

FAIRsharing.org

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CODATA



GO FAIR



FAIRsharing.org

- A FAIR-supporting resource that provides a **registry** on **data standards, repositories and policy**, alongside search and visualization **tools** and **services** that interoperate with other FAIR-enabling services

Standards and Databases

Standards and Policies

Databases and Policies

Standards and Databases and Policies

Search FAIRsharing

Search

Standards Databases Policies Collections/Recommendations

Advanced Search

Fine grained control over your search.

Search Wizard

ask FAIRsharing

Let us guide you to your results.

1269 Standards

Terminology Artifact
Model/Format
Reporting Guideline
Identifier Schema

727
380
154
8

[View all](#)

1141 Databases

Life Science
Biomedical Science
General Purpose

838
204
27

[View all](#)

115 Policies

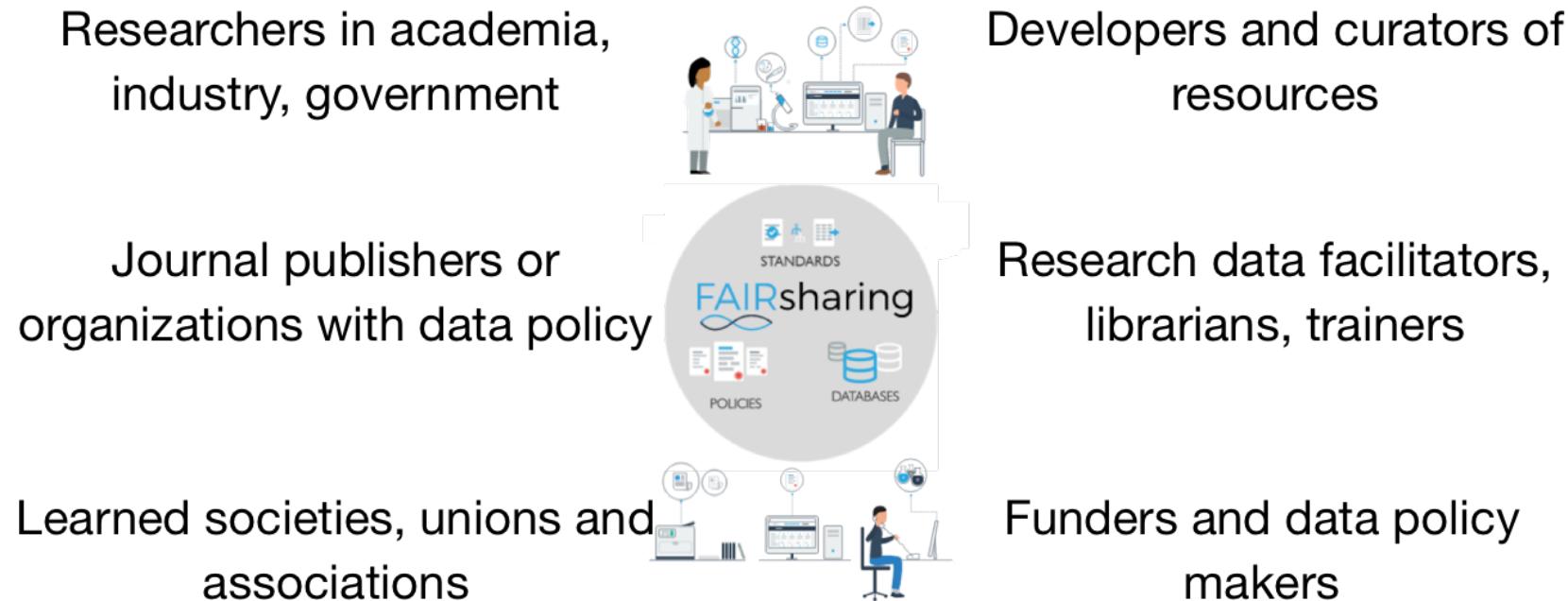
Funder
Journal
Society

23
80
8

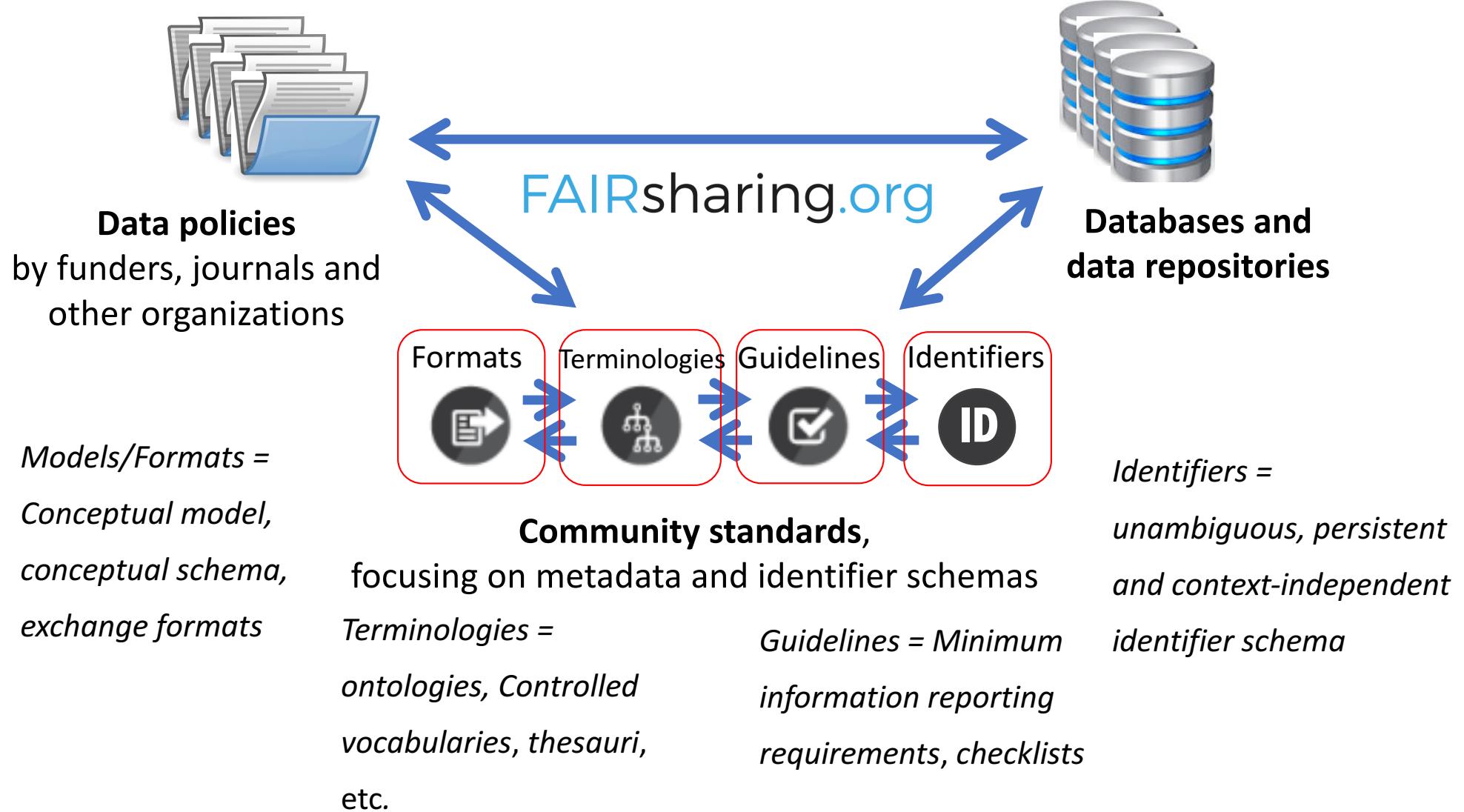
[View all](#)

Our mission is to increase:

- guidance to **consumers** of **standards**, **databases**, and **data policies**, to accelerate the discovery, selection and use of these resources; and
- **producer** satisfaction in terms of **resource** visibility, reuse, adoption and citation



Interlinking the landscape of standards, databases, repositories and data policies



Community verified status indicators



R Ready for use, implementation, or recommendation



Dev In development

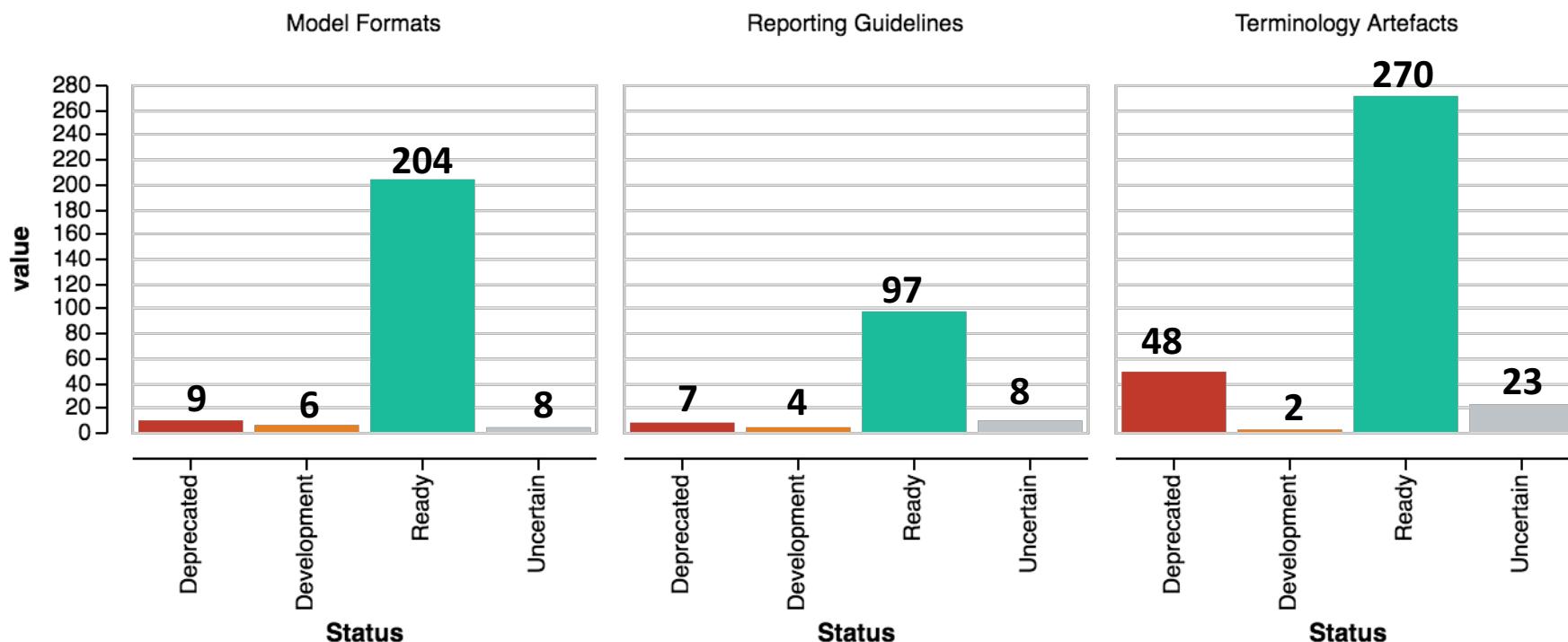


U Status uncertain



D Deprecated as subsumed or superseded

All records are **manually curated**
in-house and verified by the
community behind each resource



Example of a record describing
a data resource

R Global Biodiversity Information Facility

Abbreviation:GBIF

General Information

GBIF, the Global Biodiversity Information Facility, is an international open data infrastructure, funded by governments. It is not a data repository. Rather, GBIF indexes thousands of datasets shared freely by hundreds of institutions worldwide making it the biggest biodiversity database on the Internet. GBIF.org makes the data discoverable and citable, assigning each download a DOI and storing it for an extended period of time. More than 1 peer-reviewed research publication citing GBIF as a source of data is published every day, in studies spanning the impacts of climate change, the spread of pests and diseases, priority areas for conservation and food security. To share your data with GBIF follow this quick guide: <http://www.gbif.org/publishing-data/quick-guide> To deposit/host your data, it is recommended you use one of the trusted IPT data hosting centres (DHC) listed in FAIRsharing.org. The DHC will provide you with an account on their IPT, which will allow you to manage your own datasets and publish them through GBIF.org.

How to cite this record: FAIRsharing.org: GBIF; Global Biodiversity Information Facility; DOI: <https://doi.org/10.25504/FAIRsharing.zv11j3>; Last edited: Feb. 22, 2018, 2:57 p.m.; Last accessed: Mar 20 2018 8:30 p.m.

Homepage <http://www.gbif.org>

Developed in Worldwide

Created in 2001

Taxonomic range

All

Scope and data types

 Biodiversity  Bioinformatics Tools And Formats  Life Science  Taxonomic Classification

In the following recommendations:

SCIENTIFIC DATA 

(GIGA)ⁿ
SCIENCE

 BioMed Central
The Open Access Publisher

 PLOS

R Global Biodiversity Information Facility

Abbreviation:GBIF

Support

General

blog	http://gbif.blogspot.dk
contact form	http://www.gbif.org/contact/contact-us
support email	info@gbif.org
support email	helpdesk@gbif.org
Mailing List	None
online documentation	http://www.gbif.org/disclaimer/datasharing
twitter	@GBIF

Additional Information

Contact	GBIF Secretariat
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Related Standards

Terminology Artifacts

[Darwin Core](#)

Models and Formats

- [TDWG Access Protocol for Information Retrieval](#)
- [Access to Biological Collection Data](#)
- [Ecological Metadata Language](#)

Credit

Record Maintainer

This record is maintained by [gbifs](#) and [kbraak](#)

Maintains

[Global Biodiversity Information Facility \(GBIF\), Copenhagen, Denmark](#)

Access / Retrieve Data

Conditions of Use

Applies to: Data use

[Creative Commons Attribution 4.0 International \(CC BY 4.0\)](#)

[Creative Commons CC0 1.0 Universal \(CC0 1.0\) Public Domain Dedication](#)

[Creative Commons Attribution-NonCommercial 4.0 International \(CC BY-NC 4.0\)](#)

Applies to: Database software

[Apache License 2.0](#)

Data Release

How To Publish	http://www.gbif.org/publishing-data/summary
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Data Access

Literature Tracking	http://gbif.org/mendeley
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Search Occurrence	http://www.gbif.org/occurrence
-------------------	---

Search Dataset	http://www.gbif.org/dataset
----------------	---

Search Species	http://www.gbif.org/species
----------------	---

Browse By Country	http://www.gbif.org/country
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REST Web Services

GBIF API	http://www.gbif.org/developer/summary	http://api.gbif.org/v1/
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Mapping the landscape



International Virtual Observatory Alliance (IVOA)

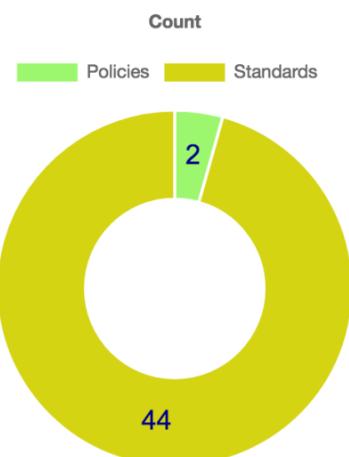
The Virtual Observatory (VO) is the vision that astronomical datasets and other resources should work as a seamless whole. Many projects and data centres worldwide are working towards this goal. The International Virtual Observatory Alliance (IVOA) is an organisation that debates and agrees the technical standards that are needed to make the VO possible. It also acts as a focus for VO aspirations, a framework for discussing and sharing VO ideas and technology, and body for promoting and publicising the VO. This collection lists the documents & standards agreed by IVOA.

This record is maintained by: carviset

Record added: March 15, 2018, 12:56 p.m.

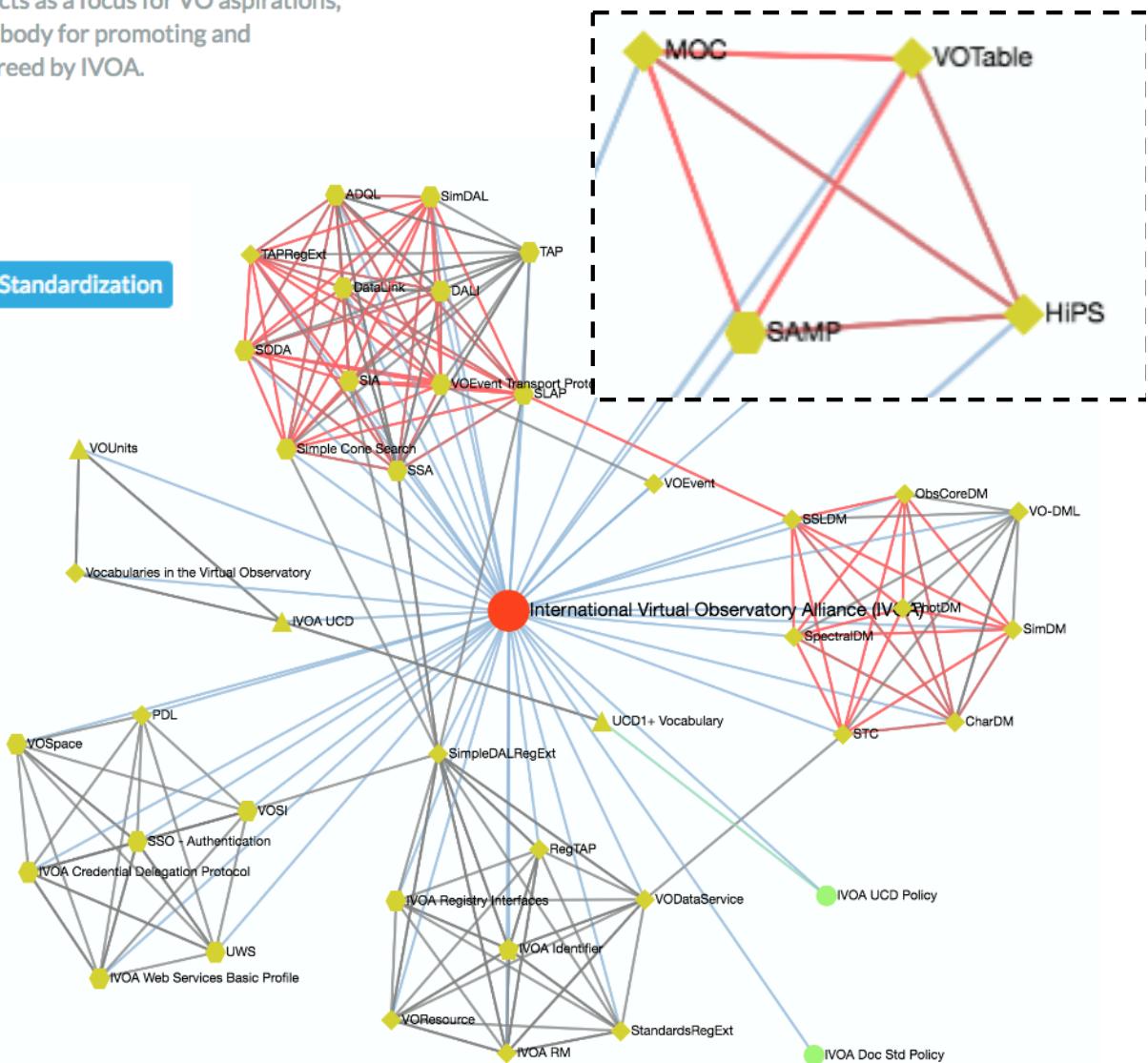
Record updated: Oct. 11, 2018, 9:57 a.m. by carviset

Scope and data types



- The legend consists of nine entries, each with a colored circular icon and a corresponding label:

 - ORANGE CIRCLE: DATABASE
 - GREEN CIRCLE: POLICY
 - RED CIRCLE: COLLECTION
 - YELLOW TRIANGLE: TERMINOLOGY ARTIFACT
 - YELLOW DIAMOND: MODEL FORMAT
 - YELLOW HEXAGON: IDENTIFIER SCHEMA
 - YELLOW OCTAGON: REPORTING GUIDELINE
 - GREEN LINE: RECOMMENDS
 - BLUE LINE: COLLECTS
 - RED LINE: RELATED TO



SCIENTIFIC DATA

A biologically-centered subset of Scientific Data's recommended repositories and standards across all domains. Scientific Data is a journal published by Springer Nature.

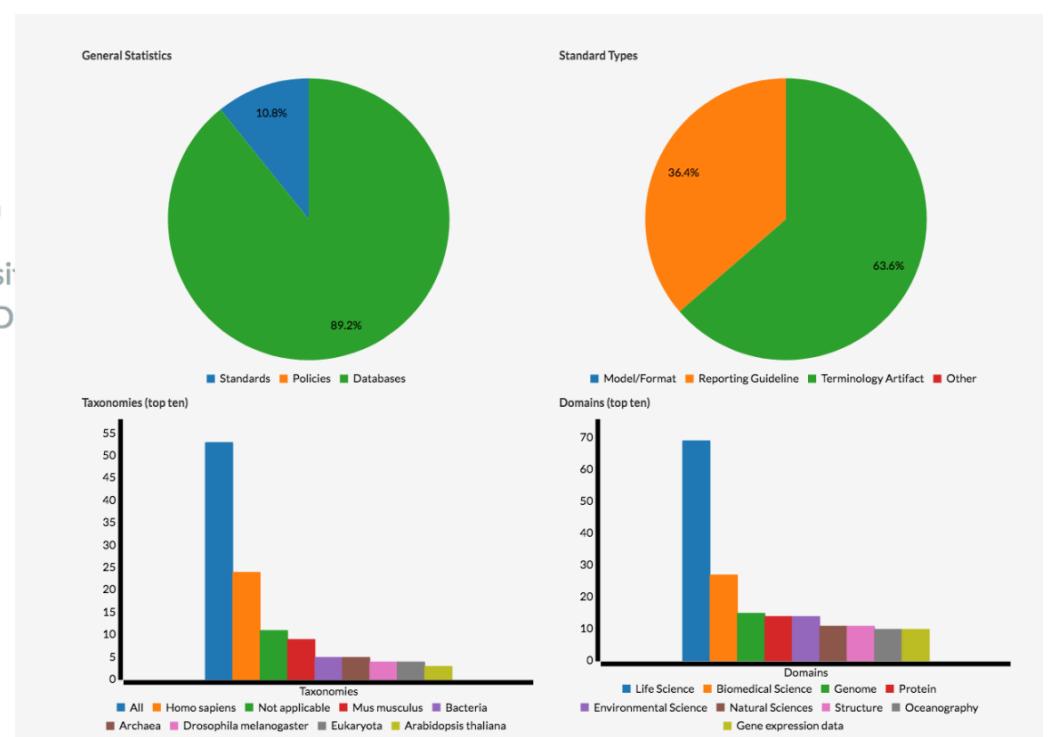
This record is maintained by: [ScientificData](#)

This recommendation is taken from the following policy:

Scientific Data Data Policy.

Record updated: Oct. 11, 2017, 11:51 a.m. by [The FAIRsharing Team](#).

[Homepage](#) [Reference](#)



View as Table View as Grid

Sort by Best Match

Recommended Records

Associated Publication?

No Publication Has Publication

Claimed?

No Maintainer Has Maintainer

Record Status

Uncertain Deprecated In development Ready

Standard Type

Terminology Artifact 7
Reporting Guideline 4

Registry

Database 91

Showing records 1 - 50 of 102.

Ag Data Commons DATABASE

ADS Archaeology Data Service DATABASE

ArrayExpress DATABASE

RECOMMENDED

RECOMMENDED

RECOMMENDED

Standards 7
Publications 0
In Collections 1
Recommended 1

Standards 0
Publications 0
In Collections 0
Recommended 1

Standards 7
Publications 2
In Collections 3
Recommended 13

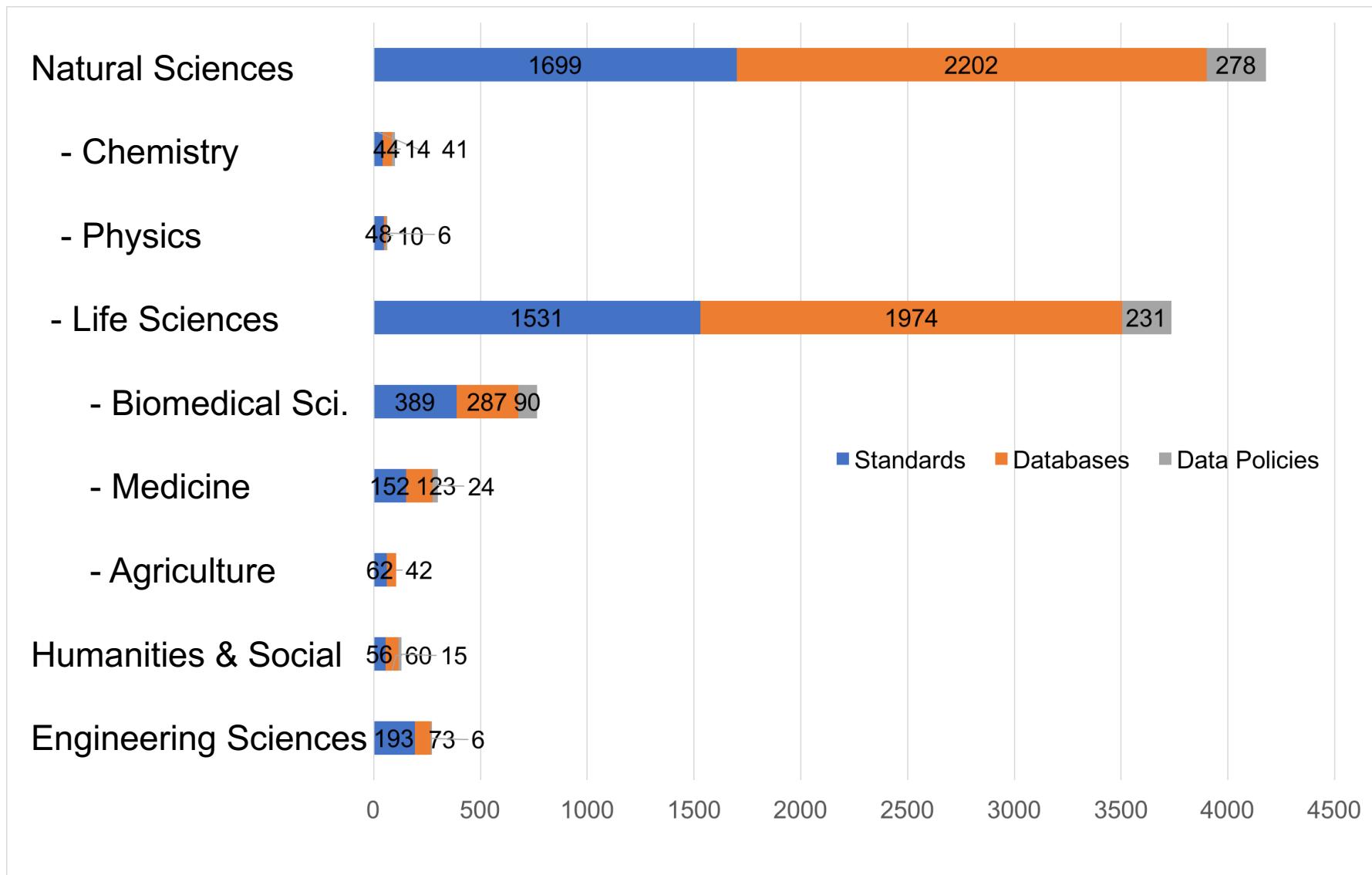
9 Taxa types, including:
 All Animalia Archaea Bacteria
 Chromista Fungi Plantae Protozoa

43 Data types, including:
 Agricultural Products Agriculture
 Agroecology Agroecosystem Agronomy

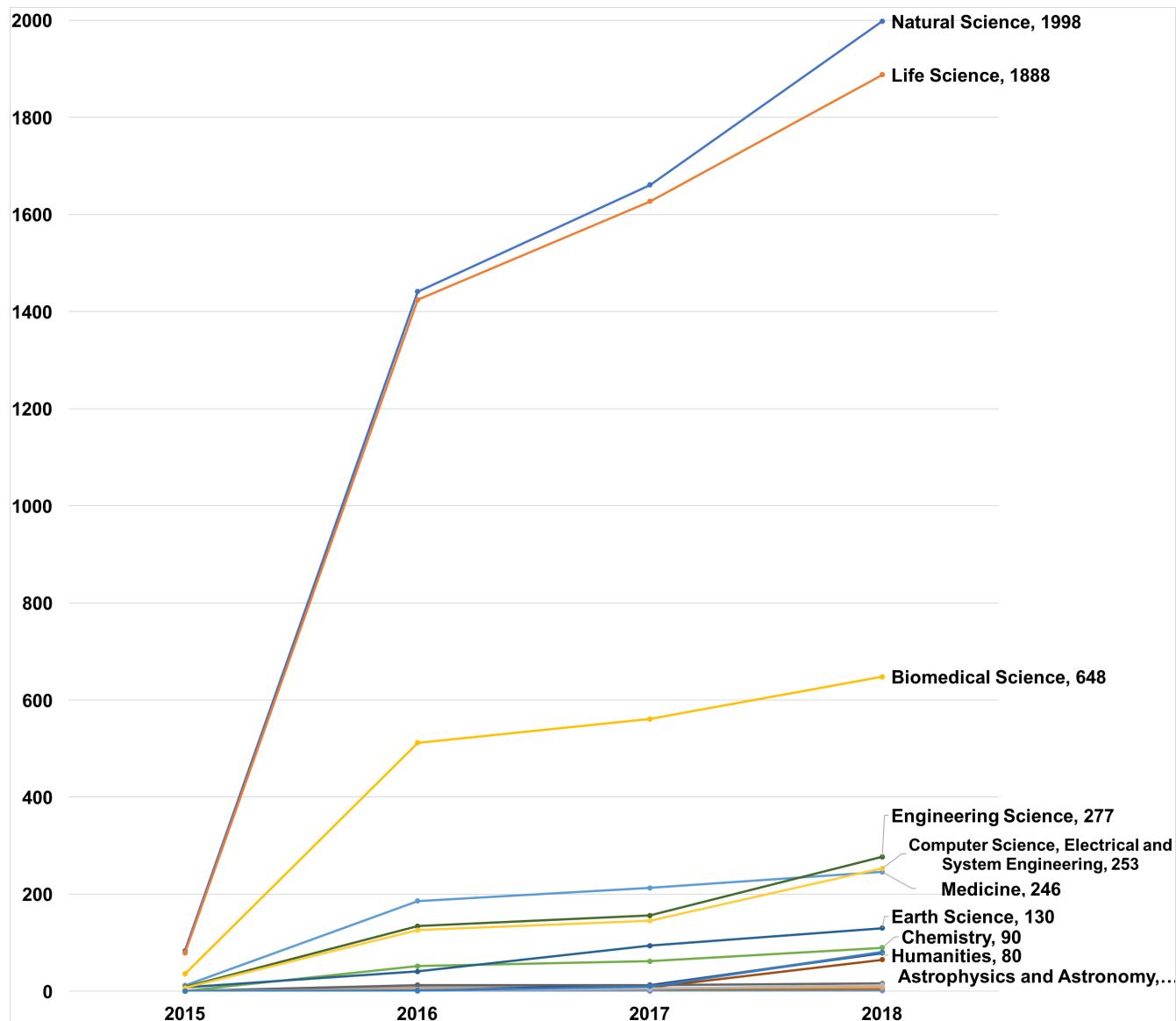
4 Data types, including:
 Classical Archeology History Humanities
 Natural Sciences

9 Data types, including:
 DNA Microarray Gene Expression Data
 Genotyping Life Science Methylation

Breakdown by selected ontology terms of current coverage



Overall growth for each term (standards, databases, policies combined)



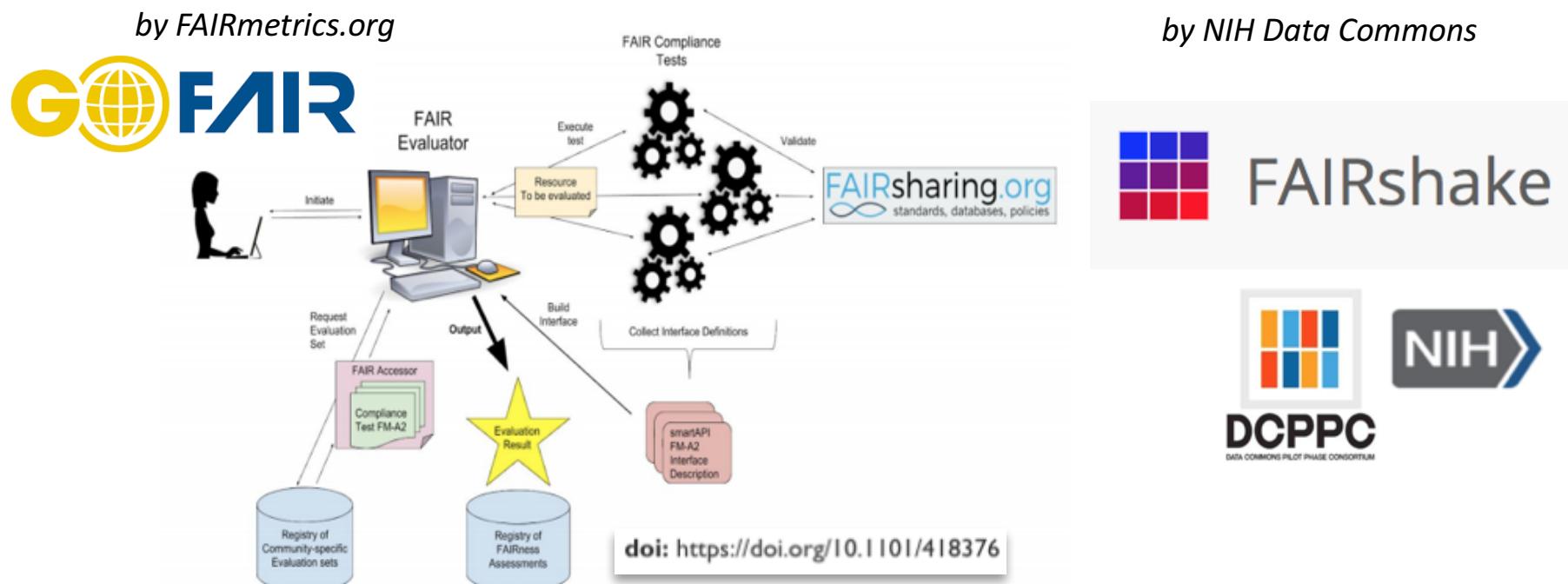
FAIRsharing enables the FAIR principles

Ensures that **standards, databases, repositories, policies** are:

- **Findable**, e.g., by [providing DOIs](#) and [marking up records in schema.org](#), allowing users to register, claim, maintain, interlink, classify, search and discover them
- **Accessible**, e.g., identifying their level of openness and/or [license type](#)
- **Interoperable**, e.g., highlighting [which repositories implement the same standards](#) to structure and exchange data
- **Reusable**, e.g., knowing the coverage of a standard and its [level of endorsement](#) by a number of repositories should encourage its use or extension in neighboring domains, rather than reinvention

FAIRsharing underpins the FAIR metrics

- FAIRsharing works with FAIR assessment tools to serve as:
 - **Registry** to describe digital assets, such as databases/repositories, standards, policies, enhancing their discoverability (schema.org), citability (DOIs)
 - **Look up service** for identifier schemas and standards (phase 1: now)
 - **Validation service** against metadata standards (phase 2: planned)





The FAIRsharing Registry and Recommendations

Working Groups outputs:

1. A set of **recommendations**
 - to guide users and producers of standards and databases to select and describe these resources, or to recommend them in data policies
2. A **registry** of curated and interlinked records on
 - **standards** (for identifying, reporting, and citing data and metadata),
 - **databases** (repositories and knowledge-bases) and
 - **data policies** (from journal publishers, funders, other organizations)

FAIRsharing and the Libraries

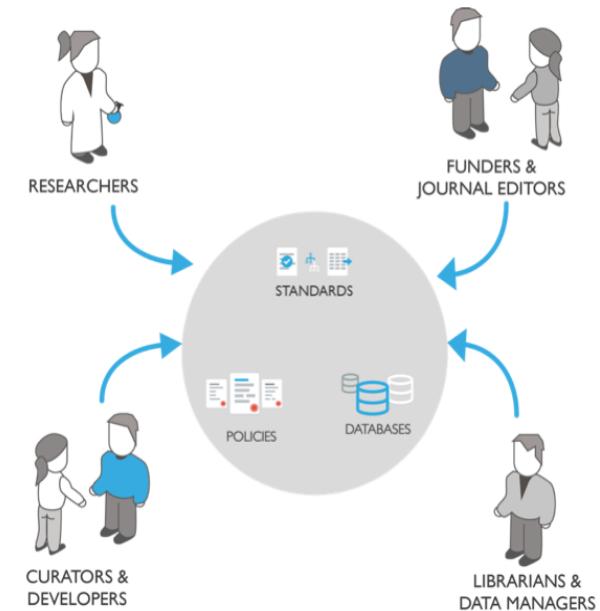
How we can help you:

- Use FAIRsharing to help create your data policies
- Use FAIRsharing to create data management plans
- Formally cite these resources using their record DOI and the 'how to cite this record' statements provided



How you can help us:

- Tell us what's missing
- Help make a FAIRsharing collection for Librarians, grouping together all relevant resources





DEPARTMENT OF ENGINEERING SCIENCE



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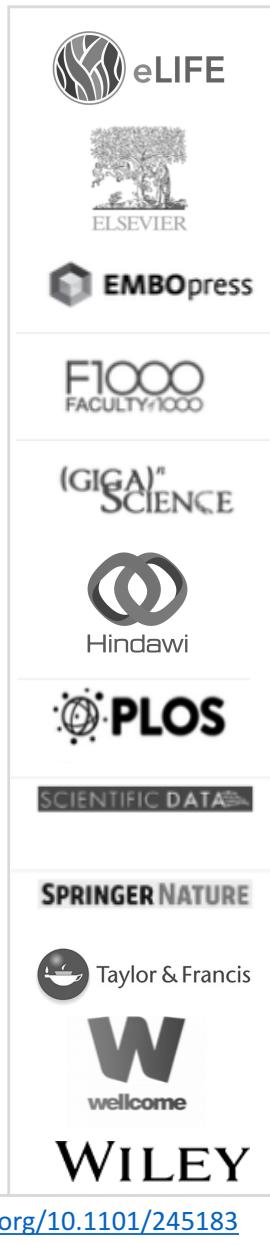
@FAIRsharing_org

Advisory Board and RDA/Force11 Working Group Members

Emma Ganley (PLOS) Co-chair
Varsha Khodiyar (NPG) Co-chair
Michael Ball (ESRC)
Theo Bloom (BMJ)
Jennifer Boyd (OUP)
Dave Carr (The Wellcome Trust and Wellcome Open Research)
Helena Cousijn (Elsevier)
Scott Edmunds (GigaScience, BGI)
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Imma Subirats (Information Management Officer, FAO of the United Nations, Italy)
Marta Teperek (Data Stewardship Coordinator, TU Delft, The Netherlands)
Michael Witt (re3data; Purdue University Libraries)

For more info:
fairsharing.org/communities

Adopters, collaborators and users from academia, industry, funders, standards organizations, infrastructure providers and scholarly publishers include:



Community paper: doi.org/10.1101/245183

To find out more...

FAIRsharing, a cohesive community approach to the growth in standards, repositories and policies

nature
biotechnology

CC BY

Susanna-Assunta Sansone, Peter McQuilton, Philippe Rocca-Serra,
 Alejandra Gonzalez-Beltran, Massimiliano Izzo, Allyson Lister, Milo Thurston,
 Dominique Batista, Ramon Granell, Melanie Adekale, Delphine Dauga,
 Emma Ganley, Simon Hodson, Rebecca Lawrence, Varsha Khodiyar,
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 Theodora Bloom, Vivien Bonazzi, Rafael Jimenez, David Carr,
 Wei Mun Chan, Caty Chung, Geraldine Clement-Stoneham, Helena Cousijn,

Pre-print at: <https://doi.org/10.1101/245183>

Authored by **68 authors**, representing the FAIRsharing community of core adopters, advisory board members, and key collaborator, who are stakeholders from **academia, industry, funding agencies, standards organizations, infrastructure providers and scholarly publishers**



FAIRsharing WG:

<https://rd-alliance.org/group/fairsharing-registry-connecting-data-policies-standards-databases.html>

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