Building FAIR research repositories in practice

Lars Holm Nielsen

Head of Open Science Infrastructure
CERN, IT Department

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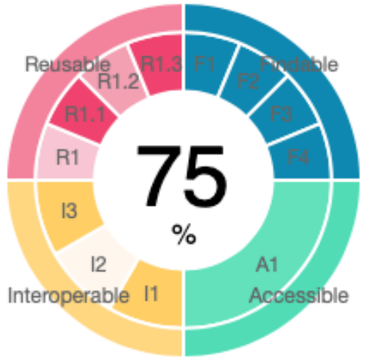
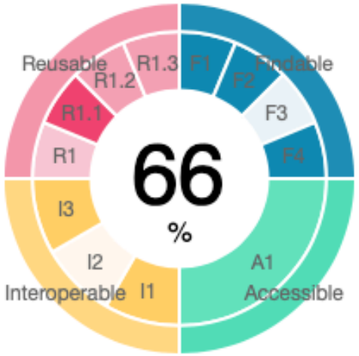
Make it FAIR

Zenodo: State of FAIRness



	Score earned:	Fair level:
Findable:	7 of 7	advanced
Accessible:	2 of 3	moderate
Interoperable:	3 of 4	moderate
Reusable:	6 of 10	moderate



	Score earned:	Fair level:
Findable:	6 of 7	moderate
Accessible:	2 of 3	moderate
Interoperable:	3 of 4	moderate
Reusable:	5 of 10	moderate

Zenodo: State of FAIRness

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Industrial Ecology and Sustainability Research

Published October 21, 2021 | Version 3.8.2

Dataset | Open

EXIOBASE 3

Stadler, Konstantin[1]; Wood, Richard[1]; Bulavskaya, Tatyana[2]; Södersten, Carl-Johan[1]; Simas, Moana[1]; Schmidt, Sarah[1]; Usubiaga, Arkaitz[3]; Acosta-Fernández, José[3]; Kuenen, Jeroen[2]; Bruckner, Martin[4]; Giljum, Stefan[4]; Lutter, Stephan[4]; Merciai, Stefano[5]; Schmidt, Jannick H[5]; Theurl, Michaela C[6]; Plutzar, Christoph[6]; Kastner, Thomas[7]; Eisenmenger, Nina[6]; Erb, Karl-Heinz[6]; Koning, Arjan[8]; Tukker, Arnold[8]

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EXIOBASE 3 provides a time series of environmentally extended multi-regional input-output (EE MRIO) tables ranging from 1995 to a recent year for 44 countries (28 EU member plus 16 major economies) and five rest of the world regions. EXIOBASE 3 builds upon the previous versions of EXIOBASE by using rectangular supply-use tables (SUT) in a 163 industry by 200 products classification as the main building blocks. The tables are provided in current, basic prices (Million EUR).

For any questions regarding access, support or licence clarification please email: exiobase-support@googlegroups.com . The database is provided free of charge to users under a CC-BY-SA license. There is a discussion about different licence options, please reach out for information. For help in use of EXIOBASE data for spend-based emission factors, email exiobase-support@googlegroups.com

EXIOBASE 3 is the culmination of work in the FP7 DESIRE project and builds upon earlier work on EXIOBASE 2 in the FP7 CREEA project and EXIOBASE 1 of the FP6 EXIOPOL project. These databases are available at the official EXIOBASE website.

A special issue of Journal of Industrial Ecology (Volume 22, Issue 3) describes the build process and some use cases of EXIOBASE 3. This includes the article by Stadler et. al 2018 describing the compilation of EXIOBASE 3. Further informations (data quality, updates, ...) can be found in the blog post describing a previous release at the Environmental Footprints webpage. Various concordance tables for the database are available here.

For more (background) information see the Readme file. For any questions regarding access, support or licence options please email: exiobase-support@googlegroups.com

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Version 3.8.2 (10.5281/zenodo.5589597)	Oct 21, 2021
Version 3.8.1 (10.5281/zenodo.4588235)	Mar 8, 2021
Version 3.8 (10.5281/zenodo.4277368)	Nov 19, 2020
Version 3.7 (10.5281/zenodo.3583071)	Dec 18, 2019

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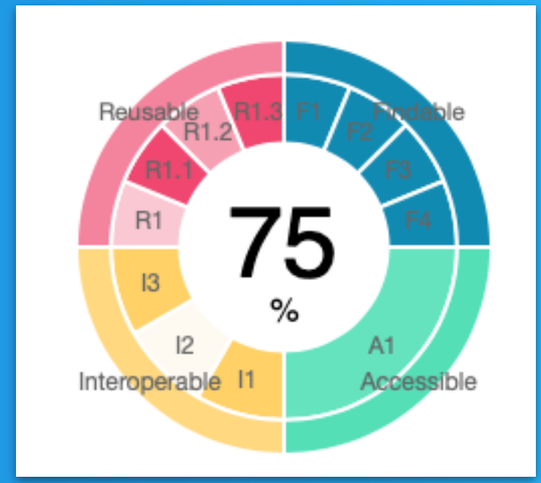

Zenodo: State of FAIRness

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Communities My dashboard

Published June 1, 2021 | Version v1

Journal article Open

Spam record

iPhone XS Case

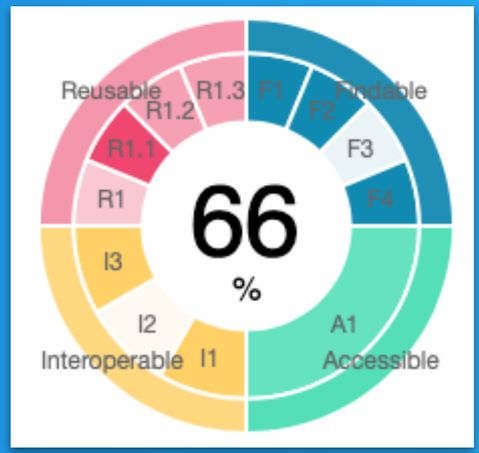
iPhone XS Case

iPhone XS Case- The Best Type of Case For Your iPhone

There are many iPhone XS Cases to choose from, so it is essential to find the best one for your phone. However, many of the cases are similar and may not offer the type of protection you need. Before choosing an iPhone XS Case, make sure you know what is most important to you as a user. For example, if you frequently use your phone outdoors or in a harsh environment, you will need something more durable than a cheap plastic case. Fortunately, there are many top-rated cases from top companies like iPhone and case sealer cases. These three iPhone XS cases come highly recommended, but in case you also vouch for their performance, be sure to check out the other great options too.

This iPhone XS case offers an effortless yet professional look. It has smooth lines and is made from high-quality silicone that fits your phone perfectly. The cutout for the camera and dock area is positioned so that it is difficult to knock against without damaging your device. The overall size of this iPhone XS case is slightly larger than that of the iPhone Plus case, and for this reason, it can take a little more effort to fit into your pocket. If you will be carrying your iPhone xs in your pocket constantly, then this cutout is a necessity.

Best-Selling iPhone XS Cases



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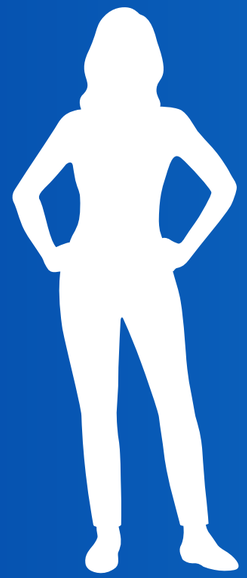
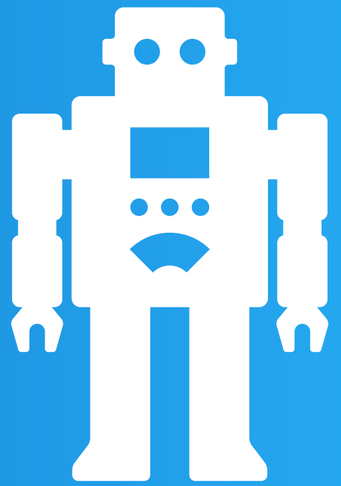


Goal: Reuse



US$ 1.7 trillion

Global spending on R&D

Source: UNESCO Institute for Statistics

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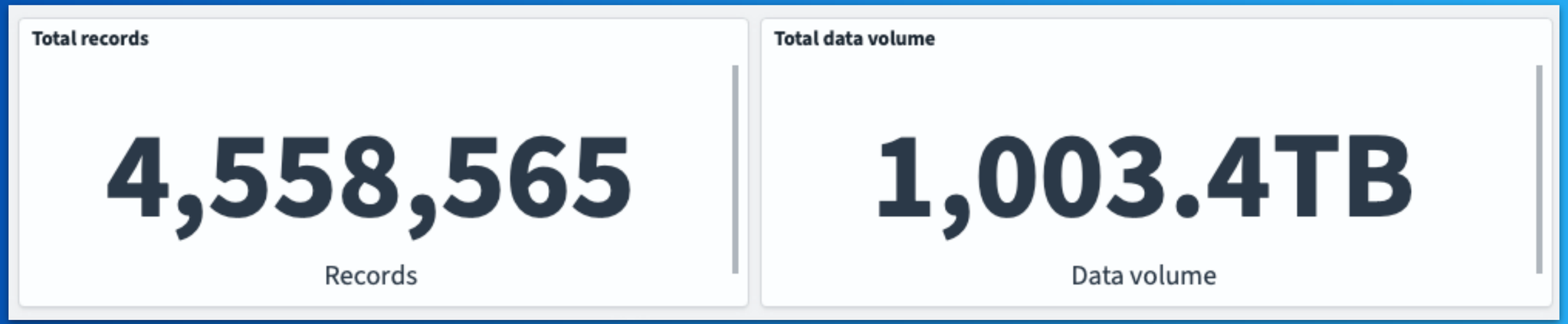
Experiences from our FAIR journey

400.000 users

9000 organisations

161 countries



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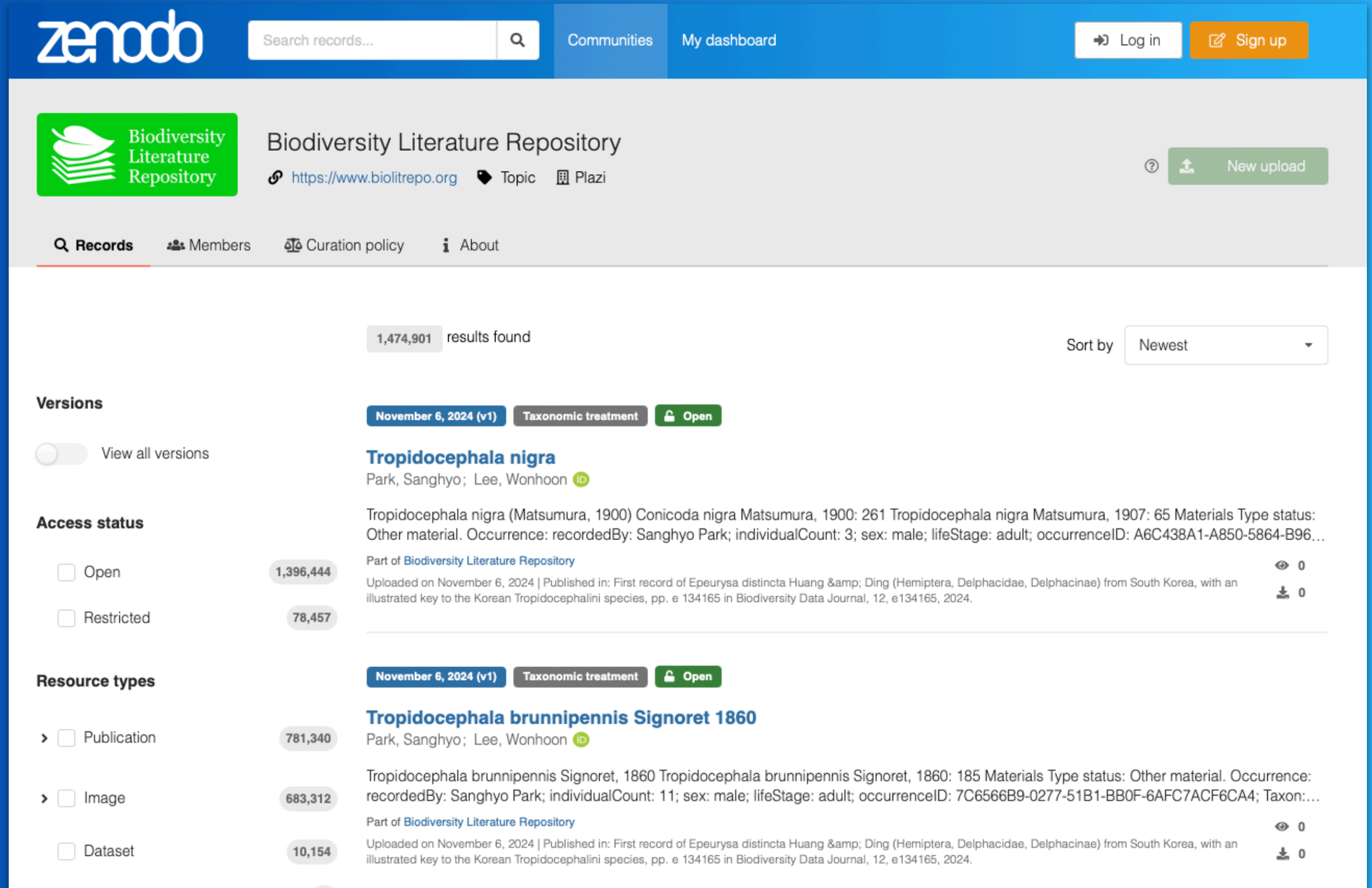
Biodiversity Literature Repository



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Taxonomic treatments

Describe the discovery of new biological species

Example:
Journal article describing 22 new millipedes, published in European Journal of Taxonomy

European Journal of Taxonomy 445: 1–90
https://doi.org/10.5852/ejt.2018.445
ISSN 2118-9773
www.europeanjournaloftaxonomy.eu
2018 · Enghoff H.

M o n o g r a p h

urn:lsid:zoobank.org:pub:852A3F68-B728-413A-B12E-56F306D56C35

A mountain of millipedes VII: The genus *Eviulisoma* Silvestri, 1910, in the Udzungwa Mountains, Tanzania, and related species from other Eastern Arc Mountains. With notes on *Eoseviulisoma* Brolemann, 1920, and *Suohelisoma* Hoffman, 1963 (Diplopoda, Polydesmida, Paradoxosomatidae)

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urn:lsid:zoobank.org:author:FB09A817-000D-43C3-BCC4-2BC1E5373635

Abstract. Twenty-two new species of the genus *Eviulisoma* Silvestri, 1910, from the Eastern Arc Mountains, Tanzania, are described: *E. acaciae* sp. nov., *E. aequilobatum* sp. nov., *E. akkariae* sp. nov., *E. angulatum* sp. nov., *E. articulatum* sp. nov., *E. biquintum* sp. nov., *E. breviscutum* sp. nov., *E. cetafi* sp. nov., *E. chitense* sp. nov., *E. commelina* sp. nov., *E. coxale* sp. nov., *E. ejti* sp. nov., *E. grumslingslak* sp. nov., *E. kalimbasiense* sp. nov., *E. navuncus* sp. nov., *E. nessiteras* sp. nov., *E. ottokrausi* sp. nov., *E. paradisiacum* sp. nov., *E. sternale* sp. nov. and *E. zebra* sp. nov. from the Udzungwa Mts, *E. culter* sp. nov. from the Rubeho Mts and *E. kangense* sp. nov. from the Kanga Mts. *Eviulisoma kwabuniense* Kraus, 1958, and *E. dabagaense* Kraus, 1958, both from the Udzungwa Mts, are redesribed based on new material. Notes are provided on *E. iuloideum* (Verhoeff, 1941) based on type material. *Eoseviulisoma* Brolemann, 1920, is synonymized under *Eviulisoma*, based on newly collected material of *E. julinum* (Attems, 1909), type species of *Eoseviulisoma*. New material of *Suohelisoma ulugurense* Hoffman, 1964, type species of *Suohelisoma* Hoffman, 1964, has revealed that the gonopod structure is more similar to that of *Eviulisoma* than originally thought, but *Suohelisoma* is retained as a valid genus. Four species groups are recognized among *Eviulisoma* species from the Udzungwa Mts, but the need for a revision of the entire genus is emphasized. Two types of epizootic fungi are recorded from *Eviulisoma* spp., and an enigmatic amorphous mass, which may be a kind of plugging substance, is recorded from the gonopod tips and excavated sixth sternum of several species.

Keywords. Taxonomy, new species, epizootic fungi, copulatory plug.

Enghoff H. 2018. A mountain of millipedes VII: The genus *Eviulisoma* Silvestri, 1910, in the Udzungwa Mountains, Tanzania, and related species from other Eastern Arc Mountains. With notes on *Eoseviulisoma* Brolemann, 1920, and *Suohelisoma* Hoffman, 1963 (Diplopoda, Polydesmida, Paradoxosomatidae). *European Journal of Taxonomy* 445: 1–90. https://doi.org/10.5852/ejt.2018.445

zenodo Enghoff H. 2018. A mountain of millipedes VII: The genus *Eviulisoma* Silvestri, 1910, in the Udzungwa Mountains, Tanzania, and related species from other Eastern Arc Mountains. With notes on *Eoseviulisoma* Brolemann, 1920, and *Suohelisoma* Hoffman, 1963 (Diplopoda, Polydesmida, Paradoxosomatidae). *European Journal of Taxonomy* 445: 1–90. https://doi.org/10.5852/ejt.2018.445

Treatments: Data in disguise

Eviulisoma breviscutum sp. nov.
urn:lsid:zoobank.org:act:D7C4195B-37DF-4B02-BD3B-4447DBCBB23C
Fig. 36

Diagnosis

Differs from other Udzungwan species of *Eviulisoma* by the combination of unmodified sterna 5 and 6 and a very short *map* (ca half as long as solenophore).

Etymology

The name is a noun in apposition meaning 'short shield' and refers to the short, shield-like mesal acropodital process.

Material (total: 3 ♂♂)

Holotype

TANZANIA: ♂, Mwanihana Forest, above Sanje, 1650 m a.s.l., pitfall trap, 18 Aug. 1982, M. Stoltze and N. Scharff leg. (ZMUC).

Paratypes

TANZANIA: 1 ♂, Morogoro Region, Kilombero District, Udzungwa Mts National Park, forest below Mwanihana Peak, 7°49′ S, 36°50′ E, 1800 m a.s.l., sifted from leaf litter, 20 Aug. 2017, T. Pape leg. (ZMUC); 1 ♂, Morogoro Region, Udzungwa Mts National Park, Mito Mitatu, above Mang'ula,

Treatments: Data in disguise

Geographic coordinates

Date of collection

Collector

Material (total: 3 ♂♂)

Holotype

TANZANIA: ♂, Mwanihana Forest, above Sanje, 1650 m a.s.l., pitfall trap, 18 Aug. 1982, M. Stoltze and N. Scharff leg. (ZMUC).

Paratypes

TANZANIA: 1 ♂, Morogoro Region, Kilombero District, Udzungwa Mts National Park, forest below Mwanihana Peak, 7°49′ S, 36°50′ E, 1800 m a.s.l., sifted from leaf litter, 20 Aug. 2017, T. Pape leg. (ZMUC); 1 ♂, Morogoro Region, Udzungwa Mts National Park, Mito Mitatu, above Mang'ula, 07°49′3″ S, 36°52′58″ E, 1487 m a.s.l., 16 Dec. 2016,

Host collection

EUROPEAN JOURNAL OF TAXONOMY

MATERIAL CITATIONS FORMATTING GUIDE

In accordance with the European Journal of Taxonomy's FAIR & Open Science policy, the formatting guide for entomology, zoology and palaeozoology material citations is provided below (guidelines for botany available soon). Authors are encouraged to prepare their manuscripts according to this model prior to submission, but they will also be given the opportunity to comply upon acceptance of the article.

While EJT strongly recommends that authors adhere to the guidelines given below, the fine-grain formatting of

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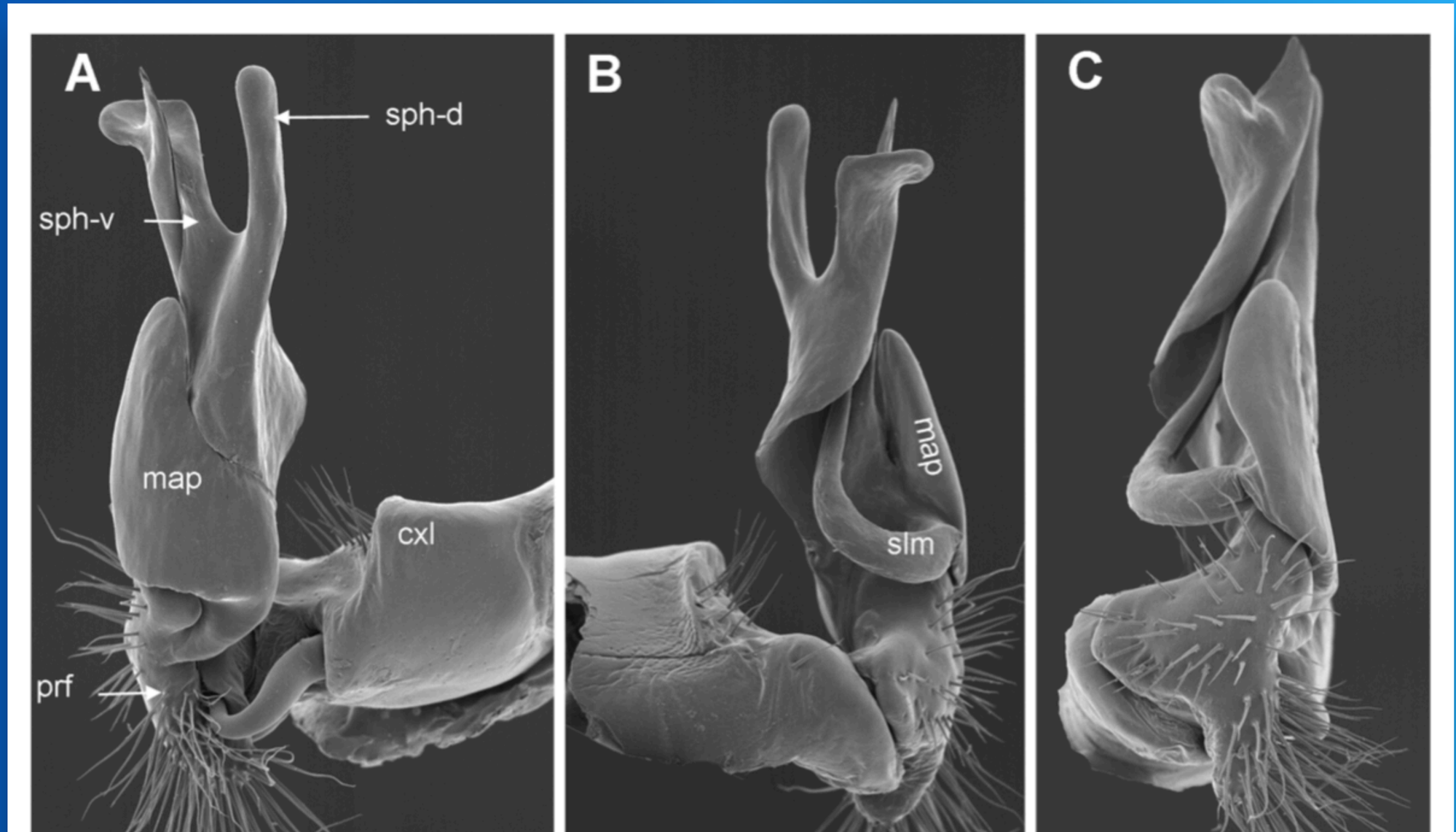
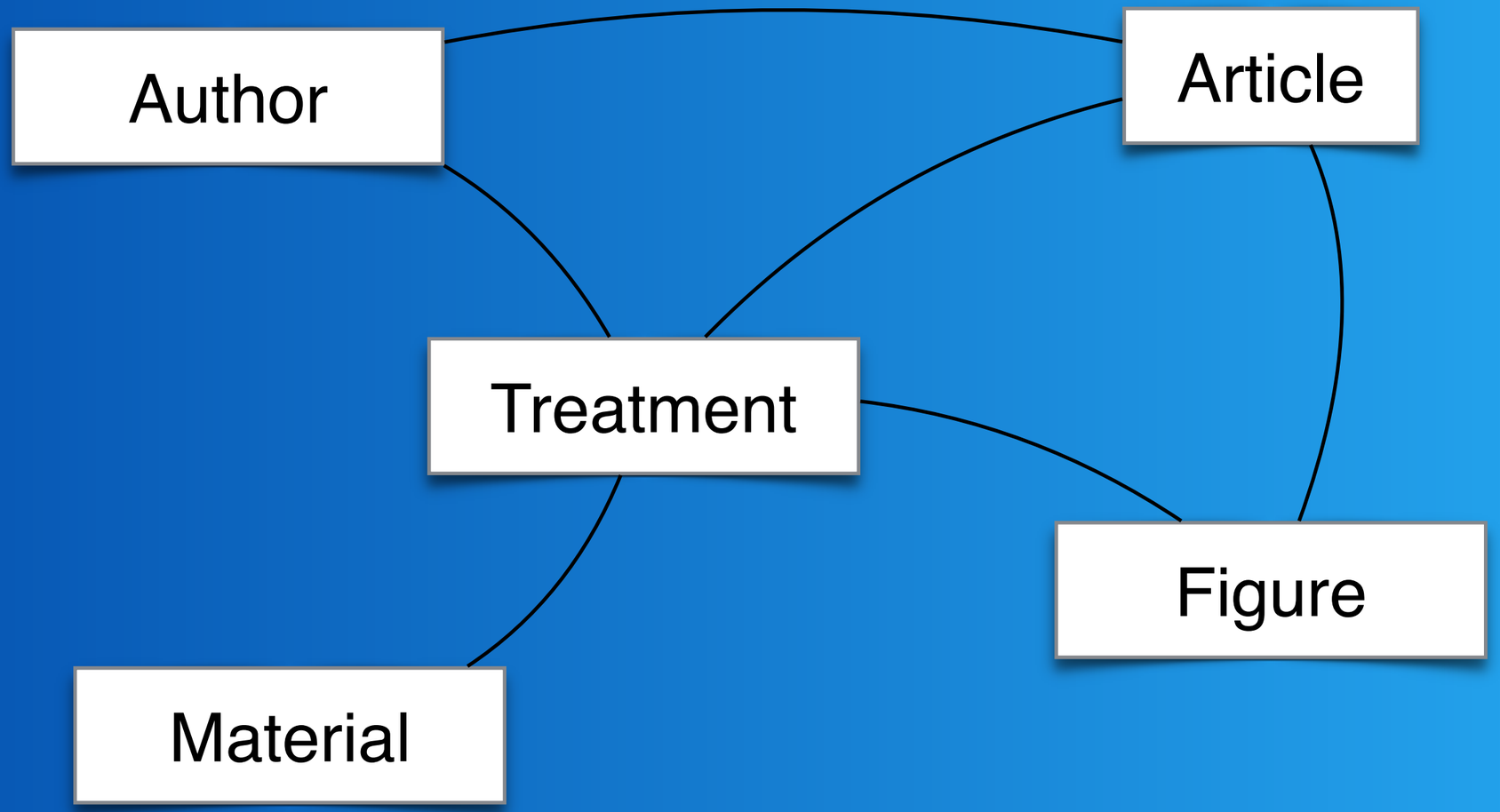


Treatments: Relations



Locked up data

Unanswerable questions:

- How many species have been described by my collection?
- Give me a list of all new species?
- Retrieve all images for a given taxon?
- What's known about a geographic region?

- **Treatments:**
  - Past 260 years: **~10+ millions** published
  - Every year: **~17k** new **/ ~130k** augmented

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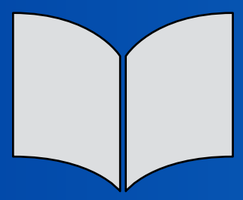
It takes an ecosystem



Article

PLAZI
TAKING CARE OF FREEDOM

Text and data mining

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Preserve & disseminate

SIB LS
SWISS INSTITUTE OF BIOINFORMATICS
LITERATURE SERVICES
BiodiversityPMC

GBIF Global Biodiversity Information Facility

Catalogue of Life

Search, retrieve & linking

FAIR Data

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Biodiversity Literature Repository

Published June 19, 2018 | Version v1

Figure Open

Fig. 1 in A mountain of millipedes VII: The genus Eviulisoma Silvestri, 1910, in the Udzungwa Mountains, Tanzania, and related species from other Eastern Arc Mountains. With notes on Eoseviulisoma Brolemann, 1920, and Suohelisoma Hoffman, 1963 (Diplopoda, Polydesmida, Paradoxosomatidae)

Enghoff, Henrik

Fig. 1. Eviulisoma zebra sp. nov., one of the strikingly marked species from the Udzungwa Mts. Photograph by Martin Nielsen.

Notes

Published as part of *Enghoff, Henrik, 2018, A mountain of millipedes VII: The genus Eviulisoma Silvestri, 1910, in the Udzungwa Mountains, Tanzania, and related species from other Eastern Arc Mountains. With notes on Eoseviulisoma Brolemann, 1920, and Suohelisoma Hoffman, 1963 (Diplopoda, Polydesmida, Paradoxosomatidae), pp. 1-90 in European Journal of Taxonomy 445* on page 3, DOI: 10.5852/ejt.2018.445, http://zenodo.org/record/1489598

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Keywords and subjects

Biodiversity Taxonomy Animalia Arthropoda Diplopoda Polydesmida Paradoxosomatidae Eviulisoma

Details

DOI

DOI 10.5281/zenodo.1489600

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TREATMENT ARTICLE | REGISTERED NOVEMBER 16, 2018

A mountain of millipedes VII: The genus Eviulisoma Silvestri, 1910, in the Udzungwa Mountains, Tanzania, and related species from other Eastern Arc Mountains. With notes on Eoseviulisoma Brolemann, 1920, and Suohelisoma Hoffman, 1963 (Diplopoda, Polydesmida, Paradoxosomatidae)

Mediated by Plazi.org taxonomic treatments database

Enghoff H • plazi

DATASET TAXONOMY METRICS ACTIVITY DOWNLOAD HOME PAGE

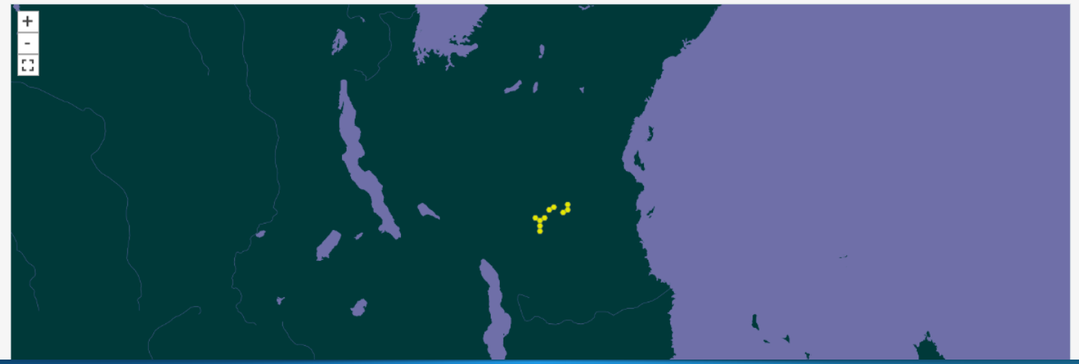
82 MATERIALS EXAMINED 32 RECORDS 31 CITATIONS

This dataset contains the digitized treatments in Plazi based on the original journal article Enghoff, Henrik (2018): A mountain of millipedes VII: The genus Eviulisoma Silvestri, 1910, in the Udzungwa Mountains, Tanzania, and related species from other Eastern Arc Mountains. With notes on Eoseviulisoma Brolemann, 1920, and Suohelisoma Hoffman, 1963 (Diplopoda, Polydesmida, Paradoxosomatidae). European Journal of Taxonomy 445: 1-90, DOI: 10.5852/ejt.2018.445

Publication date: June 19, 2018
Metadata last modified: October 29, 2023
Hosted by: Plazi.org taxonomic treatments database
Licence: CC0 1.0
How to cite DOI 10.5852/ejt.2018.445

82 Occurrences
100% With taxon match
49% With coordinates
83% With year
32 Accepted names
0 Synonyms
100% Overlap with GBIF Backbone
100% Overlap with Catalogue of Life

40 GEOREFERENCED RECORDS



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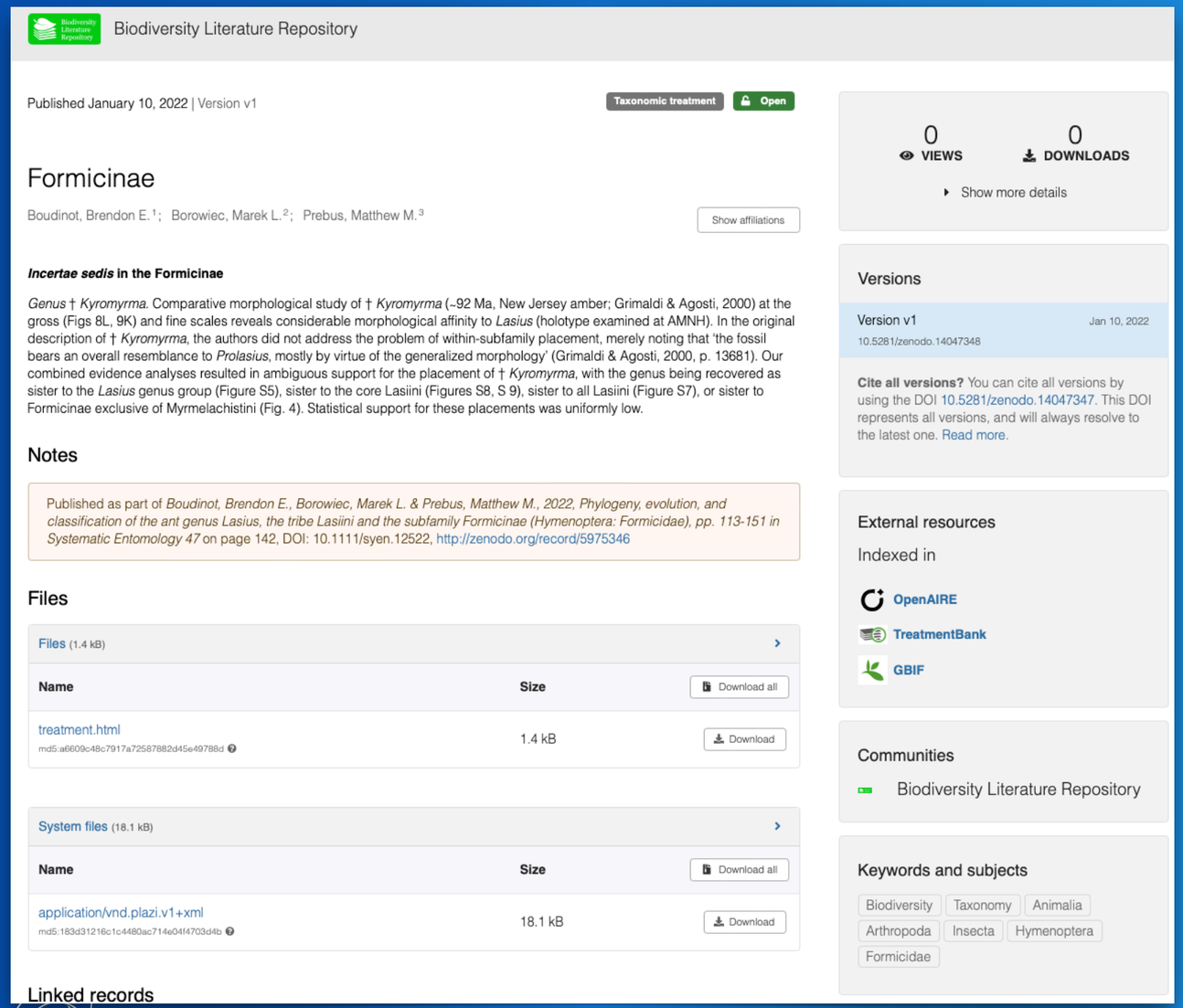
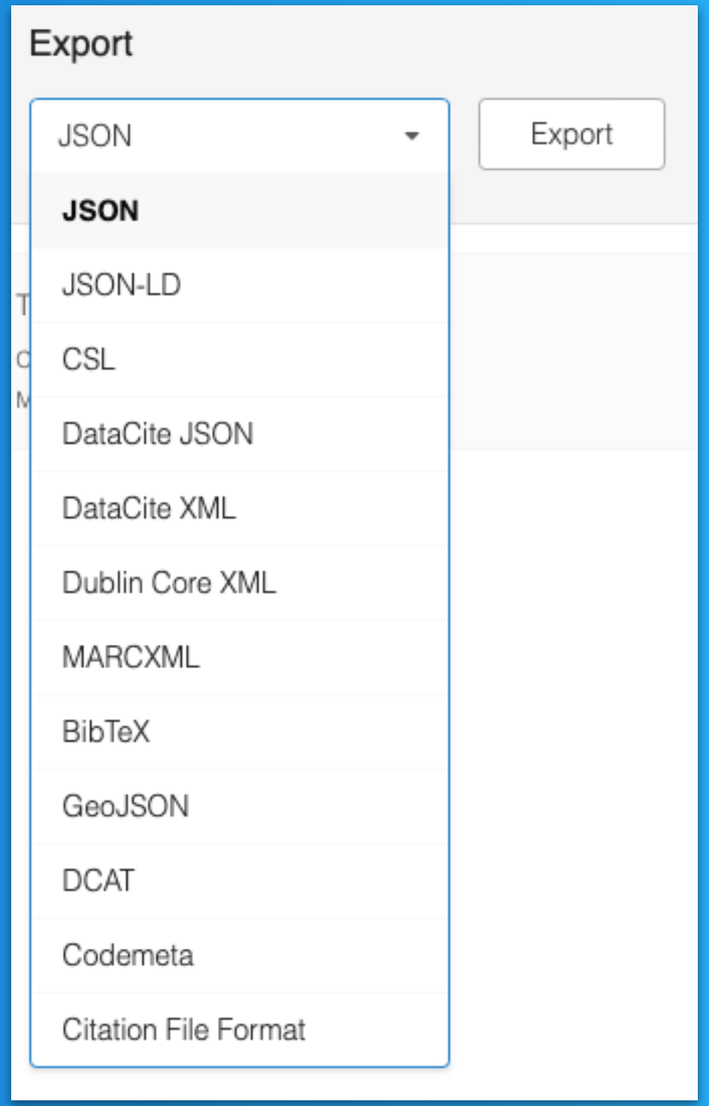
Interdisciplinary metadata





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▸ Biodiversity

Family
Formicidae

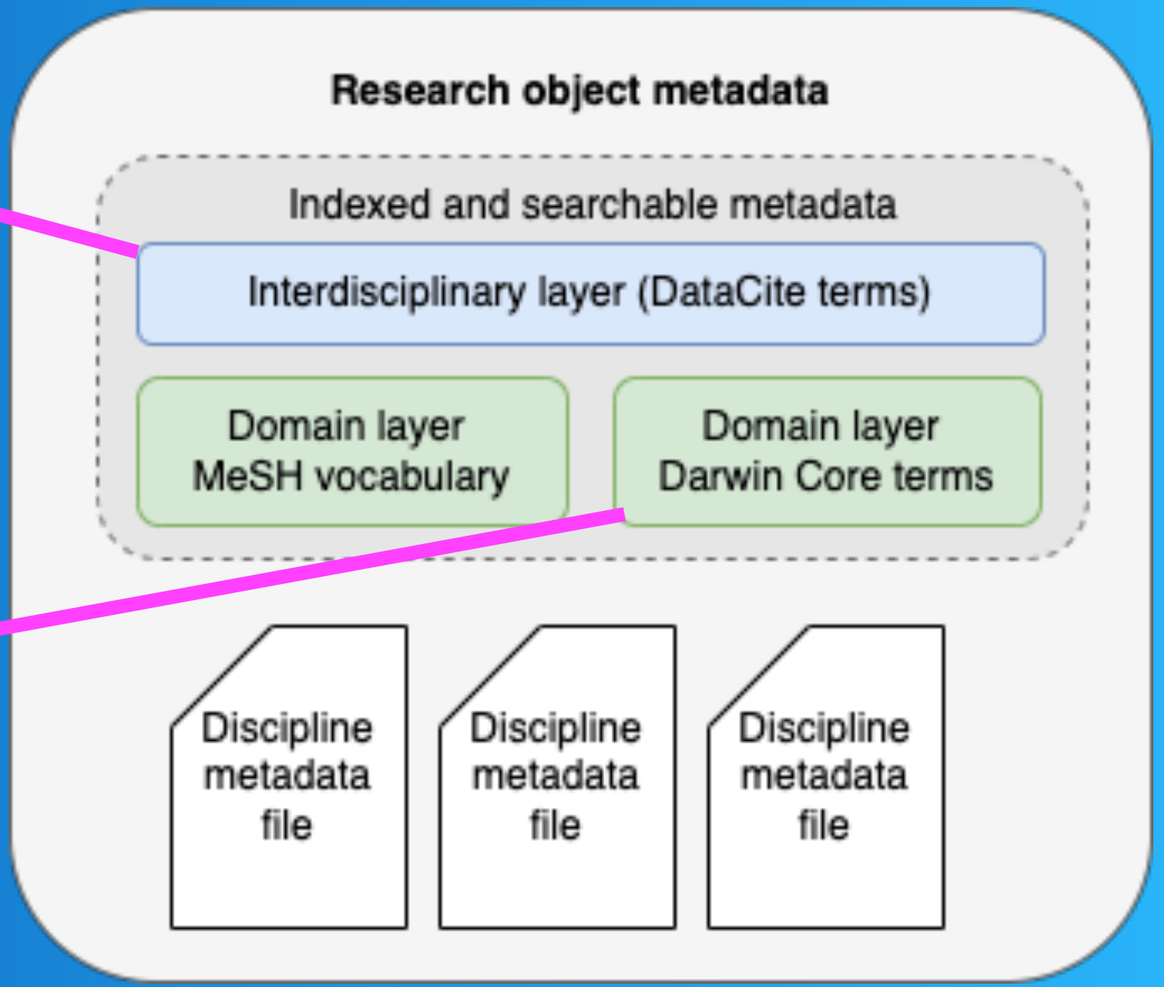
Kingdom
Animalia

Order
Hymenoptera

Phylum
Arthropoda

Scientific name authorship
Lepeletier de Saint-Fargeau

Taxon rank
subFamily



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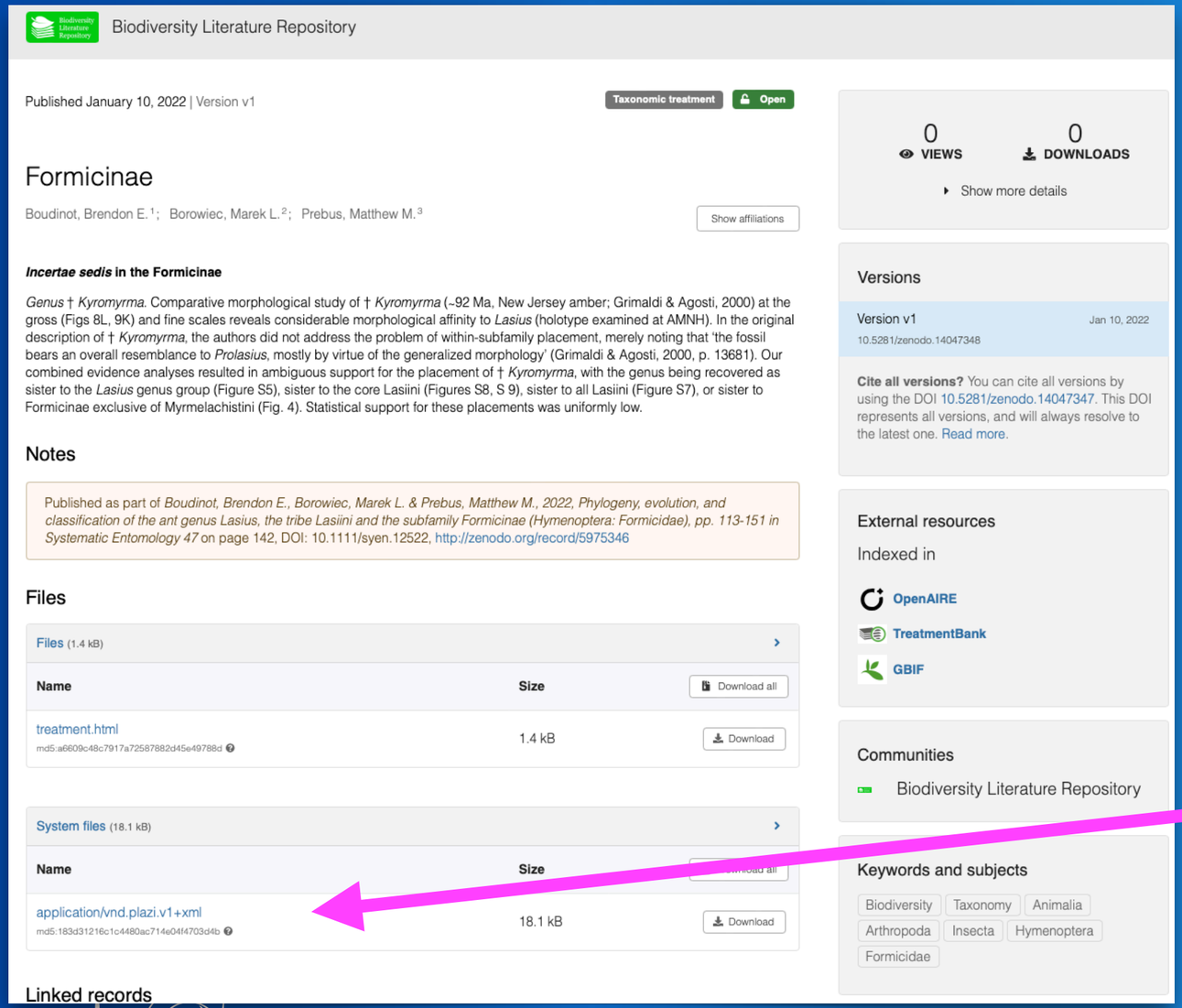

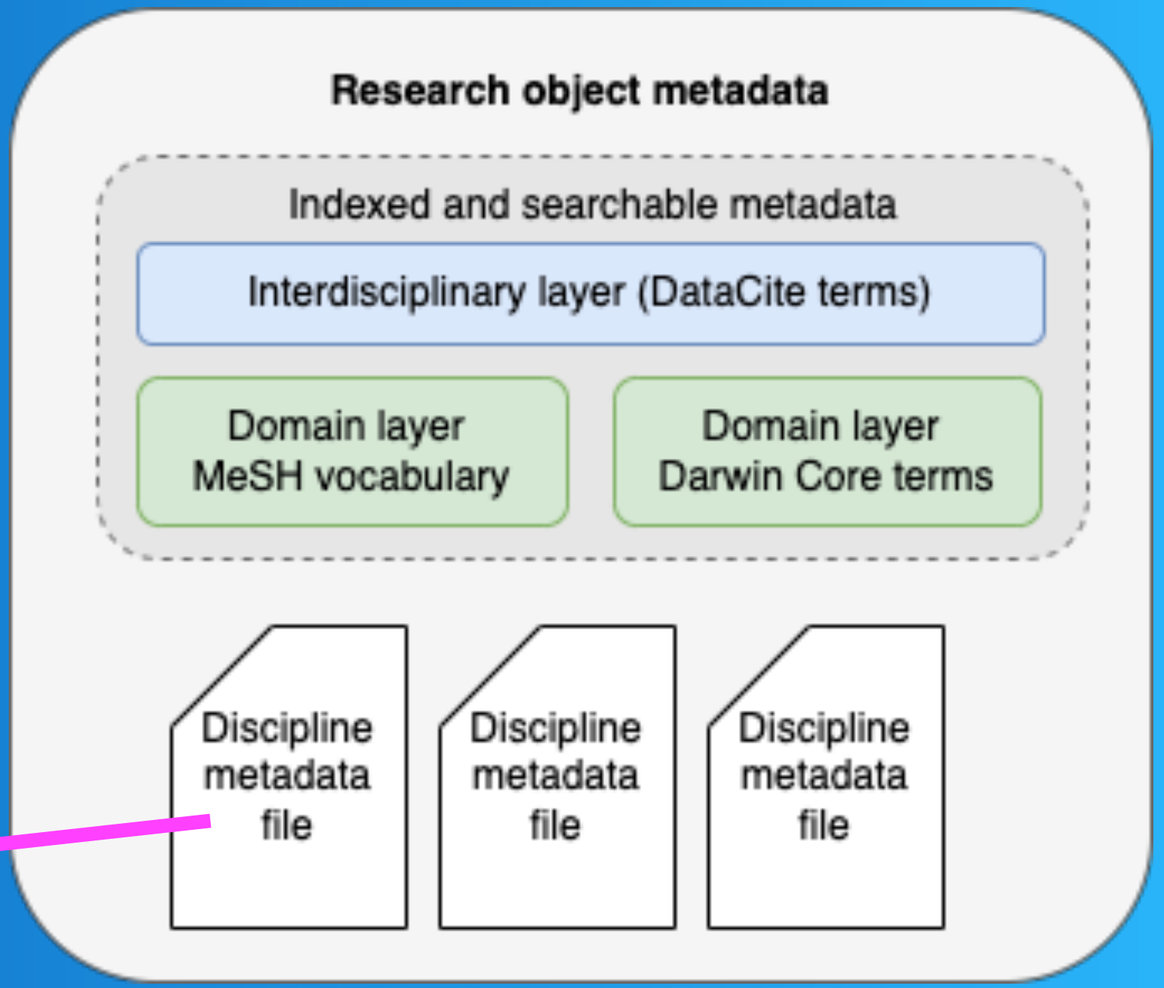

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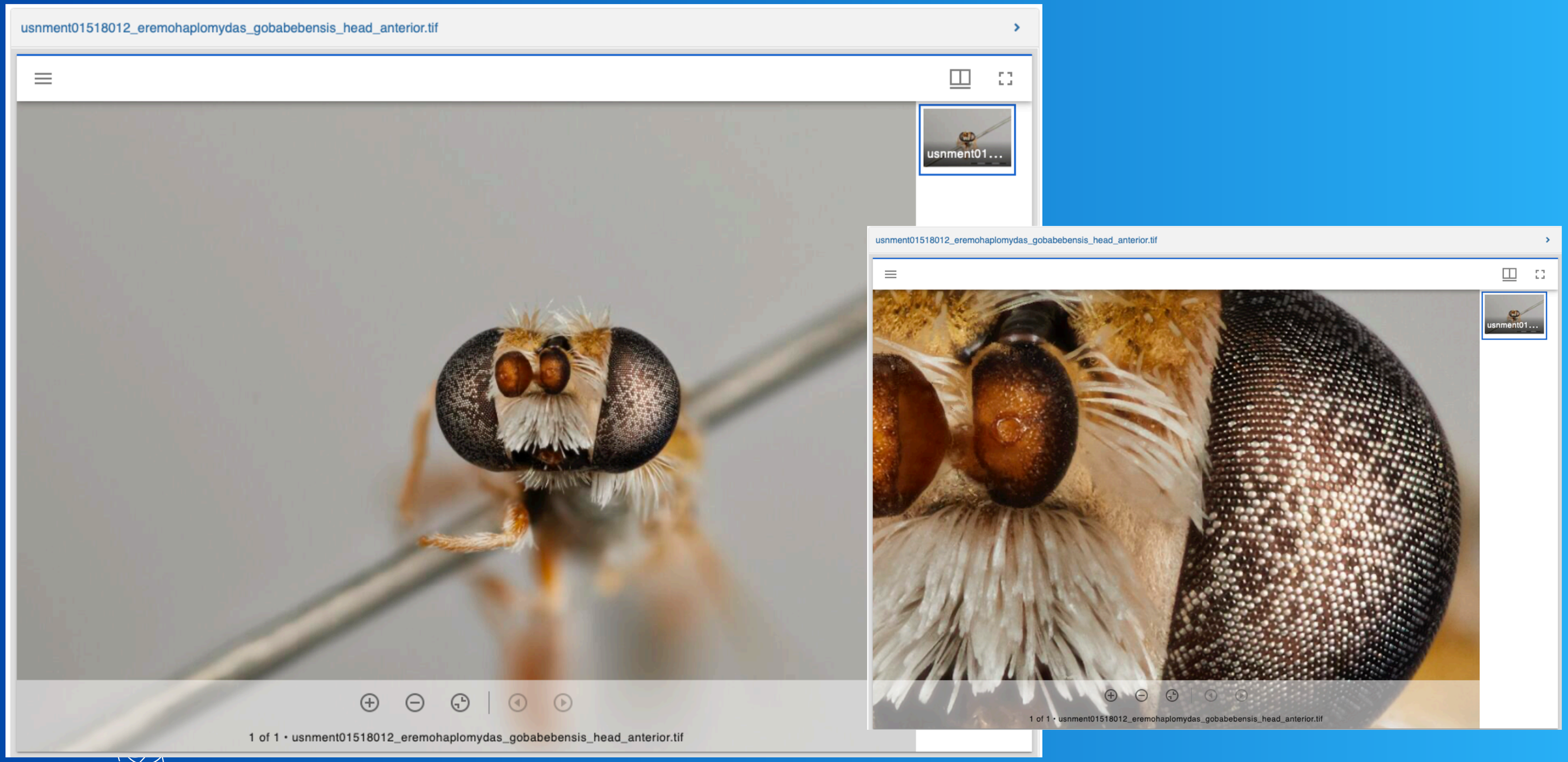

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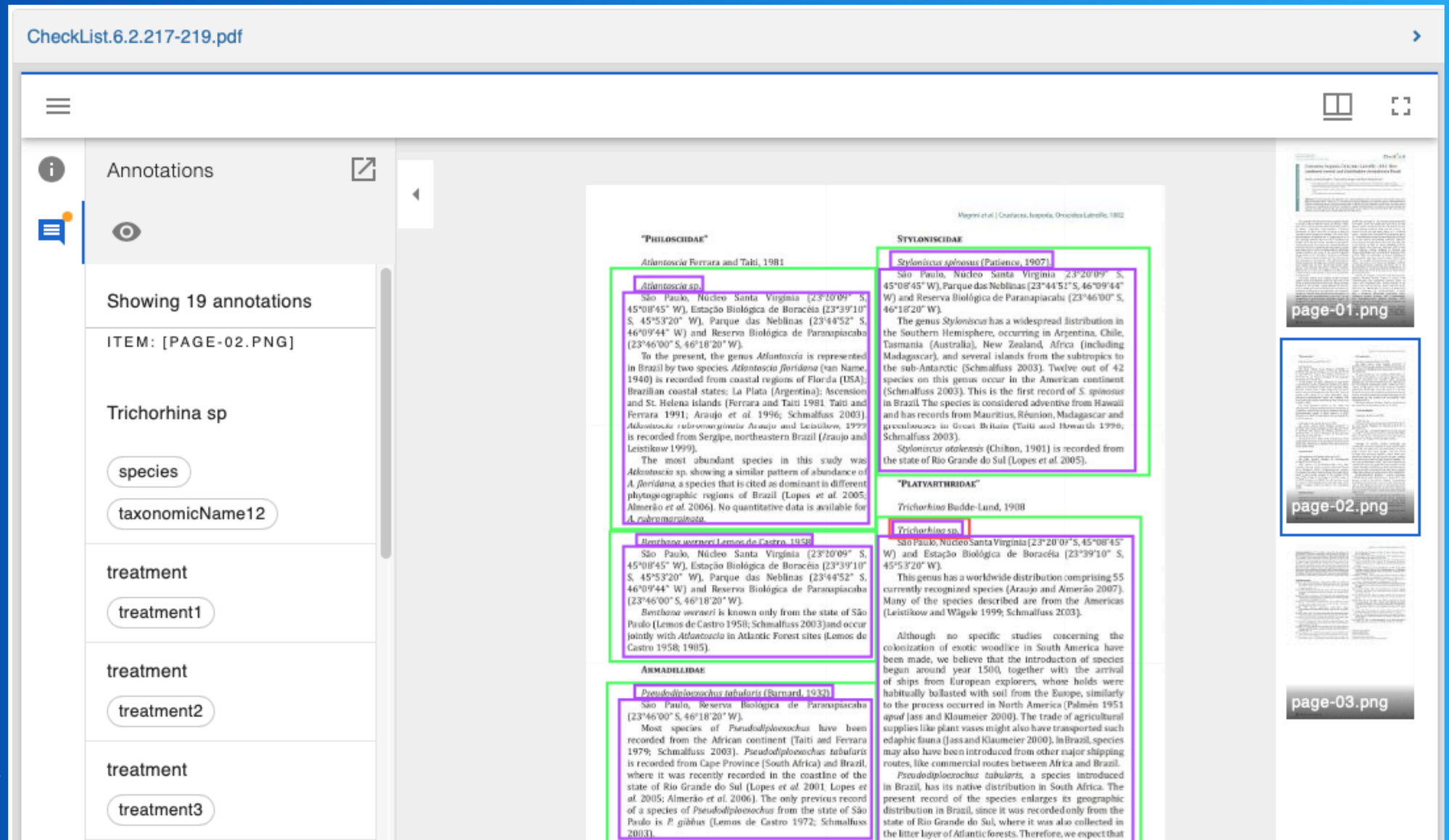

How do machines access?

FAIR Signposting

```
lnielsen@lnielsen-mbp16-10 ~ % curl -I -X HEAD https://zenodo.org/records/13325981
HTTP/1.1 200 OK
server: nginx
date: Wed, 06 Nov 2024 22:12:57 GMT
content-type: text/html; charset=utf-8
content-length: 91348
vary: Accept-Encoding
link: <https://zenodo.org/api/records/13325981> ; rel="linkset" ; type="application/linkset+json"
```

FAIR Signposting

```
lnielsen@lnielsen-mbp16-10 ~ % curl -X GET -H "Accept: application/linkset+json" https://zenodo.org/api/records/13325981 | jq
  % Total    % Received % Xferd  Average Speed   Time    Time     Time  Current
                                 Dload  Upload   Total   Spent    Left  Speed
100  2061  100  2061    0     0   8243      0 --:--:-- --:--:-- --:--:--  8277
{
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        }
      ],
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        },
        {
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          "type": "application/json"
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Embedded JSON-LD


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<script type='application/ld+json'>{"@context": "http://schema.org", "@id": "https://doi.org/10.5281/zenodo.13325981", "@type": "https://schema.org/Scholarly
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demonstrates the generation of DataCite and Darwin Core metadata using DataFutures \u003cem\u003eannostor\u003c/em\u003e, to improve \ndiscovery. Individual page
the original publication, providing a \ncoordinate framework for taxonomic treatment annotations using W3C\u0027s Web Annotation Data Model (WADM). Annotations fr
can be converted to WADM, enabling display, editing by experts and long-term \npreservation.\u003c/p\u003e", "editor": [{"@type": "Organization", "name": "2010 Ch
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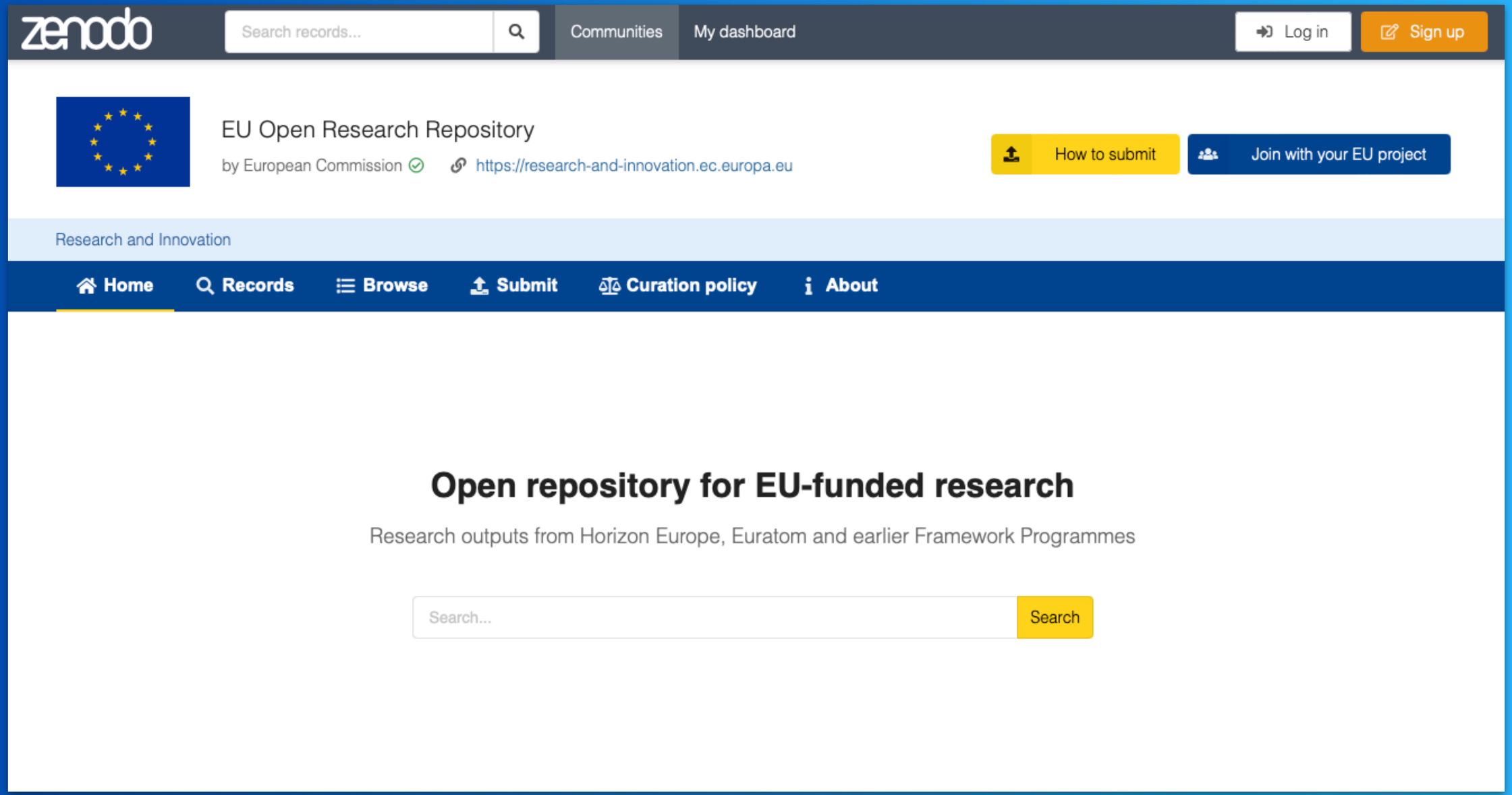
What about researchers?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Research outputs from Horizon Europe, Euratom and earlier Framework Programmes
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Search

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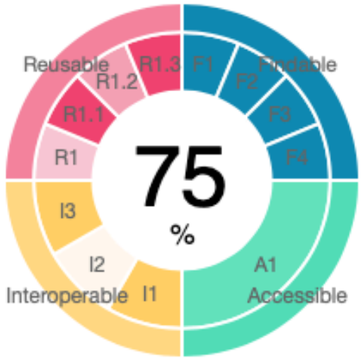
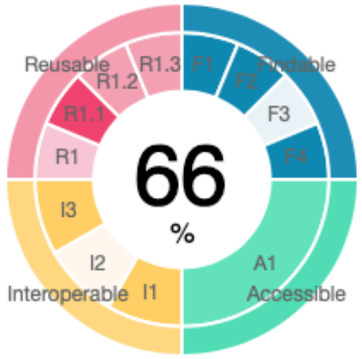
Can we integrate FAIR evaluation tools?



	Score earned:	Fair level:
Findable:	7 of 7	advanced
Accessible:	2 of 3	moderate
Interoperable:	3 of 4	moderate
Reusable:	6 of 10	moderate



	Score earned:	Fair level:
Findable:	6 of 7	moderate
Accessible:	2 of 3	moderate
Interoperable:	3 of 4	moderate
Reusable:	5 of 10	moderate

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Challenges

GET https://zenodo.org/records/1234

200 OK

Success

Challenges: Unpublished

zenodo

GET https://zenodo.org/uploads/1234

403 FORBIDDEN

Fail

GET https://zenodo.org/uploads/1234?token=…

200 OK

Success

Challenges: DOI not yet registered

zenodo

GET https://doi.org/10.5281/zenodo.1234

404 NOT FOUND

Fail

=> Lower FAIR score outside of control of user

Failed tests due to unregistered DOI

- FsF-F1-02D (fail): Data is assigned a persistent identifier.
- FsF-F4-01M (lower score): Metadata is registered in major research data registries (DataCite).
- FsF-I1-01M (fail): Parsable, graph data (RDF, JSON-LD) is accessible through content negotiation, typed links or sparql endpoint.

What then?

Metadata: Automated checks + Subject information

Data curation: File format checks

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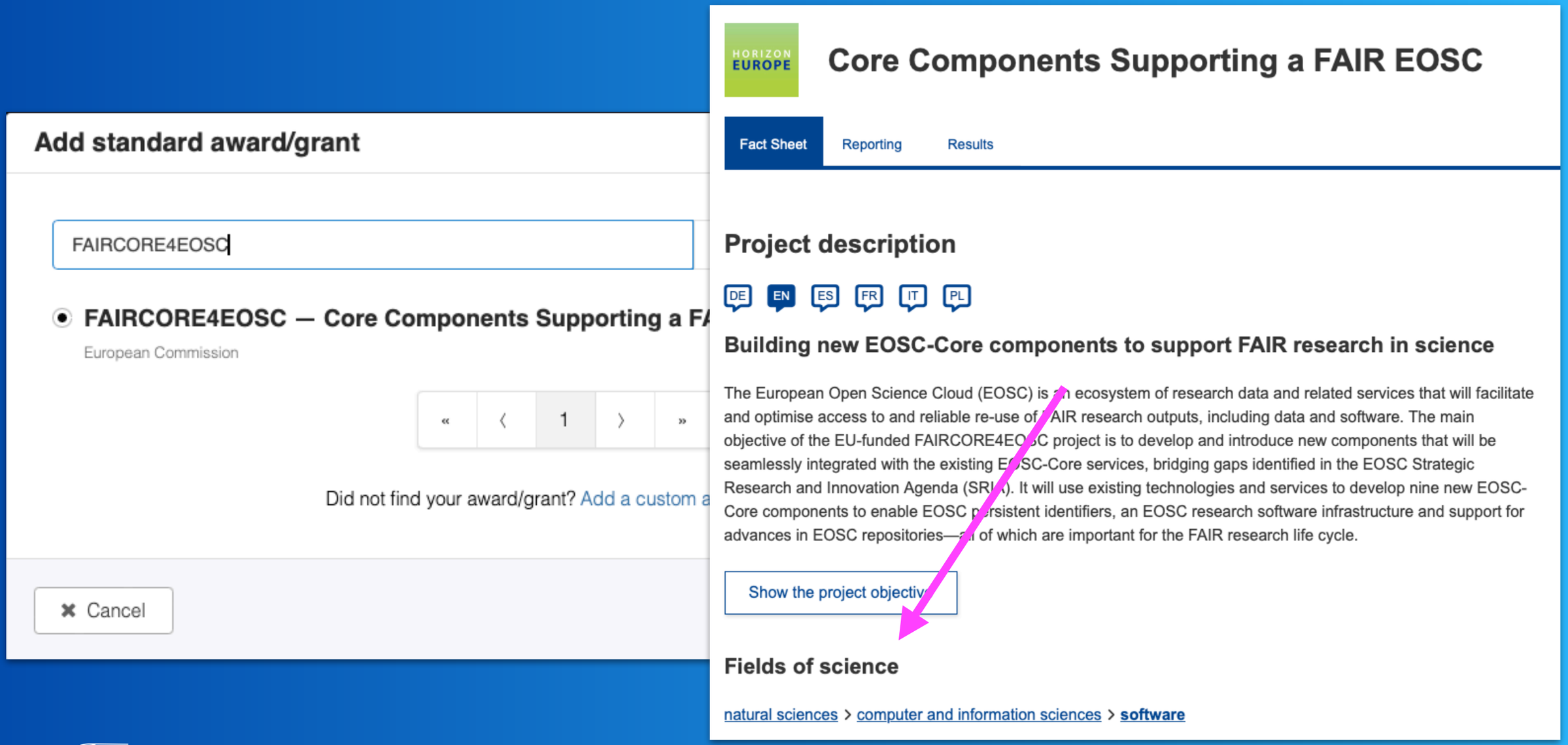
Subject information



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Subject information

Subject — Grant — Record

Subjects

Social Sciences — 42,392

- Economics and business (21,861)
- Educational sciences (4,819)
- Law (2,562)
- Media and communications (696)
- Political sciences (12,602)
- Psychology (1,136)
- Social geography (2,125)
- Sociology (21,395)
- Other social sciences (1)

Natural Sciences — 64,051

- Earth And Related Environmental Sciences (14,220)
- Mathematics (3,243)
- Biological Sciences (25,085)
- Chemical Sciences (6,763)
- Physical Sciences (16,030)
- Computer And Information Sciences (35,886)
- Other Natural Sciences (0)

Engineering and technology — 40,670

- Chemical Engineering (672)
- Civil Engineering (3,820)
- Electrical, Electronic and Information Engineering (18,958)
- Environmental Biotechnology (685)
- Environmental Engineering (15,335)
- Industrial Biotechnology (1,633)
- Materials Engineering (5,730)
- Mechanical Engineering (8,483)
- Medical Engineering (729)
- Nanotechnology (3,176)
- Other Engineering And Technologies (3,762)

Humanities — 13,946

- Arts (6,424)
- History And Archaeology (9,792)
- Languages And Literature (1,897)
- Philosophy, Ethics And Religion (956)
- Other Humanities (4,666)

Agricultural sciences — 14,807

- Agriculture, Forestry, And Fisheries (12,351)
- Animal And Dairy Science (1,974)
- Veterinary Sciences (70)
- Other Agricultural Sciences (0)

Medical and Health sciences — 14,506

- Basic Medicine (5,990)
- Clinical Medicine (4,621)
- Health Sciences (8,030)
- Medical Biotechnology (1,763)
- Other Medical Sciences (156)

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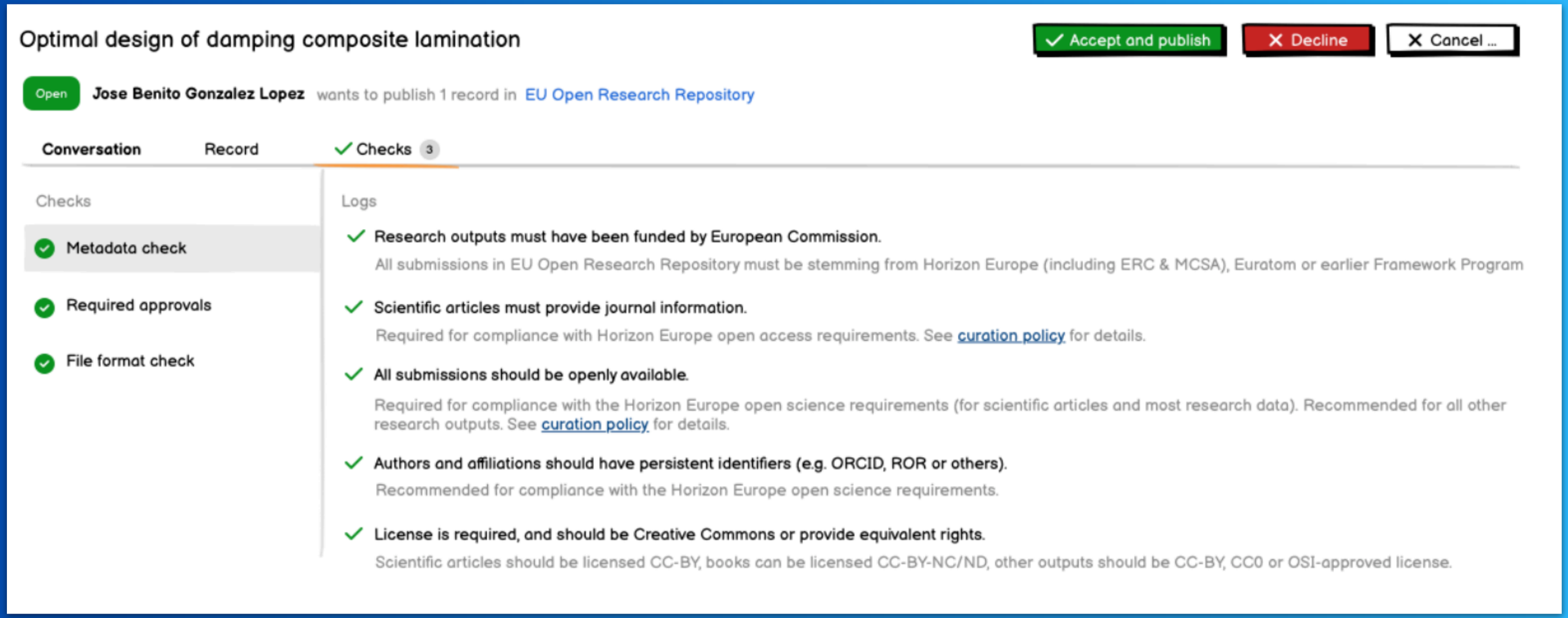
Metadata and data curation



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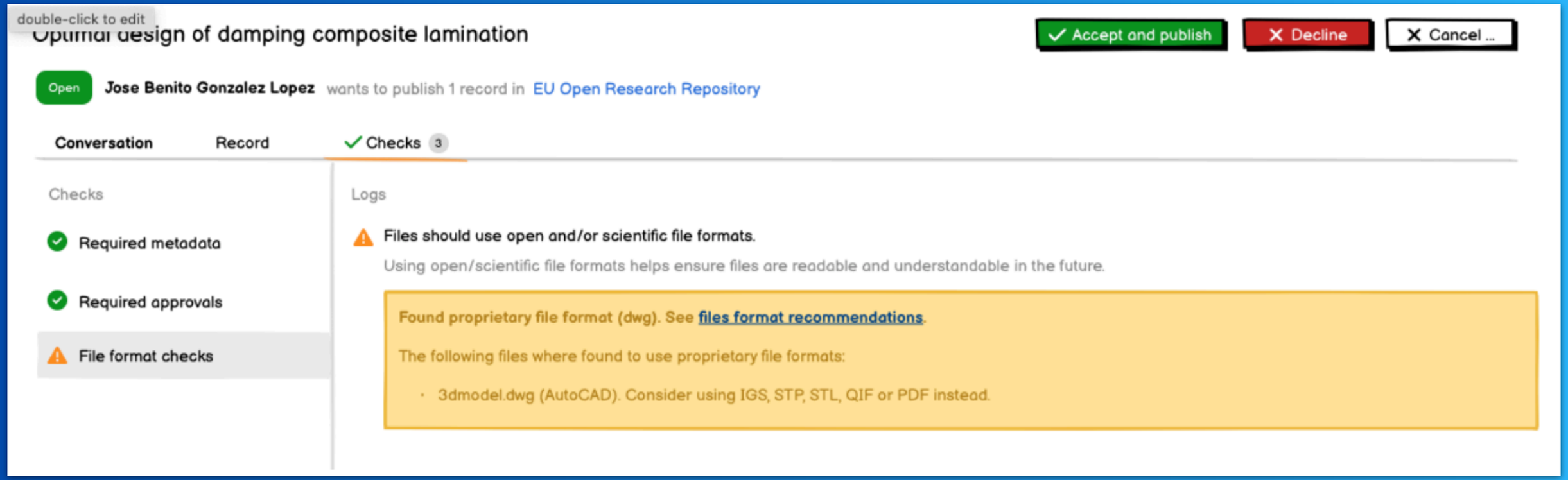
Metadata and data curation



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The current incompatibilities of the platforms and tools make it impossible to access existing information through a common interface, leading to waste of time, frustration and obsolete answers to simple data lookup.

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WorldWideWeb:

Proposal for a HyperText Project

T. Berners-Lee / CN, R. Cailliau / ECP

Abstract: *HyperText is a way to link and access information of various kinds as a web of nodes in which the user can browse at will. Potentially, HyperText provides a single user-interface to many large classes of stored information such as reports, notes, data-bases, computer documentation and on-line systems help. We propose the implementation of a simple scheme to incorporate several different servers of machine-stored information already available at CERN, including an analysis of the requirements for information access needs by experiments.*

Introduction

The current incompatibilities of the platforms and tools make it impossible to access existing information through a common interface, leading to waste of time, frustration and obsolete answers to simple data lookup. There is a potential large benefit from the integration of a variety of systems in a way which allows a user to follow links pointing from one piece of information to another one. This forming of a web of information nodes rather than a hierarchical tree or an ordered list is the basic concept behind HyperText.

Source: Berners-Lee & Cailliau (1990). WorldWideWeb : proposal for a HyperText Project. https://cds.cern.ch/record/2639699