

OxFOS
5 March 2026



Cultivating FAIR data across disciplines: Examples of collaborative initiatives and practical tools

Susanna-Assunta Sansone

([ORCID: 0000-0001-5306-5690](https://orcid.org/0000-0001-5306-5690))

Academic Lead for Research Practice;
Professor of Data Readiness, Department of Engineering Science; Director, Oxford e-Research Centre.
University of Oxford.

Dan Crane

([ORCID: 0000-0002-7197-0974](https://orcid.org/0000-0002-7197-0974))

Head of Research Data Management, Open Scholarship Support, Bodleian Libraries.
University of Oxford.

Almost a decade of FAIR principles

www.nature.com/scientificdata

SPRINGER NATURE

SCIENTIFIC DATA

Amended: Addendum

OPEN Comment: The FAIR Guiding Principles for scientific data management and stewardship

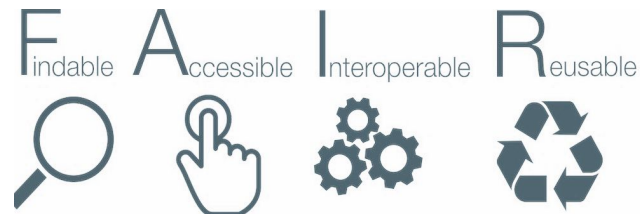
SUBJECT CATEGORIES
» Research data
» Publication characteristics

Mark D. Wilkinson¹, Michel Dumontier², IJsbrand Jan Aalbersberg³, Gabrielle Appleton³, Myles Axton⁴, Arie Baak⁵, Niklas Blomberg⁶, Jan-Willem Boiten⁷, Luiz Bonino da Silva Santos⁸, Philip E. Bourne⁹, Jildau Bouwman¹⁰, Anthony J. Brookes¹¹, Tim Clark¹², Mercè Crosas¹³, Ingrid Dillo¹⁴, Olivier Dumon³, Scott Edmunds¹⁵, Chris T. Evelo¹⁶, Richard Finkers¹⁷, Alejandra Gonzalez-Beltran¹⁸, Alasdair J.G. Gray¹⁹, Paul Groth³, Carole Goble²⁰, Jeffrey S. Grethe²¹, Jaap Heringa²², Peter A.C. 't Hoen²³, Rob Hoofst²⁴, Tobias Kuhn²⁵, Ruben Kok²², Joost Kok²⁶, Scott J. Lusher²⁷, Maryann E. Martone²⁸, Albert Mons²⁹, Abel L. Packer³⁰, Bengt Persson³¹, Philippe Rocca-Serra¹⁸, Marco Roos³², Rene van Schaik³³, Susanna-Assunta Sansone¹⁸, Erik Schultes³⁴, Thierry Sengstag³⁵, Ted Slater³⁶, George Strawn³⁷, Morris A. Swertz³⁸, Mark Thompson³², Johan van der Lei³⁹, Erik van Mulligen³⁹, Jan Velterop⁴⁰, Andra Waagmeester⁴¹, Peter Wittenburg⁴², Katherine Wolstencroft⁴³, Jun Zhao⁴⁴ & Barend Mons^{45,46,47}

SCIENTIFIC DATA | 3:160018 | DOI: 10.1038/sdata.2016.18

Access & Citations

1.11m	14k
Article Accesses	Citations



To enhance the value of all digital resources and their reuse by humans and machines

Spotlight of good data management practices

www.nature.com/scientificdata

SPRINGER NATURE

SCIENTIFIC DATA

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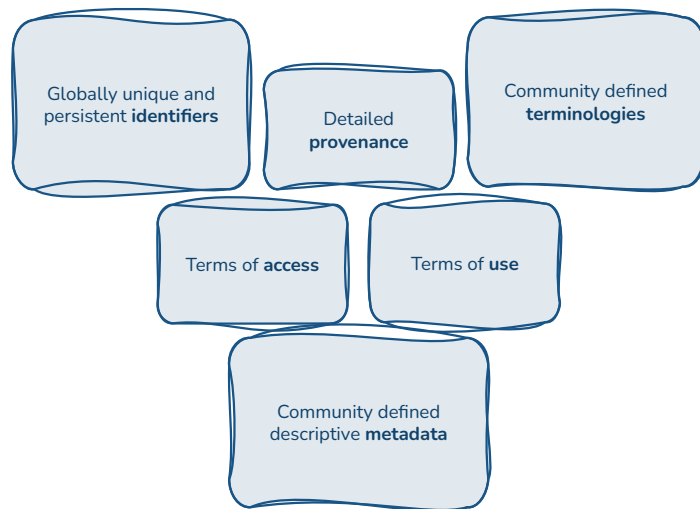
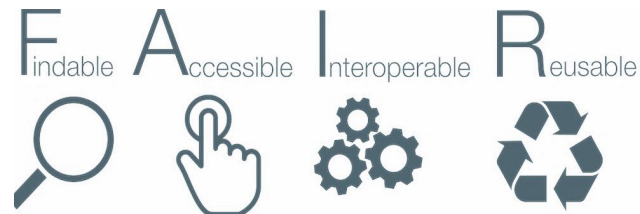
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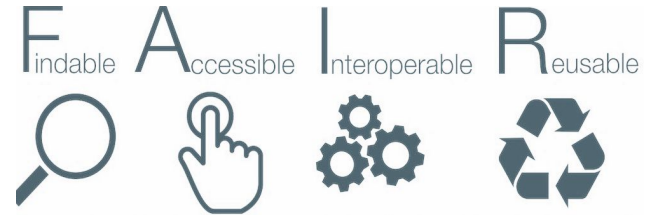
Widespread adoption across domains and various stakeholders

scientific **data** **SPRINGER NATURE**

OPEN **ARTICLE** **Introducing the FAIR Principles for research software**

Michelle Barker^{1,2*}, Neil P. Chue Hong², Daniel S. Katz³, Anna-Lena Lamprecht⁴, Carlos Martinez-Ortiz⁵, Fotis Psomopoulos⁵, Jennifer Harrow⁷, Leyla Jael Castro⁸, Morane Gruenpeter⁹, Paula Andrea Martinez¹⁰ & Tom Honeyman¹¹

<https://doi.org/10.1038/s41597-022-01710-x>



Beyond data to software, training, instruments, AI/Machine Learning models, organisations etc.

Numerous projects and institutional, national, international, thematic, initiatives

Required by funders, publishers, and at organizational level in all sectors, including:

UKRI's research data policy

Horizon Europe 2028 - 2034

scientific **data** **SPRINGER NATURE**

OPEN **COMMENT** **FAIR for AI: An interdisciplinary and international community building perspective**

E. A. Huerta^{1,2,3*}, Ben Blaiszik^{1,3}, L. Catherine Brinson⁴, Kristofer E. Bouchard^{5,6,7}, Daniel Diaz⁸, Caterina Doglioni^{9,10}, Javier M. Duarte¹, Murali Emani¹¹, Ian Foster^{12,13}, Geoffrey Fox¹⁴, Philip Harris¹⁵, Lukas Heinrich¹⁶, Shantenu Jha^{17,18}, Daniel S. Katz^{17,18,19,20}, Volodymyr Kindratenko^{21,22,23}, Christine R. Kirkpatrick²⁴, Kati Lassila-Perini²⁵, Ravi K. Madduri¹, Mark S. Neubauer^{27,18,23}, Fotis E. Psomopoulos²⁴, Avik Roy^{17,23}, Oliver Rübner¹, Zhizhen Zhao^{27,23} & Ruike Zhu¹⁸

<https://doi.org/10.1038/s41597-023-02298-6>

The boundary of responsibility in FAIR data management do not end at the frontier of AI



<https://www.gov.uk/government/publications/ai-for-science-strategy/ai-for-science-strategy>



ChatGPT 5 Edu Image Oct 29

The AlphaFold breakthrough example

AI did not use raw data, but FAIR data:

- machine-readable structured, curated model of data and metadata representing a 3D model of a proteins
- available in a **standard format** (mmCIF/PDBx)
- served in the **open repository** (PDB)

FAIR awareness and use: still work to be done

Dr Jackie Thompson
Open Outreach manager

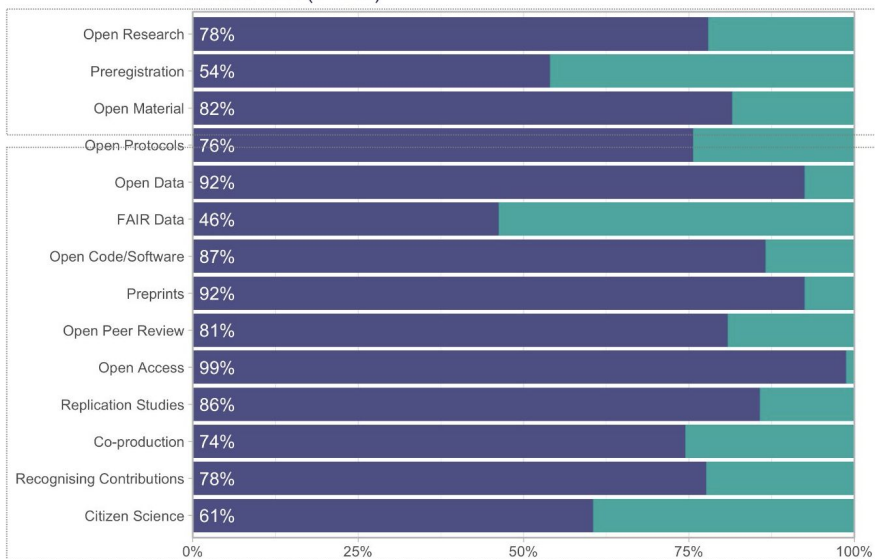
OFFICE FOR
OPEN
RESEARCH



2025 surveys

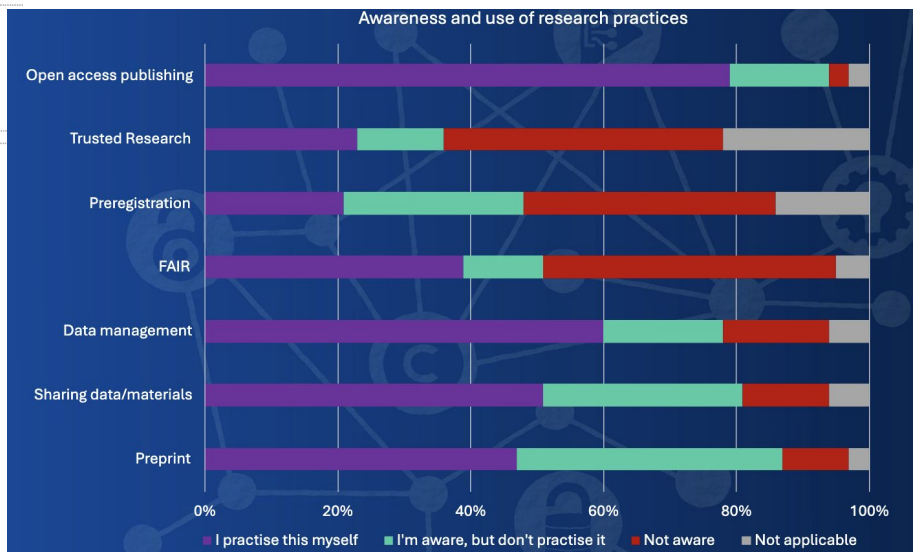


Awareness (n=240)



■ Aware ■ Unaware

Awareness and use of research practices



0% 20% 40% 60% 80% 100%

■ I practise this myself ■ I'm aware, but don't practise it ■ Not aware ■ Not applicable

FAIR is one of the areas of focus of the University Research Practice Programme



<https://www.ox.ac.uk/research/support-researchers/research-practice>

Advancing FAIR practices: our session

Services for FAIR assistance
and assessment

[FAIRsharing.org](https://fairsharing.org)

FAIRassist

ORA-FAIRsharing - FAIR assistance
for institutional repositories



Editorial Reference Handbook
and Data Availability Statement
interventions



Championing FAIR resources and
practices with the Research Data
Alliance Ambassadors



Advancing FAIR practices: primary audience for each talk

Services for FAIR assistance
and assessment

FAIRsharing.org

FAIRassist

Primary users **research support staff** and data stewards

Informative for **researchers**

ORA-FAIRsharing - FAIR assistance
for institutional repositories



Primary users **research support staff, data stewards**, other **institutional repositories**

Informative for **researchers**

Primary users
publishers

Informative for
authors and **reviewers**

Editorial Reference Handbook
and Data Availability Statement
interventions



Anyone interested in connecting with a wider group of researchers advocating for discipline-specific applications of FAIR practice

Championing FAIR resources and practices with the Research Data Alliance Ambassadors



OxFOS
5 March 2026



FAIRsharing.org

Allyson Lister, *Content & Community Lead* | ORCID: [0000-0002-7702-4495](https://orcid.org/0000-0002-7702-4495)

Milo Thurston, *Technical Lead* | ORCID: [0000-0002-6468-9260](https://orcid.org/0000-0002-6468-9260)

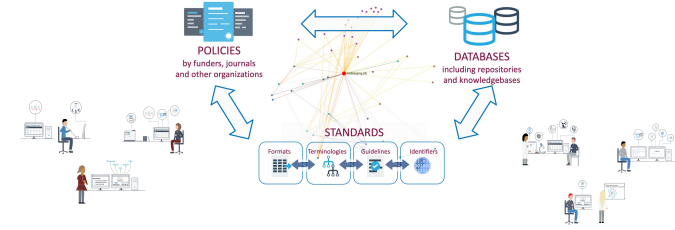
Susanna-Assunta Sansone, *PI* | ORCID: [0000-0001-5306-5690](https://orcid.org/0000-0001-5306-5690)

*On behalf of the
FAIRsharing Team*



Outline

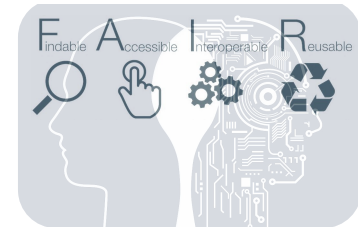
FAIRsharing as a registry



Knowledge in action

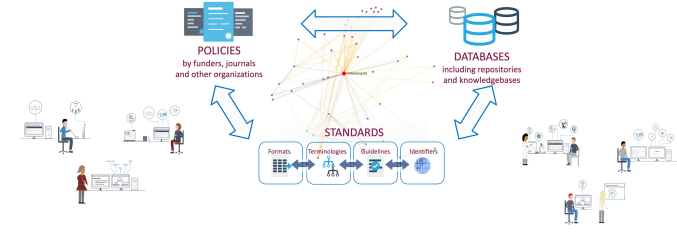


Towards AI ready content



Outline

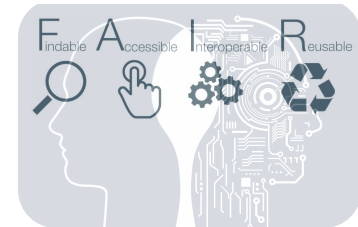
FAIRsharing as a registry



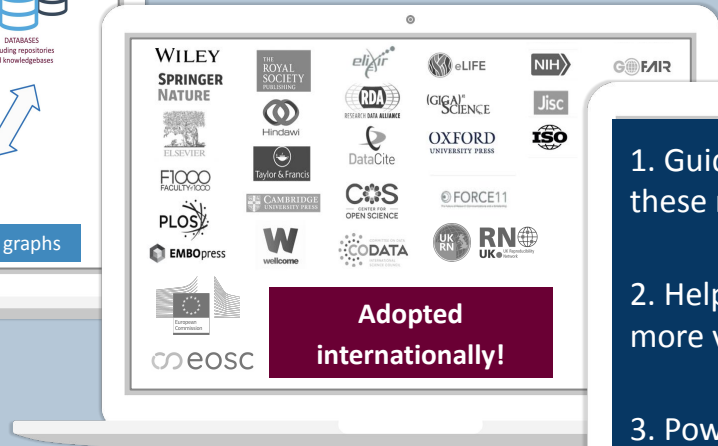
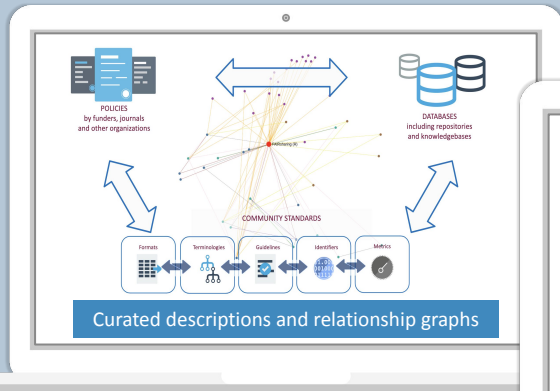
Knowledge in action



Towards AI ready content



A manually curated, informative and educational resource on data and metadata **standards**, inter-related to **databases** and data **policies** - for all disciplines



1. Guides **consumers** to discover, select and use these resources with confidence
2. Helps **producers** to make their resources more visible, more widely adopted and cited
3. Powers **third party tools** by providing trustworthy content to promote standards and databases

FAIRsharing in numbers

1114

Contributors

Our community of record maintainers and curators

5858

Records

Descriptions of standards, databases and policies

1M

Views

Page visits since 2015

Types and subtypes



2963 Databases

Repositories	1658
Knowledgebases	1082
Knowledgebase/Repositories	223
Institutional Repositories	213



1945 Standards

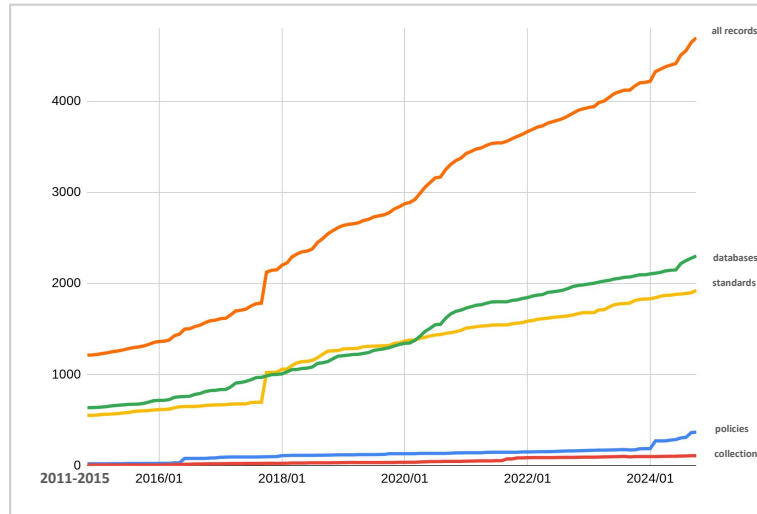
Terminology Artifact	839
Model/Format	661
Reporting Guideline	326
Identifier Schema	71



364 Policies

Journal	196
Institution	64
Funder	42
Journal publisher	37
Society	17
Project	8

Growth since launch



Disciplines

Engineering Science

2954

Natural Science

11721

Subject Agnostic

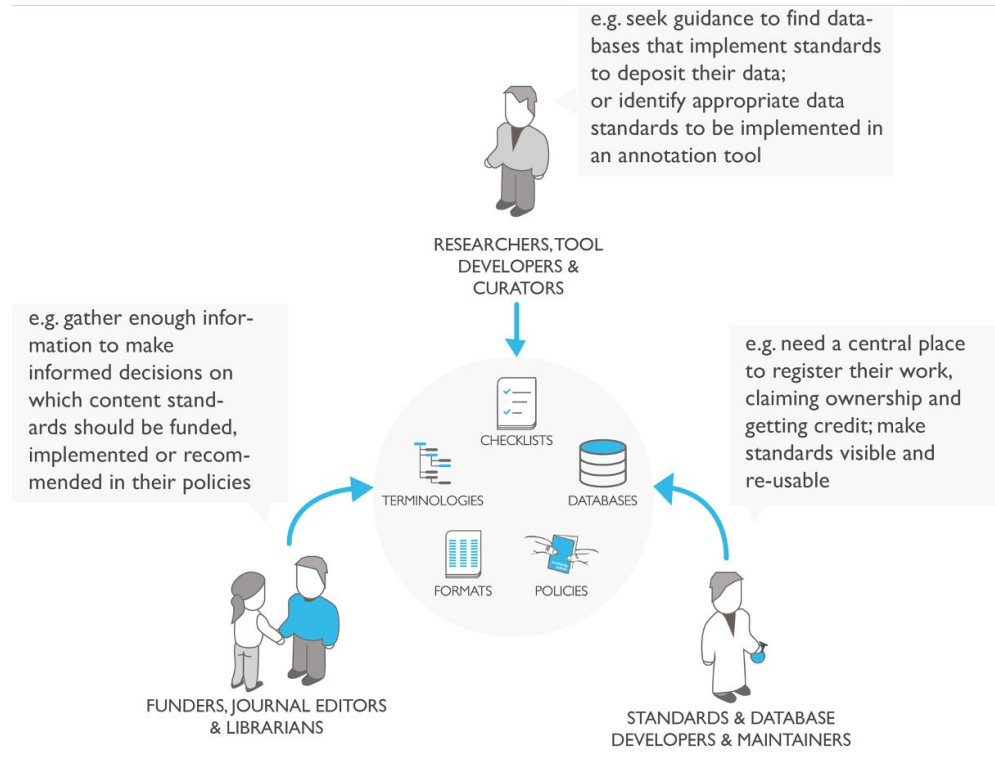
646

Humanities and Social Science

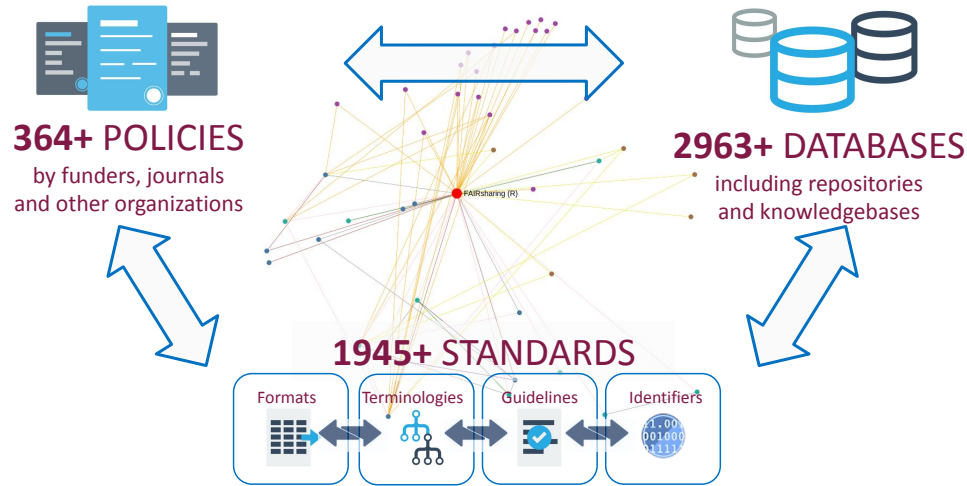
1413

The problems we address

It is not easy to identify the appropriate **standards**, to know which **databases** implement them, and make informed decisions on which standards to use or recommend!



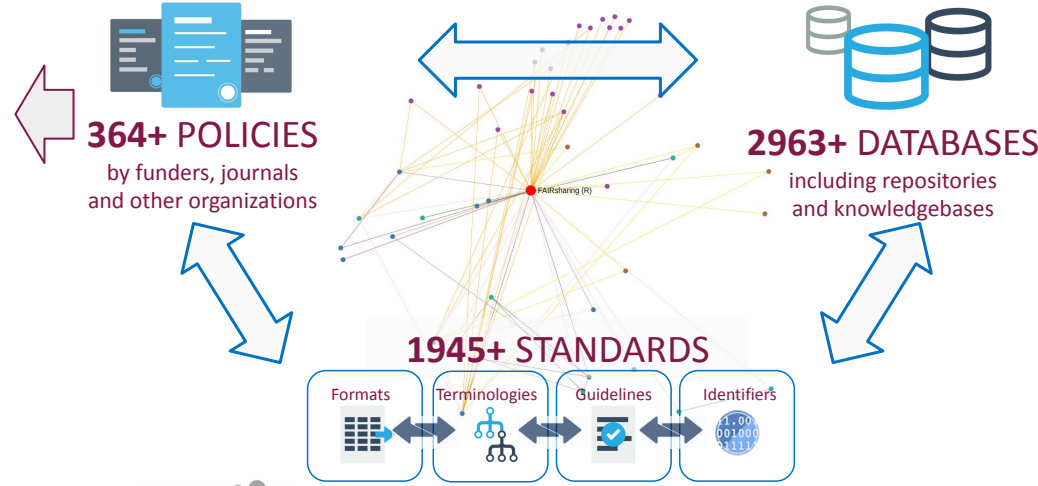
Standards and databases are the pillars of the FAIR Principles



From content to knowledge: the value of relationships

EXAMPLE

- **Extend** other policies to provide additional constraints
- **Recommend** databases and standards that align with their requirements



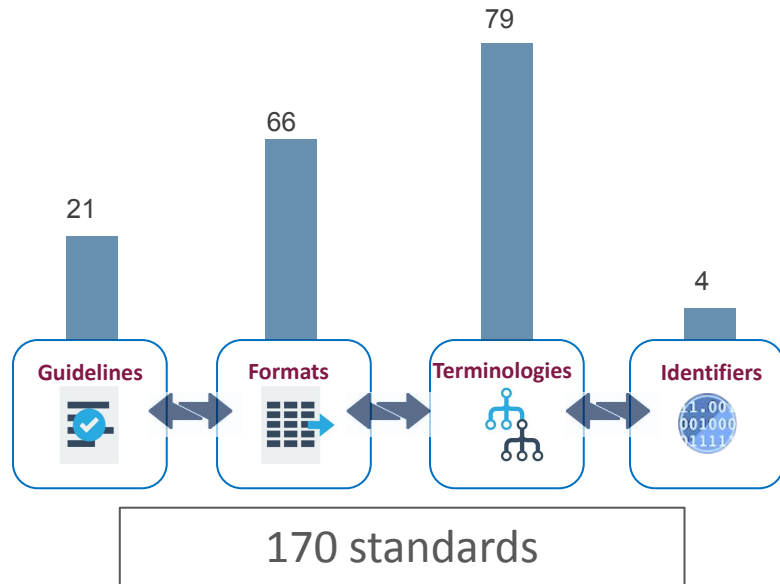
EXAMPLE

- **share data** from a primary to a secondary database for analysis, data exchange
- **share the same code base** among databases built on the same software
- **implement** standards and be **recommended by** policies

EXAMPLE

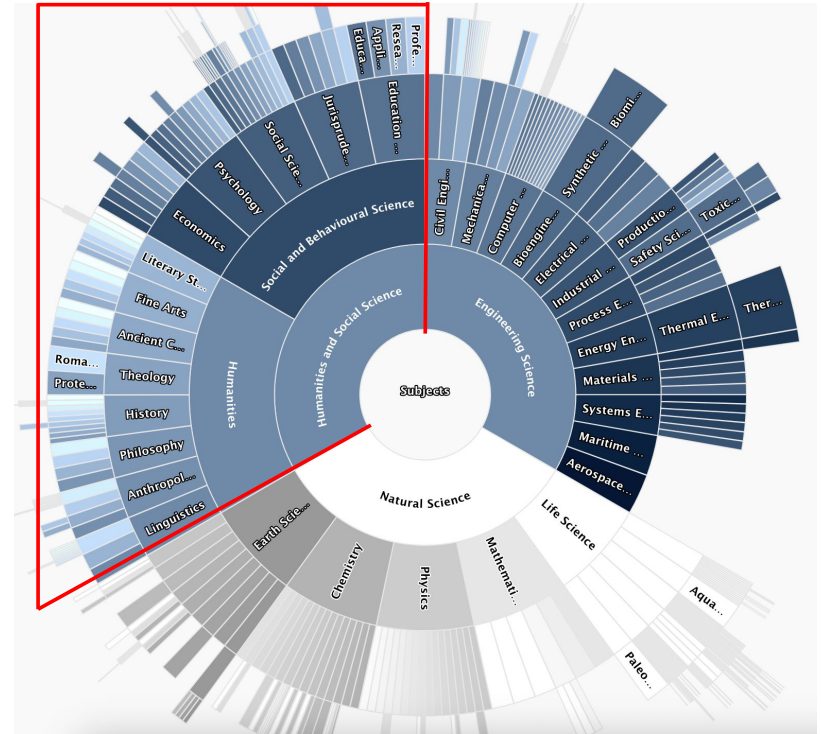
- be grouped together, e.g. packages
- **extend** or **profile** other standards
- be **implemented by** databases and **recommended by** policies

Focus on SSH: standards and databases numbers and maturity



Total of 56 standards implemented by at least 1 database

Out of which 29 are terminologies



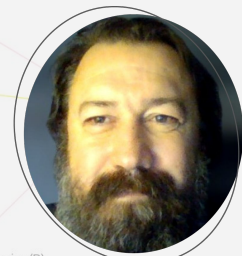
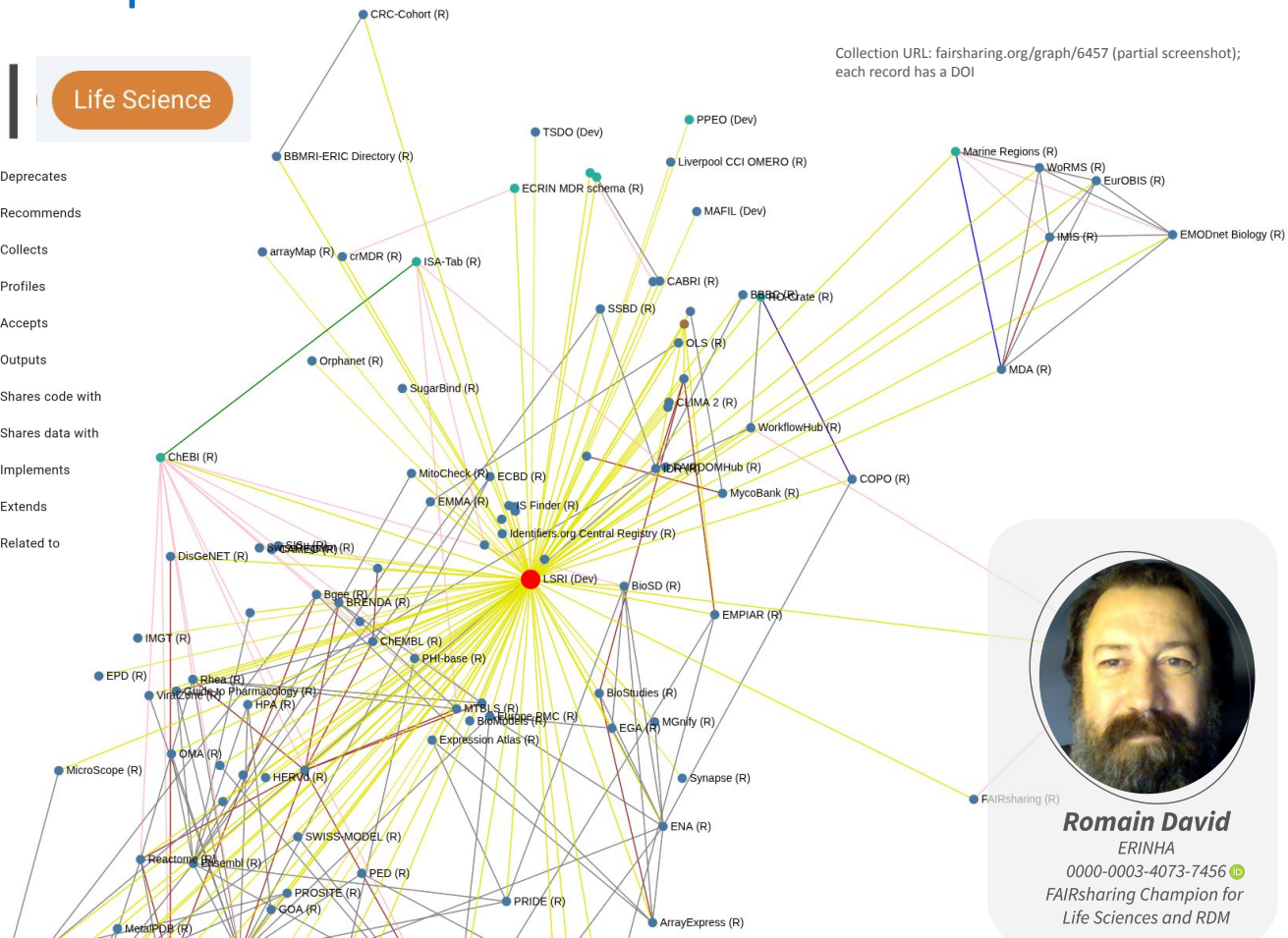
Working with the European Life Science research infrastructure



Collection URL: fairsharing.org/graph/6457 (partial screenshot); each record has a DOI

- Deprecates
- Recommends
- Collects
- Profiles
- Accepts
- Outputs
- Shares code with
- Shares data with
- Implements
- Extends
- Related to

To **curate** the **descriptions** and **visualise** the **relations** of their **databases** and the data/metadata **standards** the clusters implement



Romain David
ERINHA
0000-0003-4073-7456
FAIRsharing Champion for Life Sciences and RDM

Registry

COLLECTION	Status (shown on mouseover)
DATABASE	READY
STANDARD	IN DEVELOPMENT
POLICY	UNCERTAIN
	DEPRECATED

Distance from centre

ONE HOP
TWO HOPS
THREE HOPS

Collecting standards and repositories developed to enable reporting/sharing of AI R&D

STANDARDS

45

EXAMPLES

REPOSITORIES

21

Checklist for Artificial Intelligence in Medical Imaging (CLAIM)

 [Awaiting DOI](https://doi.org/10.25504/FAIRsharing.f7c4d5)

Reporting guideline

NEW

Life Science

Standard Protocol Items: Recommendations for Interventional Trials–Artificial Intelligence (SPIRIT-AI)

 [10.25504/FAIRsharing.f7c4d5](https://doi.org/10.25504/FAIRsharing.f7c4d5)

Reporting guideline

→

Extends

 **SPIRIT** 

Standard Protocol Items: Recommendations for Interventional Trials

 [10.25504/FAIRsharing.m3g9n9](https://doi.org/10.25504/FAIRsharing.m3g9n9)

Reporting guideline

 **DOME Registry** Data, Optimization, Model and Evaluation Registry

 [10.25504/FAIRsharing.5d98bd](https://doi.org/10.25504/FAIRsharing.5d98bd)

Repository

 **BioImage.IO** BioImage Model Zoo

 [10.25504/FAIRsharing.77fc63](https://doi.org/10.25504/FAIRsharing.77fc63)

Repository

The AIme registry for artificial intelligence in biomedical research

 [10.25504/FAIRsharing.39c2c3](https://doi.org/10.25504/FAIRsharing.39c2c3)

Repository

Croissant Format Specification (Croissant)

 [10.25504/FAIRsharing.a0982e](https://doi.org/10.25504/FAIRsharing.a0982e)

Model and format

Subject Agnostic



Hugging Face Hub

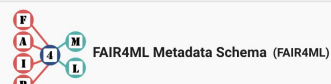
 [10.25504/FAIRsharing.4ccbbf](https://doi.org/10.25504/FAIRsharing.4ccbbf)

Repository

 **Kaggle Datasets**

 [10.25504/FAIRsharing.mjq9vj](https://doi.org/10.25504/FAIRsharing.mjq9vj)

Repository



FAIR4ML Metadata Schema (FAIR4ML)

 DOIs are only issued to records with 'Ready' status

Model and format

In Development

Open Neural Network Exchange (ONNX)

 [10.25504/FAIRsharing.176014](https://doi.org/10.25504/FAIRsharing.176014)

Model and format

 **IIT Dataverse**  IIT Dataverse

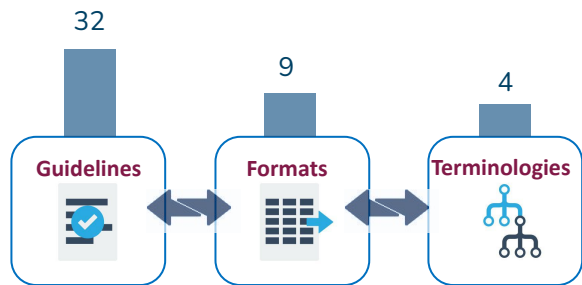
 [10.25504/FAIRsharing.76d592](https://doi.org/10.25504/FAIRsharing.76d592)

Repository

FAIRsharing.org  Educational

CC BY 4.0 International

Collecting standards and repositories developed to enable reporting/sharing of AI R&D



As of today 45 standards

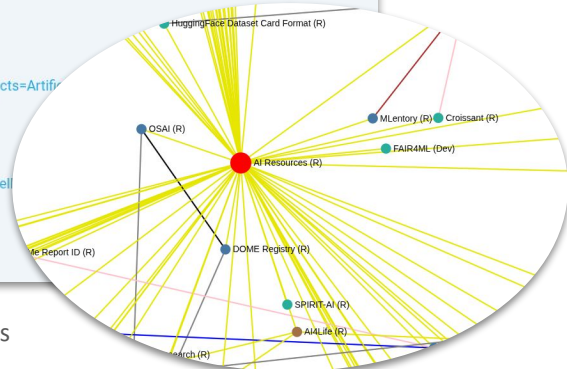


REPOSITORIES 20

Only 5 standards are implemented by at least 1 repository

Artificial Intelligence

<https://fairsharing.org/AIResources>

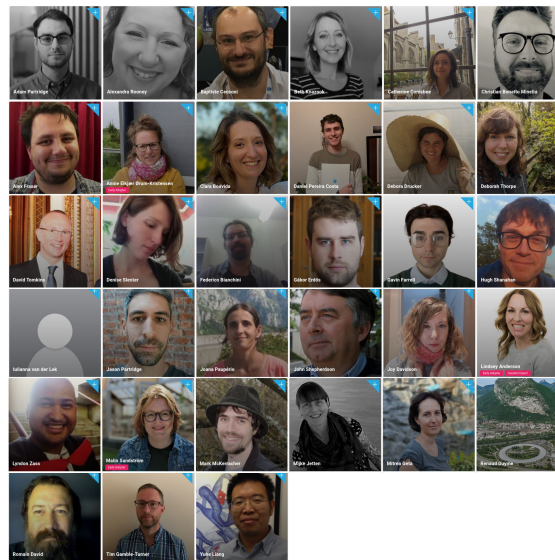


Gavin Farrell
University of Padua,
ELIXIR AI Ecosystem Focus Group
0000-0001-5166-8551
FAIRsharing Champion for
Life Science and AI

Community Champions: 27 active and 24 alumni

Since 2022, **FAIRsharing** supports and is supported by its **Community Champions** who gain **recognition, professional development** and **influence** by contributing to one or more:

- curation activities
- gap analysis
- educational provision



Want to know more?

2025 in review: our Community Champions

blog.fairsharing.org/?p=1086

FAIRsharing offers...

- rich and diverse standards
- use the right data and standards to your data
- Navigate the and database description at the relationship status, and even
- Increase the discoverability (machine) of develop or personal attribution and ROR
- Use FAIR existing res duplication and the or them, e.g. collaborat
- Search out to FAIRsharing guidance and collect standards related to the part of, and specific

FAIRsharing content: standards overview
Core to research data management good practices

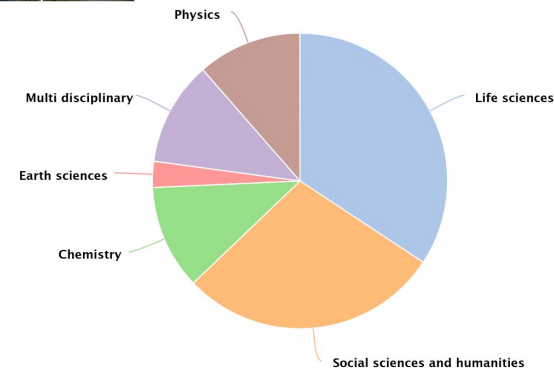
FAIRsharing promotes the value of standards, the backbone of the FAIR Principles

- guides users to discover, select and use standards with confidence
- helps developers to make their standards more visible, more widely adopted and cited
- powers third party tools by providing trustworthy content to put standards into action

FAIRsharing categories standards with four types:

- Reporting guidelines**
Outline in narrative form the necessary and sufficient information that should be reported about data, such as in formatted, prescriptive checklists, or the features and behaviours that should be followed, such as in general guiding principles
- Models and formats**
Define the representation of information for use by machines; these range from conceptual models to transmission formats, facilitating data retrieval and exchange between systems
- Terminology artefacts**
Add an interpretive, semantic layer for use by machines and humans; these range from controlled vocabularies (lists of terms, often with definitions) to ontologies (complex hierarchical groupings), providing unambiguous identification of concepts and aiding data querying
- Identifier schemata**
Are formal systems to identify information in an unique, machine-readable way; these persistent identifiers (PIDs), minted by recognised registries, build reliable and long-lasting links between data, people, organisations and infrastructures

Champions' Broad Specialisms



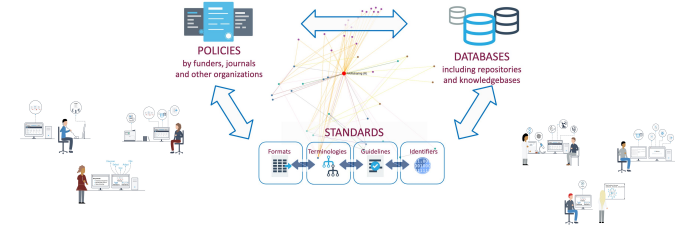
Associated with the FAIRsharing RDA WG



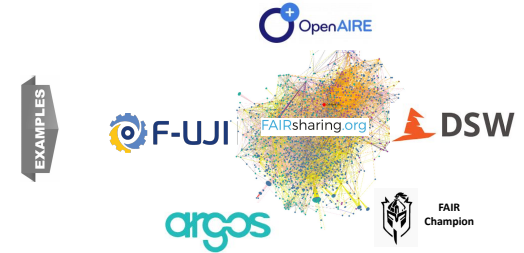
WG FAIRsharing Registry: Connecting data policies, standards and databases
RDA WG

Outline

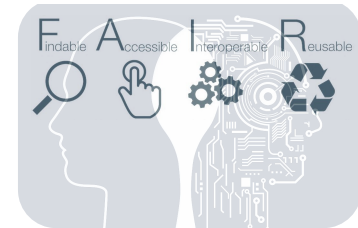
FAIRsharing as a registry



Knowledge in action



Towards AI ready content



Building the knowledge base to enable service provision and tool integration

New **discovery**, **categorisation**, and **querying** routes are available via technical and curatorial updates

- Facilitating the **creation and evaluation** of content via FAIRsharing integrations (DMPs, FAIR assistance, and more) by the research community
- Making key FAIR-enabling qualities more **explicit** and **comparable** by both **humans** and **machines**
- Fostering **higher connectivity** among tools in the FAIR data ecosystem

Powering and informing data stewardship/management tools



A composite image showing the user interface of the Data Stewardship Wizard (DSW). On the left, a vertical orange bar contains the text "User starts typing" and "User selects a record" with a downward arrow. The main area is split into two panels. The top panel, titled "V. Interpreting data", shows a search interface with a text input field and a dropdown menu. Below it, a list of search results is displayed, with one record highlighted. A dashed arrow points from this record to the right. The right panel shows a search results page from FAIRsharing.org. The top of this page has the FAIRsharing.org logo and a search bar. Below the search bar, a list of search results is shown, with one record highlighted. A dashed arrow points from this record to the left, where it is linked to the record in the DSW interface. The highlighted record in the FAIRsharing.org interface shows the title "Comma-separated Values (CSV)" and a description of the format.

Decision-making and selection is *facilitated* for the users of these tools (e.g. when identifying databases to share their digital objects in their DMP, or assessing if they are using the appropriate standards to annotate their data). This collaboration improves:

- *Identifiability*
- *Connectivity*
- *Machine actionability*

Data Stewardship Wizard uses FAIRsharing to provide as-you-type functionality to users who need to list the standards and databases relevant to their DMPs.

<https://ds-wizard.org>; read more at <https://elixiruknode.org/blog/2024/joining-up-the-research-data-management-dots>

[FAIRsharing.org](https://fairsharing.org)  Educational

CC BY 4.0 International

Powering and informing data stewardship/management tools



DSW

User starts typing

V. Interpreting data

List the data formats you will be using for interpretation and describe their structure

When separated values CSV

Query FAIRsharing suggests suitable records

User selects a record

Linked record via PID

FAIRsharing.org

GENERAL INFORMATION

Comma-separated Values (CSV)

Type: Model and format

Registry: Standard

Description: A comma separated values (CSV) file is a delimited text file that uses a comma to separate values. Each line of the file is a data record. Each record consists of one or more fields, separated by commas. The use of the comma as a field separator is the source of the name for this file format. A CSV file typically stores tabular data (numbers and text) in plain text, in which each row of text has the same number of fields.

Homepage: <https://docs.fairsharing.org/1616/16150>

Year of Creation: 2005

Maintainers: This record is in need of a maintainer. If you are affiliated with this project, login and claim it now!

Data Stewardship Wizard uses FAIRsharing to provide as-you-type functionality to users who need to list the standards and databases relevant to their DMPs.

DSW

User selects relevant policies through integration

Select a policy

Open Research Data and Data Management Plans - for ERC grantees

The ERC Scientific Council has produced this policy document for European Research Council (ERC) grantees that provides information on ERC requirements concerning Data Management Plans and data disposition (storage, preservation, metadata and data preservation). Following a general part, three separate parts provide information of specific interest to grantees in the three ERC domains: Life Sciences, Social Behavioural and Humanities, Physical Sciences and Engineering.

FAIRsharing <http://doi.org/10.2306/4384FAIRsharing-Ru0108>

User selects standards and databases

Select a standard

doi

Dublin Core Metadata Element Set

Recommended by Open Research Data and Data Management Plans - for ERC grantees

Dublin Core Metadata Initiative Terms

Audubon Core Multimedia Resources Metadata Schema

User can perform cross-check of selected standards and databases with policies

Open Research Data and Data Management Plans - for ERC grantees

Dublin Core Metadata Element Set

Simple Knowledge Organization System

User gets guidance in standards and databases on selected policies

Data Stewardship Wizard's new features use FAIRsharing to provide as-you-type hints for policies. Where these policies recommend specific standards and databases, that information will be available to users as they choose the resources associated with their DMP.

<https://ds-wizard.org>; read more at <https://elixiruknode.org/blog/2024/joining-up-the-research-data-management-dots>

In every FAIRy tale there is a problem

Fairness does not mean everyone gets the same. Fairness means everyone gets what they need.

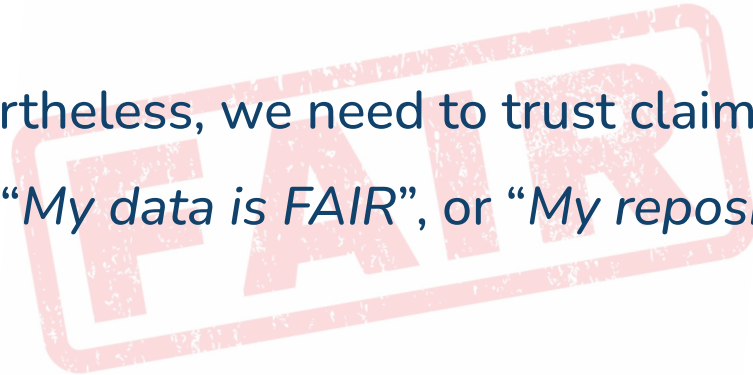
Rick Riordan

quotation

- FAIR is a set of principles, **not a standard**
- The **narrative is insufficient** to circumscribe the valid mechanism to achieve the behaviours they describe
- There is **no universal FAIRness** concept

Nevertheless, we need to trust claims such as

“I am FAIR”, or “My data is FAIR”, or “My repository enables FAIR”



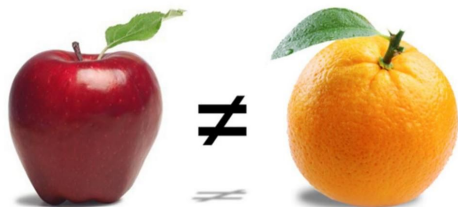
The problem is socio-technical

Resource	Execution Type
3 Star Date Rating Tool	Manual - questionnaire
Date Stewardship Wizard	Predictive; based on a manually filled questionnaire
F-UJI	Automated
FAIR Data Self-Assessment Tool	Manual - questionnaire
FAIR Evaluator	Automated
FAIR enough?	Manual - checklist
FAIR-Aware (BETA)	Manual - questionnaire
FAIR-Checker	Automated
FAIRdat	Manual - questionnaire
FAIRness self-assessment grids	Manual - checklist
FAIRshake	Manual - questionnaire, Semi-manual
GARDIAN FAIR Metrics	Manual - checklist
RDA Maturity Model	Manual - checklist

As of Feb 2026, there are **32 independent tools**, for evaluation, assessment, assistance; list at <https://fairassist.org/tools>



Tests used and the results are inconsistent, and not comparable



The
FAIR
Shop

- Mostly questionnaires, few are (semi)automated
- They use distinct, often subjective ways of measuring FAIRness
- We lack
 - a **common reference model** for **metrics** and (semi)automated, reproducible FAIR **tests**
 - a **governance** model to review and adopt new ones, to ensure quality, relevance, value and trust


<https://fairassist.org/tools>

The problem is socio-technical



ADVISORY GROUPS ·
FAIR Metrics and Data Quality
Task Force

Addressing the bases for the
differences in FAIR measurement

 FAIR Metrics and Data Quality Task Force

FAIR Assessment Tools: Towards an "Apples to Apples" Comparisons

Authorship Community:
Mark D Wilkinson¹*, Susanna-Assunta Sansone^{2,4}, Marjan Grootveld⁵, Josefine Nordling³, Richard Dennis⁶, David Hecker⁷ on behalf of the EOSC FAIR Metrics subgroup

zenodo.org/record/7463421

 FAIR Metrics and Data Quality Task Force

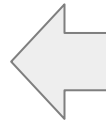
Report on "FAIR Signposting" and its uptake by the community

Mark D Wilkinson¹, Susanna-Assunta Sansone^{2,4}, Marjan Grootveld⁵, Richard Dennis⁶, David Hecker⁷, Robert Huber⁸, Sitan Soiland-Reyes⁹, Herbert Van de Sompel⁸, Andreas Czerniak¹⁰, Milo Thurston¹, Allyson L. Lister¹, Alban Gaignard¹¹

zenodo.org/doi/10.5281/zenodo.10490288



- Mostly questionnaires, few are (semi)automated
- They use distinct, often subjective ways of measuring FAIRness
- We lack
 - a **common reference model** for *metrics* and (semi)automated, reproducible FAIR **tests**
 - a **governance** model to review and adopt new ones, to ensure quality, relevance, value and trust



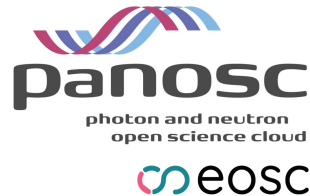
<https://fairassist.org/tools>

FAIR assistance/assessment framework

- This framework is targeted at **developers**, who are implementing it in their tools/services
 - while the process should be seamless and invisible to researchers and research-supporting professionals, the results should be **transparent** and **informative** to them
- The following example illustrates how the framework is used to assess *“compliance to a specific terminology required by the photon and neutron community”*



Renaud Duyme
ESRF, PaNOSC
0000-0002-9909-1074 
FAIRsharing Champion for
Open Data



Example: compliance with a community vocabulary

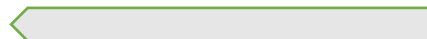
FAIR Principles R1.3
(meta)data meet
domain-relevant community
standards

DIMENSION



METRIC

Requires the use of PaNET
terminology for
experimental topics



BENCHMARK



The set of metrics that define the
specific implementation of FAIR for
the PaNOSC community, including
compliance with PaNET
terminology for topic

Example: compliance with a community vocabulary

FAIR Principles R1.3
(meta)data meet
domain-relevant community
standards

Requires the use of PaNET
terminology for
experimental topics

DIMENSION



METRIC



BENCHMARK



The set of metrics that define the
specific implementation of FAIR for
the PaNOSC community, including
compliance with PaNET
terminology for topic

Metric record is linked to
the PaNET record

GENERAL INFORMATION

PaN Experimental technique (PaNET)
doi:10.25504/FAIRsharing.a08d34

Type: Terminology artefact
Registry: Standard

Description: The PaNET ontology provides a taxonomy and thesaurus of photon and neutron (PaN) experimental techniques, based mainly on accelerator-based light sources and neutron facilities. The primary use of the ontology is to enhance the FAIRness of PaN data catalogues services. The ontology defines specific techniques in terms of more general technique classes and provides synonyms and references.

Homepage: <https://github.com/ExpPaNDS-eu/ExpPaNDS-experimental-techniques-ontology>

Year of Creation: None found

Maintainers: [rdlyme](#)

Countries developing this resource: France, Germany, Switzerland, United Kingdom

Subjects: Physics

Domains: N/A

Taxonomic Range: Not applicable

User Defined Tags: Neutron Science, Photon Science

[VIEW RELATION GRAPH](#)

FAIRsharing.org
doi.org/10.25504/FAIRsharing.a08d34

Example: compliance with a community vocabulary

FAIR Principles R1.3
(meta)data meet
domain-relevant community
standards

DIMENSION



Requires the use of PaNET
terminology for
experimental topics

METRIC



BENCHMARK



The set of metrics that define the
specific implementation of FAIR for
the PaNOSC community, including
compliance with PaNET
terminology for topic

Code that checks a dataset
is tagged with terms from
PaNET terminology

TEST

FAIRsharing.org
standards, databases, policies

```
{ iri =  
"https://purl.org/pan-science/PaNET/PaNET01088" }
```

GENERAL INFORMATION

PaN Experimental technique (PaNET)
doi:10.25504/FAIRsharing.a08d34

Type: Terminology artefact
Registry: Standard

Description: The PaNET ontology provides a taxonomy and thesaurus of photon and neutron (PaN) experimental techniques, based mainly on accelerator-based light sources and neutron facilities. The primary use of the ontology is to enhance the FAIRness of PaN data catalogues services. The ontology defines specific techniques in terms of more general technical terms.

Homepage: <https://github.com/E>

Year of Creation: None found

Maintainers: [Toby](#)

Countries developing this resource: France, Germany, Sk

Subjects: Physics

Domains: N/A

Taxonomic Range: Not applicable

User Defined Tags: Neutron Science, Photon Science

URL: <https://purl.org/pan-science/PaNET>

Name: PaN Experimental technique

Portal: Other

FAIRsharing.org
doi.org/10.25504/FAIRsharing.a08d34

Example: compliance with a community vocabulary

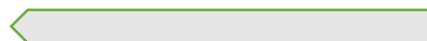
FAIR Principles R1.3
(meta)data meet
domain-relevant community
standards

DIMENSION



Requires the use of PaNET
terminology for
experimental topics

METRIC



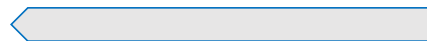
BENCHMARK



The set of metrics that define the
specific implementation of FAIR for
the PaNOSC community, including
compliance with PaNET
terminology for topic

Code that checks a dataset
is tagged with terms from
PaNET terminology

TEST



SCORING
ALGORITHM

Provides weightings for test
results, guidance for all
possible results, and links to
test endpoints

 FAIRsharing.org
standards, databases, policies

TEST RESULT



Pass or fail or indeterminate,
appropriate guidance is returned

BENCHMARK SCORE



Weights and conditions
applied, final result created

Powering and informing FAIR education, assistance/assessment

EOSC
OStrails

ESCAPE ENVRI community
SSHOC
LIFE SCIENCE RRI PaNOSC

Romain David
ERINHA, LS-R
0000-0003-4073-7456
FAIRsharing Champion for Life Sciences and RDM

Julianna van der Lek
CLARIN
0000-0002-0736-0311
FAIRsharing Champion for Linguistics

Baptiste Ceconi
Observatoire de Paris, ESCAPE
0000-0002-7915-5571
FAIRsharing Champion for Planetary Sciences and HelioPhysics

John Shepherdson
CESSDA
0000-0002-4402-9644
FAIRsharing Champion for Benchmarks and Metrics for the Social Sciences

Renaud Duyme
ESRF, PaNOSC
0000-0002-9909-1074
FAIRsharing Champion for Open Data

FAIRsharing.org
standards, databases, policies
Community Champions Programme
2026 OStrails Engagement

- Defining an **open, transparent framework, generic** and **extendable** to disciplines, and supporting services, which any tool can re-use
- **Work with EOSC clusters and national pilots, to address as many use cases as possible**

Powering and informing FAIR education, assistance/assessment



Romain David
ERINHA, LS-RI
0000-0003-4073-7456
FAIRsharing Champion for Life Sciences and ROM

Iulianna van der Lek
CUJRM
0000-0002-0736-0311
FAIRsharing Champion for Linguistics

Baptiste Ceconi
Observatoire de Paris, ESCAPE
0000-0002-7915-5571
FAIRsharing Champion for Planetary Sciences and HelioPhysics

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CESSDA
0000-0002-4402-9644
FAIRsharing Champion for Benchmarks and Metrics for the Social Sciences

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Renaud Duyme
ESRF, PANOSC
0000-0002-9909-1074
FAIRsharing Champion for Open Data



Jason Partridge
Open Access Services Development Lead
Bodleian Libraries
0000-0001-9819-9991

Alex Rooney
SDS Service Manager
Bodleian Libraries
0000-0003-4975-5773

Catherine Conisbee
SDS Project Officer
Bodleian Libraries
0009-0005-1681-5392

Tim Gamble-Turner
Research Technology Specialist
Research Support Team
IT Services
0000-0002-6610-0835

Mark McKerracher
SDS Product Manager and Migrations Lead
Bodleian Libraries
0000-0002-0299-6687

FAIRsharing.org
standards, databases, policies
Community Champions Programme
2026 Oxford Engagement

UNIVERSITY OF OXFORD

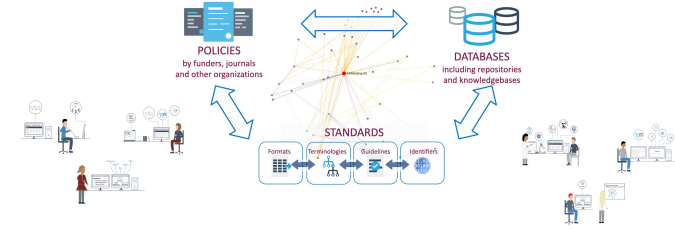
- Defining an **open, transparent framework, generic** and **extendable** to disciplines, and supporting services, which any tool can re-use
- **Work with EOSC clusters and national pilots, to address as many use cases as possible**



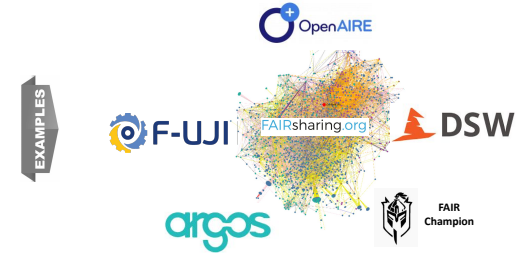
- **Piloting and customising** the FAIR assistance/assessment procedure for **Oxford institutional data repository (ORA)**
- **Test and validate** the approach with other institutional data repositories, via UKRN and other collaborations

Outline

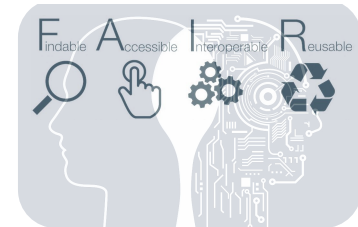
FAIRsharing as a registry



Knowledge in action



Towards AI ready content



FAIRsharing content is FAIR and AI-ready

Findability



Sitemap.xml, JSON



Markup with Schema.org for search indexes (*pre-rendered*)



Globally unique, persistent identifiers for each record



ORCID trusted party

Interoperability



JSON markup



Standardized semantics



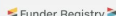
Cross-links to records in other registries



ROR for organizations



SPDX for licences



FundRef for funders (*ongoing*)

Accessibility



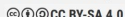
REST Web Services

Content negotiation



Data preservation policy

Reusability



CC BY and BY-SA 4.0 licenses



Full record history & attribution



Metadata docs and community alignment

FAIRsharing provides **humans** and **tools** with access to *trustworthy content* to support and enable management tasks

FAIRsharing content is FAIR and AI-ready



Exploring AI to make more use of the knowledge base

Findability



Sitemap.xml, JSON



Markup with Schema.org for search indexes (*pre-rendered*)



Globally unique, persistent identifiers for each record



ORCID trusted party

Interoperability



JSON markup



Standardized semantics



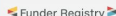
Cross-links to records in other registries



ROR for organizations



SPDX for licences



FundRef for funders (*ongoing*)

Accessibility



REST Web Services
Content negotiation



Data preservation policy

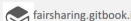
Reusability



CC BY and BY-SA 4.0 licenses



Full record history & attribution



Metadata docs and community alignment

- Chatbots for functionality and content
- Aid for the curation process
- Coding help
- Creation of educational material
- Dynamic content visualisation via AI-generated websites/applications

FAIRsharing provides **humans** and **tools** with access to *trustworthy content* to support and enable management tasks



In collaboration with the AI Competency Centre, which supports projects across the University to enable deployment of commercial AI tools in a controlled and secure environment

Get in touch with ideas for collaborations and partnerships

FAIRsharing for you: researchers
For the management and sharing of your data

FAIRsharing guides you to...

1 use the right databases and standards to report your data*

2 make your data discoverable

FAIRsharing supports you to:

1 Find data sources discovering databases, repositories, knowledgebases where you may find data of interest to your research

2 Meet policy requirements by helping you to select the right resources as required by funders, journal publishers, projects, institutions and other organisations

Sharing richly and clearly described data makes your work more reusable by other researchers, giving you credit and visibility.

Reach out to FAIRsharing to create and expand your guidance and training material.

FAIRsharing
CC BY-SA 4.0 International

Cite this: 10.5281/zenodo.1146504
London: 2020-08-08
Allyson Lister: 0000-0001-7102-4462
Susanna Assunta Sanchez: 0000-0001-7102-4462

FAIRsharing for you: librarians, trainers, data stewards
Helping you to help researchers on their FAIR journey

FAIRsharing helps you to ...

1 promote standards and databases that enable FAIR data* management practices

2 grow your knowledge of the resource landscape to drive your decisions and activities

FAIRsharing supports you to:

1 Inform your activities and decisions on appropriate databases and standards for each discipline and data type, providing you with a global view of their coverages, life cycle status, and relationships

2 Enhance your guidance and training for researchers with examples of generic and discipline-specific resources to describe and share (meta)data

1 Enable FAIR data management and reproducible research, and help researchers fulfil data management policy and follow guidance

2 Reach out to FAIRsharing to collaborate on guidance and collections of standards and databases specific to the needs of your organisation and awardees

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London: 2020-08-08
Allyson Lister: 0000-0001-7102-4462
Susanna Assunta Sanchez: 0000-0001-7102-4462

FAIRsharing for you: funders
Helping your awardees with DMP

FAIRsharing helps...

1 you to enable good data* management practice by promoting the use of FAIR-enabling databases and standards

2 your awardees by informing the development and execution of their Data Management Plans (DMPs)

FAIRsharing supports your awardees to:

1 Navigate through the wealth of databases and standards, and their relationships, according to their data types and discipline

2 Highlight it in your guidelines and policies as a trusted informative and educational resource on the evolving landscape of databases and standards

3 Recommend that awardees register their newly-developed databases and standards in FAIRsharing to improve their discoverability

4 Learn about the minimal information requirements, formats and persistent identifier schemas required for those databases

5 Register or claim your data policy in FAIRsharing, describing its content and scope, and any standards and databases recommended

To support FAIRsharing you can:

1 Highlight it in your guidelines and policies as a trusted informative and educational resource on the evolving landscape of databases and standards

2 Recommend that awardees register their newly-developed databases and standards in FAIRsharing to improve their discoverability

3 Learn about the minimal information requirements, formats and persistent identifier schemas required for those databases

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Reach out to FAIRsharing to collaborate on guidance and collections of standards and databases specific to the needs of your organisation and awardees

*Data and metadata for datasets, software, materials and other digital objects

Example of funder policy, DOI: 10.25561/FAIRsharing.KA370n

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London: 2020-08-08
Allyson Lister: 0000-0001-7102-4462
Susanna Assunta Sanchez: 0000-0001-7102-4462

Find more at fairsharing.org/educational

FAIRsharing for you: developers and curators
Visibility and credit for your standards, your databases, and you

FAIRsharing offers...

1 Rich and discoverable descriptions of standards and databases

2 FAIRsharing guides you authors in...

3 FAIRsharing assists you in...

FAIRsharing supports you to:

1 Navigate the wealth of standards and databases by providing a rich description and visualisations of the relationships, their life cycle status, and evolution

2 Increase the citability and discoverability (by humans and machine) of the resource you develop or maintain, and the personal and organisational attribution through DOIs, ORCIDs and ROR global identifiers

3 Use FAIRsharing to discover existing resources, to avoid duplication or for compliance, and the organisations behind them, e.g. to explore collaboration

1 Create your interrelated list of databases to recommend, with the standards they implement, and revise it over time to adapt to authors' needs and community practices

2 Advise your authors by providing you with a trusted source on the evolving landscape of databases and standards across disciplines

3 Make your data policy discoverable by humans and machines

4 Reach out to FAIRsharing to collaborate on guidance and collections of standards and databases specific to the needs of your organisation, and your community needs

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Allyson Lister: 0000-0001-7102-4462
Susanna Assunta Sanchez: 0000-0001-7102-4462

FAIRsharing for you: journal publishers
For your data policy, for your authors

FAIRsharing guides you authors in...

FAIRsharing assists you in...

1 Identifying the right standards to report their data*

2 Find databases to report their data

3 Improve your guidance to your authors

FAIRsharing supports you to:

1 Create your interrelated list of databases to recommend, with the standards they implement, and revise it over time to adapt to authors' needs and community practices

2 Advise your authors by providing you with a trusted source on the evolving landscape of databases and standards across disciplines

3 Make your data policy discoverable by humans and machines

1 Inform your community on the wealth and value of standards and databases, by providing a global picture of their relationships, life cycle status, and evolution

2 Identify collaborative opportunities with organisations behind existing standards and databases, by mapping the landscape of these resources and their community endorsements

3 Take action to enable FAIR data management, reproducible research, and good research practices

4 Reach out to FAIRsharing to collaborate on guidance and collections of standards and databases specific to the needs of your organisation, and your community needs

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London: 2020-08-08
Allyson Lister: 0000-0001-7102-4462
Susanna Assunta Sanchez: 0000-0001-7102-4462

FAIRsharing for you: societies and alliances
Supporting your mission to enable FAIR

FAIRsharing helps you to ...

1 amplify your understanding of the resource landscape

2 make informed policy and endorsement decisions

3 promote your resources and supports activities around FAIR data management

FAIRsharing supports you to:

1 Inform your community on the wealth and value of standards and databases, by providing a global picture of their relationships, life cycle status, and evolution

2 Identify collaborative opportunities with organisations behind existing standards and databases, by mapping the landscape of these resources and their community endorsements

3 Take action to enable FAIR data management, reproducible research, and good research practices

1 Promote it as the informative and educational resource that drives the adoption (in policies), development (if relevant) and use (in practice) of standards and databases to your community

2 Signpost it, as a trusted source on the evolving landscape of databases and standards across disciplines, in your guidance, policies and resource pages

3 Mobilise your community members to promote the registration of standards, databases and policies in FAIRsharing

4 Reach out to FAIRsharing to collaborate on guidance and collections of standards and databases specific to the needs of your organisation, and your community needs

*Data and metadata for datasets, software, materials and other digital objects

Example of alliance-agreed standards: fairsharing.org/DOI

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London: 2020-08-08
Allyson Lister: 0000-0001-7102-4462
Susanna Assunta Sanchez: 0000-0001-7102-4462

Reach out to FAIRsharing to collaborate on guidance and collections of standards and databases specific to the needs of your organisation, and your community needs

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Allyson Lister: 0000-0001-7102-4462
Susanna Assunta Sanchez: 0000-0001-7102-4462

Find more at fairsharing.org/educational

Acknowledgements

Stakeholder Advisors

- Adam Leary, Oxford University Press
- Catriona MacCallum, Wiley
- Dagmar Meyer, European Research Council, Executive Agency
- David Carr, Global Biodata Coalition
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- Graham Smith, Springer Nature
- Ishwar Chandramouliswaran, NIH Office of Data Science Strategy
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- Lauren Cadwallader, PLoS
- Marta Teperek, Open Science NL
- Michael Ball, Medical Research Council
- Matthew Cannon, Taylor and Francis
- Nick Everitt, Taylor and Francis
- Peter McQuilton, (FAIRsharing Founding Member), GSK
- Rebecca Grant, Taylor and Francis
- Richard Brown, BBSRC UKRI
- Sarah Callaghan, Research Strategy & Policy Unit, University of Oxford
- Sarah Stewart, University of Westminster
- Scott Edmunds, GigaScience, Oxford University Press
- Simon Hodson, CODATA
- Theo Bloom, British Medical Journal
- Thomas Lemberger, EMBO Press
- Varsha Khodiyar, Independent Expert
- Wei-Mun Chan, eLife

Operational Team



Allyson Lister

Content and Community
Coordinator



Milo Thurston

Technical Coordinator



Susanna-Assunta
Sansone

Principal Investigator and Founder



Philippe Rocca-Serra

Co-Founder



Delphine Dauga

Curation Manager



Prakhayt Gailani

Web Developer



Léa Girard

Curator



Ramon Granell

Data Manager and Research
Software Engineer



David Tomkins

Curator



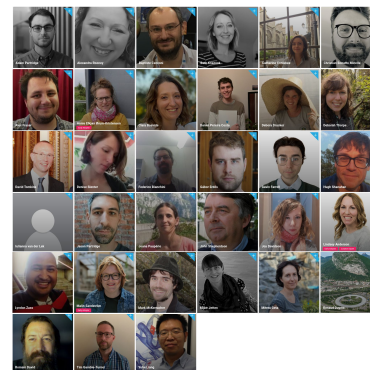
FAIRsharing is a service based at the University of Oxford, and anchored to the activities of the [University Research Practice Programme](#)

fairsharing.org/communities#governance

RDA FAIRsharing WG Chairs

- Graham Smith, Springer Nature
- Holly Murray, Health Data Research UK
- Peter McQuilton, GSK
- Rebecca Grant, Taylor and Francis
- Simon Hodson, CODATA
- Allyson Lister, Uni of Oxford
- Susanna-A Sansone, Uni of Oxford

Community Champions



fairsharing.org/community_champions

FAIRsharing.org  Educational

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ORA-FAIRsharing - FAIR assistance for institutional repositories



Tom Mitchell, Open Access Service Manager, Bodleian Libraries | ORCID: [0009-0007-5451-0486](https://orcid.org/0009-0007-5451-0486)
Dan Crane, Head of Research Data Management, Bodleian Libraries | ORCID: [0000-0002-7197-0974](https://orcid.org/0000-0002-7197-0974)

EXPLORE THE UNIVERSITY OF OXFORD'S WORLD-CLASS RESEARCH

<https://ora.ox.ac.uk>

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COVID-19 Collection

Climate Collection

AI Collection

More

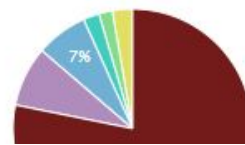
Deposit

Members of the University of Oxford can deposit a wide range of research to ORA including articles, conference papers, theses and data.

Latest additions

- [Membrane-permeable trehalose 6-phosphate precursor spray increases wheat yields in field](#)

In numbers



● Journal article
● Confere...
● Thesis
● Book

Enter your search here

/ All Fields ▾



Item Type ^

- Journal article (252,173)
- Conference item (26,188)
- Thesis (22,559)
- Book section (6,985)
- Working paper (5,894)
- Report (2,581)
- Book (2,444)
- Dataset (1,759)
- Internet publication (917)
- Record (650)
- more »

File Availability ▾

Division ▾

Department ▾

College ▾

Research Group ▾

Export ▾

10 per page ▾

Sort by Newly Added ▾

« Previous | 1 - 10 of 322,620 | Next »

1



Journal article

Membrane-permeable trehalose 6-phosphate precursor spray increases wheat yields in field trials

Griffiths, CA, Xue, X, Miret, JA, et al. | 2025-04-29



2



Journal article

Structural basis for recognition of Rift Valley fever virus Gn protein by a human neutralizing monoclonal antibody with a kappa light chain

Paesen, GC, Chapman, NS, Westover, JB, et al. | 2026-02-17



3



Journal article

Chemical staining for fundamental studies and optimization of binders in Li-ion battery

Enter your search here

/ All Fields ▾



You searched for:

Dataset

Export ▾

10 per page ▾

Sort by Newly Added ▾

« Previous | 1 - 10 of 1,759 | Next »

Item Type ^

Dataset (1,759)

File Availability ^

Available (1,594)

Not available (165)

Division ▾

Department ▾

College ▾

Research Group ▾

Subject ▾

Language ▾

Funder ▾

Item Date ▾

1



Dataset

Figure data: A statistical theory of electronic degrees of freedom in wave packet molecular dynamics

Plummer, D | 2026



2



Dataset

Dataset supporting Graph-based machine learning identifies oxygen replacements for conventional plastics and elastics

Poon, K, Molaei, S, Gao, C, et al. | 2026



3



Dataset

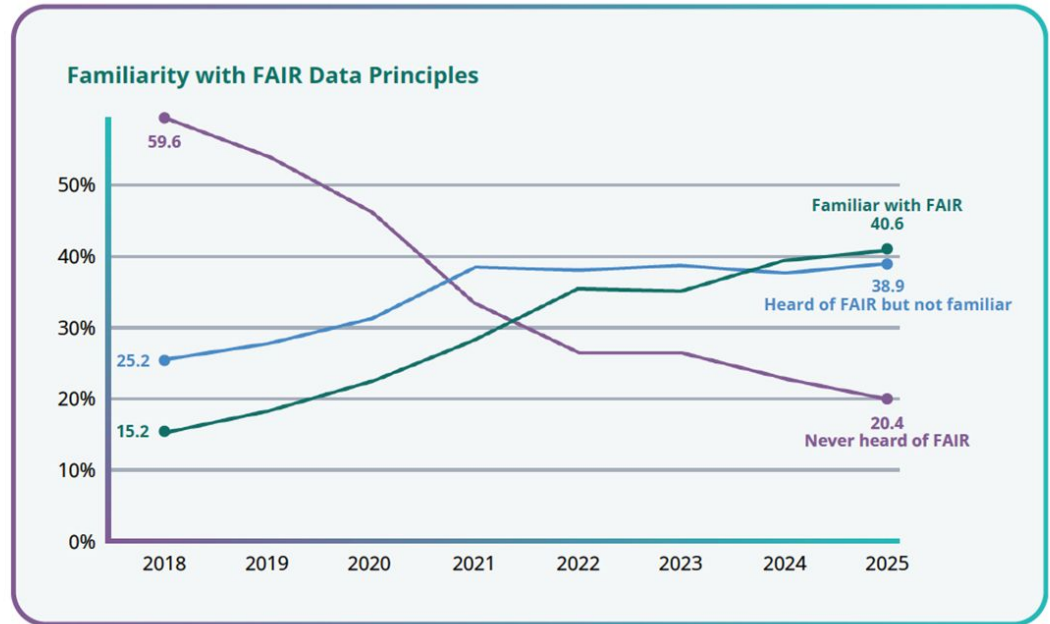
Data for Homogenized optoelectronic properties in perovskites: achieving high efficiency solar cells with common chloride additives



Understanding FAIR

The State of Open Data – a longitudinal analysis of researchers' attitudes towards and experiences of open data (now in its 10th year)

Question: "How familiar are you with the FAIR data principles?"



Supporting FAIR

How can libraries support researchers to make outputs as findable, understandable and useful as possible?

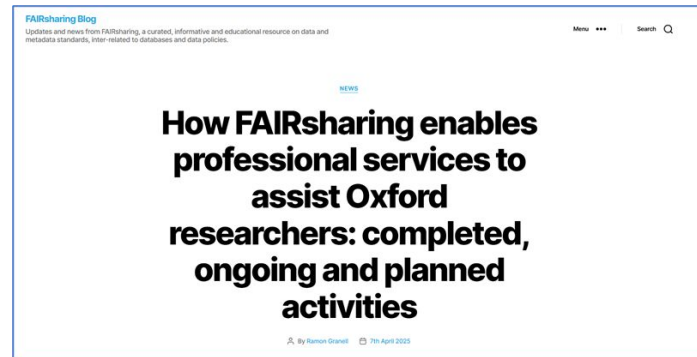
- Encourage depositing datasets in stable, well-structured environments (e.g. data repositories)
- Create useful records with consistent metadata and documentation
- Link to related outputs, creators, institutions and funding, with persistent identifiers (e.g. DOIs, ORCIDs, RORs)



FAIRsharing and the Bodleian Libraries

A long-standing collaboration

- Creating DOIs for FAIRsharing items, via the Bodleian DOI Service
- Supporting FAIRsharing's preservation and disaster recovery plan
- Encourage the creation of FAIRsharing records for relevant items in ORA
- FAIR Champions
- And now... assessing FAIR-ness of datasets in ORA



<https://blog.fairsharing.org/?p=1012>

Assessing FAIR-ness of datasets in ORA

A collaborative project between the Bodleian Libraries and FAIRsharing, part of the University's Research Practice Programme

Aims:

- Offer a scalable solution to support Oxford researchers to share FAIR digital objects in ORA
- Meet requirements of funders
- Contribute to the support of open research



Assessing FAIR-ness of datasets in ORA

How?

- Operationalise a FAIR assessment process on research datasets made available or recorded within ORA, by:
 - integrating the two systems to enable ORA to access the relevant FAIRsharing functionalities and content
 - benchmarking to define a 'score' of 'FAIRness'
 - showing how and at which level FAIR compliance is met, delivering guidance and examples to researchers
- Potential to define a model as an exemplar service for other institutional repositories



Benchmarking

1. Understand the principles

FAIR Principles

<https://go-fair.org/fair-principles>

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[Home](#) > [FAIR Principles](#)

> FAIR Principles

- > **F1: (Meta) data are assigned globally unique and persistent identifiers**
- > **F2: Data are described with rich metadata**
- > **F3: Metadata clearly and explicitly include the identifier of the data they describe**
- > **F4: (Meta)data are registered or indexed in a searchable resource**
- > **A1: (Meta)data are retrievable by their**

In 2016, the '**FAIR Guiding Principles for scientific data management and stewardship**' were published in *Scientific Data*. The authors intended to provide guidelines to improve the **Findability, Accessibility, Interoperability, and Reuse** of digital assets. The principles emphasise machine-actionability (i.e., the capacity of computational systems to find, access, interoperate, and reuse data with none or minimal human intervention) because humans increasingly rely on computational support to deal with data as a result of the increase in volume, complexity, and creation speed of data.

A practical "how to" guidance to go FAIR can be found in the **Three-point FAIRification Framework**.

Findable

The first step in (re)using data is to find them. Metadata and data should be easy to find for both humans and computers. Machine-readable metadata are essential for automatic discovery of datasets and services, so this is an essential component of the **FAIRification process**.

F1. (Meta)data are assigned a globally unique and persistent identifier

Benchmarking

1. Understand the principles

2. Explore application of principles to ORA

#	Sub-principle	Potential measure for ORA	Potential measure for generic repositories	Questions/notes
F1	(Meta)data are assigned globally unique and persistent identifiers	Records of research data objects which have uuids or DOIs	Records of have one of a pre-defined list of identifiers	Every record will have a uuid, so gets an automatic pass - a DOI is better ORA DOI vs external DOI - additional F1 GUID test could be added to test whether it is ORA or not
F2	Data are described with rich metadata	Indexed and available to machines (via API) - json etc. OR Record has metadata set in key fields x, y, and z?		Essentially, can metadata be used to find the record? (R1 is similar but relates to reusability) Is a record indexed and available to machines via API (json etc.)? Explore with developers - xml is exportable (structured?) what other outputs are readable by machines? How do we measure "discoverability"? Are we interested in structured or (going further) grounded metadata?
F3	Metadata clearly and explicitly include the identifier of the data they describe	Records of research data objects have an appropriate link within the metadata to the object being described (DOI or URL)		Could detect presence of an external URL or DOI Could add additional test about whether the identifier is resolvable (this isn't part of the generic test) dc_identifier in structured xml
F4	(Meta)data are registered or indexed in a searchable resource	Records of research data are registered in ORA?		ORA is a searchable resource and is heavily indexed, registered in R3 and DataCite etc. Metric at: https://fairsharing.org/10.25504/FAIRsharing.x1f114 - searches for info from an object, then sees if the GUID comes back: could work for long-existing records but we would need another metric to check over new records, or at least a different benchmark that ignores F4. Could define where the object is searchable (could be ORA!) but more in keeping with the principle to make it searchable in a widely-used search engine.

Benchmarking

1. Understand the principles

2. Explore application of principles to ORA

3. Compare to generic metrics

FAIR Metric - FAIR Maturity Indicator - Open protocol for (meta)data retrieval - Gen2-MI-A1.1 (FM Gen2-MI-A1.1)

 [10.25504/FAIRsharing.DfMGZW](https://doi.org/10.25504/FAIRsharing.DfMGZW) 

Metric

FAIRassist

The FAIR Maturity Indicator - Open protocol for (meta)data retrieval measures if the resolution protocol is universally implementable with an open protocol associated with them could prevent users from being able to obtain the resource. Gen2-MI-A1.1 is a domain- and object-type agnostic metric. The resolution protocol used is universally implementable with an open protocol. Implementations may, for example query the resolution protocol against the requirements of FAIRness.

https://github.com/FAIRMetrics/Metrics/blob/master/MaturityIndicators/Gen2/Gen2_MI_A1.1.md

2019

[MarkWilkinson](#)  , [allysonlister](#)  , [FAIRsharingTeam](#)

[Netherlands](#), [Spain](#), [United Kingdom](#)

Object Type Agnostic

Subject Agnostic

Digital Curation

FAIR

Not Applicable

<https://fairsharing.org/2326>

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Benchmarking

1. Understand the principles
2. Explore application of principles to ORA
3. Compare to generic metrics
4. Draft a narrative document



University of Oxford

ORA FAIR Assessment (Datasets) – Conceptual Requirements

doi:
10.25551/11111111

Version number	0.1
Status	In progress
Author(s)	Allyson Lister, Tom Mitchell, Thomas Wrobel
Contributor(s)	

Revision History

VERSION	STATUS	DATE	DESCRIPTION	AUTHOR(S)
0.1	In progress		First draft	Allyson Lister, Tom Mitchell, Thomas Wrobel

Benchmarking

1. Understand the principles

2. Explore application of principles to ORA

3. Compare to generic metrics

4. Draft a narrative document

5. Begin test development

STANDARDS

DATABASES

POLICIES

COLLECTIONS

ORGANISATIONS

GENERAL INFORMATION



? Type

Benchmark

? Registry

FAIRassist

? Description

The 'FAIR Benchmark – Institutional Repository Datasets' provides a structured framework for delivering FAIR assistance. It operationalises the FAIR principles in a practical way, supporting alignment with community-endorsed research standards. For institutional repository teams, who implement and run the associated assessment tests as part of repository workflows; use the benchmark outcomes to better understand the FAIRness of their datasets and identify areas for improvement, then consistent and transparent evaluation approach, the benchmark supports coordinated FAIR assessment of dataset metadata. It distinguishes between repository-implemented FAIR properties and record-level FAIR properties, and clearly states where the benchmark is designed to be applied to institutional repository records once they have been made publicly available.

? Homepage

<https://fairsharing.gitbook.io/fairsharing/about-our-records/fair-assistance#fair-benchmark-institutional-repository-datasets>

? Year of Creation

2026

? Maintainers

[tom.mitchell](#)  , [allysonlister](#)  , [thomas.wrobel](#) 

? Countries developing this resource

[United Kingdom](#)

? Object types in scope for this

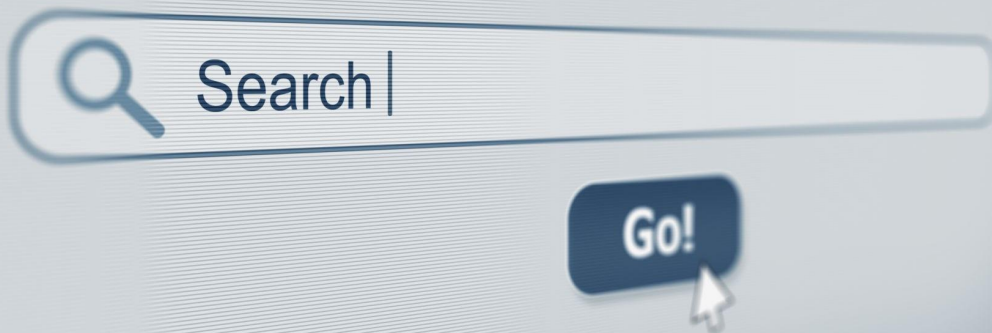
Dataset

 DOIs are only issued to records with 'Ready' status

<https://fairsharing.org/7598>

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F4: ORA records are searchable within ORA and also indexed by major web search engines, helping people to discover research outputs such as datasets.



A1.2: ORA metadata is openly accessible, with no authorisation/authentication requirements.

How will this help?

1. Finding existing alignment with FAIR principles



How will this help?

1. Finding existing alignment with FAIR principles
2. Developing our systems to improve FAIRness



**FAST
Subject
Headings**

**Related
Items**

How will this help?

1. Finding existing alignment with FAIR principles
2. Developing our systems to improve FAIRness
3. Identify areas where we can encourage depositors to make their own data more FAIR



Enhancing Trust, Integrity and
Efficiency in Research through
next-level Reproducibility

Editorial Reference Handbook and Data Availability Statement interventions

Matt Cannon, Taylor & Francis ([ORCID:0000-0002-1496-8392](https://orcid.org/0000-0002-1496-8392))

Rebecca Taylor-Grant, Taylor & Francis ([ORCID: 0000-0002-7614-0806](https://orcid.org/0000-0002-7614-0806))

TIER2 Colleagues:

Allyson Lister ([ORCID:0000-0002-7702-4495](https://orcid.org/0000-0002-7702-4495)), Susanna-A Sansone ([ORCID:0000-0002-6468-9260](https://orcid.org/0000-0002-6468-9260)) (University of Oxford)

Tony Ross-Hellauer ([ORCID:0000-0003-4470-7027](https://orcid.org/0000-0003-4470-7027)), Thomas Klebel ([ORCID:0000-0002-7331-4751](https://orcid.org/0000-0002-7331-4751)) (KNOW)



Funded by the European Union.

Views and opinions expressed are those of the author(s) only and do not necessarily reflect those of the European Union or the European Commission.
Neither the EU nor the EC can be held responsible for them.

Agenda

- Introduction to T&F as an associate partner on TIER2
- Editorial Reference Handbook (piloted with 19 journals, 11 publishers, incl. T&F)
 - What is the problem?
 - What did we do?
 - What are the outcomes?
- DAS Intervention (piloted with T&F)
 - What is the problem?
 - What did we do?
 - What are the outcomes?
- Questions

Introduction to Taylor & Francis

- Global publisher of books and journals
- 2,500 journals across medicine, science & technology, social sciences and humanities & arts portfolios
- Open Science team since 2009
- Role is to set policies, practices and innovative pilots in relation to open science
- Invited to join TIER2 as an associate partner

Editorial Handbook: what was the problem?

- Increasingly researchers required to share research objects by funders, institutions and journal policies (data, code, media etc)
- Over time journals/publishers have created processes for checking these objects, but not consistent at ensuring FAIR principles and metadata best practice
- Lack of consistency was confusing for authors

Editorial Handbook: what did we do?

- Identified best-in-class checklists to confirm what should be checked
- Ran workshops with publishers to agree:
 - What roles do publishers have in-house to facilitate checks
 - When is the right time to make each check
- We matched a check, to a role, to a point in the workflow

Checklist

A downloadable spreadsheet that **serves as template to implement the checks and record each outcome**. The 13 checklist elements are grouped according to those applicable to the manuscript as whole, and those relevant to the digital object(s) present in the manuscript.



Flowchart

A downloadable visualisation overview that **places the checks onto an idealised manuscript submission workflow**, showing **who** should perform each check and **when**, along with a **decision path** to follow based on the outcome of each check.



Guidance

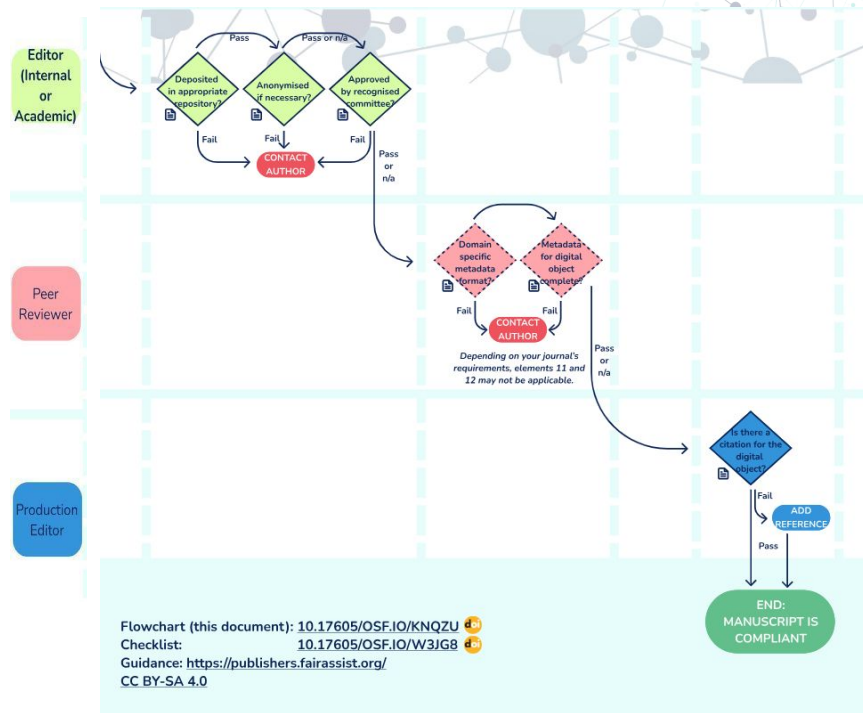
Provides information to **learn about and operationalise the checks**. It describes how to use the Checklist and Flowchart components, giving **definitions of the checklist elements and implementation tips**.

Editorial Handbook: checklist elements

Digital Object–Level Checks:

- Valid, resolvable identifier
- Acceptable licence as per journal policies
- Open access, or valid justification for controlled access
- Peer-review access if not open
- Deposited in appropriate repository (domain-specific or acceptable generalist repo); in-house journal whitelists, community-developed recommendations, or FAIRsharing content are exemplar options
- Anonymisation (as relevant)
- Ethics committee approval evidence, (as relevant)
- Use of domain-specific metadata format (as relevant)
- Metadata completeness per community standards (as relevant)
- Citation of the digital object in the article's References

All elements must be marked Pass, Fail, or N/A. Fails trigger corrective workflows, as described within the Handbook Guidance and as per journal and/or publisher policies



<https://publishers.fairassist.org/>, partial view of the flowchart

Operationalise some checks via FAIRsharing, e.g.:

F1000 registers their data policy with FAIRsharing

GENERAL INFORMATION

F1000Research Data Guidelines
DOI: 10.25504/FAIRsharing.nb9z2m

Type: Journal
Registry: Policy
Description: This is a non-exhaustive list of databases, standards, and policies that have been approved for an F1000Research article.
Homepage: <http://f1000research.com/for-authors/data-guidelines>
Year of Creation: 2015
Maintainers: F1000Research, beck.grant

FAIRsharing.org
standards, databases, policies

F1000 recommends the use of EVA, among others

European Variation Archive (EVA)
European Variation Archive (EVA)
DOI: 10.25504/FAIRsharing.6824pr

Type: Repository
Registry: Database
Description: The European Variation Archive is an open-access archive that accepts submission of, and provides access to, all types of genetic variation data from all species. All users are able to download any dataset, or query our study catalogue via our variation table. Access to EVA data is also provided by RESTful web services for a variety of applications, such as annotation pipelines.

EVA uses the Variant Call Format. Check for its use within the manuscript.

Variant Call Format (VCF)
DOI: 10.25504/FAIRsharing.cfz20h

Type: Model and format
Registry: Standard
Description: Variant Call Format (VCF) is a text file format (most likely stored in a compressed manner). It contains meta-information lines, a header line, and then data lines each containing information about a position in the genome.

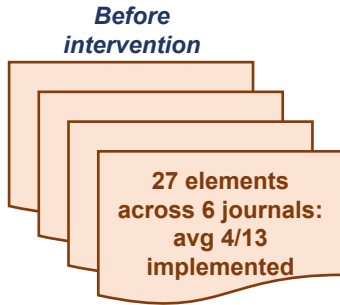
11 - Where applicable, has an appropriate domain-specific metadata format been used?

Instructions: This element is **specialised**; while it is important to provide metadata in domain-specific formats, the stringency of the Checklist elements depends on a number of factors, such as whether or not the journal requires domain-specific repositories, and whether or not an appropriate format exists. If the [digital object](#) applies an appropriate domain-specific metadata format, this element passes. If no such format exists, or if such a format is neither applied nor mandated, the element is not applicable ('N/A' status). Finally, if the format is mandated but is not used, the element fails.

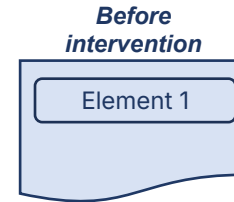
Editorial Handbook intervention: outcomes

- 6 journals (**190 manuscripts**) participated in the intervention
- Participants reported that the Handbook met their needs overall, noting that
 - journals had assumed a more active role in assessing the quality of digital objects, and
 - policies had been strengthened as a result

Average number of
implemented checklist elements



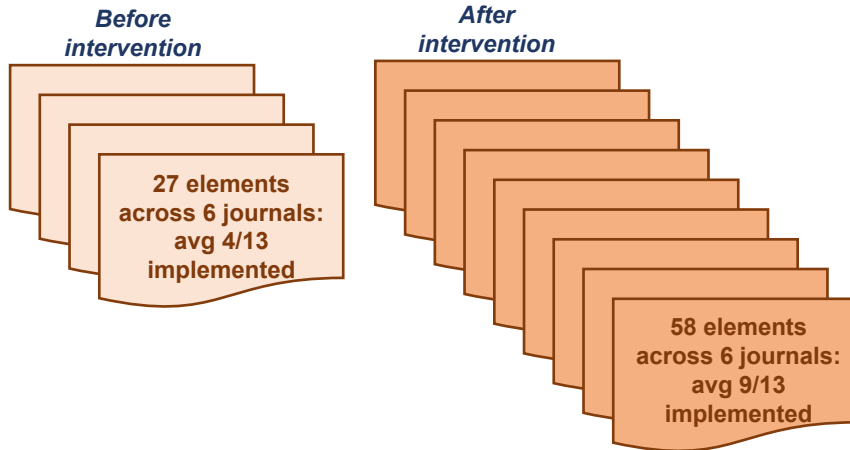
Implemented by all participants



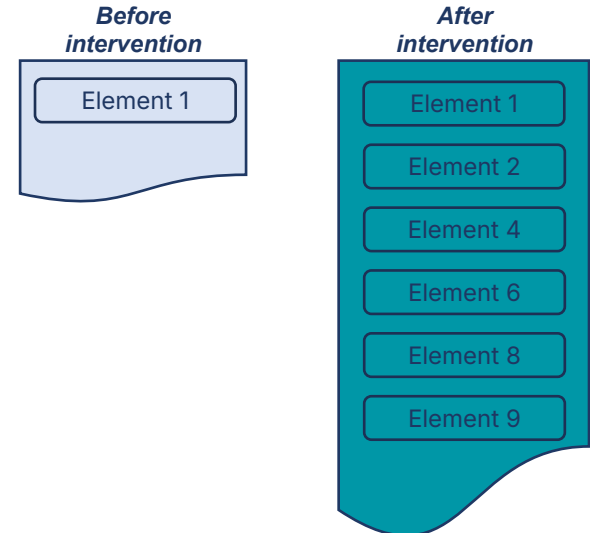
Editorial Handbook intervention: outcomes

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 - journals had assumed a more active role in assessing the quality of digital objects, and
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Average number of implemented checklist elements



Implemented by all participants



Recommendations

1. **Implement** the Handbook and its checklist as fully as possible across your journals
2. **Register** your journal or publisher-level policy for digital objects with FAIRsharing
3. **Invest** in your in-house capability and capacity
4. **Champion** the research culture in your organisation and beyond

Acknowledgements

Supporting FAIR Practices In Scholarly Publishing with the Editorial Reference Handbook

Allyson L. Lister^{1,19}, Rebecca Taylor-Grant^{2,19}, Matthew Cannon^{2,19}, Roshan Ahmed³, Gabriele Alfarano⁴, Rabia Begum⁵, Jenny Bright^{6,7}, Lauren Cadwallader⁸, Imogen Cranston², Libby Dunkley⁹, Scott Edmunds^{10,13}, Patrik Flammer¹¹, Annie Hill¹², Chris Hunter^{10,13}, Andrew Hyde⁹, Thomas Klebel¹⁴, Adam Leary¹⁵, Catriona J. MacCallum¹⁶, Sarah McKenna¹⁵, Kiera McNeice⁹, Jess Miorini⁹, Nicole Nogoy^{10,13}, Kinga Patterson^{9,17}, Bernd Pulverer¹⁸, Tony Ross-Hellauer¹⁴, Abigail Smith^{13,16}, Hannah Sonntag¹⁸, and Susanna-Assunta Sansone^{1,19}.

1. Oxford e-Research Centre, Department of Engineering Science, University of Oxford, 7 Keble Road, OX13QG, Oxford, UK
2. Taylor & Francis, 4 Park Square, Milton Park, Abingdon OX14 4RN, UK
3. Genome Medicine, BMC, Springer Nature, USA
4. Genome Medicine, BMC, Springer Nature, Germany
5. Genome Medicine, BMC, Springer Nature, UK
6. Cambridge University Press, UK
7. The Editorial Hub, UK
8. PLOS, Cambridge, UK
9. Cambridge University Press, UK
10. GigaScience Press, Hong Kong
11. BMC, Springer Nature, UK
12. American Psychological Association, Washington, DC, USA
13. Independent expert
14. Open and Reproducible Research Group, Know Center Research GmbH, Graz, Austria
15. Oxford University Press, Great Clarendon Street, Oxford, UK
16. Wiley, 9600 Garsington Road, Oxford, England, UK
17. School of Psychology, Faculty of Medicine and Health, The University of Leeds, UK
18. Open Science Implementation, EMBO, Meyerhofstrasse 1, 69117 Heidelberg, Germany
19. Corresponding authors, and these authors contributed equally.

DAS Intervention: what was the problem?

- Access to data behind a research paper is crucial for a number of reasons – it gives readers trust in the results they are reading, it enables verification, replication and potentially reproducibility
- From a publisher side, knowledge of best-practices around research data sharing are not consistent or equal across all researchers globally. We see certain subject areas and geographies where skill levels are higher than others.
- We set minimum requirements for researchers submitting to journals via a data sharing policy. These need to be across a spectrum to meet a journal community where they are.
- One of the policies is known as Share Upon Request; where readers would request access to the data directly from the authors. But research into the effectiveness has shown that it is not guaranteed that authors always share, based on a number of factors.

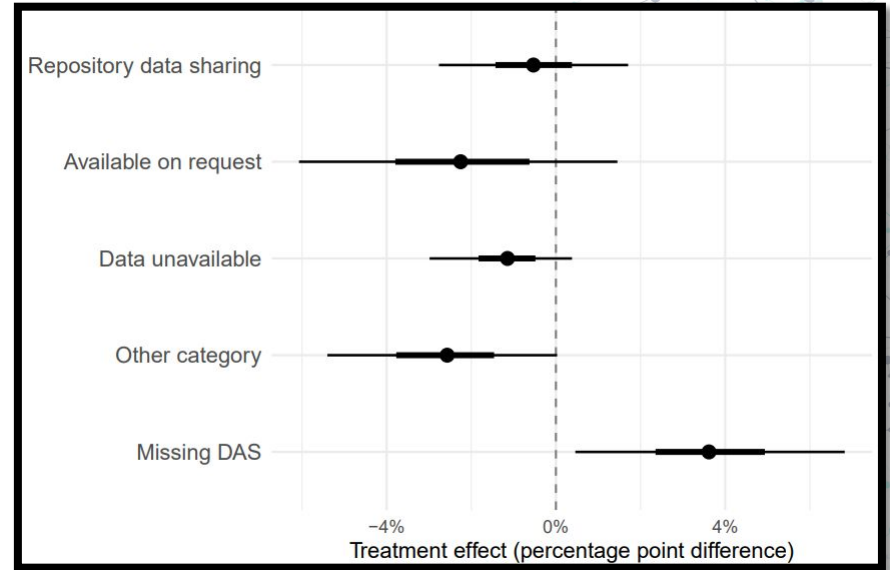
We wanted to see if we could design an intervention on journals that offered a SURR policy, to increase proactive data sharing

DAS Intervention: what we did do?

- We wanted to see if we could influence authors of papers in journals with a share upon request policy
- We designed an RCT to test the impact of an email to authors with the benefits of sharing data at the point their paper was returned to them to make improvements following peer review and a 'revise' decision.
- We did this across six T&F journals, looking at 600+ papers

DAS Intervention: outcomes

- Over 600 papers in the dataset
- Range of actions taken by authors around DAS in both intervention and control groups
- Effects on the intervention group are not significant, but still finalising outcomes
- Will be sharing final results as a research paper



Overall conclusion from both pilots

- Publishers are taking proactive action to increase adoption of FAIR principles by researchers
- Easier to influence own practices – and the **Reference Handbook pilot** shows they can be effective
- **DAS pilot** shows that incentives and influencing behaviour are more complicated. Working within systems/processes not designed for branching/testing limits the scope of what is possible.
- T&F has made a positive contribution to success of TIER2 and made mutually beneficial connections along the way



RESEARCH DATA ALLIANCE

Championing FAIR resources and practices with the RDA Ambassadors

Beth Knazook, *DRI* | ORCID: [0000-0003-3108-3921](https://orcid.org/0000-0003-3108-3921)

Allyson Lister, *University of Oxford* | ORCID: [0000-0002-7702-4495](https://orcid.org/0000-0002-7702-4495)

Daniel Manrique-Castano, *DRA of Canada* | ORCID: [0000-0002-1912-1764](https://orcid.org/0000-0002-1912-1764)



RESEARCH DATA ALLIANCE

in a Nutshell



What is the RDA?

The RDA is an **international member-based organisation** focused on the development of **infrastructure** and **community activities** that reduce barriers to **data sharing** and **accelerate data-driven innovation** worldwide.



15,000+ members



150+ countries



Researchers, scientists,
data professionals



Different disciplines, domains,
thematic fields

What do RDA members do?



Collaborate
across
the globe



Create and join
community-driven
RDA groups



Tackle infrastructure
and data sharing
challenges



Exchange
knowledge and
share discoveries



Discuss barriers and
potential solutions



Explore and define
policies



Test and harmonise
standards




Enhance and
facilitate global data
sharing and reuse

Join groups and collaborate!

129 active working and interest groups, making it easy to contribute according to your interests

WORKING GROUP

 **FAIRsharing Registry: Connecting data policies, standards and databases RDA WG**

Group Stage: WG Maintaining Deliverables


COORDINATION GROUP

RDA Ambassadors

Group Stage: Not applicable

Building the social and technical bridges to enable open sharing and re-use of data

RDA EU RDA US CONTACT US LOGIN REGISTRATION

 **O&A Members** 71 **MEMBERSHIP** Members: 12952 **RDA Groups** WG & IGs: 100

Active Organisational & Affiliate members

Becoming a member of RDA is simple and open to both individuals and organizations

Discover what RDA Working and Interest Groups and all other Groups are up to and find out how to join them. [Explore Groups](#)

Register now

ABOUT RDA GET INVOLVED GROUPS RECOMMENDATIONS RDA FOR DISCIPLINES PLENARIES & EVENTS NEWS & MEDIA

Bringing the RDA Community to your Community

Home

71 2021-2022

Bringing the RDA Community to your Community

Group leading the application: FAIRsharing Registry: Connecting data policies, standards and databases RDA WG

FAIRsharing Registry: Connecting data policies, standards and databases RDA WG

Professionalising Data Stewardship IG

Early Career and Engagement IG

Engaging Researchers with Data IG

Meeting agenda:

1. The RDA Community

The RDA Community. The RDA Community Development Manager will give an overview of RDA community groups, outputs and adoption stories. The [RDA's upcoming thematic 10th Anniversary series of events and activities](#) will be presented in addition to the thematic [community cross-fertilisation workshops](#) organised during each month of 2023.

Bringing RDA to Research Communities. As part of the [EOSC Future](#) project, the RDA has led efforts designed to facilitate improved awareness of open science practices, services, and resources available within the European Open Science Cloud (EOSC) and RDA, leading to enhanced engagement with open science across disciplinary communities. One of these efforts involved a series of open calls for domain ambassadors who would form a helpful network of disciplinary experts to act as skilled communicators around EOSC and RDA within their respective communities. Some highlights of RDA's engagement work will be shared followed by presentations from several current and former ambassadors.

JOINT-MEETING SESSION December 13, 2023

Community Engagement That Works! Examining Tools And Success Stories Of Pathways To Engagement In Community-Led Organisations At A Global Level

Plenary: RDA 20th Plenary

Session Abstract

Recording

Group Information

Preferences & Conflict Considerations

Plenary Details

Meeting objectives

The RDA is one of many grassroots data initiatives run globally that is attempting to broaden engagement in open science and improve practices around research data management. Its members participate in a variety of community initiatives, some financially supported, aimed at engaging community experts to share RDA outputs and encourage best practice in a variety of research domains and contexts. Instruments such as grants, community partnerships, and national networks are intended as effective and light-weight incentives to work towards these goals.

The purpose of this session is to present a range of global initiatives and engagement activities, and to spotlight what engagement strategies work well and how to improve. It will showcase individuals who are actively, or have been previously, involved in such programmes as well as highlight some RDA groups and their engagement. It will aim to foster discussion of the best ways to support and fund grass-roots expertise, knowledge sharing and participation in the context of open science community actions.

Existing methods of successful community engagement, as well as any challenges to those successes, will be showcased using the following examples:

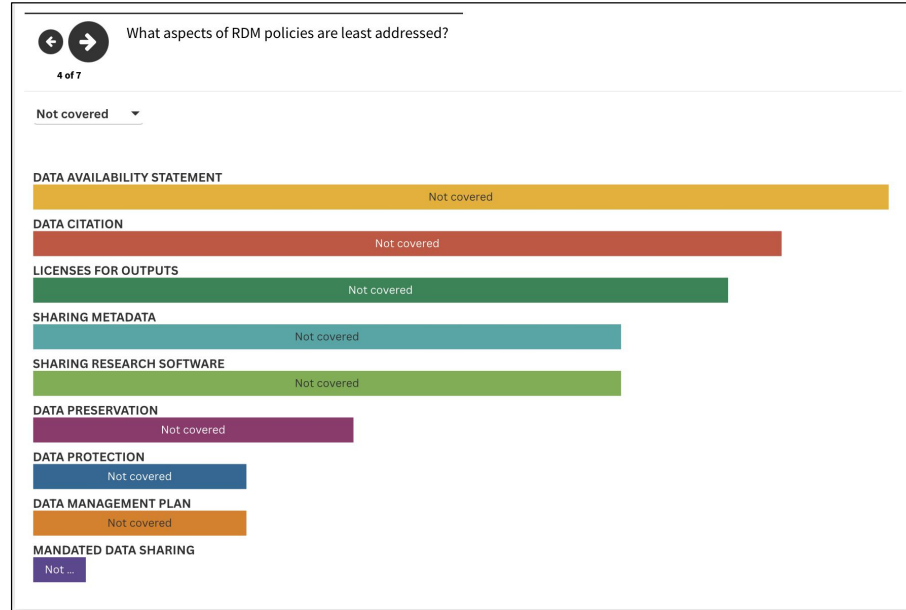
- Open Calls: RDA open calls programmes and Ambassadorships
- RDA Foundation Community Engagement (Global)
- FAIRsharing Community Curation Programme
- Data Curation Network (US) use case
- RDA IGs and WGs use cases



Beth Knazook
 Digital Repository of Ireland
 0000-0003-3108-3921
 FAIRsharing Champion for
 Cultural Heritage

Comparative analysis of Irish data policies in FAIRsharing

1	Institution	FAIRsharing policy record link	Policy Name	Year	Mandated Data Sharing?	Exceptions to Data	Data Citation
2	Publicly funded Universities						
3	University College Dublin	https://fairsharing.org/5989	UCD RDM Policy	2020	suggested	No	No
4	University College Cork	https://fairsharing.org/5965	UCC RDM Policy	2014	suggested	No	No
5	University of Galway	https://fairsharing.org/5988	University of Galway RDM Policy	2018	suggested	No	No
6	Maynooth University	https://fairsharing.org/6022	Maynooth University RDM Policy	2021	suggested	No	No
7	University of Limerick	https://fairsharing.org/6000	UL RDM Policy	2024	suggested	Yes	Yes
8	Trinity College Dublin	https://fairsharing.org/6005	TCD Policy on Good Research Practice	2024	suggested	No	Yes
9	Dublin City University	https://fairsharing.org/5992	DCU Code of Good Research Practice	2024	suggested	No	No
10	Technological University Dublin	https://fairsharing.org/6162	TU-Net Joint Statement on Research Data Management	2023	required	Yes	No
11	Munster Technological University	https://fairsharing.org/5837	MTU RDM Policy	2022	suggested	No	No
12	Technological University of the Shannon	[see TUD]					
13	Atlantic Technological University	[see TUD]					
14	South East Technological University	https://fairsharing.org/5993	Research Procedures Guideline	2024	suggested	No	No
15							
16	Institutes of Technology						
17	Dundalk Institute of Technology						
18	Dun Laoghaire Institute of Art, Design and Technology						
19							
20	Other Institutions that Receive Public Funding						
21	Marino Institute of Education	https://fairsharing.org/6164	Marino Good Research Practice	2023	required	Yes	No
22	Mary Immaculate College						
23	National College of Art and Design						
24	National College of Ireland						
25	Pontifical University of Maynooth						
26	St Patrick's, Carlow College						
27	Royal Irish Academy of Music						
28	Royal College of Surgeons Ireland	https://fairsharing.org/5999	RCSI RDM Policy	2018	required	No	No

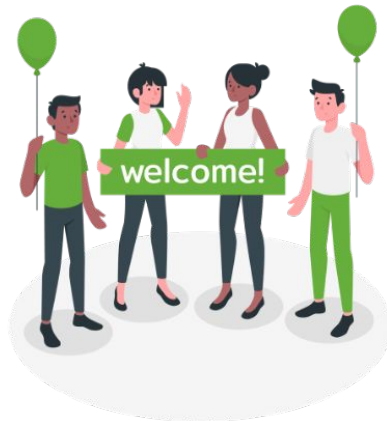


<https://public.flourish.studio/story/2890572/>

Beth Knazook, Digital Repository of Ireland

b.knazook@ria.ie





Who are the RDA Ambassadors?

Supporting engagement in Open Research

Knowledge of a scientific community, its needs and point of progress towards Open Science



... builds the **social and technical bridges** to enable the open **sharing and re-use** of data



... creates a trusted platform with **open and FAIR data, resources and services** for all scientific disciplines

DOMAIN AMBASSADOR



Two way communication between the scientific community and RDA / EOSC Future

Peer insight and deeper understanding of how to promote **Open Science and data management**

Outreach to promote RDA outputs and EOSC offerings

RDA Ambassadors Coordination Group

- *Supporting cross-community exchange in monthly meetings*
- *Building the networking potential of RDA through informational guides, newcomer-focused activities, & opportunities to speak at events*
- *Developing shared, reusable promotional material that can be used by anyone*





Name: Allyson Lister
Area of work: Cross disciplinary, RDM

I am an ambassador for...

Standards, repositories and policies, with a focus on their curation and discoverability across the RDM ecosystem.

Some examples of what I do as an ambassador...

Outreach and advocacy for good **FAIR practices**.

Management of the **FAIRsharing Community Champion Programme**, where Champions gain recognition, professional development and influence by contributing to:

- curation activities
- gap analysis
- educational provision

What would help me in the future is...

Diverse expertise: Join the RDA to help us align international RDM outputs with the needs of local universities / research communities.

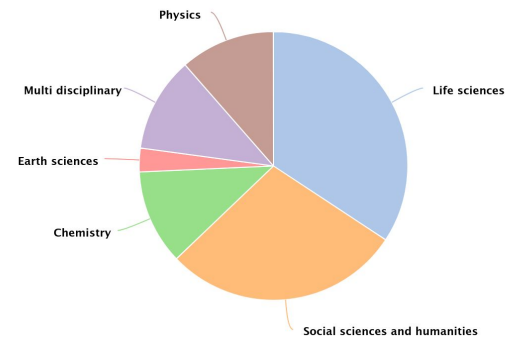
Strategic voices for our Coordination Group: Help us shape how the Ambassador program grows and engages with the RDA and beyond.

What I would tell others thinking about becoming an ambassador...

- **Influence direction** by joining our Coordination Group
- **Shape global RDM** rather than just implementing it
- **Create a direct link** between your university and the global RDA community



Champions' Broad Specialisms



want to know more?

2025 in review: our Community Champions



Name: Daniel Manrique-Castano
Area of work: RDM, Biomedicine

I am an ambassador for...

Promoting open and responsible scientific practices based on research data management competencies

Some examples of what I do as an Ambassador...

- **Advocacy** for training/incorporation of **good scientific practices** in research.
- Training in **technical skills** to manage and document research projects.
- Development of **open curation tools** to improve curation capacity and enhance curation workflows.

What would help me in the future is...

Build a network of researchers and data managers supporting open and responsible science practices in diverse scenarios.

What I would tell others thinking about becoming an ambassador...

- Building a community to **strengthen the impact** of RDA in research and RDM community.





Learn more about the Ambassadors:

<https://www.rd-alliance.org/disciplines/rda-domain-ambassadors/>

— THANK YOU —

research data sharing
without barriers
rd-alliance.org