FAIRsharing.org

Group details

Status: Completed
Chair (s): Susanna-Assunta Sansone, Rebecca Lawrence, Peter McQuilton, Simon Hodson
Secretariat Liaison: Lynn Yarmey
TAB Liaison: Paul Uhlir
Case Statement: Download

Peter McQuilton
On behalf of the Force11/RDA WG co-chairs

FAIRsharing Project Coordinator
Oxford e-Research Centre, Dept. Engineering Science,
University of Oxford

RESEARCH DATA ALLIANCE

UNIVERSITY OF OXFORD

Oxford e-Research Centre

FAIRsharing.org

standards, databases, policies

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

Researchers in academia, industry, government

Developers and curators of resources

Journal publishers or organizations with data policy

Research data facilitators, librarians, trainers

Learned societies, unions and associations

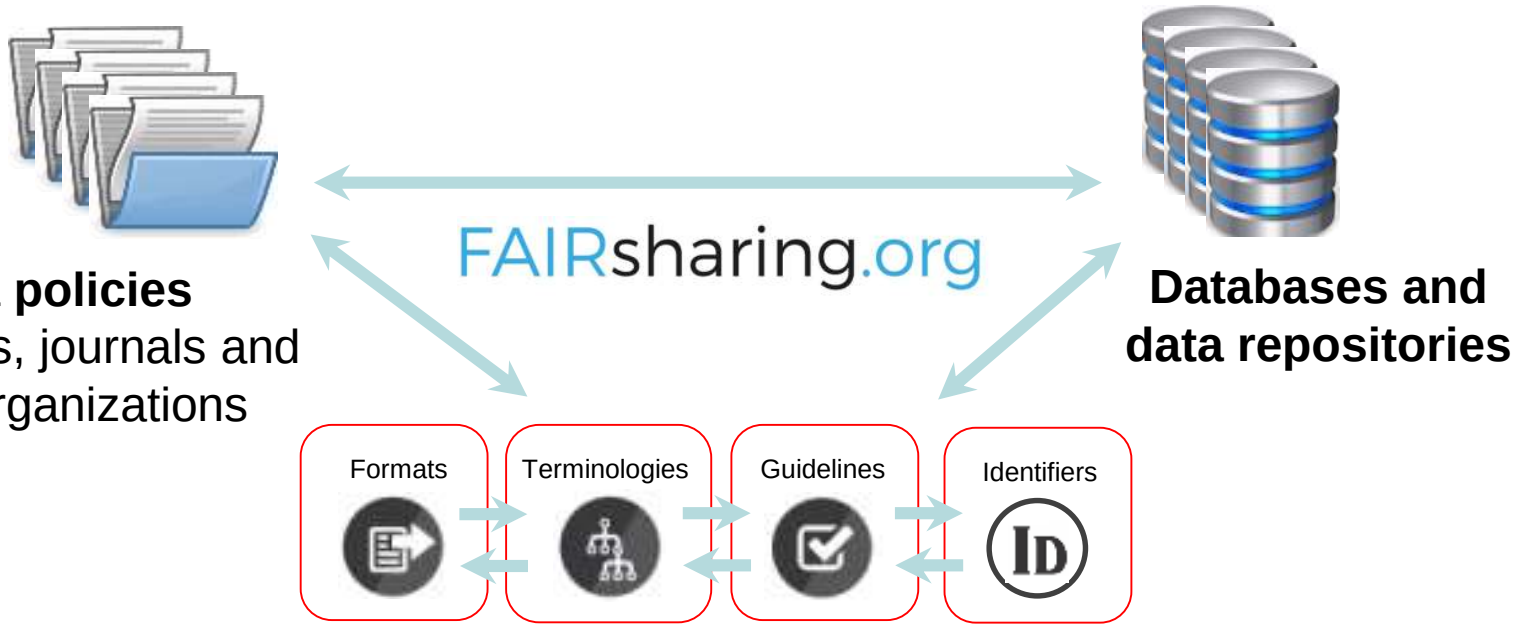
Funders and data policy makers

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 journals, publishers, funders, other organizations)

Mapping the landscape



Data policies
by funders, journals and other organizations

Databases and data repositories

Community standards,
focusing on metadata and identifier schemas

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D Deprecated as subsumed or superseded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, verified and claimed by the community behind each resource

RESEARCH DATA ALLIANCE

FAIRsharing.org

A curated, informative and educational resource on data and metadata *standards*, inter-related to *databases* and data *policies*.

What have we become?

A FAIR-supporting informative and educational resource providing:

- a registry on data **standards**, **repositories** and **policies**,
- alongside classification, search and visualization tools and services

1269 Standards

Terminology Artifact	727
Model/Format	380
Reporting Guideline	154
Identifier Schema	8

1141 Databases

Life Science	838
Biomedical Science	204
General Purpose	27

115 Policies

Funder	23
Journal	80
Society	8

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.

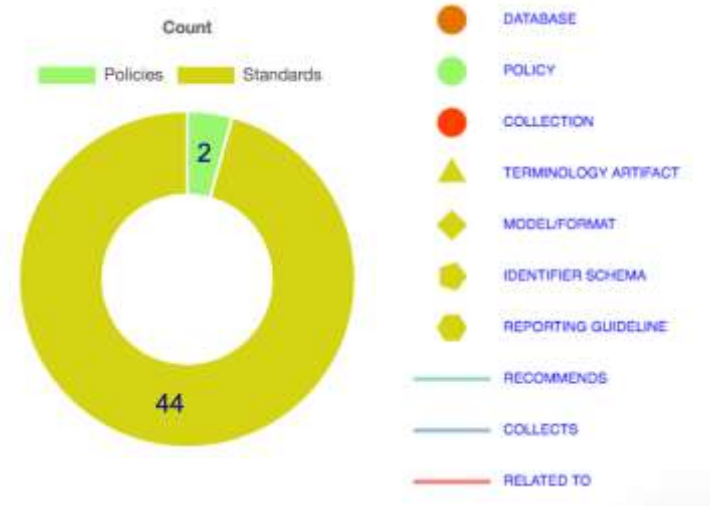
This record is maintained by: carviset

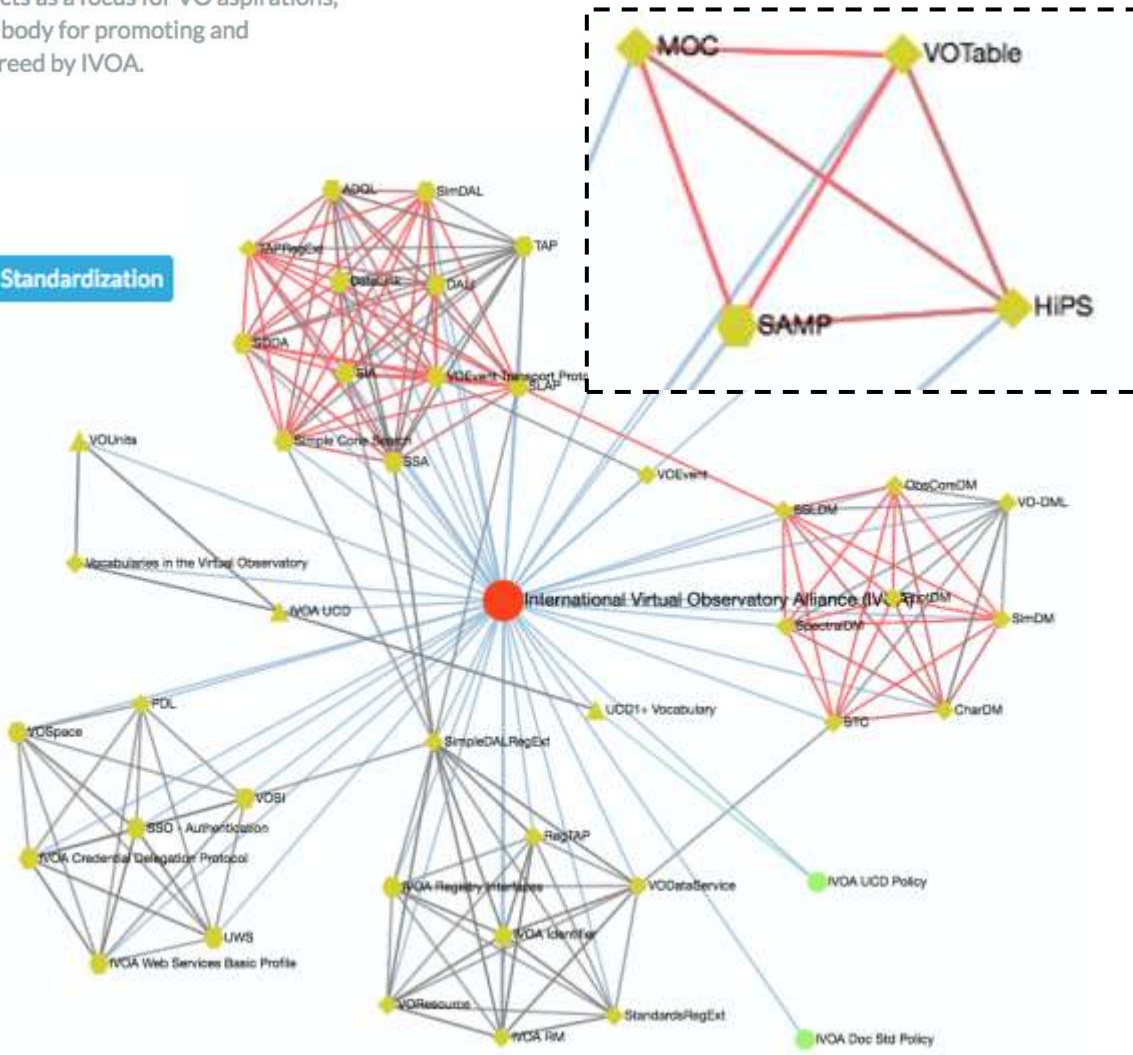
Record added: March 15, 2018, 12:56 p.m..

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

Scope and data types

- Astrophysics And Astronomy
- Data Standards
- Metadata Standardization





SPRINGER NATURE

SCIENTIFIC DATA

A biologically-centered subset of Scientific Data's recommended reposi
the full list of repositories and standards across all domains. Scientific D
journal published by Springer Nature.

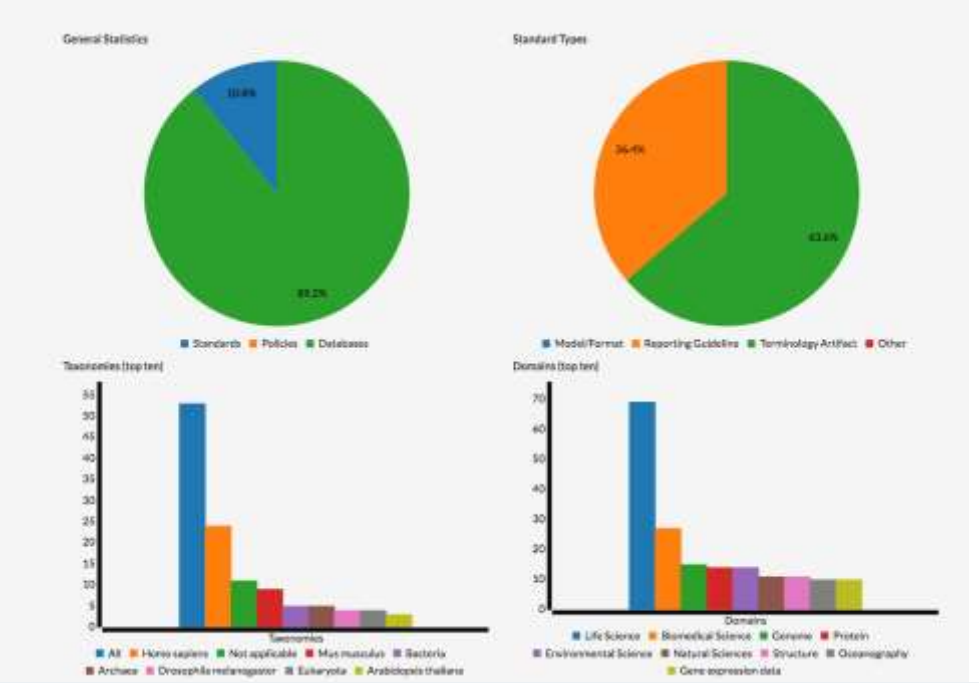
This record is maintained by: ScientificData

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: Recommended

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.

« 1 2 3 »

Ag Data Commons
DATABASE
- Standards 7
- Publications 0
- In Collections 1
- Recommended 1

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

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

ADS
Archaeology Data Service
DATABASE
- Standards 0
- Publications 0
- In Collections 0
- Recommended 1

No taxa defined.

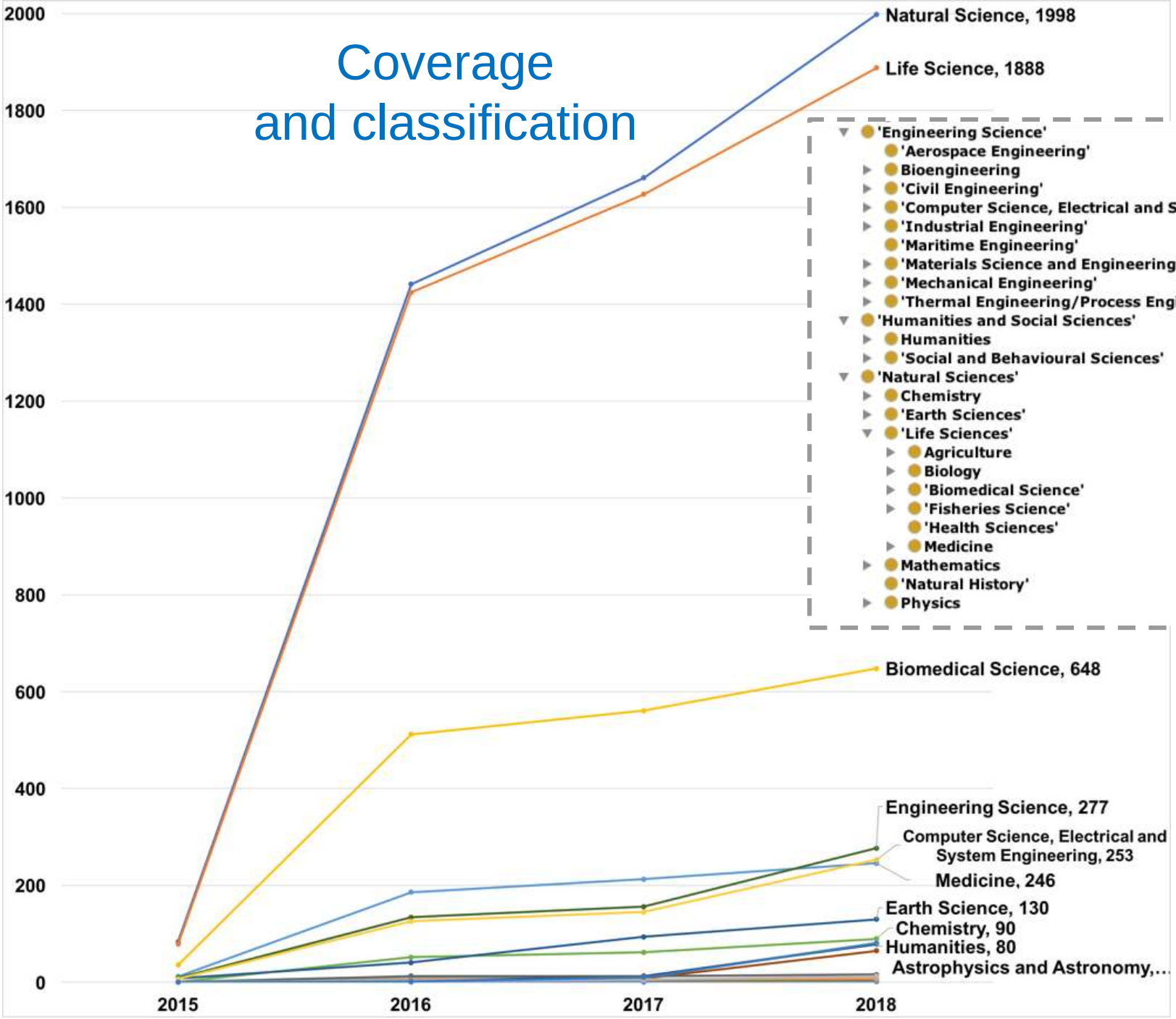
4 Data types, including: Classical Archeology, History, Humanities, Natural Sciences

ArrayExpress
DATABASE
- Standards 7
- Publications 2
- In Collections 3
- Recommended 13

1 Taxa types, including: All

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

Coverage and classification



FAIRsharing enables the FAIR principles

Ensures that standards, databases, repositories, policies are:

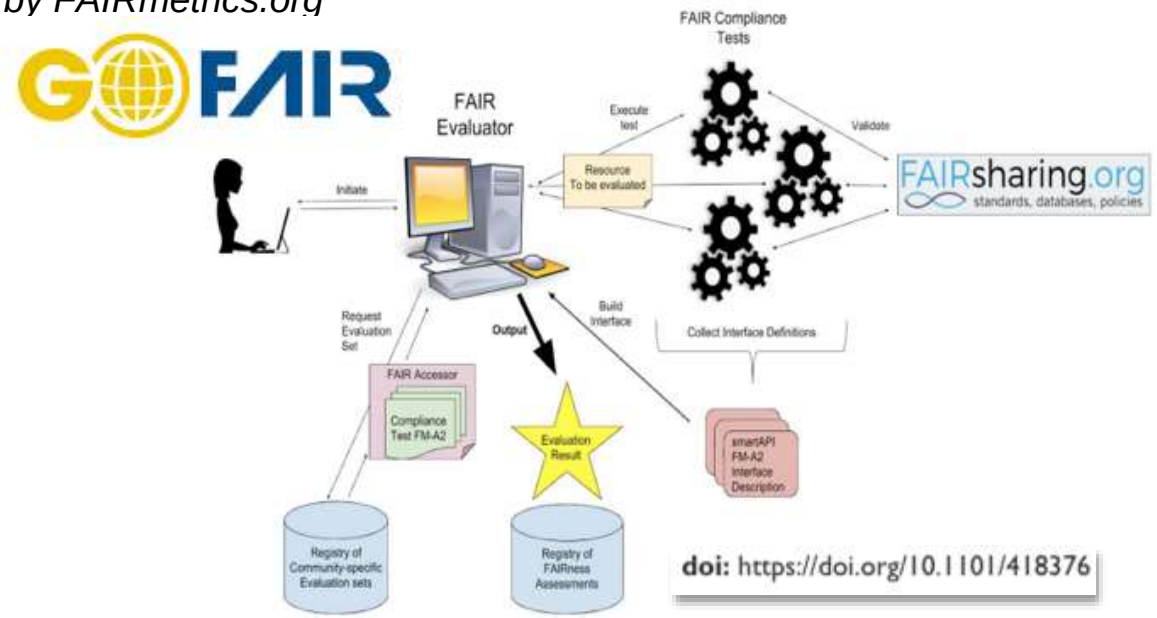
- **Findable**, e.g., by providing DOIs and marking up records in schema.org, allowing users to register, claim, maintain, interlink, classify, search and discover them
- **Accessible**, e.g., identifying their level of openness and/or licence type
- **Interoperable**, e.g., highlighting which repositories 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 neighbouring domains, rather than reinvention

FAIR principles DOI: 10.1038/sdata.2016.18

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)

by FAIRmetrics.org



by NIH Data Commons

FAIRshake

DCPPC

NIH

FAIRsharing and data management plans and tools

Using the data in FAIRsharing to:

- Inform and drive policy
- Inform data stewardship initiatives
- Create new educational tools

To find out more…

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

nature biotechnology CC BY

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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

Contact FAIRsharing:

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