referred to by the **Open Research Europe (ORE)** in accordance with the **FAIR** principles.



Metadata thus produced can be **associated with corresponding data directly in the storage space** which is then scanned and then referenced in a database. We can thus **carry out a search on the metadata** in order to find one or more sets of data. **Only metadata is accessible by default.**

Configuration

Standards & Terminologies

Configuration (TSV files)

Use

Assistance in entering and managing metadata

Exportation

Automation filling in repository
Avoids re-entering metadata

Build the web interface according to the specifications given upstream

Dictionary of people

Contacts

Search a value:

Authors

Search a value:

Data collectors

Search a value:

Data curators

Search a value:

List of well-chosen and limited CVs according to a reference (e.g. Data Document Initiative)

Kind of Data (*)

Audiovisual Collection Dataset Event Image Interactive Resource Model Other Physical Object Service Software Sound Text Workflow

Keywords

Search a value:

List of ontologies to choose according to your domain

Topic Classification

Search a value:

Experimental Organism:

Experimental Organism:

Experimental Organism:

experimental:

experimental:

experimental:

Use of dictionaries to target the CV by mixing thesaurus and ontologies

NAME (*)	ONTOLOGY	URL	Access
NMR spectroscopy assay	OBI	http://purl.obolibrary.org/obo/OBI_0005623	Full OK
agricultural science	EDAM	http://purl.org/edam/ontology/edam_3810	Full OK
amino acid	IOBC	http://purl.jp/bio/4/ed/200906089697456524	Full OK
analyte assay	MS	http://purl.obolibrary.org/obo/OBI_0003443	Full OK
biochemical analysis	IOBC	http://purl.jp/bio/4/ed/200906072808564316	Full OK
biochemical characterization	IOBC	http://purl.jp/bio/4/ed/201306090822876862	Full OK
biochemical composition	IOBC	http://purl.jp/bio/4/ed/201306010579695836	Full OK

Thesaurus SKOSMOS

(VOINRAE, LOTERRE, ONTOSTACK, ...)



Construire un vocabulaire

The use of **dictionaries** has no other purpose to **facilitate the entry of metadata**, entry which can be long and repetitive in generalist data warehouses (such as repository based on Dataverse).

Dictionaries allow you to record **multiple information** necessary to **define an entity**, such as the names of people or even the funders.

its information, once entered and saved in a file called a dictionary, can be **subsequently associated with the corresponding entity**.

