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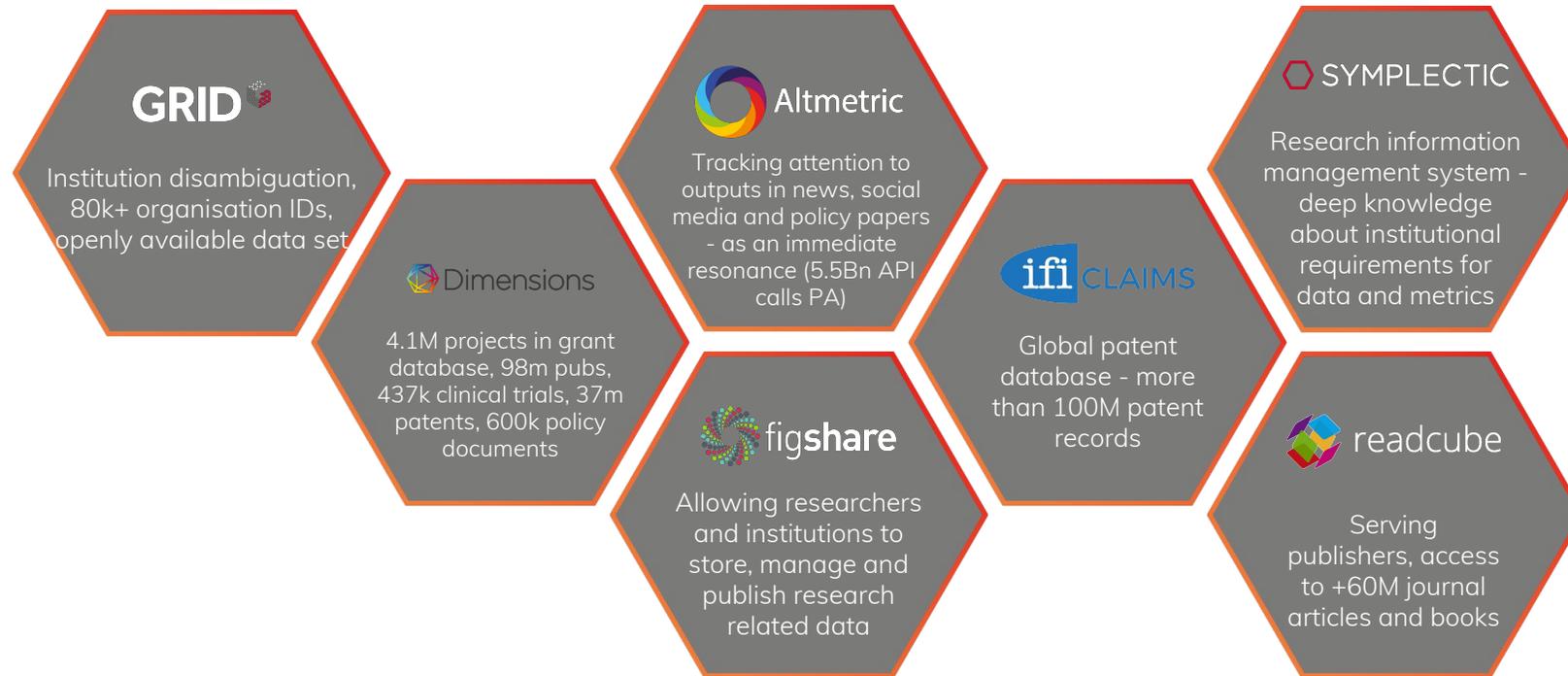
Figshare, being FAIR and open data everywhere

Stephen Cawley, Head of Institutional Marketing, Digital Science

Figshare is part of the Digital Science Family

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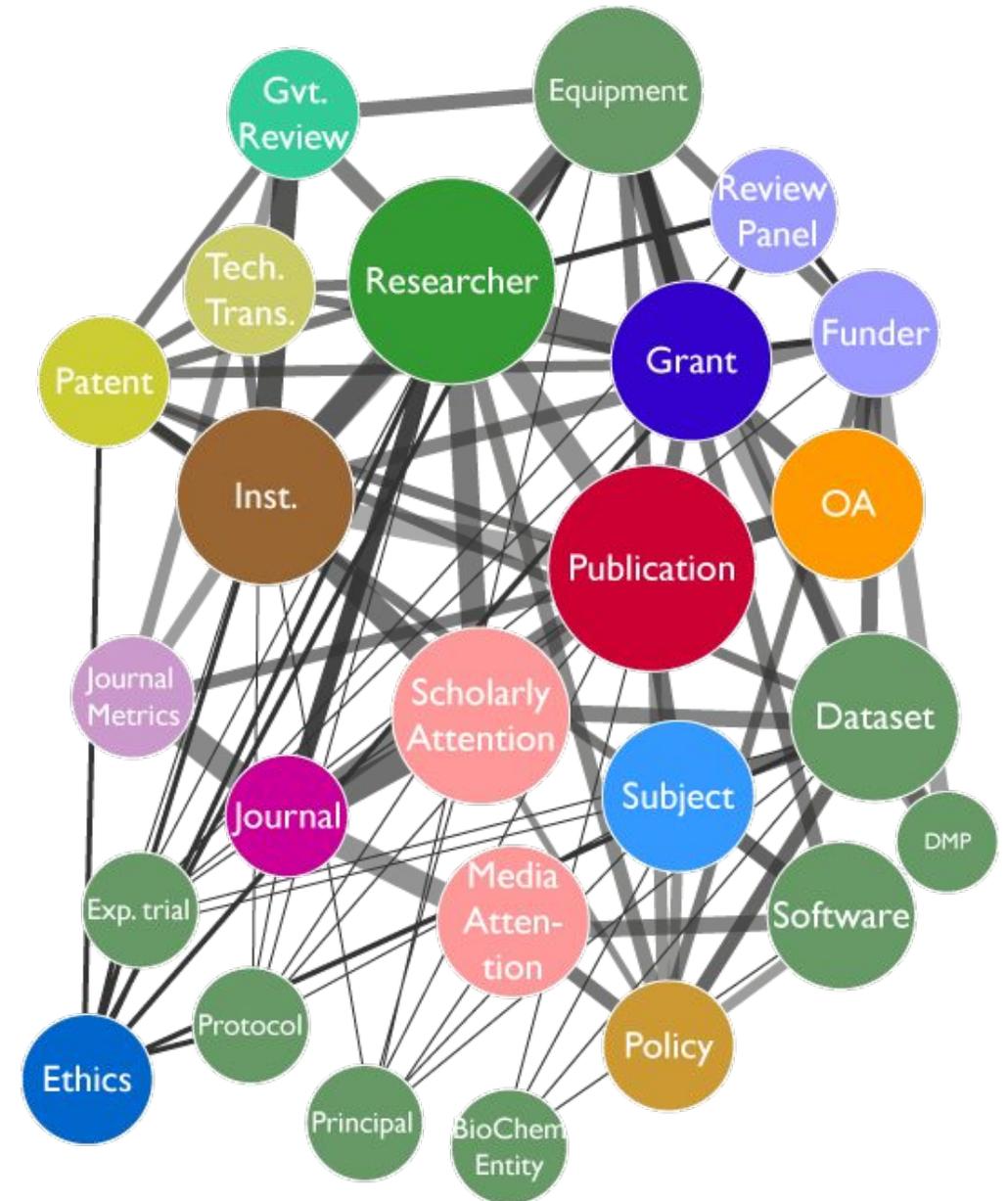
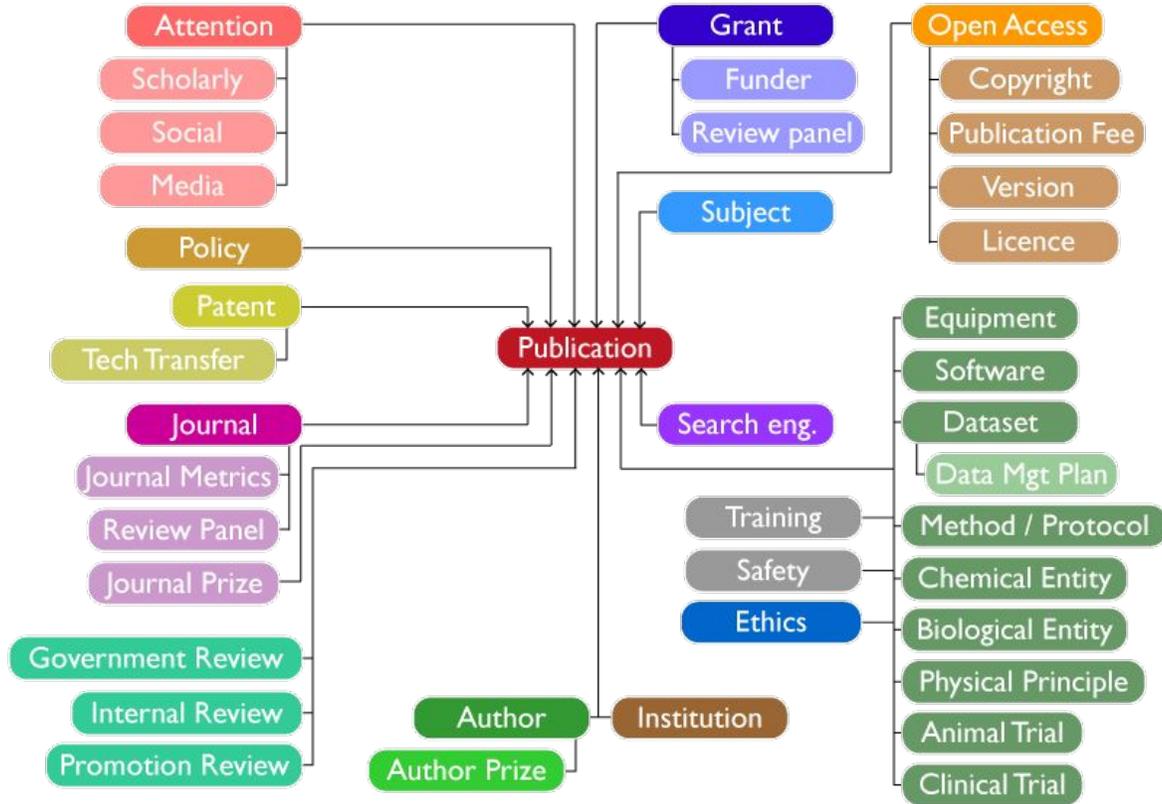
Freemium versions available for several of our software applications





Some strategic context

The expanding universe reflected in Digital Science product design



Importance of current and forward-looking data signals for OA compliance strategy

- 89 grants active between 2019 and 2023 with a total value of \$221.3m with an average value of \$4.3m
- **38 of these grants have been awarded by members of the Funder Group Coalition S**
- Will this signal of active research projects help enable an OA compliance workflow that can be embedded into the active research workflow?
- We can provide the named investigator, institution, fiscal value in many cases, and the technical summary of the research project, and any resulting publications, patents or associated clinical trials



The screenshot shows the SPARC website header with navigation links: "Who We Are", "What We Do", "Why It Matters", and "Become a Member". Social media icons for Facebook, Twitter, LinkedIn, and Email are also present. The main headline reads: "Coalition of European Funders Announces 'Plan S' to Require Full OA, Cap APCs, & Disallow Publication in Hybrid Journals". Below the headline, there is a "SHARE" section with icons for Facebook, Twitter, and Email. The text of the article states: "A group of 10 European research funders, supported by the European Commission and the European Research Council released plans to mandate a move to full, immediate Open Access for all of their funded research articles by January 1, 2020. Citing the detrimental effects of paywalls on the progress of science, a new document, 'Plan S,' calls for 'research publications that are generated through research grants to be made fully and immediately open, and not monetized in any way.'" It then lists principles for achieving this goal, including: "All articles funded by public grants must be published in OA journals or made available on OA platforms.", "Access must be immediate—no allowable embargo periods.", "Authors must retain their copyright, and articles must carry an open licenses (preferably CC BY).", "Where publication fees apply, they will be standardized and capped across Europe.", "Hybrid journals are NOT considered an allowable venue for publication.", and "Funders will monitor compliance and sanction non-compliance."



Search on the research activity of researchers affiliated with University of Luxembourg, Luxembourg Institute of Science and Technology; Luxembourg Institute of Socio-Economic Research, Luxembourg Institute of Health; and the Max Planck Institute Luxembourg for International, European and Regulatory Procedural Law

Figshare:

store, share, discover research

Discover research from figshare

FEATURED CATEGORIES

- Agricultural and Veterinary Sciences
- Astronomy, Astrophysics, Space Science
- Biological Sciences
- Built Environment and Design
- Chemistry
- Commerce, Management, Tourism and Services
- Earth and Environmental Sciences
- Engineering
- Health Sciences
- Humanities
- Information And Computing Sciences
- Language, Communication and Culture
- Mathematics
- Meta Science
- Physics
- Psychology
- Social Science
- Studies in Creative Arts and Writing
- Studies in Human Society
- Technology
- Uncategorised

NEW POPULAR CATEGORIES SEARCH

- CODE: sustainability-and-SVC-usage... Sarah Alhozaimy today
- METADATA RECORD: Preconception care for women with type 1 or type 2 diabetes mellit... Sarah Earle today
- COLLECTION: Collection: Core-First Synthesis of Three-Armed Star-Shaped Pol... Philipp Pahl today
- COLLECTION: Core-First Synthesis of Three-Armed Star-Shaped Polymers by Rare... Philipp Pahl today
- DATASET: Core-First Synthesis of Three-Armed Star-Shaped Polymers by Rare... Philipp Pahl today
- DATASET: Core-First Synthesis of Three-Armed Star-Shaped Polymers by Rare... Philipp Pahl today
- COLLECTION: Collection: Emission Factors for Selected Semivolatile Organic ... Xianyu Wang today
- COLLECTION: Collection: Preparation of Colloidal Organosilica Spheres through ... Casper van der Wel today

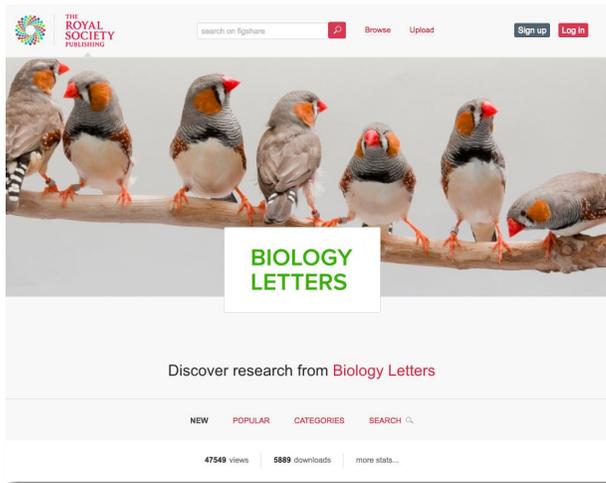
Who we are and what we do:

Figshare is an online platform where researchers can preserve and share their digital research content in any file format.

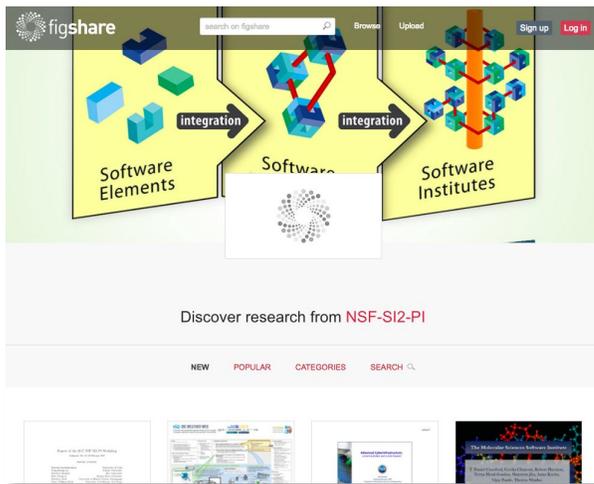
Some features of published content:

- Open licenses for reuse
- DOIs
- Versioning of outputs
- Data availability

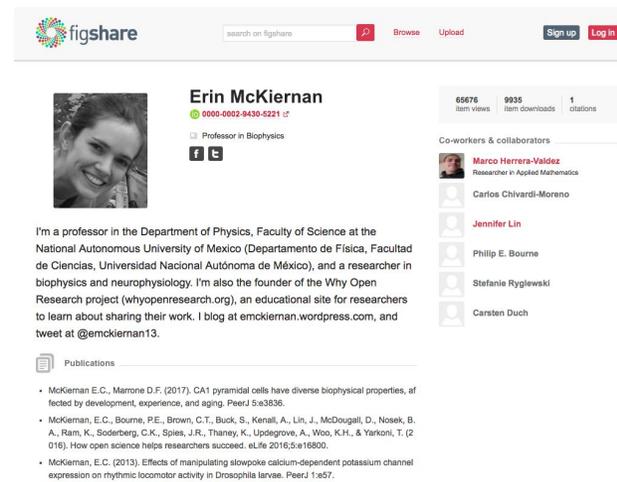
Communities we support and the services we provide



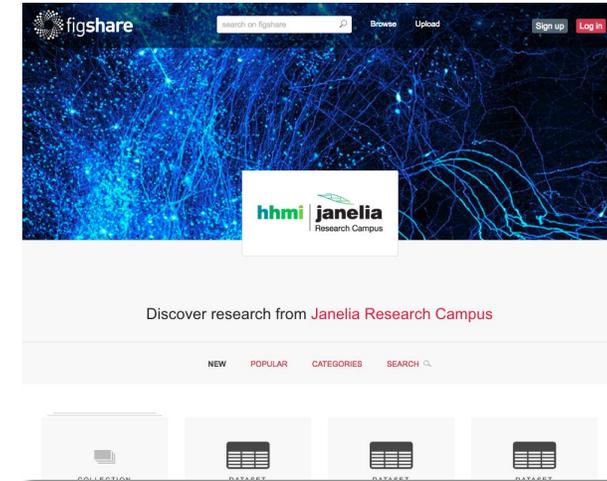
Academic publishers
(portal/viewer/preprints!)



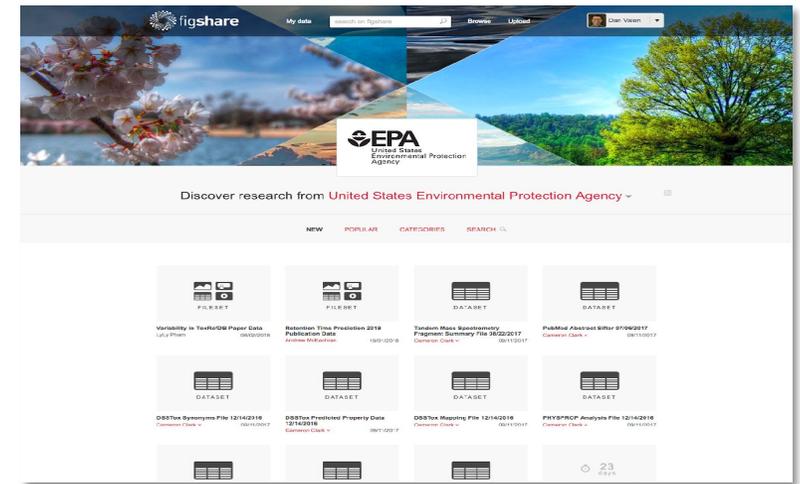
Conferences/proceedings



Individual researchers



Institutions
(research unis/labs)



Foundations and gov'ts
(funders)

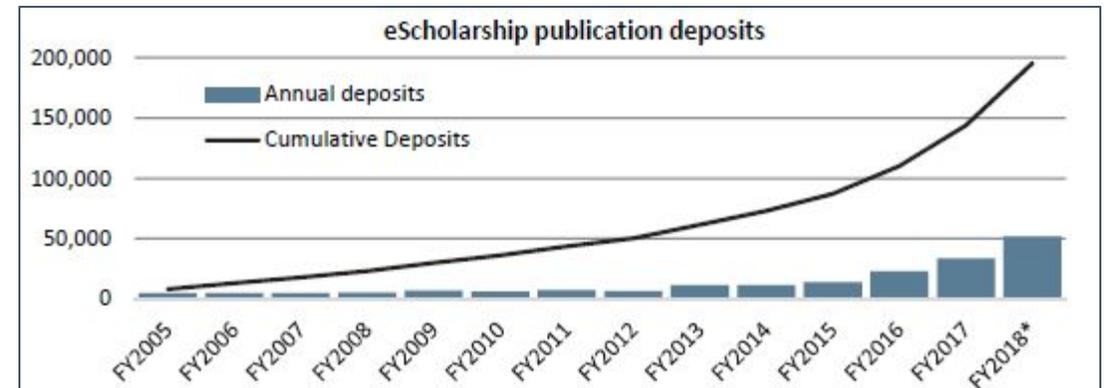
Digital Science is firmly committed to enabling Open Access to Publications and Data

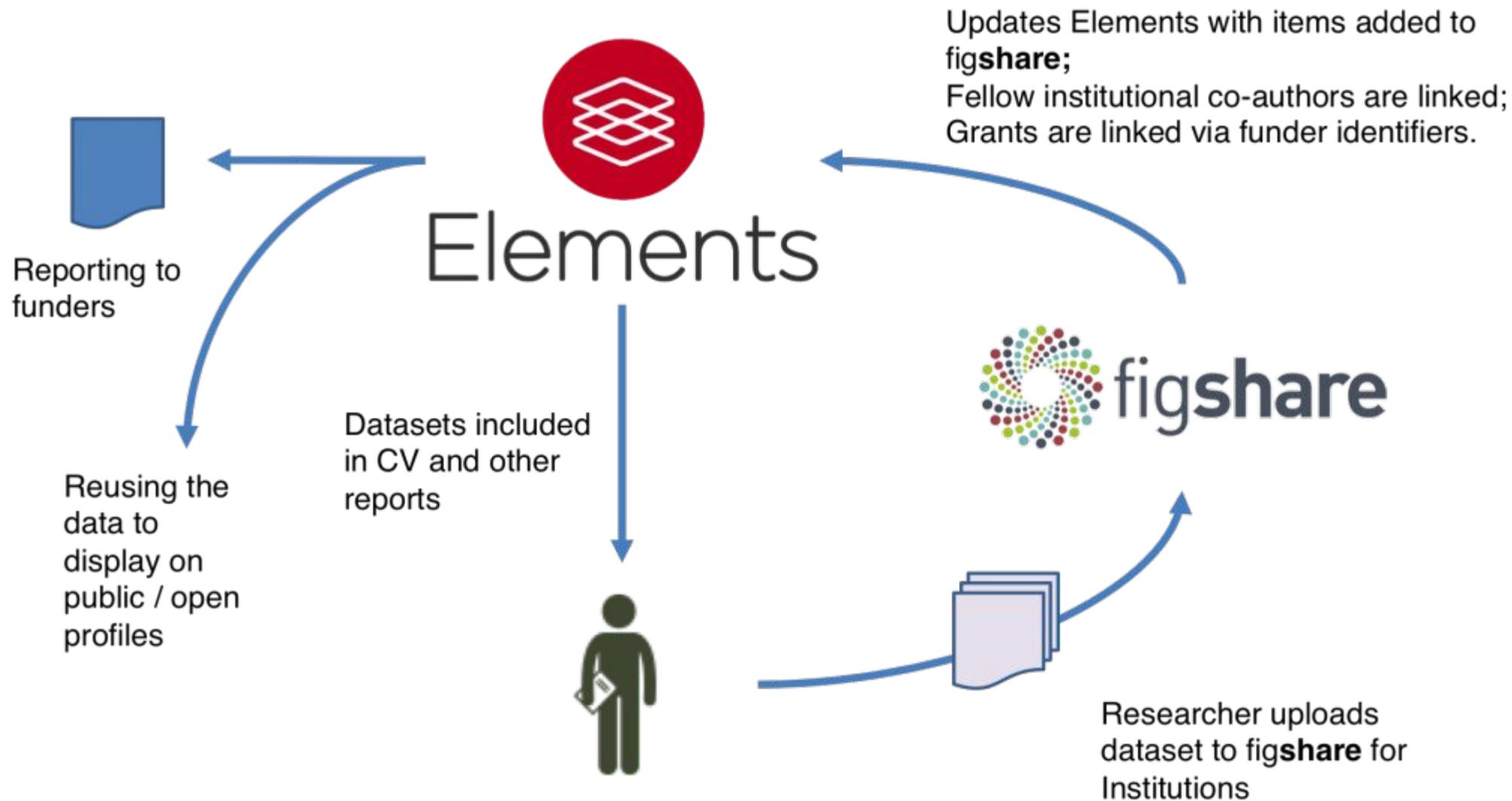
The screenshot shows the Dimensions OA Filter interface. On the left, there are various filters such as Publication Year, Researcher, Funder, and Country. The main area displays a list of publications with details like title, author, year, and citation count. For example, one entry is 'The spread of true and false news online' by Soroush Vosoughi, Deb Roy, and Sinan Aral, published in 2018, with 60 citations and an Altmetric score of 8,598. Another entry is 'United States Health Care Reform: Progress to Date and Next Steps' by Barack Obama, published in 2018, with 194 citations and an Altmetric score of 8,146. The interface also includes an 'ANALYTICAL VIEWS' section with a line graph showing RCR Mean (1.21) and FCR Mean (1.78) over time from 2009 to 2018.

Elements OA Monitor - Implemented in January 2015 on E-scholarship IR as a depositing interface >>

The screenshot shows the Elements OA Dashboard. It features a navigation menu with options like Home, Profile & CV, Elements, HERDC, Reporting, OA Monitor, and Explore. The main content area includes a search bar, filters for group and name, and a section for 'Filter by date' with dropdowns for acceptance and publication dates. The dashboard displays several charts and lists: a donut chart for 'Proportion of publications deposited' (28% Deposited), a bar chart for 'Highest Individual Deposits' (e.g., Serena Williams at 49%), a bar chart for 'Lowest Individual Deposits' (e.g., Bing Crosby at 0%), and a list for 'Best group depositors' (e.g., Department of Psychology at 46%).

Dimensions OA Filter - 19.4m OA publications discoverable in a free Discovery tool @ Dimensions.ai





Background on FAIR



FINDABLE

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](#)

[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](#)



ACCESSIBLE

Accessible

Once the user finds the required data, she/he needs to know how can they be accessed, possibly including authentication and authorisation.

[A1. \(Meta\)data are retrievable by their identifier using a standardised communications protocol](#)

[A1.1 The protocol is open, free, and universally implementable](#)

[A1.2 The protocol allows for an authentication and authorisation procedure, where necessary](#)

[A2. Metadata are accessible, even when the data are no longer available](#)



INTEROPERABLE

Interoperable

The data usually need to be integrated with other data. In addition, the data need to interoperate with applications or workflows for analysis, storage, and processing.

[I1. \(Meta\)data use a formal, accessible, shared, and broadly applicable language for knowledge representation.](#)

[I2. \(Meta\)data use vocabularies that follow FAIR principles](#)

[I3. \(Meta\)data include qualified references to other \(meta\)data](#)



REUSABLE

Reusable

The ultimate goal of FAIR is to optimise the reuse of data. To achieve this, metadata and data should be well-described so that they can be replicated and/or combined in different settings.

[R1. Meta\(data\) are richly described with a plurality of accurate and relevant attributes](#)

[R1.1. \(Meta\)data are released with a clear and accessible data usage license](#)

[R1.2. \(Meta\)data are associated with detailed provenance](#)

[R1.3. \(Meta\)data meet domain-relevant community standards](#)

2007: E-science and data-intensive discovery “The Fourth Paradigm”

 POINT OF VIEW

The Fourth Paradigm: Data-Intensive Scientific Discovery

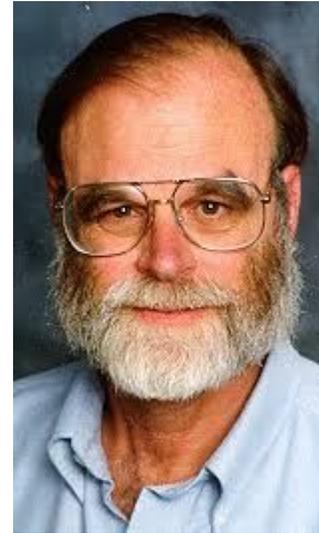
BY KRISTIN M. TOLLE
D. STEWART W. TANSLEY
ANTHONY J. G. HEY

External Research, Microsoft Research,
Redmond, VA 98052 USA



abstracts being deposited in the Medline database corresponds to approximately 1100 papers every day; over 400 000 per year.² As Faniel and Zimmerman point out, in many fields, scientists have numerous challenges gaining access to the original data to either check the claims of a scientific paper or to combine that data with other data for further analysis.³ Smit goes on to suggest that data and the publications should be “wedded.”⁴ We are now seeing governments and funding agencies looking at ways to increase the value and pace of scientific research through increased or open access to both data and publications. In this point of view article, we wish to look at another aspect of these twin revolutions, namely, how to enable developers, designers and researchers to build intuitive, multimodal, user-centric, scientific applications that can aid and enable scientific research—essentially a

The book *The Fourth Paradigm: Data Intensive Scientific Discovery*,¹ contains a series of essays by scientists and computer scientists looking forward five years or more to how different scientific fields are being transformed by the exponential increase in scientific



1. Empirical Observation and experimentation
2. Analytical or theoretical approaches
3. Computational science or simulation
4.a new method of pushing forward the frontiers of knowledge, enabled by new technologies for gathering, manipulating, analyzing and displaying data

2014 Force 11 task group formed

nature > scientific data > comment > article

a nature research journal

MENU

SCIENTIFIC DATA

Comment | OPEN | Published: 15 March 2016

The FAIR Guiding Principles for scientific data management and stewardship

Mark D. Wilkinson, Michel Dumontier [...] Barend Mons

Scientific Data 3, Article number: 160018 (2016) | Download Citation

Abstract

There is an urgent need to improve the infrastructure supporting the reuse of scholarly data. A diverse set of stakeholders—representing academia, industry, funding agencies, and scholarly publishers—have come together to design and jointly endorse a concise and measurable set of principles that we refer to as the FAIR Data Principles. The intent is that these may act as a guideline for those wishing to enhance the reusability of their data holdings. Distinct from peer initiatives that focus on the human scholar, the FAIR Principles put specific emphasis on enhancing the ability of machines to automatically find and use the

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465 Citations 1248 Altmetric Article metrics >>

Sections References

Abstract

Comment

Additional Information

References

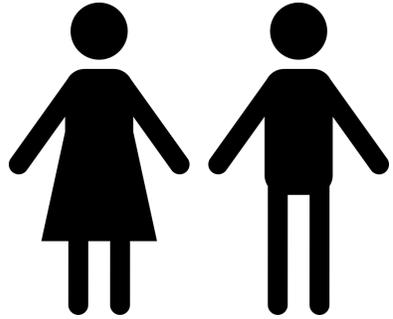
Acknowledgements

Author information

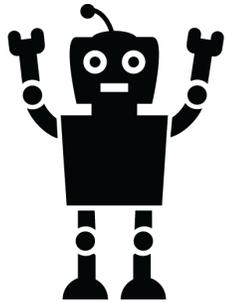
Rights and permissions

About this article

Horticulture Research

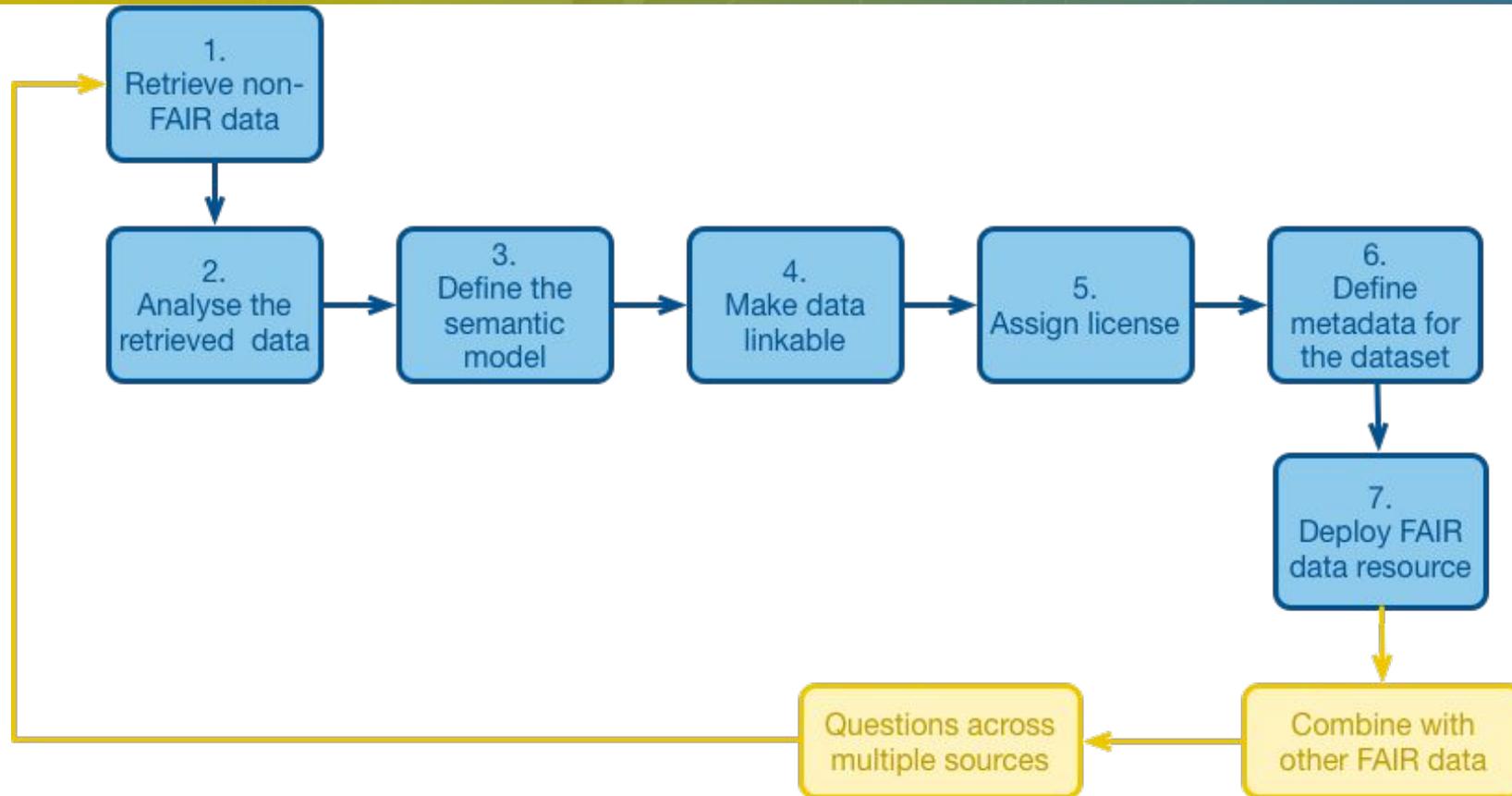


FAIR



FAIR

FAIRification Process



Figshare's beliefs align to FAIR principles

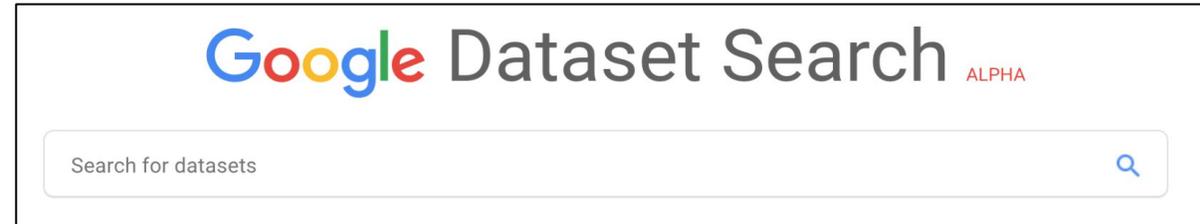
- Academic research outputs should be as open as possible, as closed as necessary
- Academic research outputs should never be behind a paywall
- Academic research outputs should be human and machine readable/query-able
- Academic infrastructure should be interchangeable
- Academic researchers should never have to put the same information into multiple systems at the same institution
- Identifiers for everything
- The impact of research is independent of where it is published and what type of output it is

Support for open standards and de facto standards

- Dublincore, Datacite, RDF, Cerif XML and Qualified Dublin Core
- All published data items indexed in Google Data Search
- All content marked up with Google Dataset search schema

Stats	▼	Metadata formats
Oai pmh	▲	
Oai-pmh		
Base url		
Item equals article		

Currently, the supported formats are: **Dublin Core** (*oai_dc*), **Datacite** (*oai_datacite*), **RDF** (*rdf*), **CERIF XML** (*cerif*), and **Qualified Dublin Core** (*qdc*) (hasPart support).



Google Dataset Search ALPHA

Search for datasets

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<?xml version="1.0" encoding="UTF-8" ?>
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<channel>
<title>PLOS Biology of Public Library of Science RSS Feed</title>
<link>https://plos.figshare.com/plosbiology</link>
<description>RSS feed for Figshare Group PLOS Biology from the Public Library of Science institution</description>
<item>
<title>Towards an integrated view of vocal development</title>
<link>https://figshare.com/collections/Towards_an_integrated_view_of_vocal_development/4039298</link>
<description>Vocal development is usually studied from the perspective of neuroscience. In this issue, Zhang et al. show that growth might condition the process. They study the vocalizations of marmoset infants with a wide range of techniques in experiments that mimic growth reversal. Their results suggest that the qualitative changes that occur during development between the nervous system and the biomechanics involved in respiration. This work illustrates how an integrated approach can be used to study the development of the vocal tract.
</description>
<category>Ecology, Developmental Biology, Science Policy, Mental Health, Environmental Sciences not elsewhere classified</category>
<pubDate>2018-03-22 17:27:36</pubDate>
</item>
<item>
<title>The schematics of a bifurcation diagram and its use in experimental design.</title>
<link>https://figshare.com/articles/The_schematics_of_a_bifurcation_diagram_and_its_use_in_experimental_design/4039298</link>
<description>A computational model for slow motor gestures predicts the existence of three regions of parameter space. In the first region, qualitatively different solutions (different behaviors) are expected. One of the parameters is related to the growth of the system. In the second region, different solutions can be found at early stages of development (light grey arrow), and only one solution is stable. Placing marmoset infants in a heliox atmosphere, Zhang and Ghazanfar mimic the reversal of a parameter that controls the behaviors (green arrow).</description>
<category>Ecology, Developmental Biology, Science Policy, Mental Health, Environmental Sciences not elsewhere classified</category>
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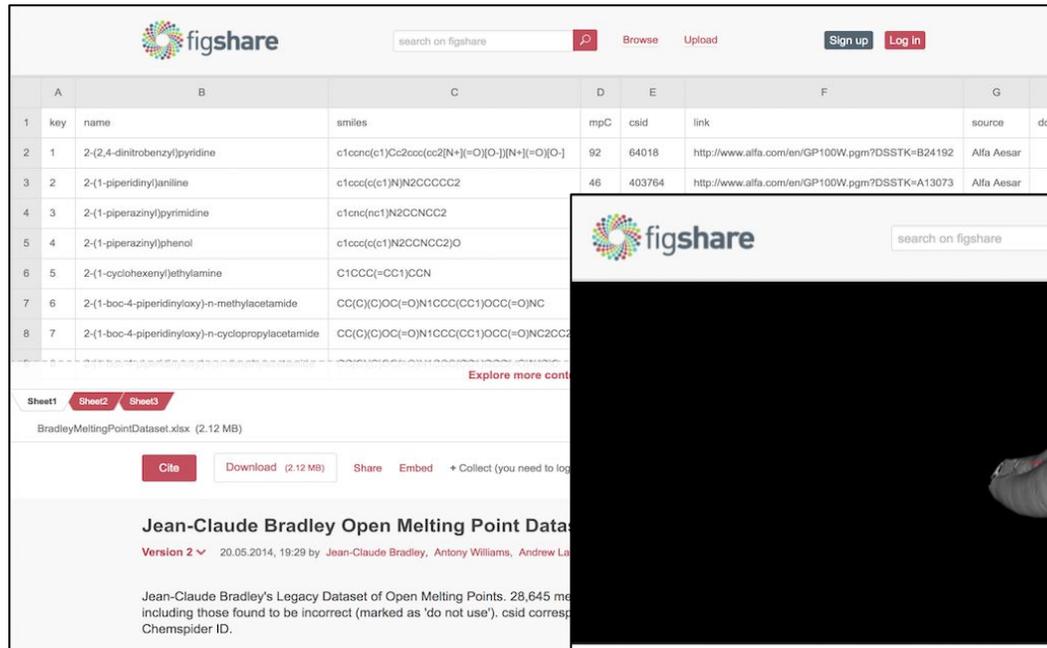
A background network diagram with nodes and connecting lines, transitioning from green on the left to blue on the right. The nodes are represented by small circles, and the lines are thin and light-colored.

Incentives for researchers



- **Author:** Auke Herrema – Het Bouwteam

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1	key	name	smiles	mpC	csid	link	source	don
2	1	2-(2,4-dinitrobenzyl)pyridine	<chem>c1ccnc(c1)Cc2ccc(cc2[N+](=O)[O-])[N+](=O)[O-]</chem>	92	64018	http://www.alfa.com/en/GP100W.pgm?DSSTK=B24192	Alfa Aesar	
3	2	2-(1-piperidinyl)aniline	<chem>c1ccc(cc1)N1N2CCCCC2</chem>	46	403764	http://www.alfa.com/en/GP100W.pgm?DSSTK=A13073	Alfa Aesar	
4	3	2-(1-piperazinyl)pyrimidine	<chem>c1cnc(nct1)N2CCNCC2</chem>					
5	4	2-(1-piperazinyl)phenol	<chem>c1ccc(cc1)N2CCNCC2O</chem>					
6	5	2-(1-cyclohexenyl)ethylamine	<chem>C1CCC(=CC1)CCN</chem>					
7	6	2-(1-boc-4-piperidinyloxy)-n-methylacetamide	<chem>CC(C)(C)OC(=O)N1CCC(CC1)OCC(=O)NC</chem>					
8	7	2-(1-boc-4-piperidinyloxy)-n-cyclopropylacetamide	<chem>CC(C)(C)OC(=O)N1CCC(CC1)OCC(=O)NC2CC2</chem>					

Explore more content

Sheet1 Sheet2 Sheet3

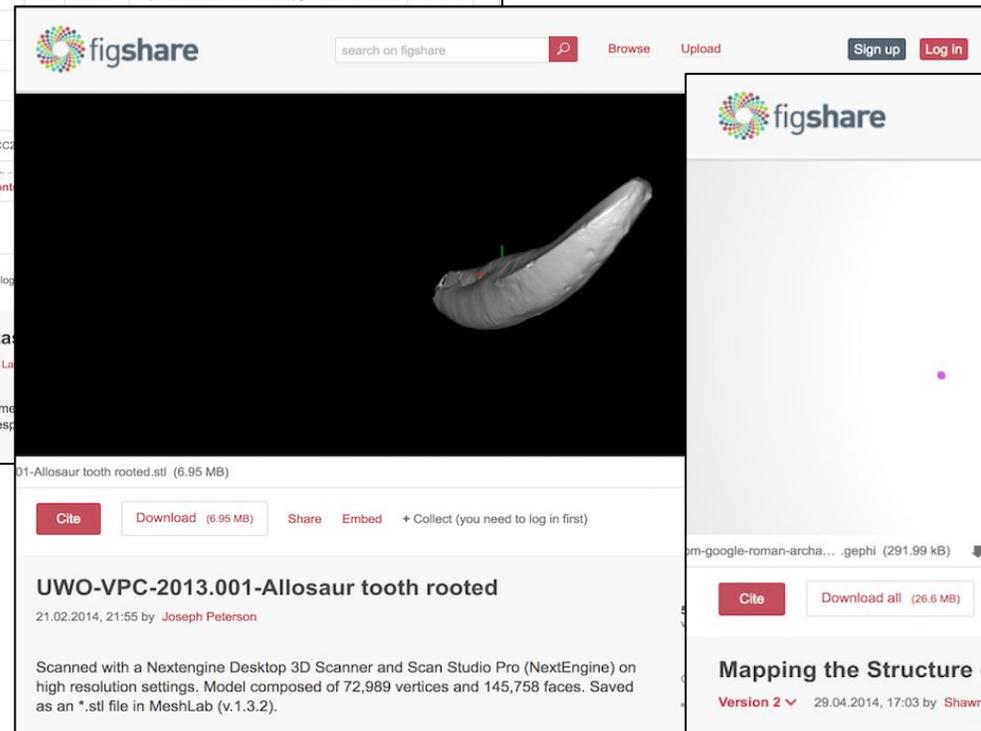
BradleyMeltingPointDataset.xlsx (2.12 MB)

Cite Download (2.12 MB) Share Embed + Collect (you need to log in)

Jean-Claude Bradley Open Melting Point Data

Version 2 20.05.2014, 19:29 by Jean-Claude Bradley, Antony Williams, Andrew La...

Jean-Claude Bradley's Legacy Dataset of Open Melting Points. 28,645 me... including those found to be incorrect (marked as 'do not use'). csid corresp... Chemspider ID.



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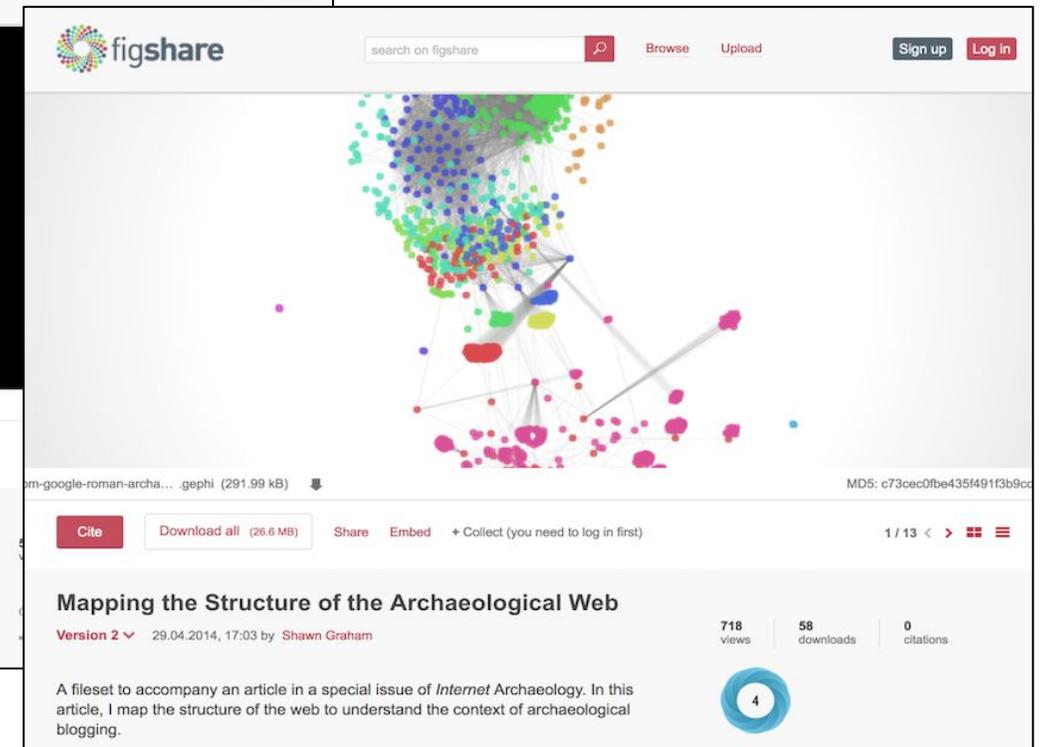
01-Allosaur tooth rooted.stl (6.95 MB)

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UWO-VPC-2013.001-Allosaur tooth rooted

21.02.2014, 21:55 by Joseph Peterson

Scanned with a Nextengine Desktop 3D Scanner and Scan Studio Pro (NextEngine) on high resolution settings. Model composed of 72,989 vertices and 145,758 faces. Saved as an *.stl file in MeshLab (v.1.3.2).



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Mapping the Structure of the Archaeological Web

Version 2 29.04.2014, 17:03 by Shawn Graham

718 views 58 downloads 0 citations

A filesset to accompany an article in a special issue of *Internet Archaeology*. In this article, I map the structure of the web to understand the context of archaeological blogging.

4

Journal policies around preprints (to accelerate scholarly communication) and publishing data (to support article claims)

(xi) **Materials and Data Availability.** To allow others to replicate and build on work published in PNAS, authors must make materials, data, and associated protocols, including code and scripts, available to readers. Authors must disclose upon submission of the manuscript any restrictions on the availability of materials or information. Authors must include a data availability statement in the methods section describing how readers will be able to access the data, associated protocols, code, and materials in the paper. Authors are encouraged to include a DOI or URL for their laboratory protocols in the methods section of their article. Data not shown and personal communications cannot be used to support claims in the work. Authors are encouraged to use supporting information (SI) to show all necessary data or to deposit as much of their data as possible in community-endorsed publicly accessible databases, and when possible follow the guidelines

of the [Joint Declaration of Data Citation Principles](#). Research cited in the references if they have a digital object identifier ([References](#) for citation information.) Such deposition may be required during the review process and postpublication. In rare cases where specific repositories are not available, authors may use other rare specimens must be deposited in a museum made available to qualified researchers for examination. For more information about accessibility of data and materials, see the following [Related Data and Materials: Responsibilities of Authors](#) (2003); and [Ensuring the Integrity, Accessibility, and Stewardship of Data in a Digital Age](#) (2009).

Journal Policies

(i) Articles are considered provided they have not been **Published Previously** or concurrently submitted for publication elsewhere. What constitutes prior publication must take into account many criteria, including the extent of review, and will be determined on a case-by-case basis. Related manuscripts that are in press or submitted elsewhere must be included with a PNAS submission.

Figures, tables, or videos that have been published elsewhere must be identified, and permission of the copyright holder for both the online and print editions of the journal must be provided (see www.pnas.org/site/misc/permissions_letter.pdf).

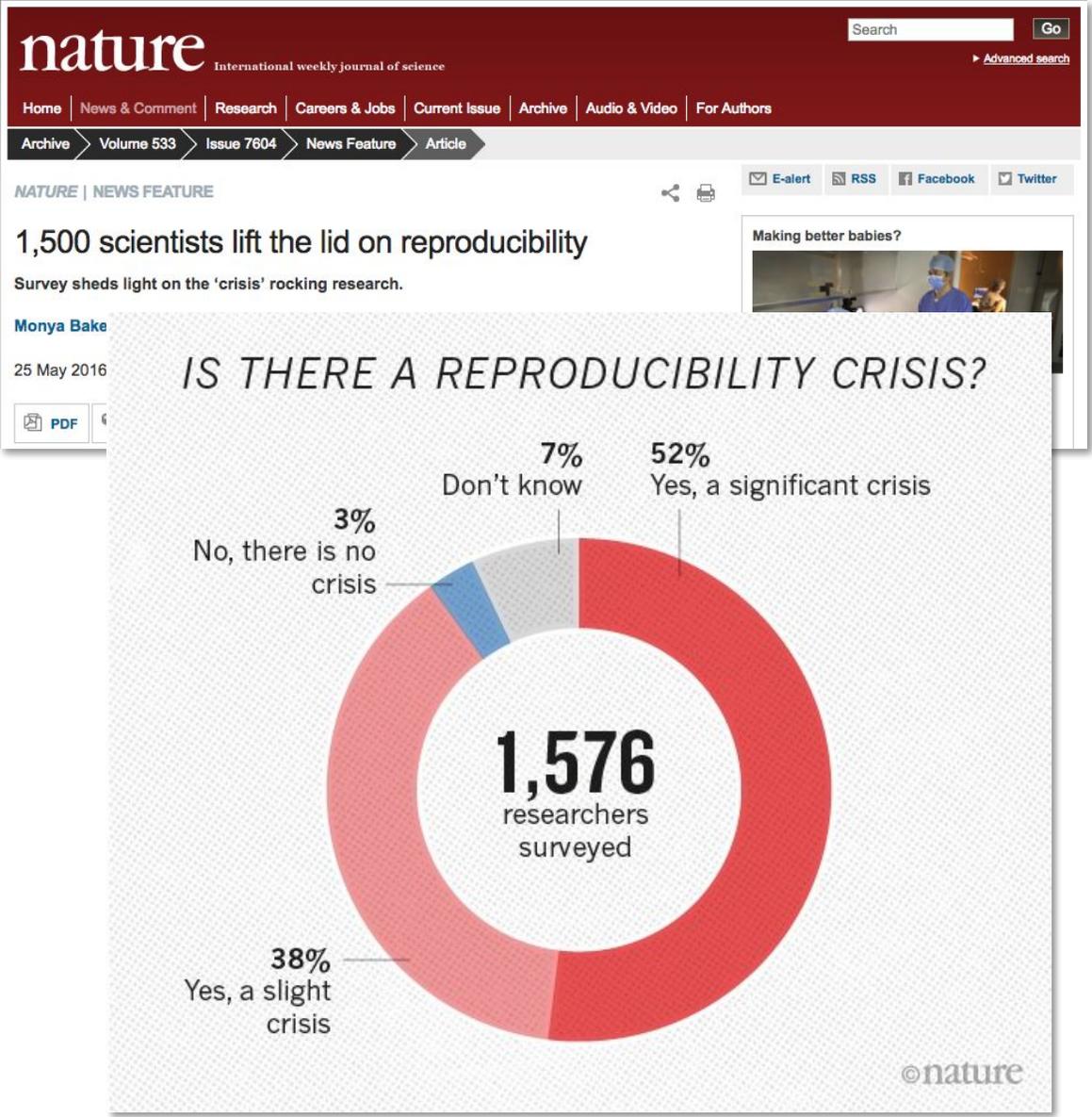
(ii) Posting to **Preprint Servers**, such as arXiv or bioRxiv, is permitted. See the [PNAS statement](#) on prior publication for details, and see section [vii](#) for media embargo policies.

A growing number of journal publishers allow not only the posting of preprints to relevant preprint servers, but also recommend making supporting data and materials available. For example, PNAS states:

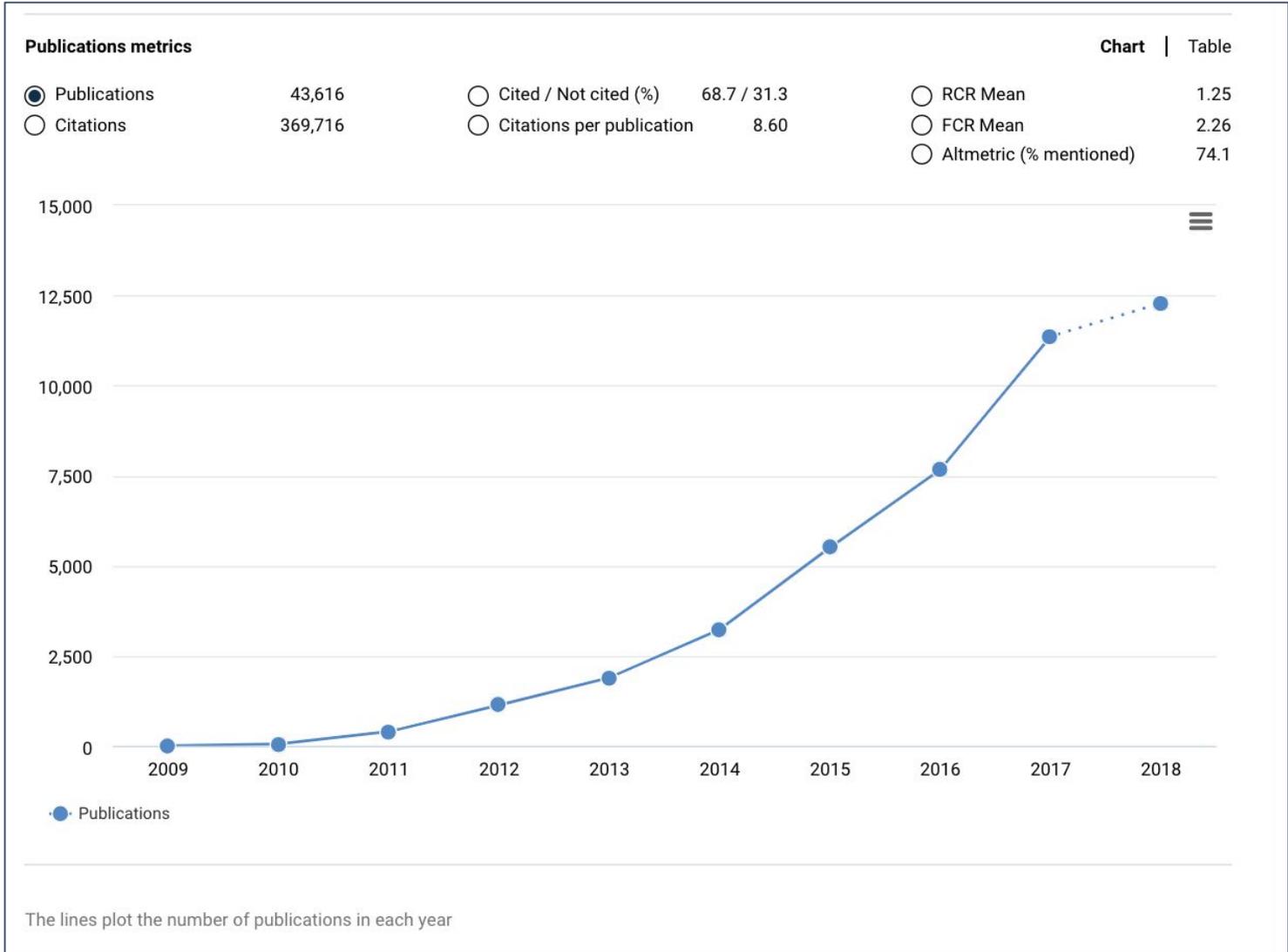
To allow others to replicate and build on work published in PNAS, authors must make materials, data, and associated protocols, including code and scripts, available to readers.

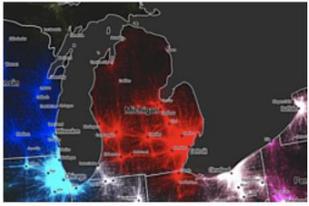
Reproducibility, Replication, and Reuse

Selective reporting is a key culprit in the reproducibility crisis. Publishing all of your results so that researchers can build off of your discoveries and research promotes collaboration, efficiency, and reuse



Data citations on the rise providing a new form of credit for researchers





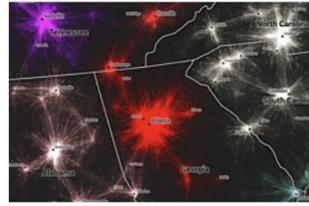
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map_2.png (8.5 MB)



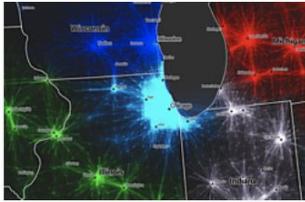
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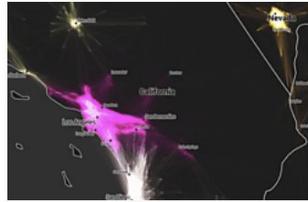
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map_8.png (9.26 MB)



map_9.png (12.94 MB)



map_10.png (4.5 MB)



map_11.png (6.77 MB)

Cite

Download all (868.76 MB)

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United States Commutes and Megaregions data for GIS

Version 5 ▾ Fileset posted on 31.01.2017, 10:01 by Alasdair Rae, Garrett G.D. Nelson

This Figshare dataset contains the files created by and used in a related PLOS ONE paper, entitled 'An economic geography of the United States: from commutes to megaregions', by Garrett Dash Nelson and Alasdair Rae, published 30 November 2016.

Update: 27 January 2017 - see item 7. below

In addition to the files listed below, we have also provided a series of maps here, as high resolution PNGs. The fifth file below can be styled in QGIS using the QML style file provided in number 6.

50068 views

8984 downloads

0 citations

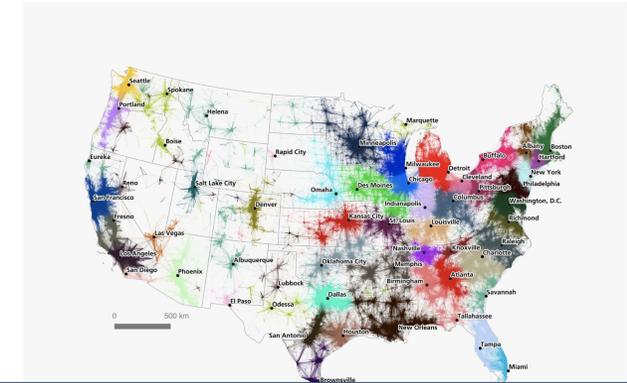


The University Of Sheffield.

CATEGORIES

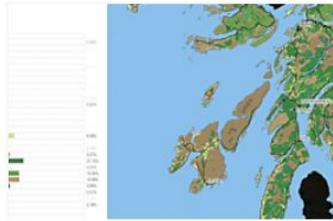
- Urban and Regional Economics
- Urban and Regional Planning not elsewhere classified
- Urban and Regional Studies (excl. Planning)

MESMERIZING COMMUTE MAPS REVEAL WE ALL LIVE IN MEGA-REGIONS, NOT CITIES





Ards and North D... .png (1.26 MB)



Argyll and Bute_C... .png (3.1 MB)



Craigavon .png (1.73 MB)



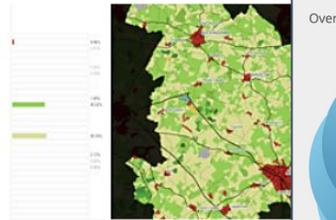
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Ashfield_Corine_... .png (2.15 MB)



Ashford_Corine_2... .png (2.56 MB)



Aylesbury Vale_C... .png (3.29 MB)

Altmetric

A Land Cover Atlas of the United Kingdom (Maps)

Overview of attention for research output published on figshare, November 2017

119

So far, Altmetric has seen 3 news stories from 2 outlets.

BBC NEWS **So you think you know what the UK looks like?**
BBC News, 09 Nov 2017
For the past few decades, satellites have been taking high definition pictures of the United Kingdom from space.

BBC NEWS **How much of your area is built on?**
BBC News, 09 Nov 2017
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A Land Cover Atlas of the United Kingdom (Maps)

Files posted on 03.11.2017, 16:42 by Alasdair Rae

This set of maps accompanies my related publication, entitled 'A Land Cover Atlas of the United Kingdom', <https://doi.org/10.15131/shef.data.5266495>, which was published at the same time.

Some of the maps in this set feature in the Atlas, but at a lower resolution. I have deposited them here as high resolution images (300dpi PNG files) so that interested users can access and download them.

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Online Labour Index: Measuring the Online Gig Economy for Policy and Research

Version 928 Fileset posted on 13.11.2018, 23:45 by otto kassi, Martin Hadley, Villi Lehdonvirta

Data repository for the data underlying the Online Labour Index. See <http://ilabour.oii.ox.ac.uk online-labour-index/> for details.

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iLabour Project @iLabourProject

University of Oxford research project on the online gig economy and the future of work. By @VilliLe @gf_corporaal @ottokassi @tom_swing

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Where are online workers located? New maps on the international division of digital gig work: ilabour.oii.ox.ac.uk/where-are-onli... #freelance #gigeconomy

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Development and application of a highly α 2,6-selective pseudosialidase

31.08.2017, 17:45 by [Peter Both](#), [Michel Riese](#), [Christopher J. Gray](#), [Kun Huang](#), [Edward G. Pallister](#), [Iaroslav Kosov](#), [Louis P. Conway](#), [Josef Voglmeir](#), [Sabine L. Flitsch](#)

In this manuscript we address an important gap in our current carbohydrate active enzyme toolbox, by developing a highly α 2,6-selective (over α 2,3-selective) de facto sialidase that is necessary both for glycan analysis and glycoconjugate remodeling. Both glycosidic linkages are commonly found in animal biology and each has been shown to have distinct biological function.

Our approach is novel in that it harnesses the high selectivity of known glycosyltransferases 'in reverse' for effective hydrolysis, converting transferases to hydrolases by reaction engineering

FUNDING

- Axions as the Origin of the Baryon Asymmetry**
European Commission
796961
- Impact of deep subglacial groundwater on ice stream flow in West Antarctica (IGIS)**
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peter.both@manchester.ac.uk

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FAIR and other relevant reviews

4TU.Centre for Research Data

Dataset | Evaluation of data repositories based on the FAIR Principles for IDCC 2017 practice paper

Link as <https://doi.org/10.4121/uuid:5146dd06-98e4-426c-9ae5-dc8fa65c549f> | How to cite this dataset

Go to DATA section

title Evaluation of data repositories based on the FAIR Principles for IDCC 2017 practice paper

creator [Groot Dunning, A.C. \(Alastair\)](#)

creator [Groot de Smaele, M.M.F. \(Madeleine\)](#)

creator [Groot Böhmer, J.K. \(Jasmin\)](#)

contributor 4TU.Centre for Research Data

contributor TU Delft Library

date accepted 2017-02-02

date created 2016-11-01 through 2017-01-30

date published 2017

description Corresponding data-set to IDCC 2017 Practice Paper 'Are the FAIR-Principles frequency and proportion statistics, and graphs of 37 data repositories in the Netherlands: the principles and facets of the FAIR principles; re3data.org is the source for the data'

language en

publisher TU Delft

subject Data Management > Evaluation > FAIR Data Principles > Horizon 2020

in collection [General collection of datasets](#)

time coverage [days 2016-11-01 to 2016-12-27](#)

related publication [Are the FAIR Data Principles fair? \(article, 2017\)](#)

related publication [Are the FAIR Data Principles fair? \(Preprint IDCC17_2017\)](#)

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[readme.pdf - dataset documentation](#) (application/pdf)

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A Comparative Review of Various Data Repositories

BLOG POSTS BY MONTH

July 2018 (1)

July 25, 2017

Any fish can tell you: It's important to know the waters you're swimming in. Researcher Derek Murphy and Product Research Specialist Juli... spreadsheet that compares Dataverse's features, usage, and g... online data repositories. In this way, we sought to discover tren... inform future development of Dataverse. Now we would like to... community.

Our comparative review covers eight repositories selected for t... chose to look at repositories rather than platforms, to help us e... perspective. We compared these eight repositories along three... into subcategories. Under **Software Features**, we listed feature... repositories. We hoped to discover areas where Dataverse wa... it's excellent. Under **Governance/Organization** we looked at the... the repositories, to see what kinds of practices are common. U... on usage of the repositories and the materials contained withi...

The spreadsheet has already helped us prioritize development... [#1393](#) on our GitHub repo had been dormant for a year before...

Attachment Size

 Best Practices for Choosing a Repository	591.22 KB
--	-----------

If you or your publisher prefer to deposit with a non-SI repository, there are four general-purpose repositories that support FAIR principles. Their features are compared below. Following the grid is a glossary that clarifies the terms we've used as comparison criteria.

General Purpose Data Repositories Compared

Repository	Dryad	Figshare	Open Science Framework (OSF)	Zenodo
More information	More @ Re3	More @ Re3	More @ Re3	More @ Re3
Caveats	Dryad's CC-0 license is at odds with SI's general Terms of Use, which is closer in spirit to CC-BY-NC.	Figshare has a 5GB per file size limit.	OSF is best suited for active projects.	Zenodo is based in Europe, and European laws may apply to data deposited. There is a 50GB per dataset limit.
Fees (2018)	\$120 per deposit (SI is not a member, and cannot get a discount.)	free, premium service for a fee	free	free
Formats accepted	office documents, scientific & statistical data, plain text, structured text, software, source code, other	office documents, images, structured graphics, audiovisual data, raw data, plain text, archived data	any (no restrictions on file types)	any (no restrictions on file types)
Persistent identifiers	will assign a DOI	supports ORCID, will assign DOI at time of publication	supports ORCID, will assign ARK and DOI	supports ORCID, will assign DOI or use provided DOI

- See how Figshare stacks up:
- <https://data.4tu.nl/repository/uuid:5146dd06-98e4-426c-9ae5-dc8fa65c549f>
- <https://doi.org/10.7910/DVN/WS9OUR>
- <https://library.si.edu/research/data-repositories>

A Data Citation Roadmap for Scholarly Data Repositories

Level	#	Guideline
Required	1	All datasets intended for citation <i>must</i> have a globally unique persistent identifier that can be expressed as unambiguous URL.
	2	Persistent identifiers for datasets <i>must</i> support multiple levels of granularity, where appropriate.
	3	This persistent identifier expressed as URL <i>must</i> resolve to a landing page specific for that dataset.
	4	The persistent identifier <i>must</i> be embedded in the landing page in machine-readable format.
	5	The repository must provide documentation and support for data citation.
Recommended	6	The landing page <i>should</i> include metadata required for citation, and ideally also metadata helping with discovery, in human-readable and machine-readable format.
	7	The machine-readable metadata <i>should</i> use schema.org markup in JSON-LD format.
	8	Metadata <i>should</i> be made available via HTML meta tags to facilitate use by reference managers.
	9	Metadata <i>should</i> be made available for download in Bibtex and/or another standard bibliographic format.

A Data Citation Roadmap for Scholarly Data Repositories

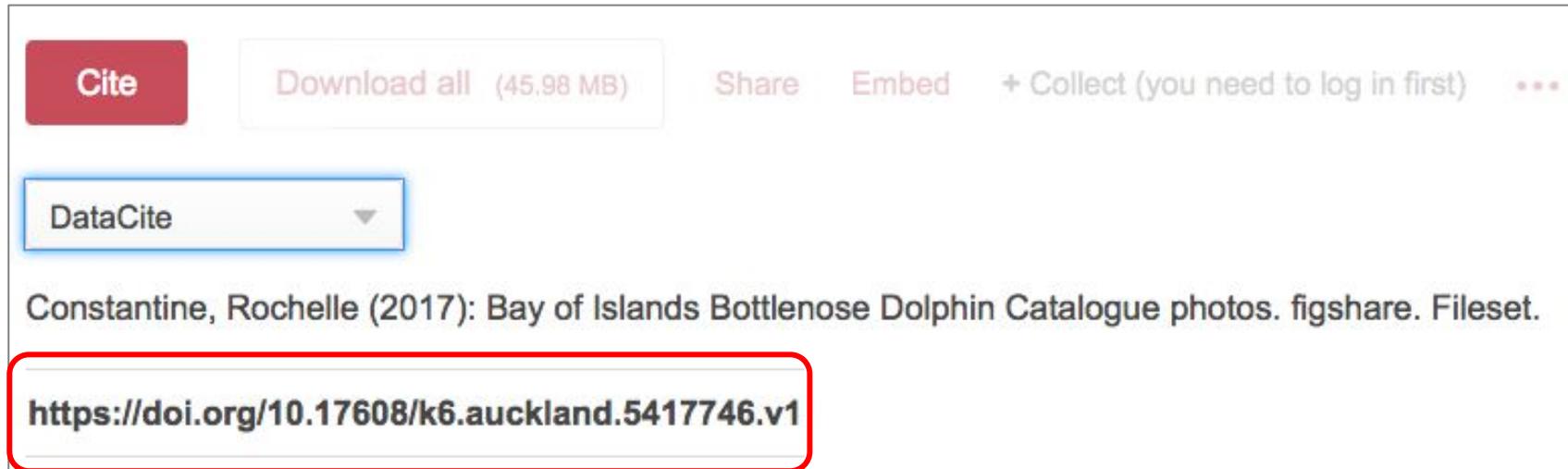
Martin Fenner, Mercè Crosas, Jeffrey Grethe, David Kennedy, Henning Hermjakob, Philippe Rocca-Serra, Gustavo Durand, Robin Berjon, Sebastian Karcher, Maryann Martone, Timothy Clark

bioRxiv 097196; doi: <https://doi.org/10.1101/097196>

A background network diagram with nodes and connecting lines, transitioning from green on the left to blue on the right.

FAIR roadtest

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



The screenshot shows a user interface for citing data. At the top, there is a red button labeled "Cite". To its right is a button labeled "Download all (45.98 MB)". Further right are links for "Share", "Embed", and "+ Collect (you need to log in first)". Below these is a dropdown menu currently set to "DataCite". Underneath the dropdown is the citation text: "Constantine, Rochelle (2017): Bay of Islands Bottlenose Dolphin Catalogue photos. figshare. Fileset." At the bottom, a text box contains the DOI link "https://doi.org/10.17608/k6.auckland.5417746.v1", which is highlighted with a red border.

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F4 metadata specify the data identifier



Transforming the Monash University
Research Ecosystem

Monash University
Andrew Harrison (Aggregated by) Beth Pearson (Aggregated by) David
Groenewegen (Aggregated by) David Groenewegen (Aggregated by) Neil Dickson
(Aggregated by)

<http://doi.org/10.4225/03/5975999c33419>

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Pearson, Beth; Groenewegen, David; Dickson, Neil; Harrison, Andrew; Splawa-Neyman, (2017): Transforming the Monash University Research Ecosystem. figshare. Figure.

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Transforming the Monash University Research Ecosystem

Figure posted on 24.07.2017, 16:54 by Beth Pearson, David Groenewegen, Neil Dickson, Andrew Harrison, Patrick Splawa-Neyman

A1 (meta)data are retrievable using a standardized communications protocol

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A1.1 the protocol is open, free, and universally implementable

A1.2 the protocol allows for an authentication and authorization procedure



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A2 metadata are accessible, even when the data are no longer available



I2 (meta)data use vocabularies that follow FAIR principles

010101 Algebra and Number Theory

010102 Algebraic and Differential Geometry

010103 Category Theory, K Theory, Homological Algebra

010104 Combinatorics and Discrete Mathematics (excl. Physical Combinatorics)

010105 Group Theory and Generalisations

010106 Lie Groups, Harmonic and Fourier Analysis

010107 Mathematical Logic, Set Theory, Lattices and Universal Algebra

010108 Operator Algebras and Functional Analysis

010109 Ordinary Differential Equations, Difference Equations and Dynamical Systems

010110 Partial Differential Equations

010111 Real and Complex Functions (incl. Several Variables)

010112 Topology

010199 Pure Mathematics not elsewhere classified

I3 (meta)data include qualified references to other (meta)data



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Paper and materials presented by Laura Armstrong, Libraries and Learning Services, and Yvette Wharton, Centre for eResearch, University of Auckland.

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REFERENCES

- <https://conference.eresearch.edu.au/2017/08/design-thinking-developing-a-researcher-centric-dmp/>

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University of Auckland

AUTHORS

[Laura Armstrong](#)
[Yvette Wharton](#)

CATEGORIES

- [Data Communications](#)

KEYWORD(S)

- [eResearch Australasia 2017](#) [DMP](#)
- [maDMP](#) [Design thinking](#)
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UoA RDM workshop DMP exercise sheet
Yvette Wharton 30/10/2017



UoA Data Management Plan Template
Yvette Wharton 09/10/2017



Design thinking: developing a researcher-centric DMP
Laura Armstrong and Yvette Wharton
Library and Learning Services and Centre for eResearch, University of Auckland
eresearch@uak.ac.nz



RESEARCH DATA MANAGEMENT
The Research Data Lifecycle
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R1 meta(data) have a plurality of accurate and relevant attributes

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Bay of Islands Bottlenose Dolphin Catalogue photos

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This catalogue is a collection of uniquely identified bottlenose dolphin dorsal fin photos from the Bay of Islands, New Zealand 1993-2013. Where possible there is a right and left side image of each dorsal fin.

The photograph codes are as follows:
BOI = Bay of Islands
XXX = unique number for each dolphin
RS/LS = right side/ left side

All work was conducted by researchers at the University of Auckland and the catalogue is curated by Dr Rochelle Constantine, University of Auckland (r.constantine@auckland.ac.nz). Please contact Rochelle if you have any queries.

REFERENCES

- <https://mmeg.wordpress.fos.auckland.ac.nz>

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University of Auckland

CONTACT EMAIL
r.constantine@auckland.ac.nz

SPATIAL COVERAGE (E.G. KERMADEC ISLAND)
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REFERENCES

- <https://mmeg.wordpress.fos.auckland.ac.nz>

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r.constantine@auckland.ac.nz

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Bay of Islands, New Zealand

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1993/12/01 - 2013/01/01

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CATEGORIES

- Zoology
- Marine Biology

KEYWORD(S)

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Bay of Islands catalogue
University of Auckland New Zealand

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<https://doi.org/10.6084/m9.figshare.3405685.v3>

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ana Wibowo, Andika Caesar Fahmi

Version 3 03.06.2016, 08:27

Version 2 30.05.2016, 16:36

Version 1 27.05.2016, 13:01

latest update. It is included in the analysis
for our paper on *Journal* (submitted 27/05/2016).

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Dasapta Erwin Irawan

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Lecturer (Hydrogeology)
Indonesia

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Co-workers & collaborators

-  **Aditya Pratama**
Junior Geologist
Institut Teknologi Bandung
-  **Endah Sulistyawati**
-  **Cut Novianti Rachmi**
-  **Dimas Maulana Wibowo**
-  **Deny Juanda Puradimaja**

My current focus is how to provide the hydrostratigraphy of volcanic aquifers in Bandung area. The research is based on environmental isotope measurement in groundwater and morphometry. My work consists of hydrochemical measurements. I am using multivariate statistical methods to provides more quantitative foundation for the analysis and more insight into the groundwater behaviour. Research interest: Hydrochemistry, multivariate analysis, and R programming | blog at: <http://derwinirawan.wordpress.com>

Dasapta Erwin Irawan's public data

 <p>PROJECT</p> <p>Project: Project visual brain Dasapta Erwin Irawan 01/09/2018</p>	 <p>FIGURE</p> <p>How to extend the lifetime of your data Dasapta Erwin Irawan 01/09/2018</p>	 <p>FIGURE</p> <p>Where do similarity check apps get their data? Dasapta Erwin Irawan 01/09/2018</p>	 <p>Telaah singkat Permenristekdikti No. 20 Tahun 2018 tentang Penelitian Dasapta Erwin Irawan 27/07/2018</p>
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- Max Maxeltowner (123)
- J. H. J. Dzubiella (121)
- Vahid Etminan Farooji (76)
- George Adam (56)
- P. D. Smith (32)

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Code

Tuning the Collapse Transition of Weakly Charged Polymers by Ion-Specific Screening and Adsorption of elements
Preprint submitted on 10.08.2018, 14:53 and posted on 10.08.2018, 17:46 by [Richard Chudoba](#), Jan Heyda [Joachim Dzubiella](#), Max Maxeltowner

Collection: Predicting bed shear stresses in vegetated channels
Published on 12 Aug 2018 - 14:31 by Vahid Etminan Farooji, [P. D. Smith](#), [G. Adam](#)

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Preprint submitted on 10.08.2018, 14:53 and posted on 10.08.2018, 17:46 by [Richard Chudoba](#), Jan Heyda [Joachim Dzubiella](#), Max Maxeltowner

F2 data are described with rich metadata

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Bay of Islands Bottlenose Dolphin Catalogue photos

Fileset posted on 13.11.2017, 09:04 by Rochelle Constantine

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CATEGORIES

- Zoology
- Marine Biology

KEYWORD(S)

bottlenose dolphin photo-identification
Bay of Islands catalogue
University of Auckland New Zealand

LICENCE



EXPORT

- RefWorks
- BibTeX
- Ref. manager
- Mendeley
- Endnote
- DataCite

REFERENCES

- <https://mmeg.wordpress.fos.auckland.ac.nz>

PUBLISHER (E.G. UNIVERSITY OF AUCKLAND)
University of Auckland

CONTACT EMAIL
r.constantine@auckland.ac.nz

SPATIAL COVERAGE (E.G. KERMADEC ISLAND)
Bay of Islands, New Zealand

TEMPORAL COVERAGE [YYYY/MM/DD - YYYY/MM/DD]
1993/12/01 - 2013/01/01

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

<i>ID</i>	<i>Property</i>	<i>Obligation</i>
1	Identifier (with mandatory type sub-property)	M
2	Creator (with optional given name, family name, name identifier and affiliation sub-properties)	M
3	Title (with optional type sub-properties)	M
4	Publisher	M
5	PublicationYear	M
10	ResourceType (with mandatory general type description sub-property)	M



Open data survey and
feedback on FAIR



Key results:

- 64% of respondents revealed they made their data openly available in 2018, a 7% rise on 2016.
- Data citations are motivating more respondents to make data openly available, increasing 7% from 2017 to 46%.
- The percentage of respondents in support of national mandates for open data is higher at 63% than in 2017 (55%).
- Respondents who revealed that they had reused open data in their research continues to shrink. In 2018, 48% said they had done this, whereas in 2017, 50% had done so, with 57% in 2016.
- Most researchers felt that that they did not get sufficient credit for sharing data (58%), compared to 9% who felt they do.
- Respondents having lost research data has decreased from 2017 (36% versus 30% in 2018).

<https://doi.org/10.6084/m9.figshare.7195058.v1>

Fig. 4 How familiar are you with the FAIR principles



60% of respondents had never heard of FAIR principles (Findability, Accessibility, Interoperability and Reusability), which provide a guideline for data producers and publishers to enhance the reusability of academic data.



Stephen Cawley

Function: Head of Institutional Marketing

Email: s.cawley@digital-science.com