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Figshare, being FAIR and open data everywhere

Stephen Cawley, Head of Institutional Marketing, Digital Science

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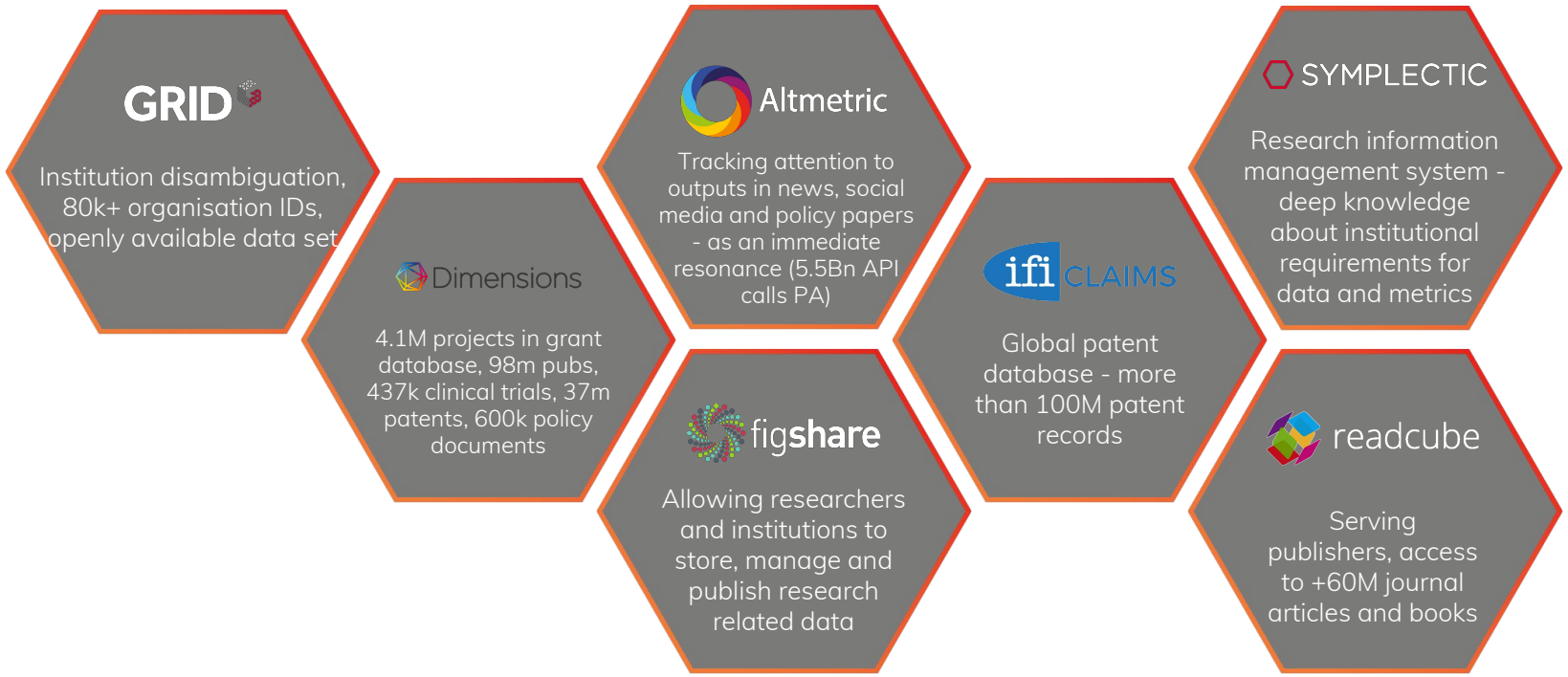
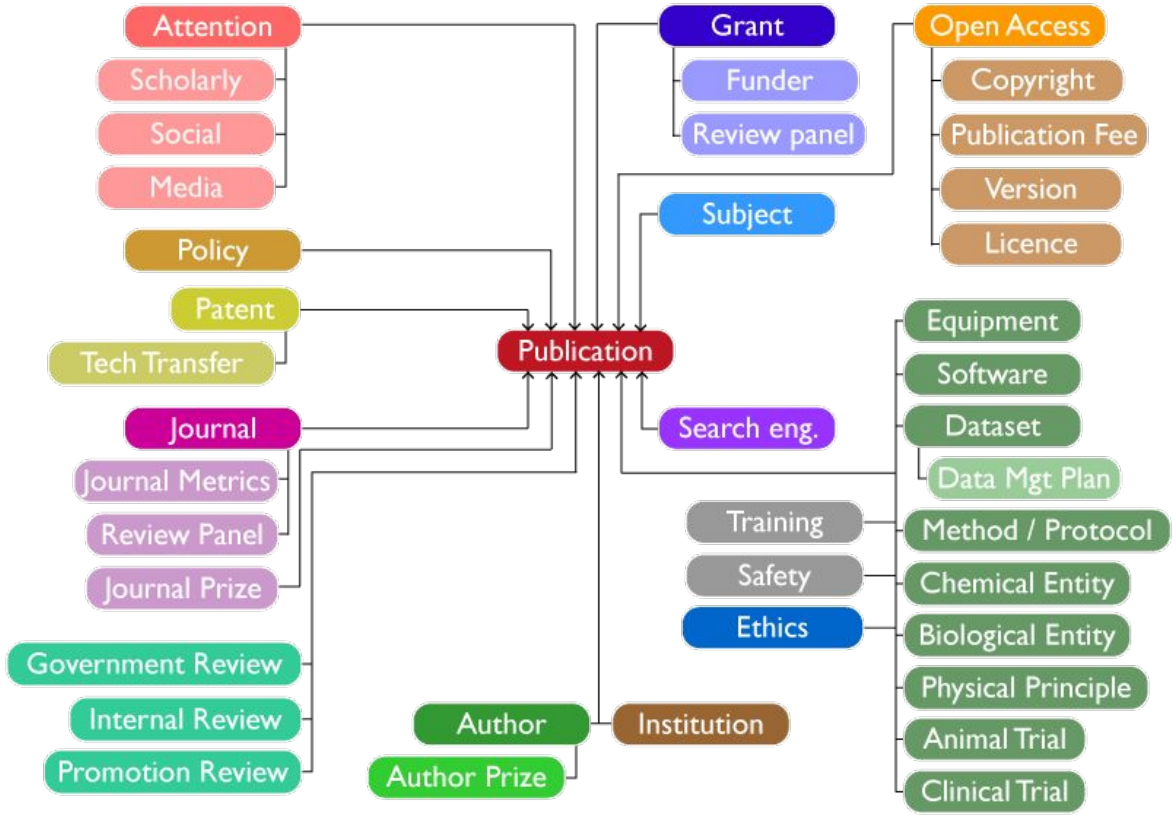
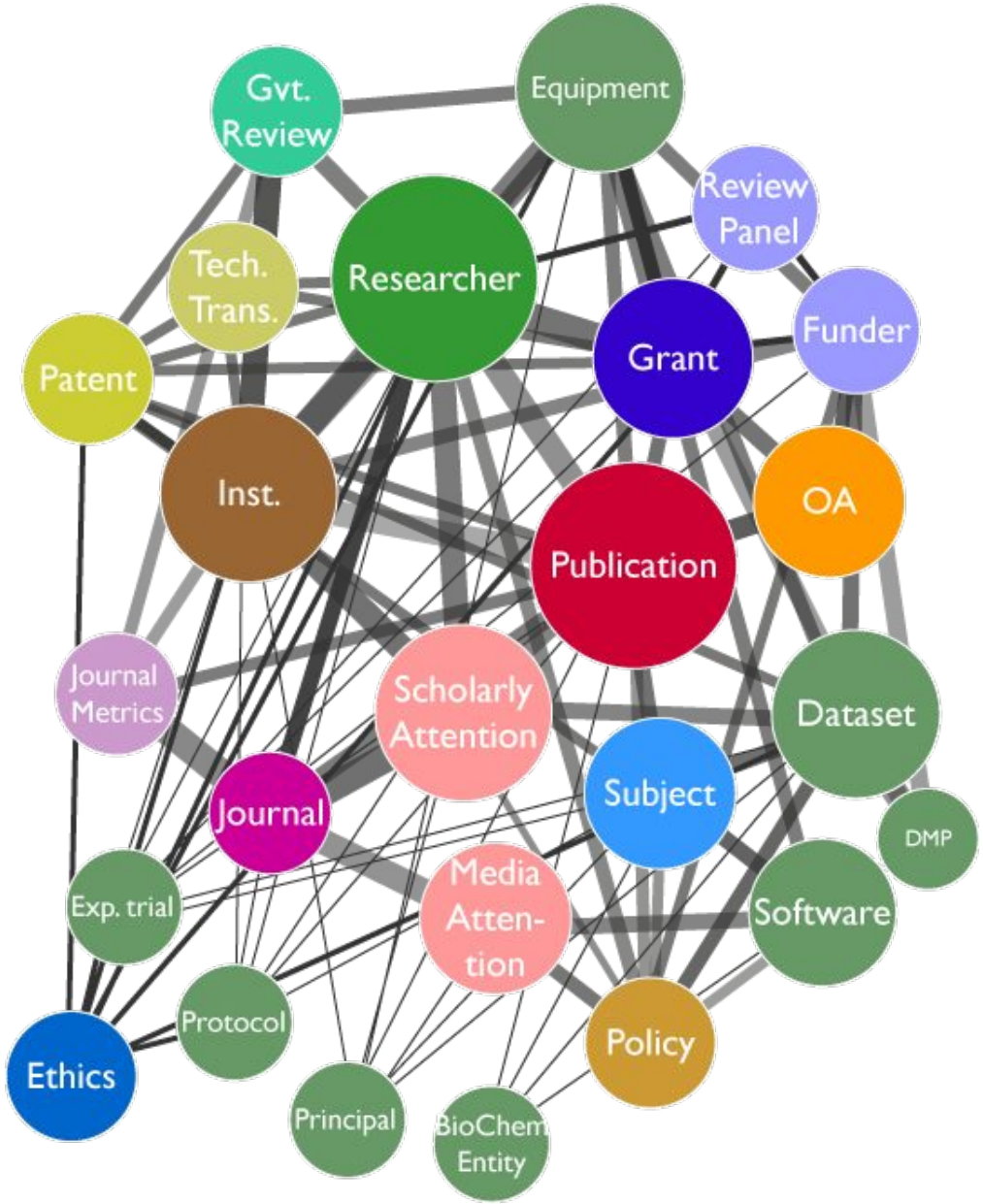
Freemium versions available for several of our software applications



Some strategic context

The expanding universe reflected in Digital Science product design





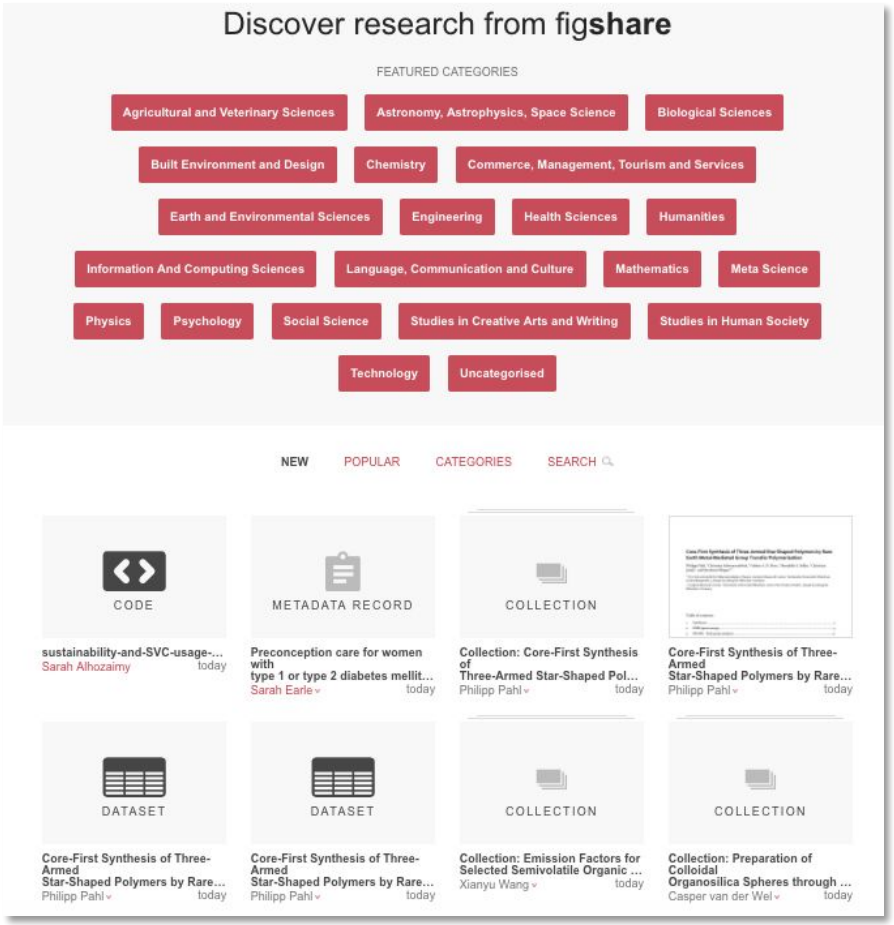
Importance of current and forward-looking data signals for OA compliance strategy

- 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

Dimensions

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 Luxemburg for International, European and Regulatory Procedural Law

Figshare: store, share, discover research



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.

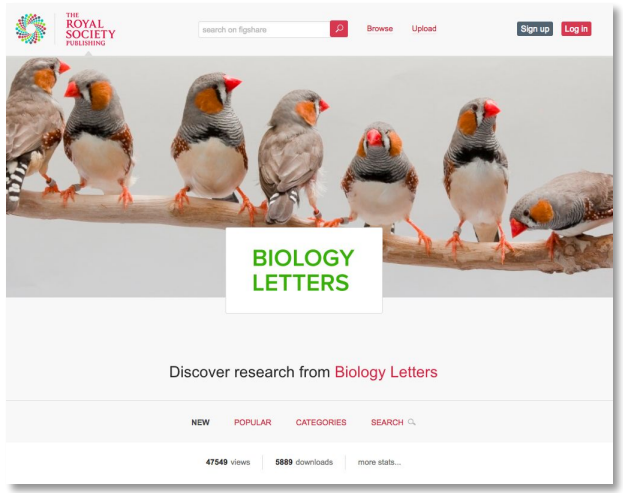
Some features of published content:

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

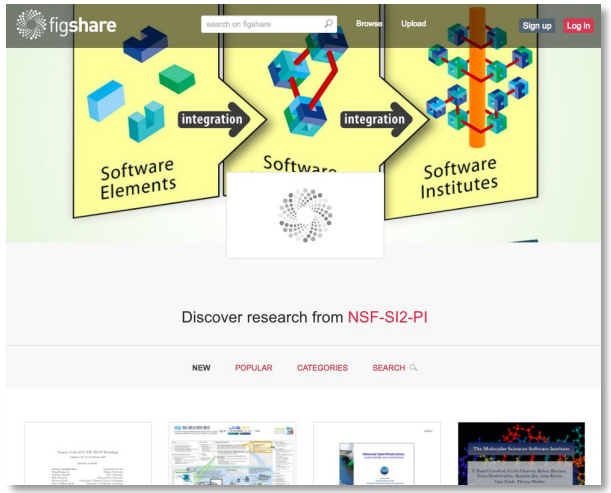
#DIGITAL science

figshare

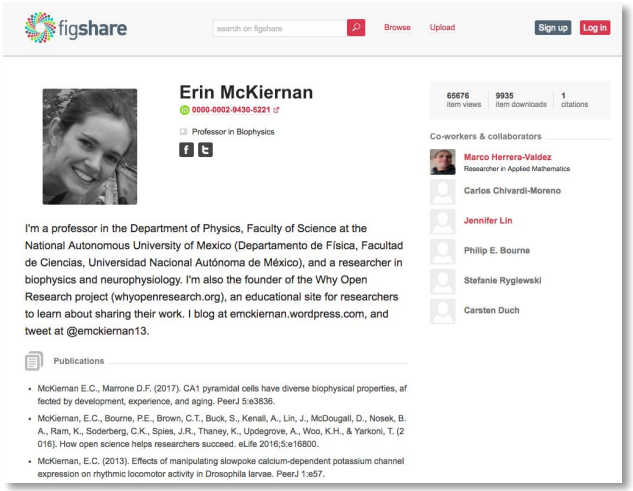
Communities we support and the services we provide



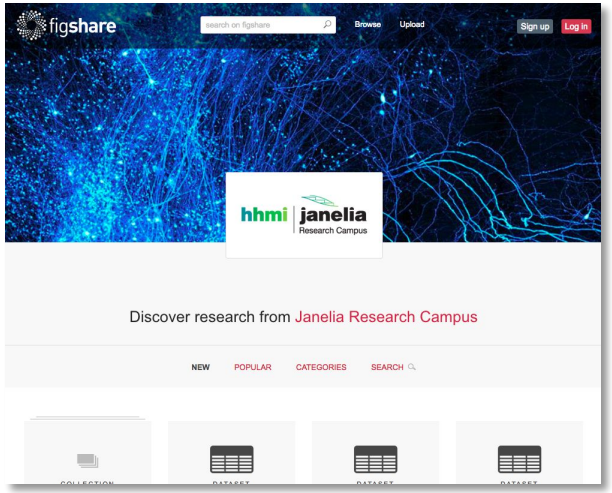
Academic publishers
(portal/viewer/preprints!)



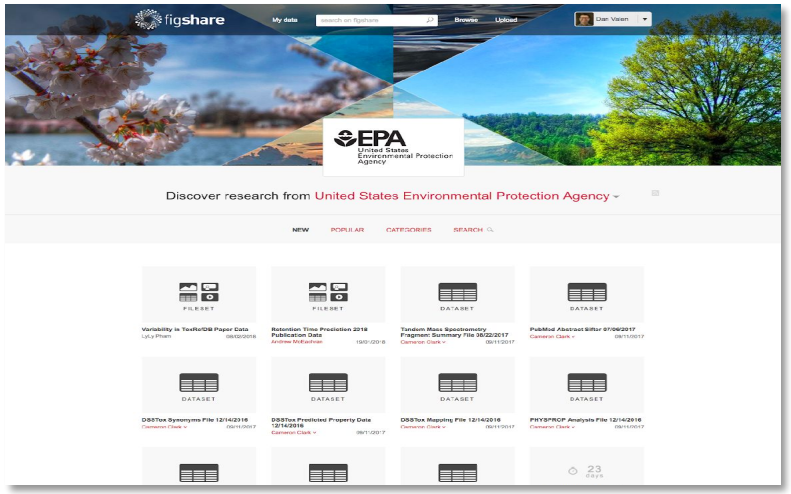
Conferences/proceedings



Individual researchers

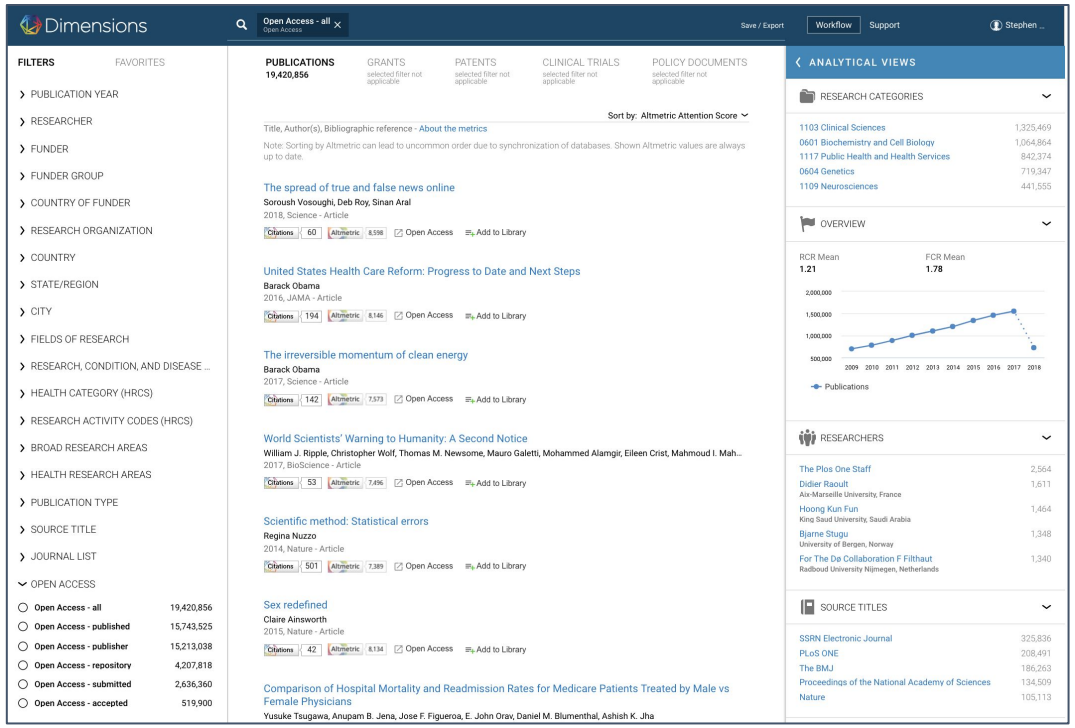


Institutions
(research unis/labs)



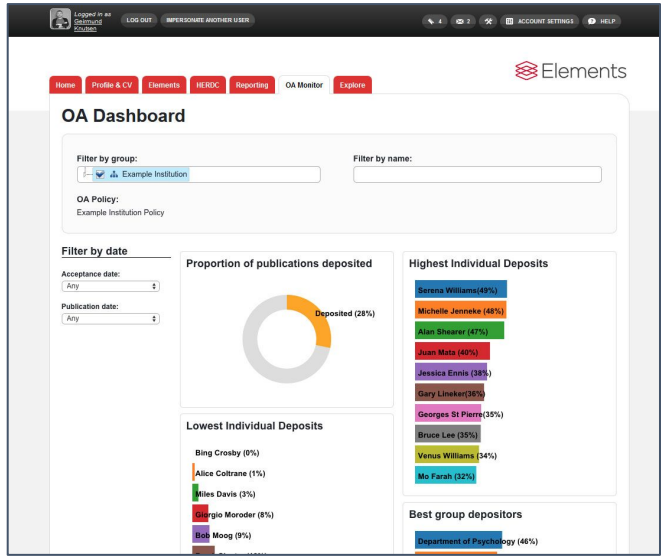
Foundations and gov’ts
(funders)

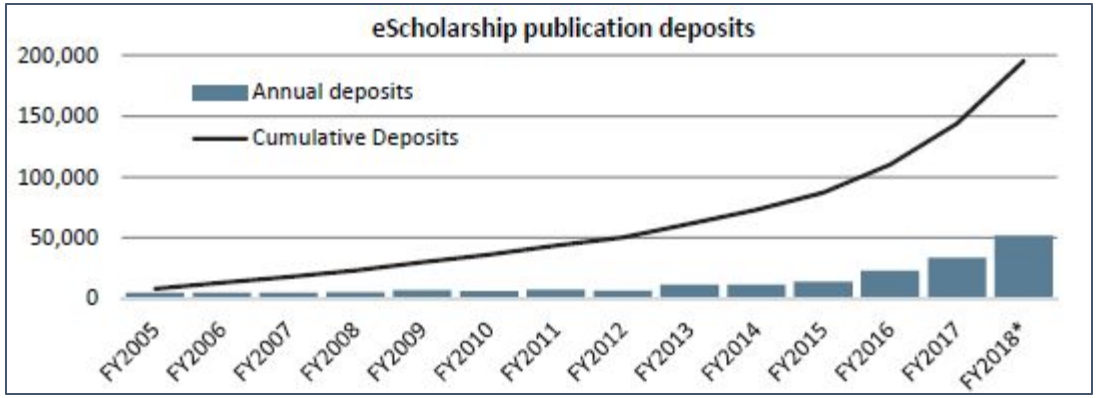
Digital Science is firmly committed to enabling Open Access to Publications and Data

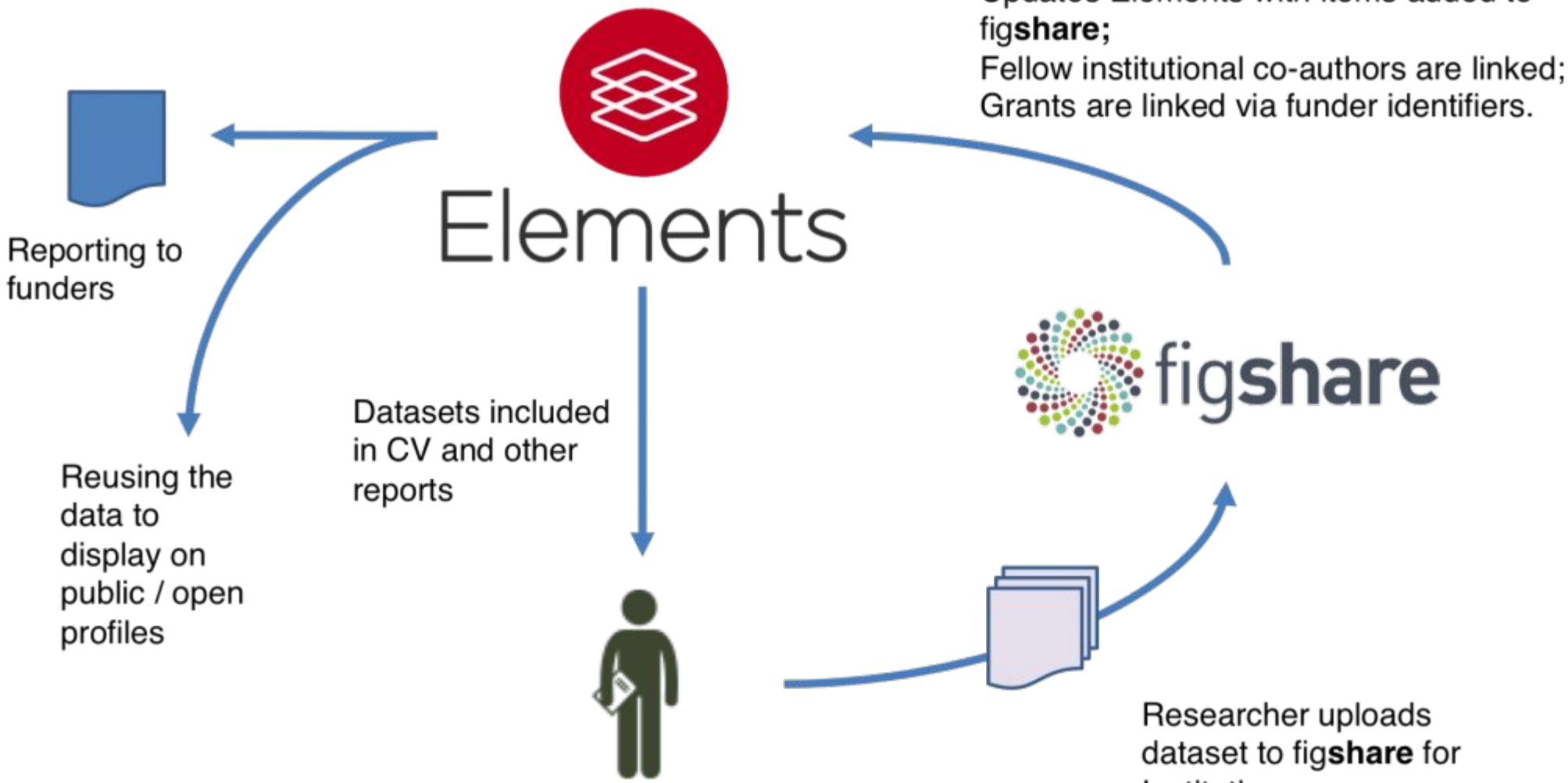


Dimensions OA Filter - 19.4m OA publications discoverable in a free Discovery tool @ Dimensions.ai

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






Updates Elements with items added to figshare;
Fellow institutional co-authors are linked;
Grants are linked via funder identifiers.
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Reporting to funders
Reusing the data to display on public / open profiles
Datasets included in CV and other reports
Researcher uploads dataset to figshare for Institutions

Background on FAIR

FINDABLE

ACCESSIBLE

INTEROPERABLE

REUSABLE

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

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

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

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

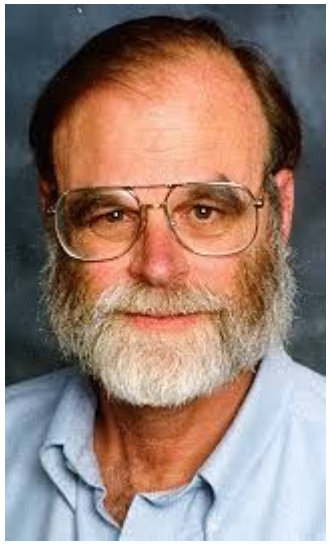
By KRISTIN M. TOLLE

D. STEWART W. TANSLEY

ANTHONY J. G. HEY

External Research, Microsoft Research, Redmond, VA 98052 USA

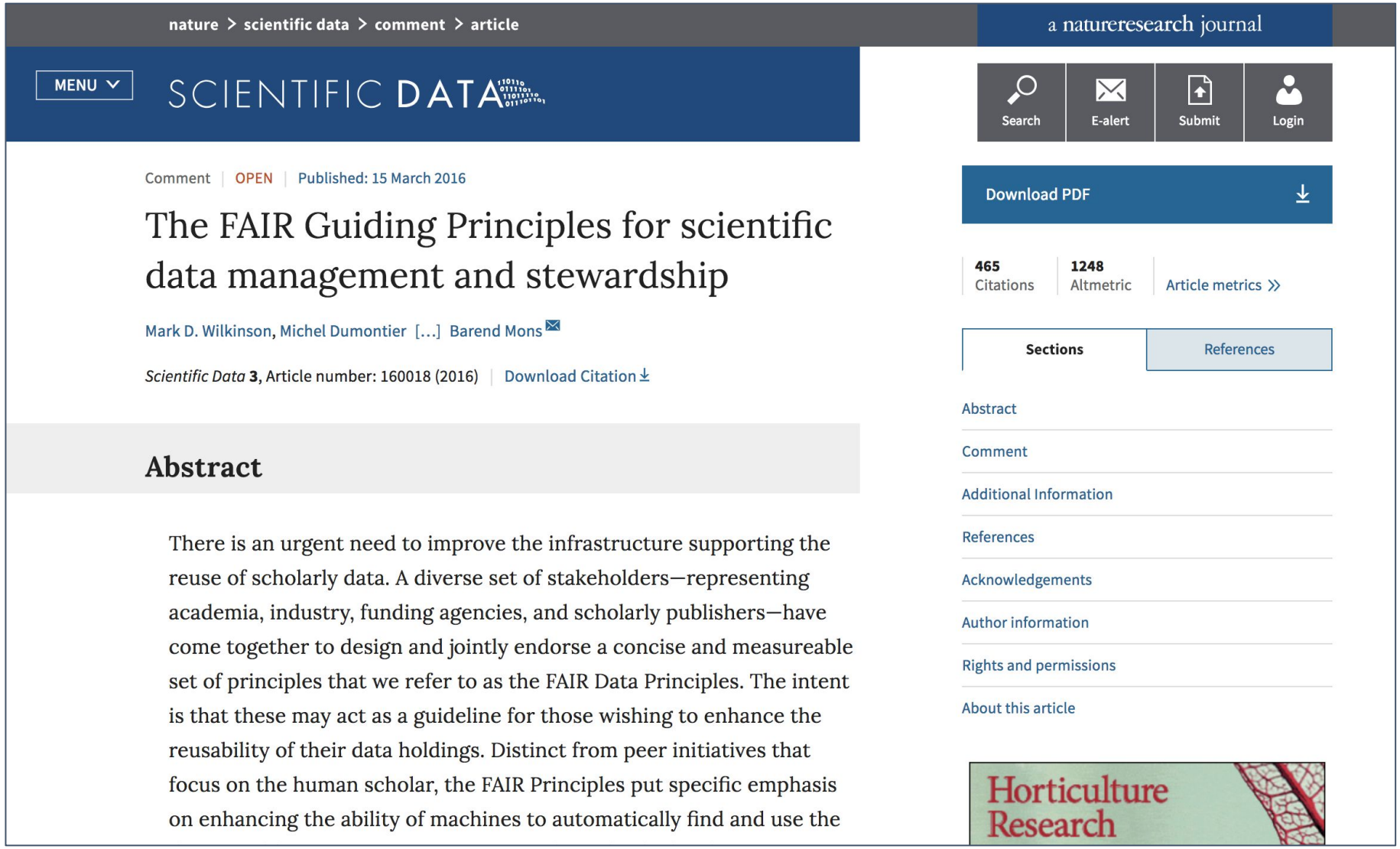
The book *The Fourth Paradigm: Data Intensive Scientific Discovery*,[1] contains a series of essays by scientists and computer scientists looking forward five years or more to how different scientific fields are being transformed by the exponential increase in scientific abstracts being deposited in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



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 natureresearch journal

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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

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465 Citations | 1248 Altmetric | Article metrics »

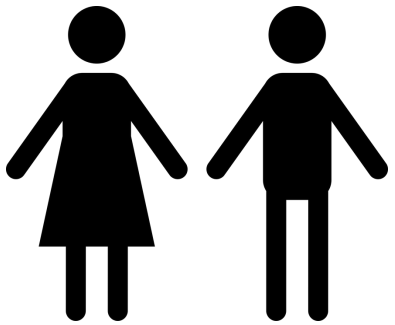
Sections | References

- Abstract
- Comment
- Additional Information
- References
- Acknowledgements
- Author information
- Rights and permissions
- About this article

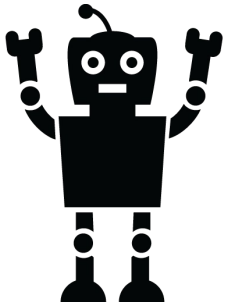
Abstract

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 measureable 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

Horticulture Research

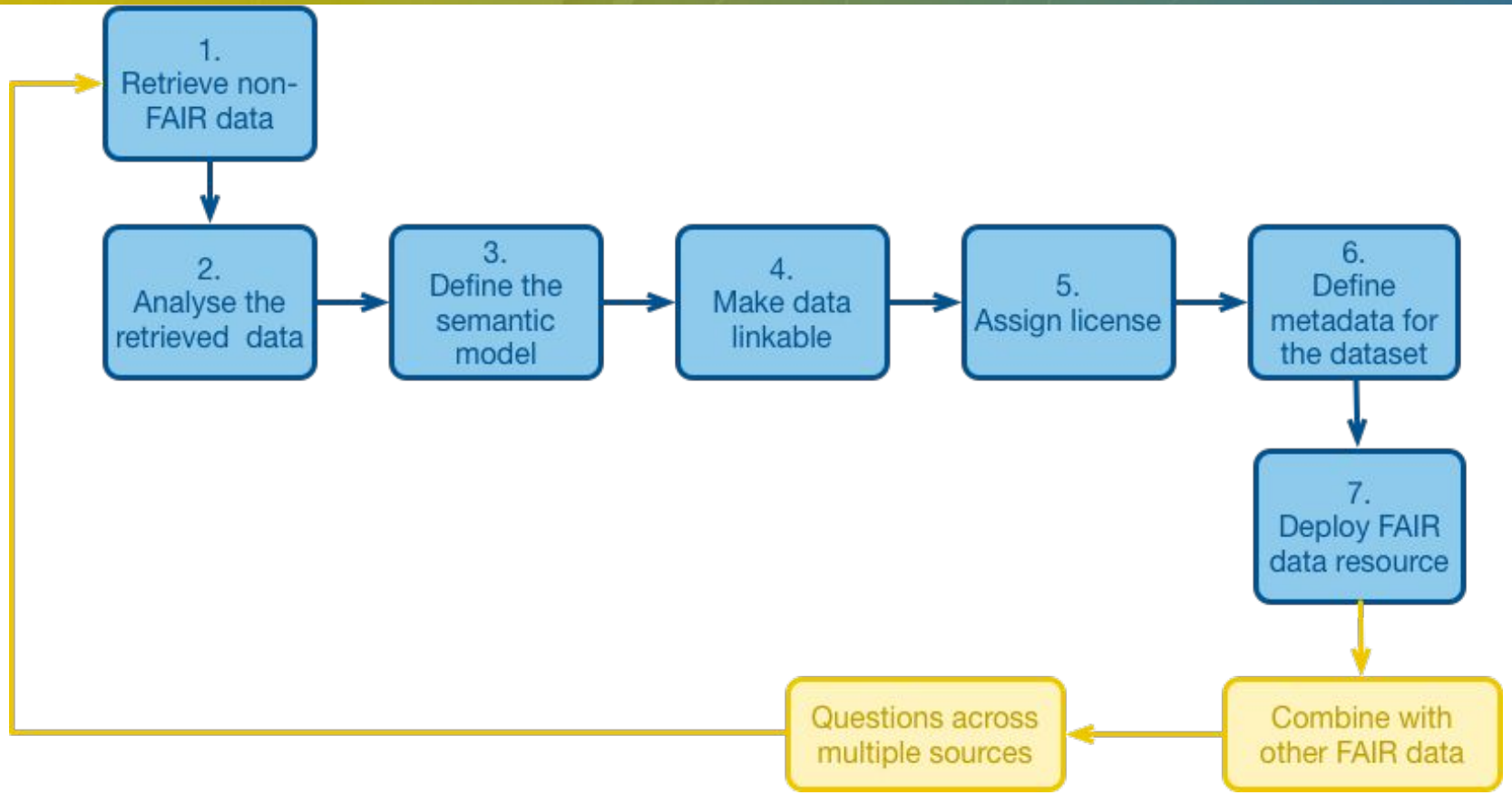


FAIR



FAIR

FAIRification Process

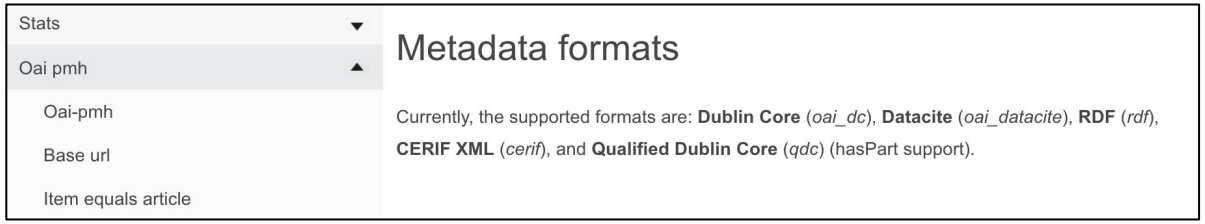


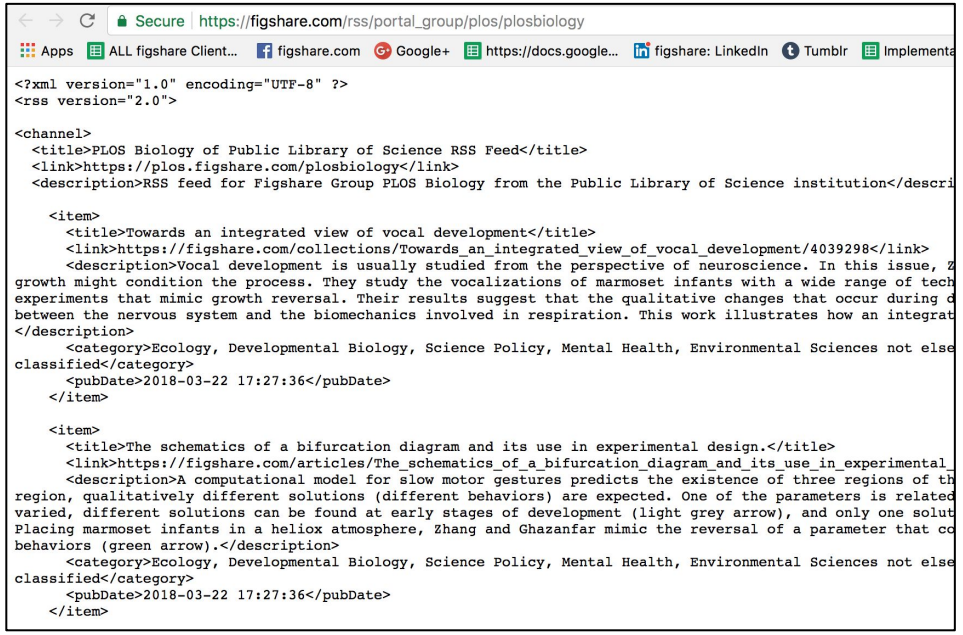
Figshare's beliefs align to FAIR principles

- 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

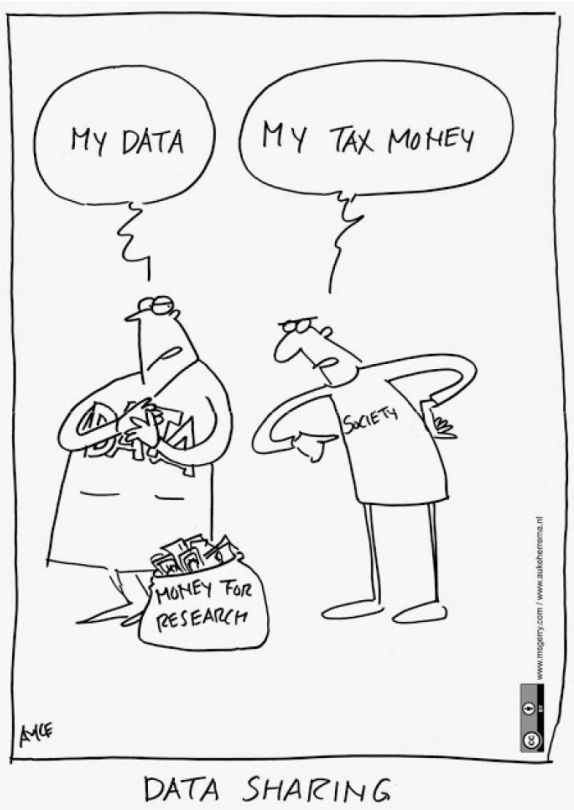
Support for open standards and de facto standards

- 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



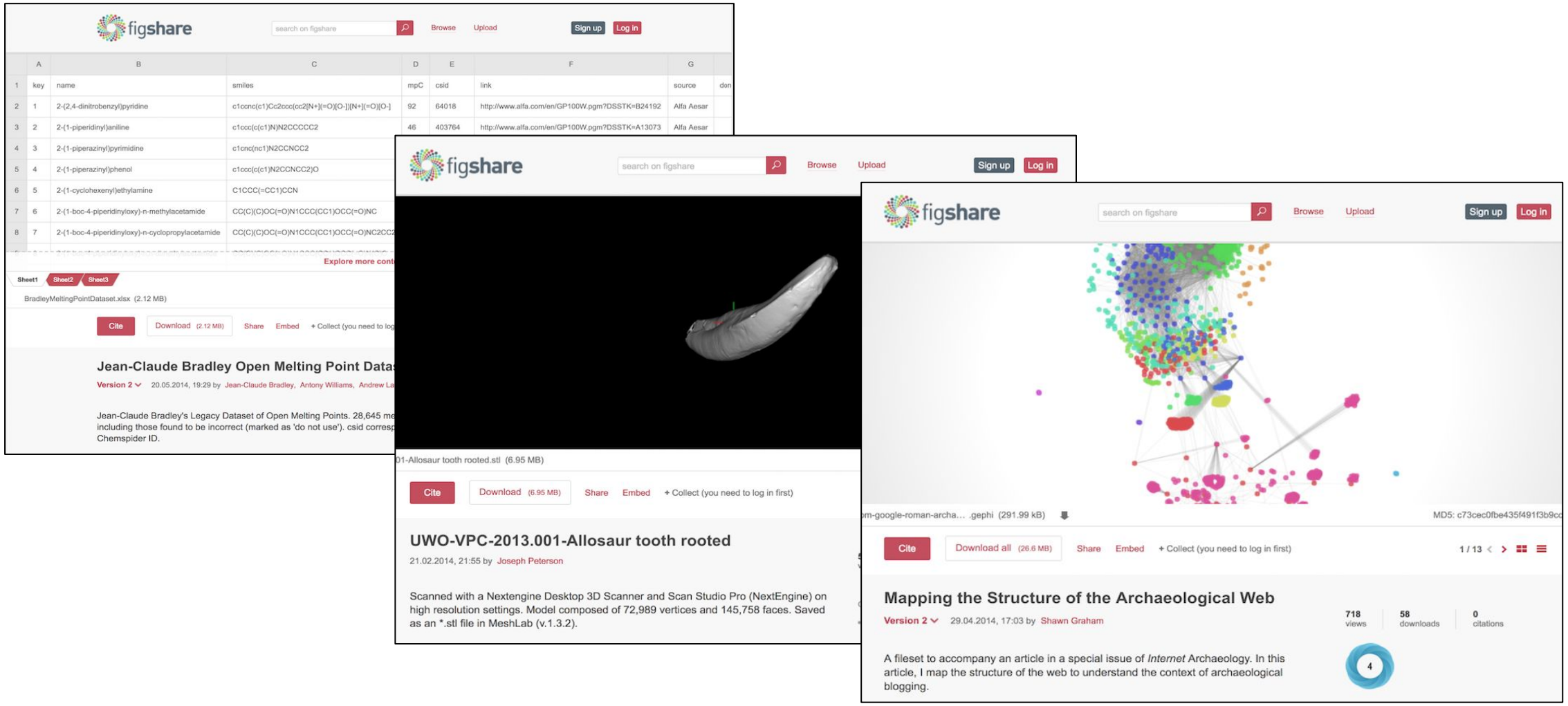


Incentives for researchers



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

Impress the researcher with in-browser visualisers for than 1000 file types



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

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.

http://www.pnas.org/site/authors/editorialpolicies.xhtml

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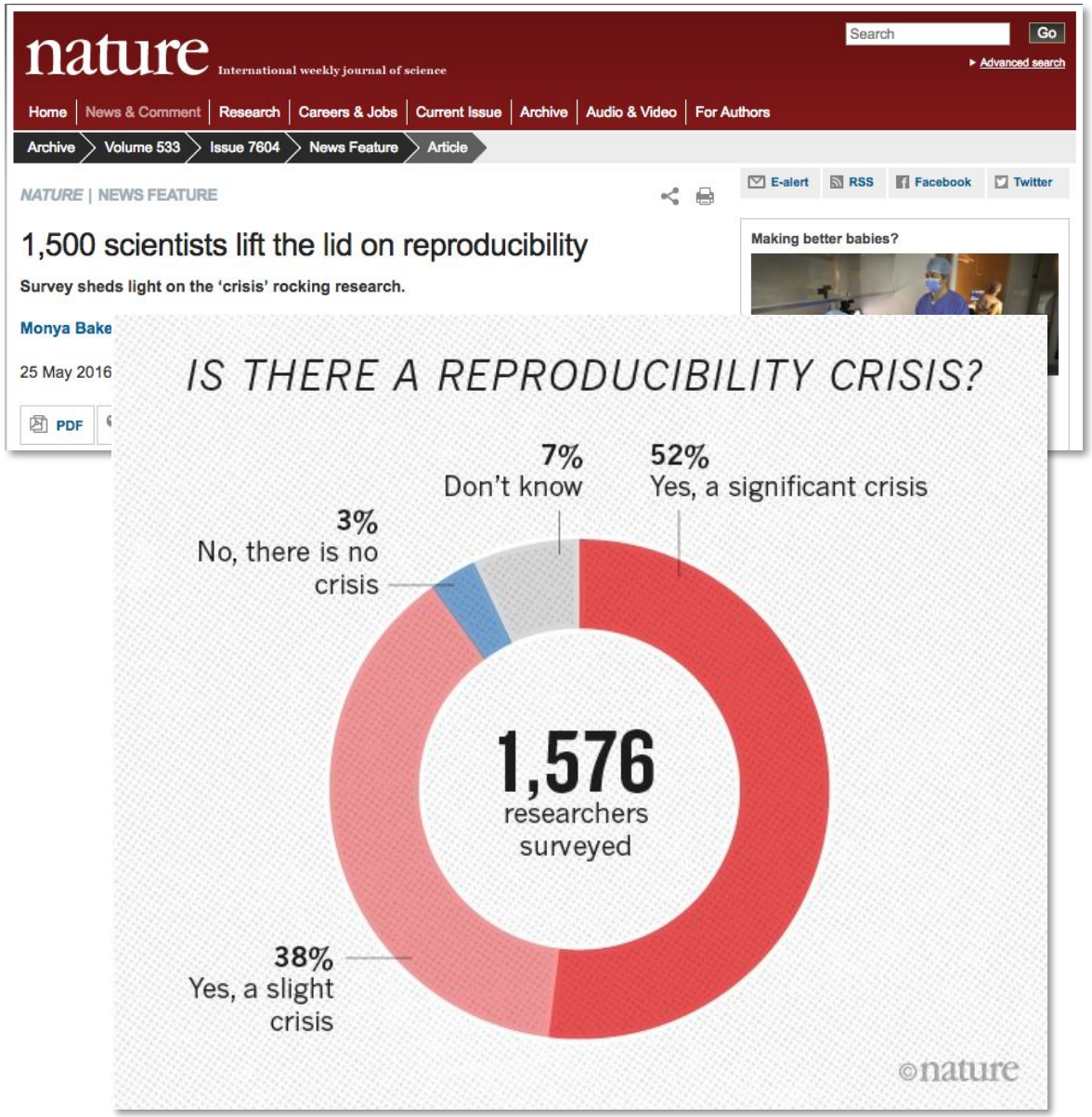
Reproducibility, Replication, and Reuse

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



https://doi.org/10.1038/533452a

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

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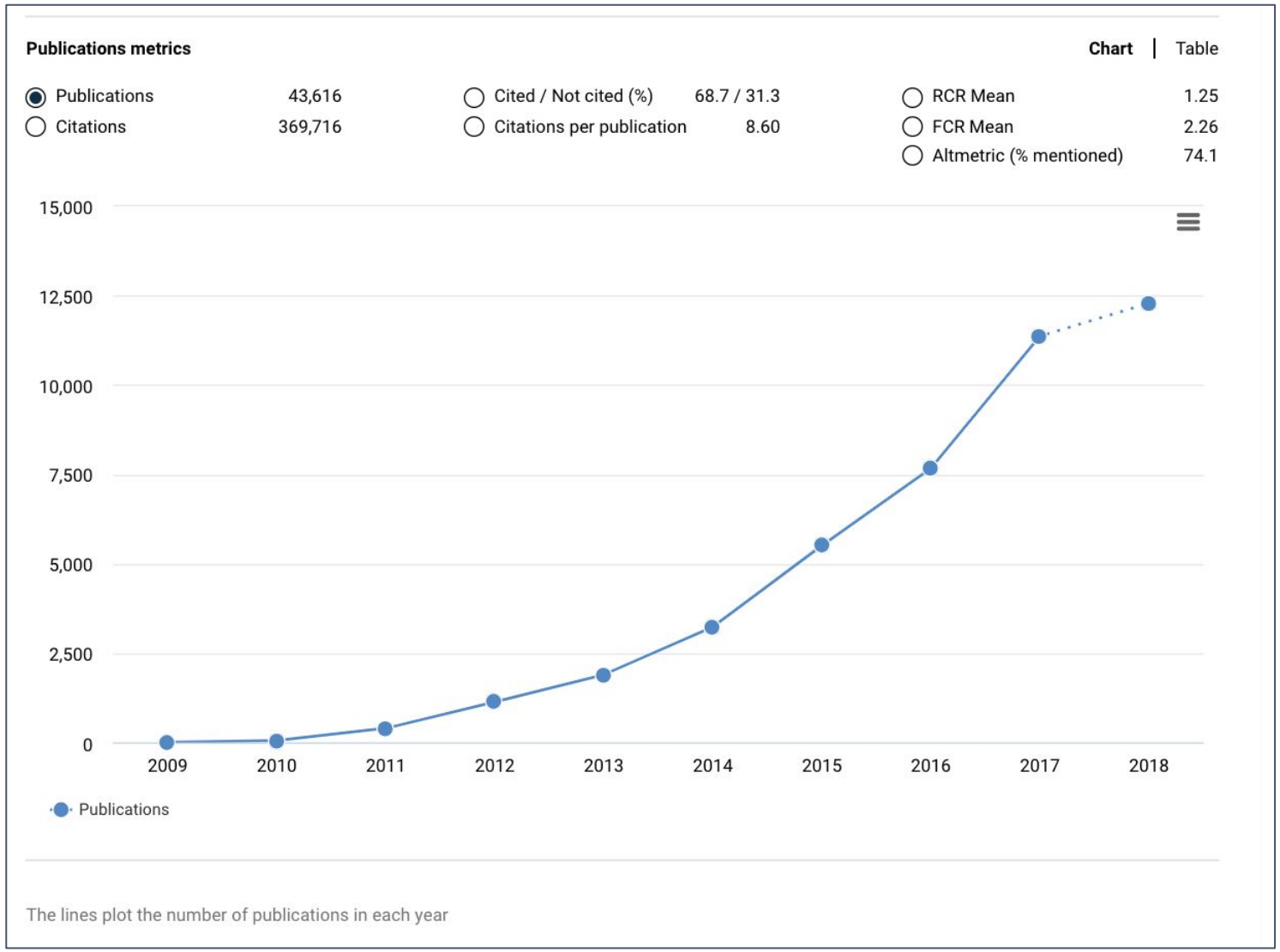
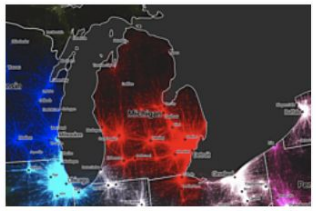
zenodo

DRYAD



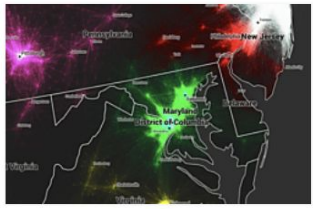


map_1.png (10.16 MB)

map_2.png (8.5 MB)

map_5.png (8.5 MB)

map_6.png (11.27 MB)



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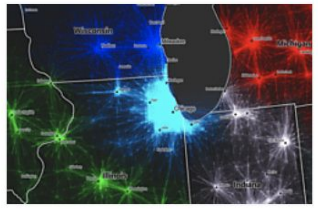

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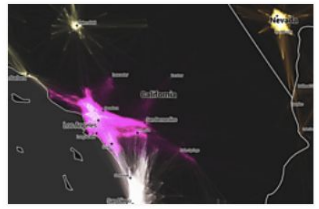

map_10.png (4.5 MB)

map_11.png (6.77 MB)

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43 files 1 / 4

United States Commutes and Megaregions data for GIS

50068 views **8984** downloads **0** citations

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

107

The University Of Sheffield.

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.

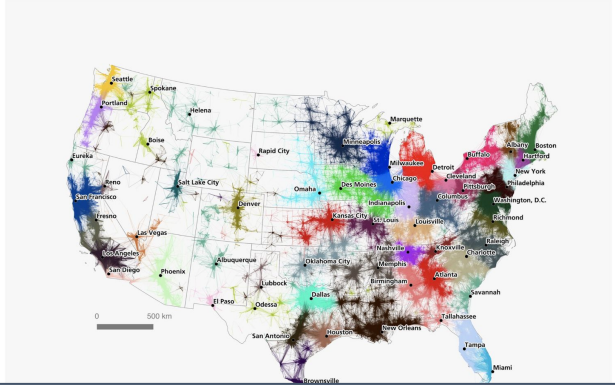
CATEGORIES

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

WIRED — Mesmerizing Commute Maps Reveal We All Live in Mega-Regions, Not Cities — SIGN IN | SUBSCRIBE

AARIAN MARSHALL TRANSPORTATION 12.02.16 07:00 AM

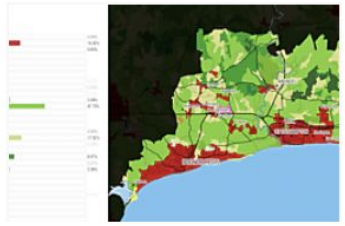
MESMERIZING COMMUTE MAPS REVEAL WE ALL LIVE IN MEGA-REGIONS, NOT CITIES



Ards and North D… .png (1.26 MB)

Argyll and Bute_C….png (3.1 MB)

Armagh City Banb….png (1.73 M



Ashfield_Corine_… .png (2.15 MB)

Ashford_Corine_2….png (2.56 MB)

Aylesbury Vale_C… .png (3.29 M

Cite | Download all (937.45 MB) | Share | Embed | + Collect (you need to log in first)

A Land Cover Atlas of the United Kingdom (Maps)

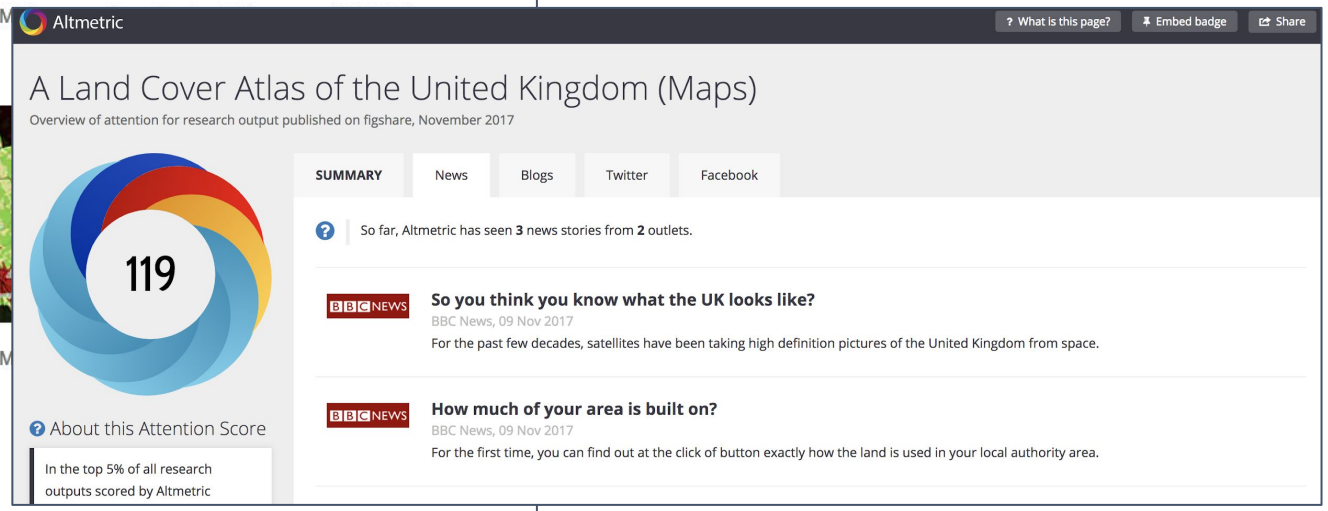
Fileset posted on 03.11.2017, 16:42 by Alasdair Rae

23863 views | 11355 downloads | 0 citations

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.

The University Of Sheffield.



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bcountrydata_201….txt (30.73 MB)

OLI 2016-11-03.pdf (738.03 kB)

PlotBuyerCountry… .R (3.67 kB)

Plot28ma.R (2.59 kB)

onlyTotal_raw.pdf (5.8 kB)

onlyTotal_ma.pdf (5.58 kB)

OccupationShares.pdf (4.53 kB)

NewAndComplete….R (2.54 kB)

countryXoccupation.pdf (5.49 kB)

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

13697 views | 76068 downloads | 0 citations

Version 928 Fileset posted on 13.11.2018, 23:45 by otto kässi, Martin Hadley, Vili Lehdonvirta

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

3

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

ilabour.oii.ox.ac.uk

Joined April 2016

16 Photos and videos

Tweets Tweets & replies Media

Pinned Tweet

iLabour Project @iLabourProject · 11 Jul 2017

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

Creative and multimedia
Clerical and data entry
Sales and marketing support
Software development and technology
Writing and translation
Professional services
Not enough data

1 43 53

iLabour Project Retweeted

Vili Lehdonvirta @ViliLe · Nov 11

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Worldwide trends

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34.3K Tweets

クロちゃん
59.8K Tweets

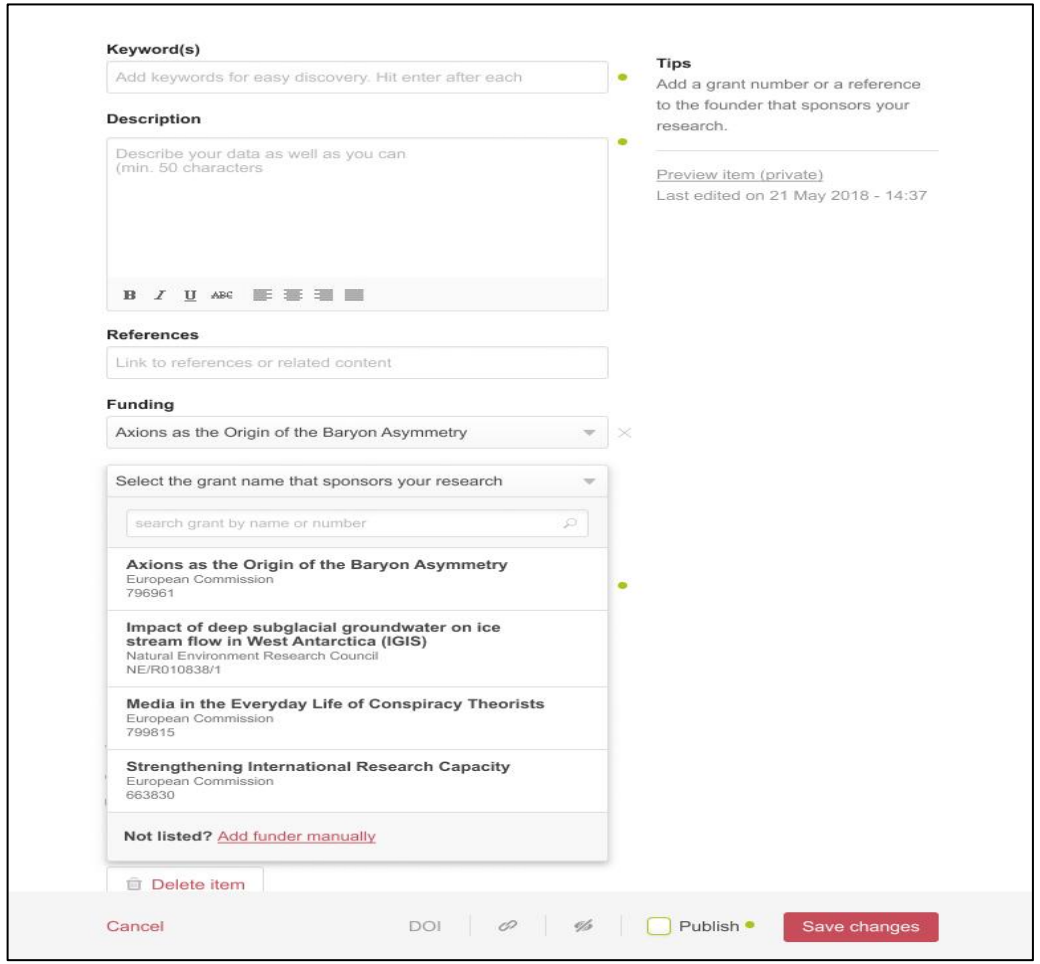
#مطر_الكويت
40.5K Tweets

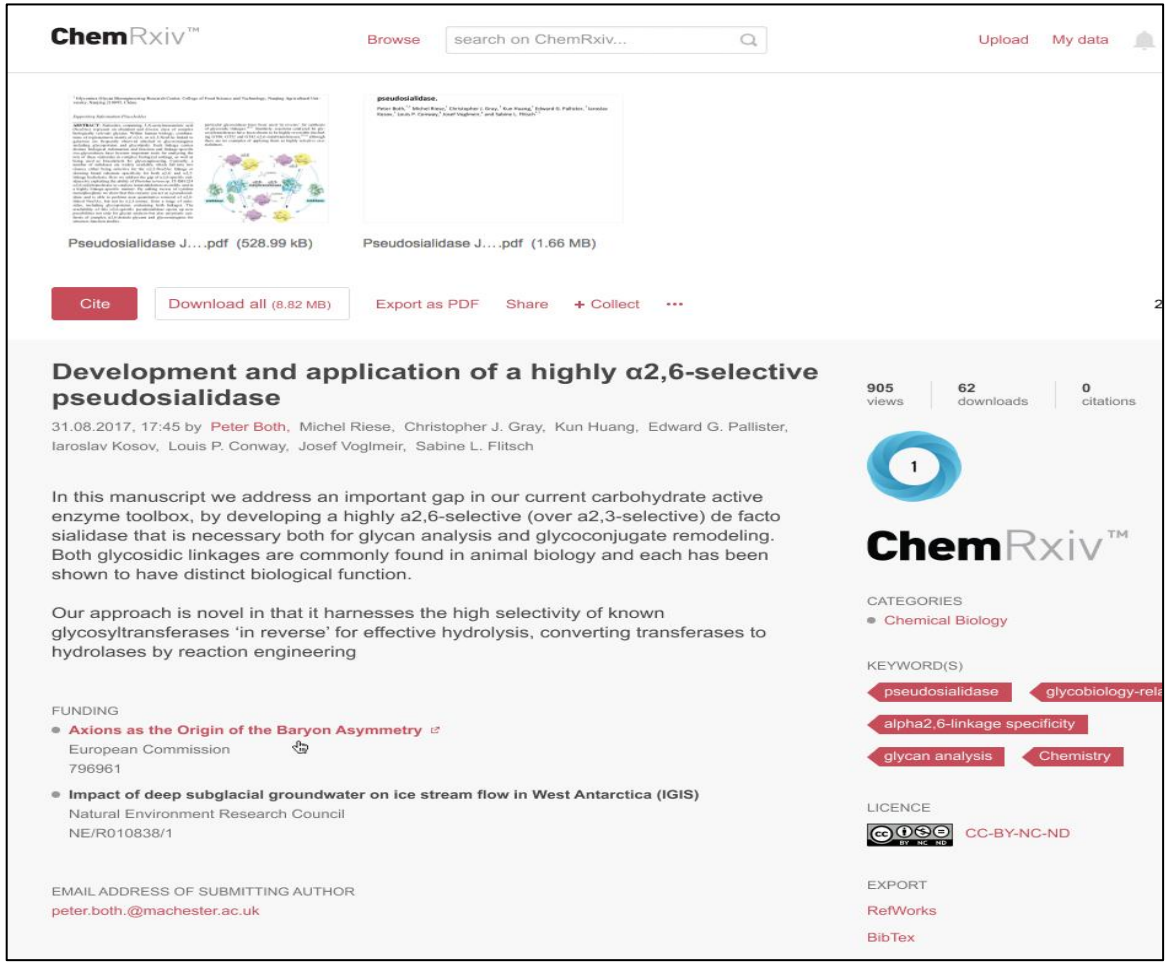
#WednesdayWisdom
50.3K Tweets

冬のボーナス
9,915 Tweets

#14Nov
24.9K Tweets

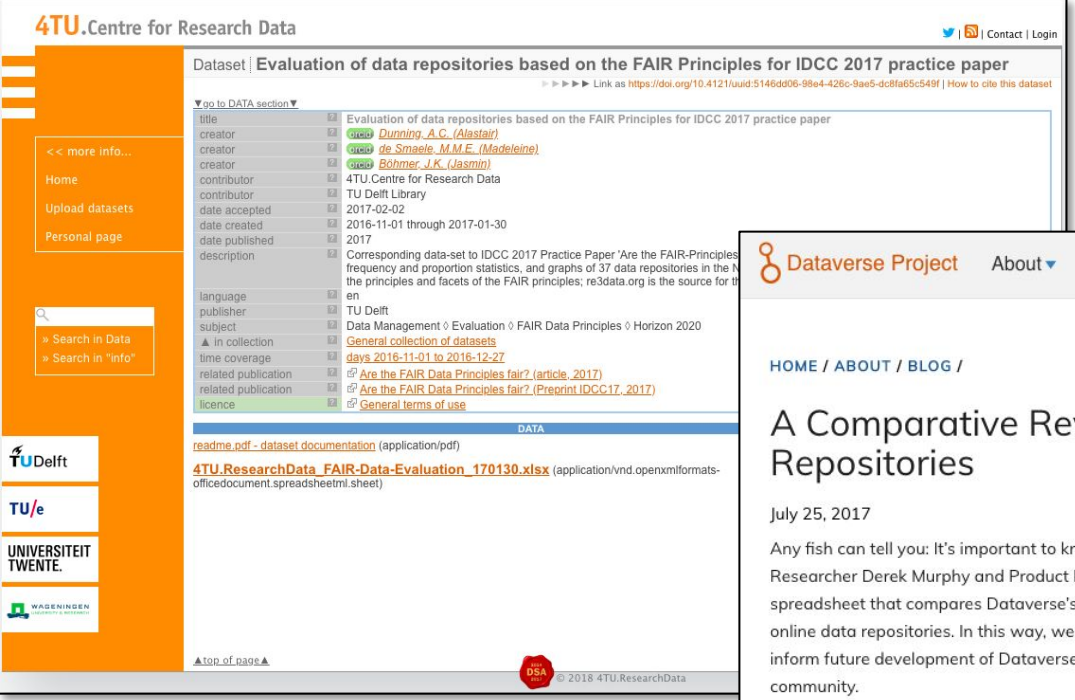
Making compliance easier

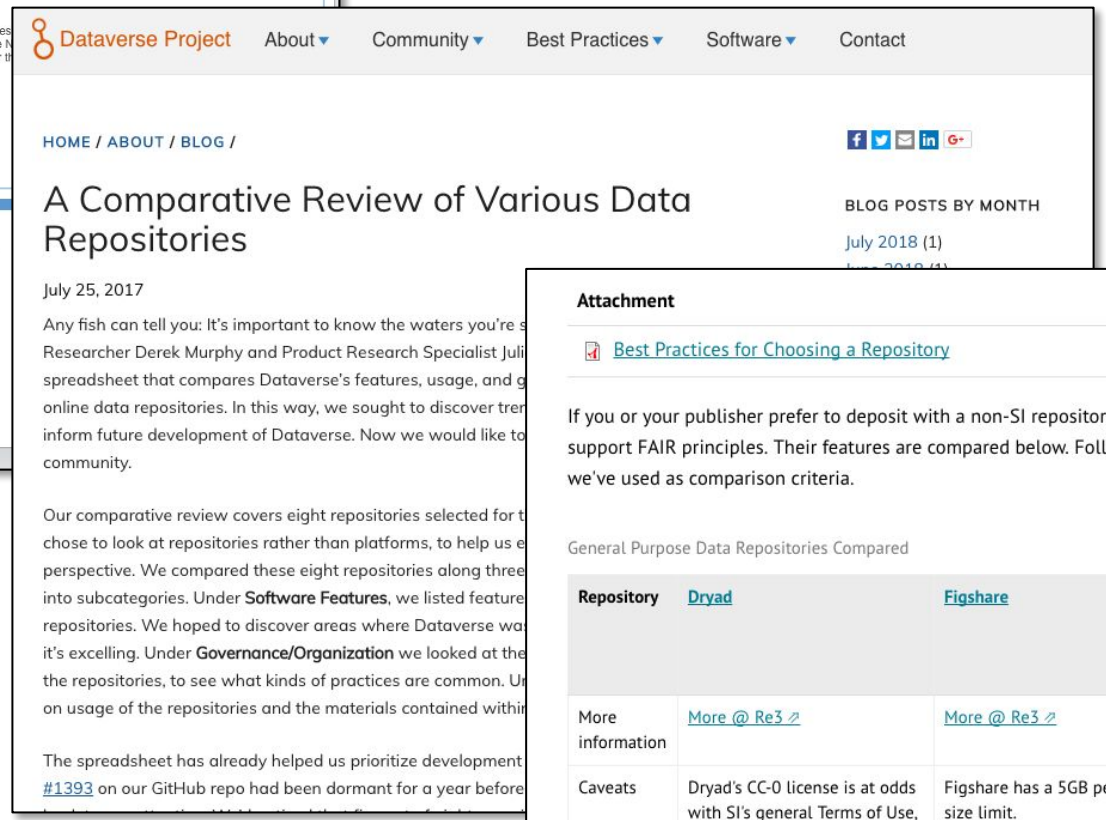


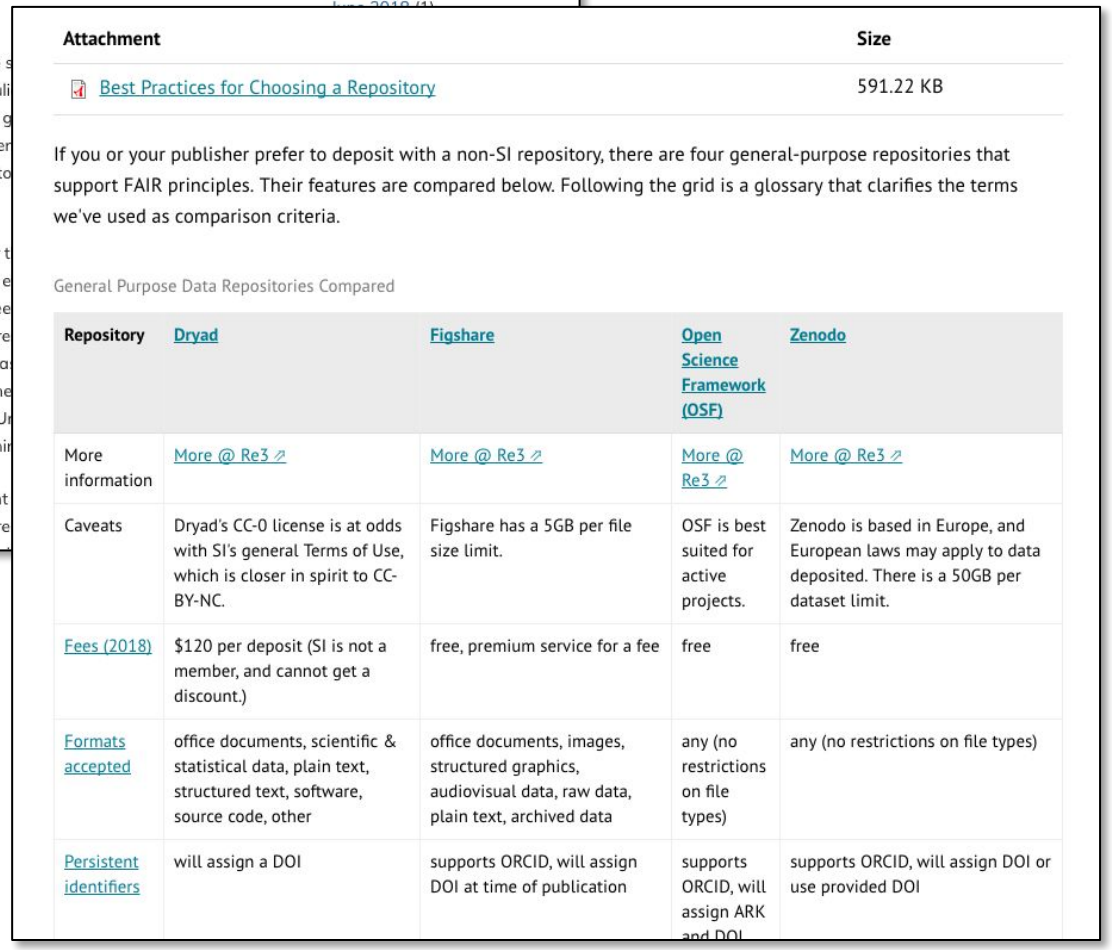


FAIR and other relevant reviews

What does a good repo look like?







- 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

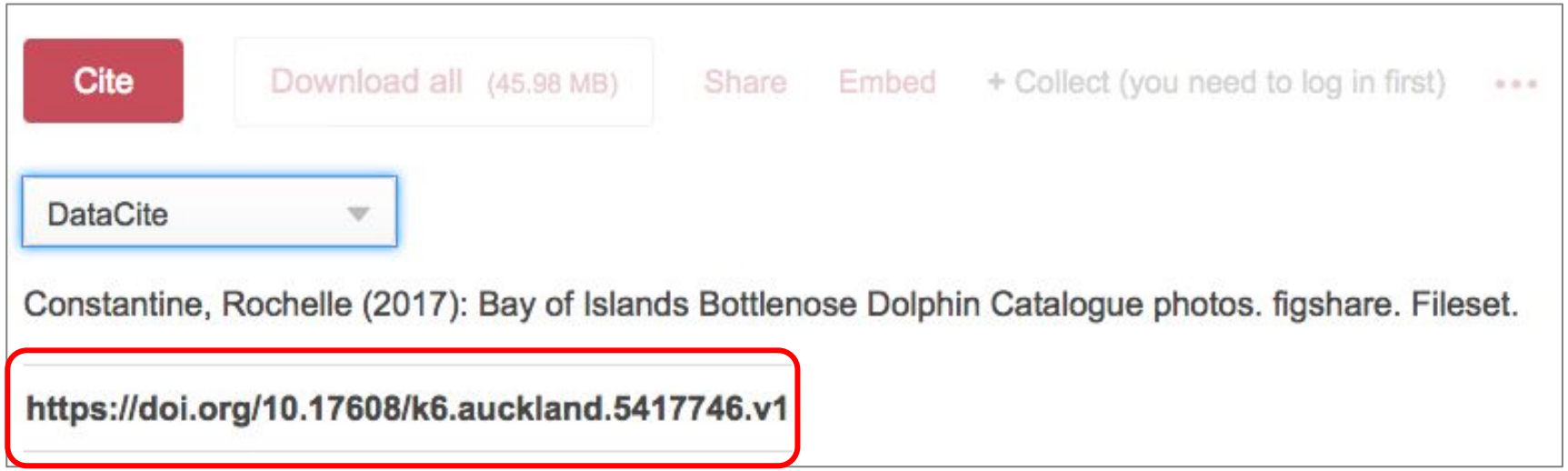
A Data Citation Roadmap for Scholarly Data Repositories

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

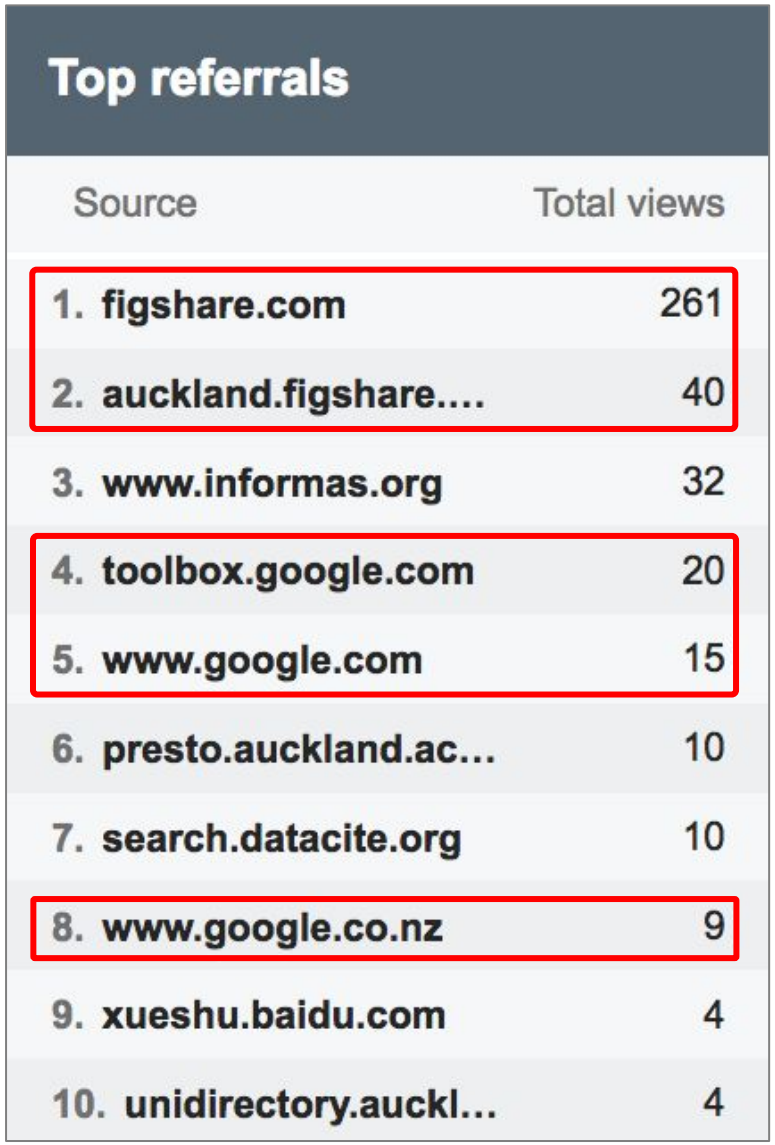
A Data Citation Roadmap for Scholarly Data Repositories
Martin Fenner, Mercè Crosas, Jeffrey Grethe, David Kennedy, Henning Hermjakob, Philippe Rocca-Serra, Gustavo Durand, Robin Berjon, Sebastian Karcher, Maryann Martone, Timothy Clark
bioRxiv 097196; doi: https://doi.org/10.1101/097196

FAIR roadtest

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



F3 (meta)data are registered or indexed in a searchable resource



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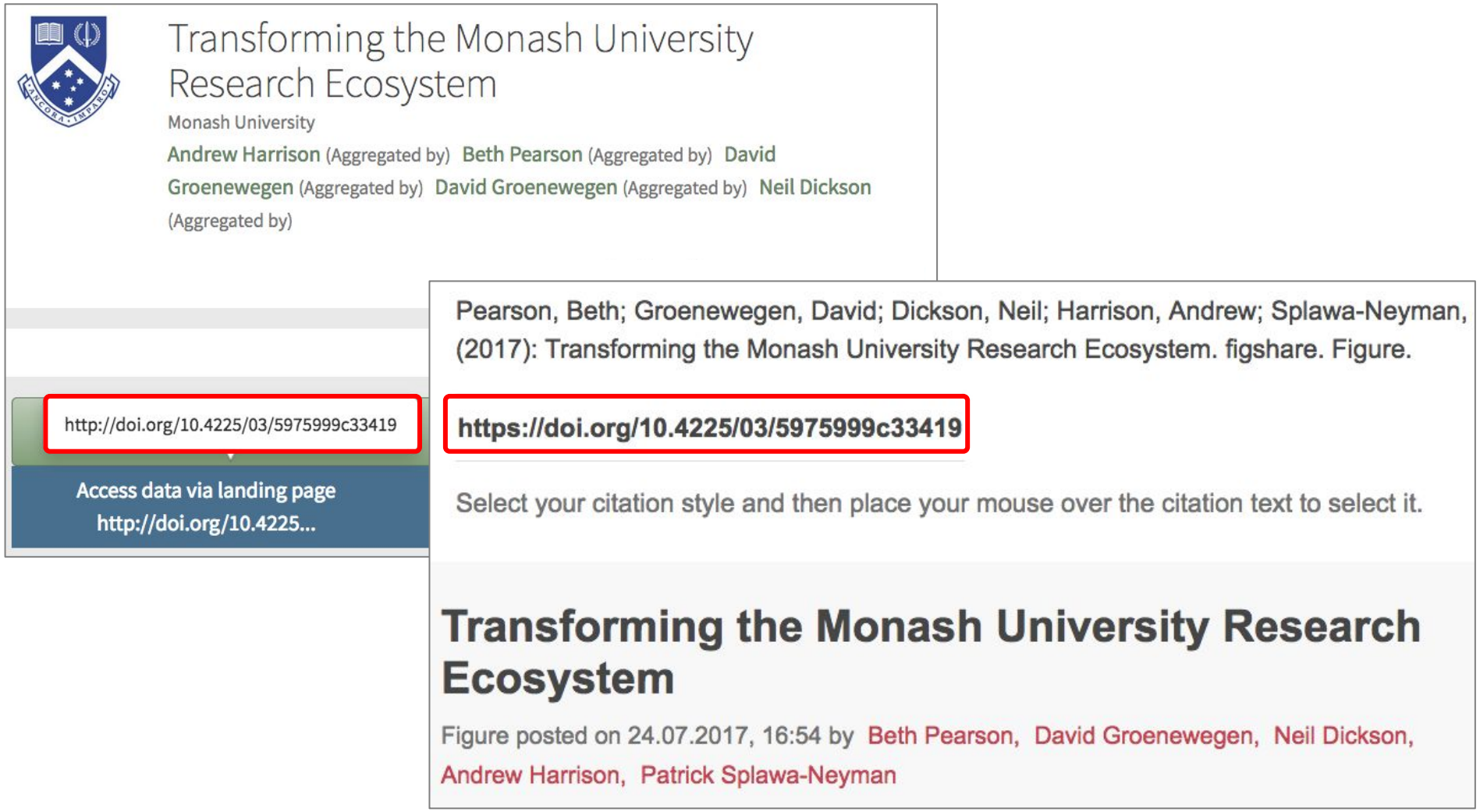
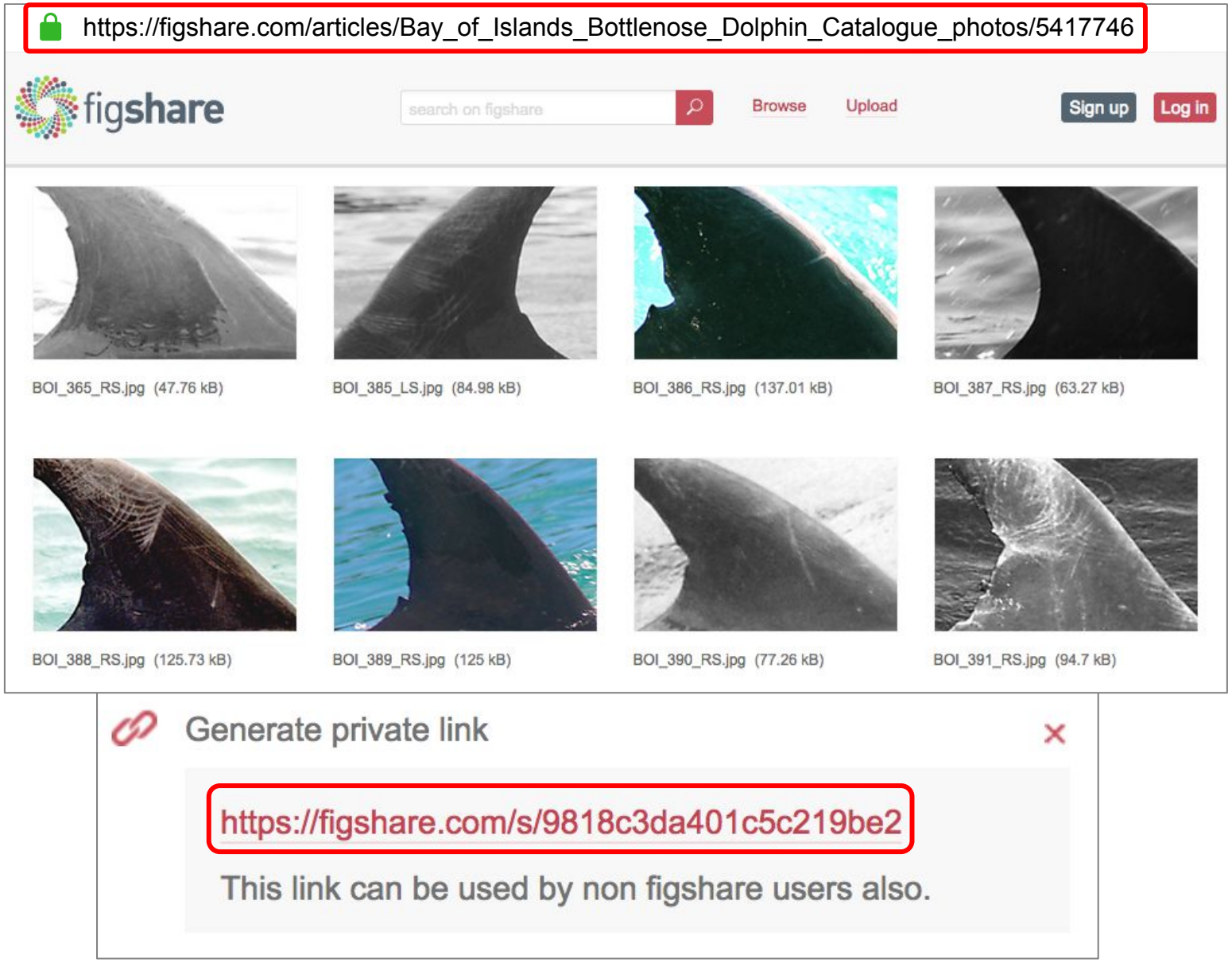
F4 metadata specify the data identifier

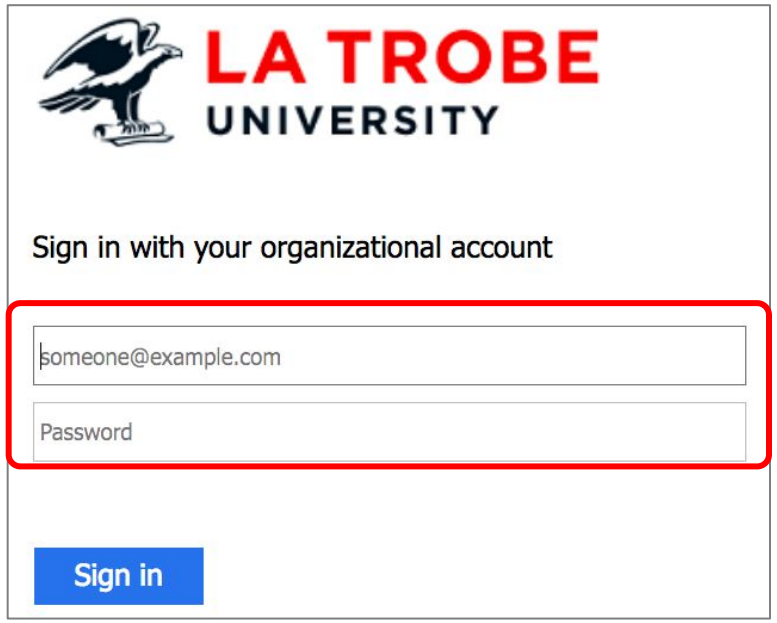


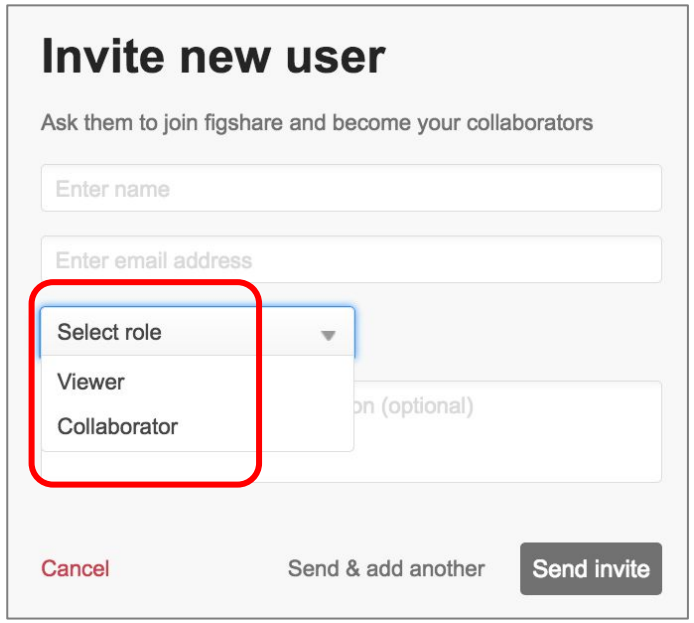
A1 (meta)data are retrievable using a standardized communications protocol

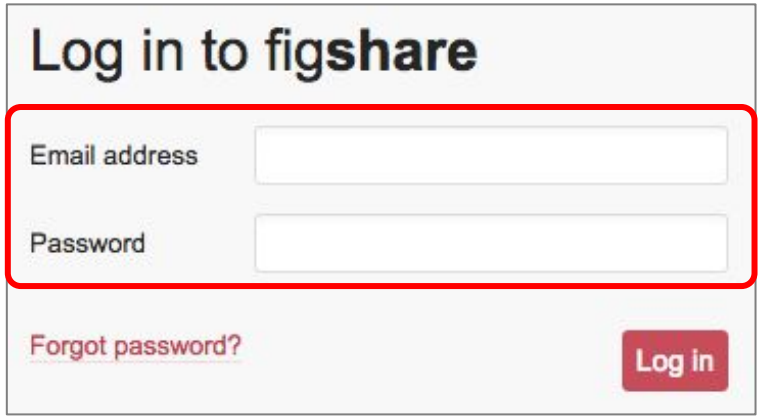


A1.1 the protocol is open, free, and universally implementable

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







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

I1 (meta)data use a broadly applicable language for knowledge representation

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1 <dc:dc xmlns:dc="http://purl.org/dc/elements/1.1/"
  xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
  xsi:schemaLocation="http://www.openarchives.org/OAI/2.0/oai_dc/
  http://www.openarchives.org/OAI/2.0/oai_dc.xsd">
2 <dc:title>Bay of Islands Bottlenose Dolphin Catalogue photos</dc:title>
3 <dc:creator>Rochelle Constantine</dc:creator>
4 <dc:identifier>10.17608/k6.auckland.5417746.v1</dc:identifier>
5 <dc:relation>https://figshare.com/articles/Bay_of_Islands_Bottlenose_Dolp
  hin_Catalogue_photos/5417746</dc:relation>
6 <dc:description>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.&lt;div&gt;&lt;br&gt;&lt;/div&gt;&lt;div&gt;The photograph
  codes are as follows:&lt;br&gt;&lt;div&gt;BOI = Bay of
  Islands&lt;/div&gt;&lt;div&gt;XXX = unique number for each
  dolphin&lt;/div&gt;&lt;div&gt;RS/LS = right side/ left
  side&lt;br&gt;&lt;div&gt;&lt;br&gt;&lt;/div&gt;&lt;div&gt;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.&lt;/div&gt;&lt;/div&gt;&lt;/div&gt;</dc:description>
7 <dc:date>2017-11-12 22:04:08</dc:date>
8 <dc:subject>bottlenose dolphin</dc:subject>
```

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

Design thinking: developing a researcher-centric DMP. eResearch Australasia 2017

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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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Armstrong, Laura; Wharton, Yvette (2017): Design thinking: developing a researcher-centric DMP. eResearch Australasia 2017. figshare. Collection.

https://doi.org/10.17608/k6.auckland.c.3915826.v1

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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

THE UNIVERSITY OF AUCKLAND
Te Whare Wānanga o Tāmaki Makaurau
NEW ZEALAND

AUTHORS

Laura Armstrong
Yvette Wharton

CATEGORIES

- Data Communications

KEYWORD(S)

eResearch Australasia 2017 | DMP | maDMP | Design thinking | Participatory design | RDM | research data management services | Academic Libraries | workshop trainings

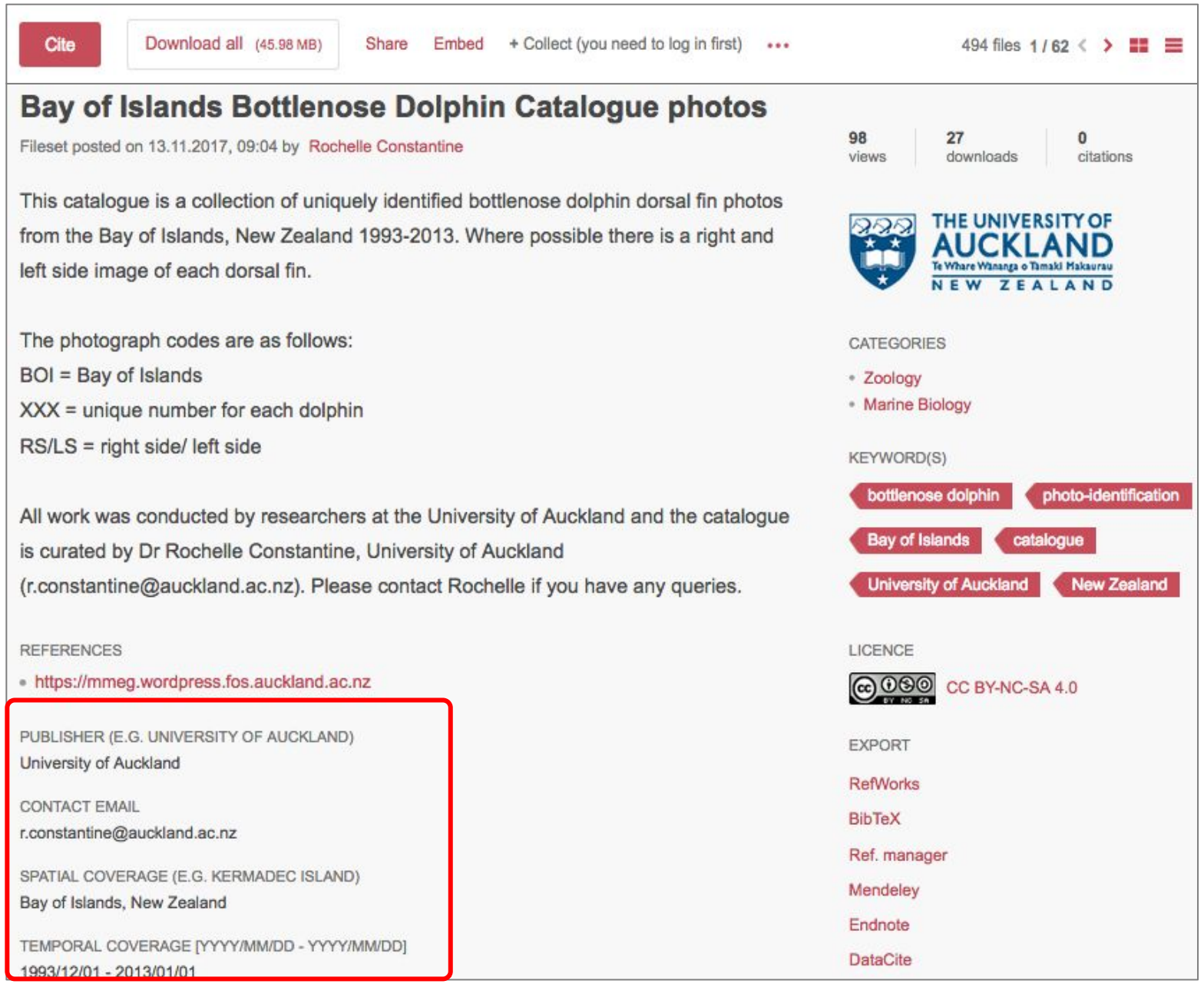
UoA RDM workshop DMP exercise sheet
Yvette Wharton 30/10/2017

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

Design thinking: developing a researcher-centric DMP
Laura Armstrong v 28/10/2017

The Research Data Lifecycle
Cameron McLean 11/03/2016

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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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

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

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NEW ZEALAND

CATEGORIES
- Zoology
- Marine Biology

KEYWORD(S)
bottlenose dolphin | photo-identification | Bay of Islands | catalogue | University of Auckland | New Zealand

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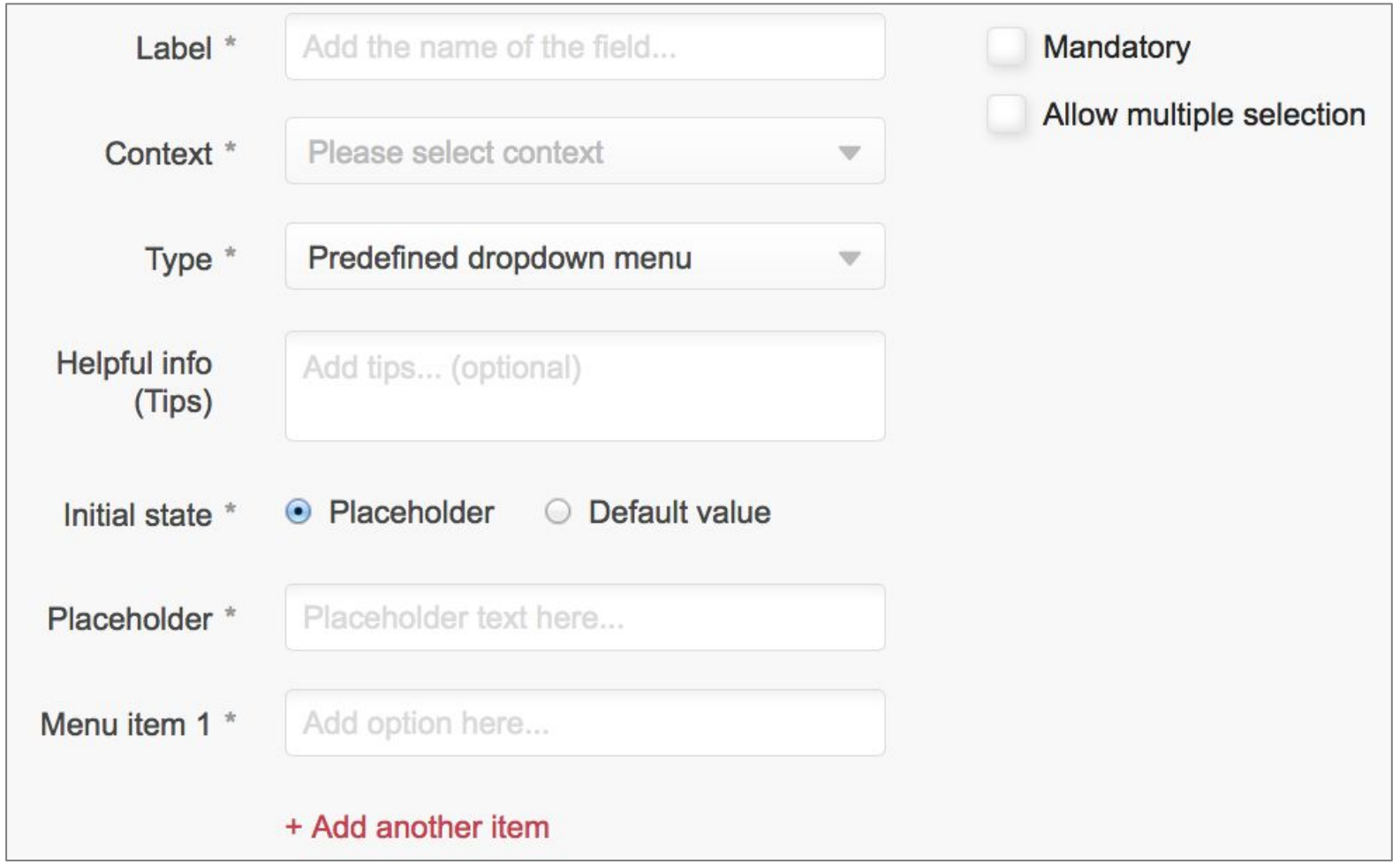

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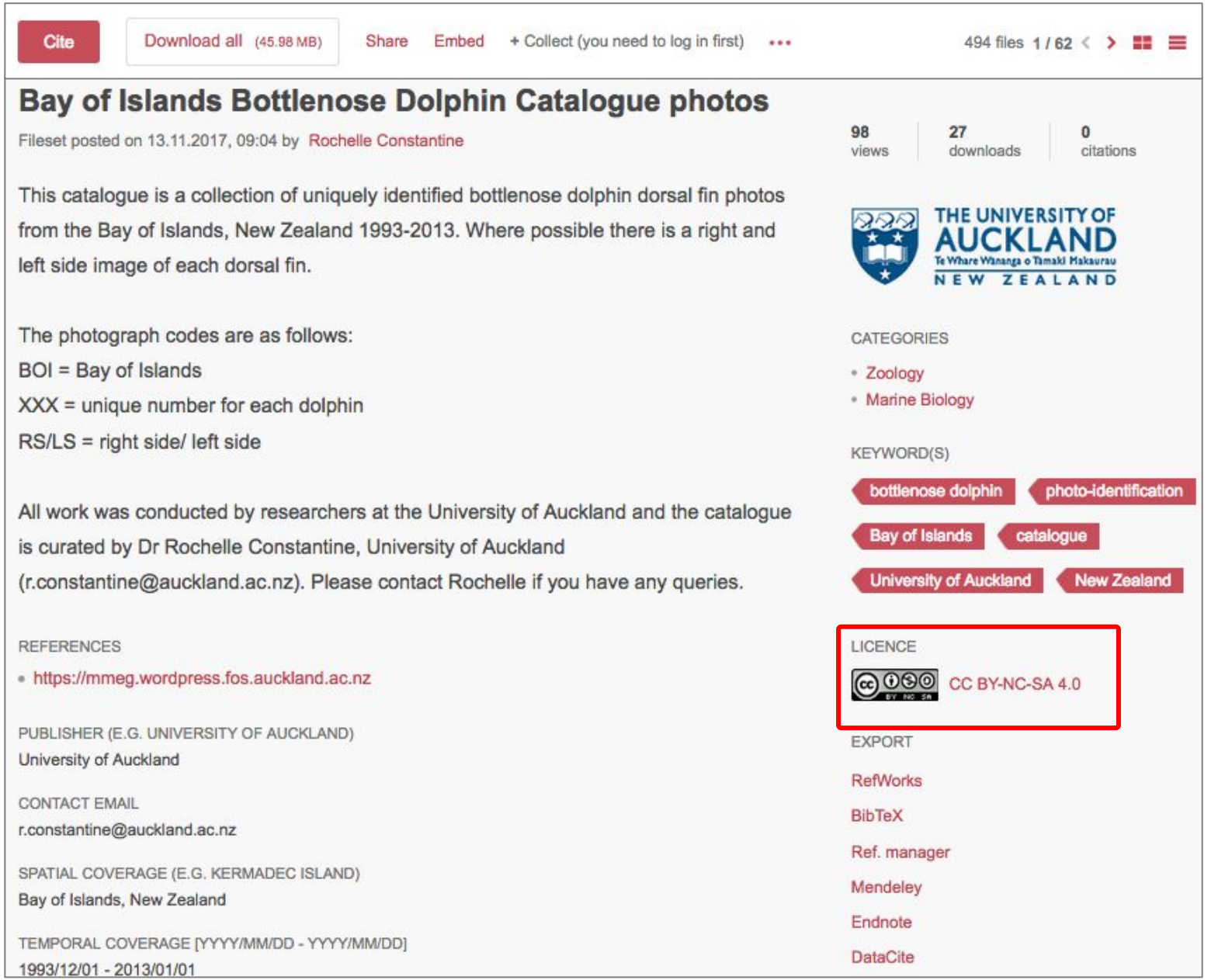

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University of Auckland

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

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NEW ZEALAND

CATEGORIES
- Zoology
- Marine Biology

KEYWORD(S)
bottlenose dolphin | photo-identification | Bay of Islands | catalogue | University of Auckland | New Zealand

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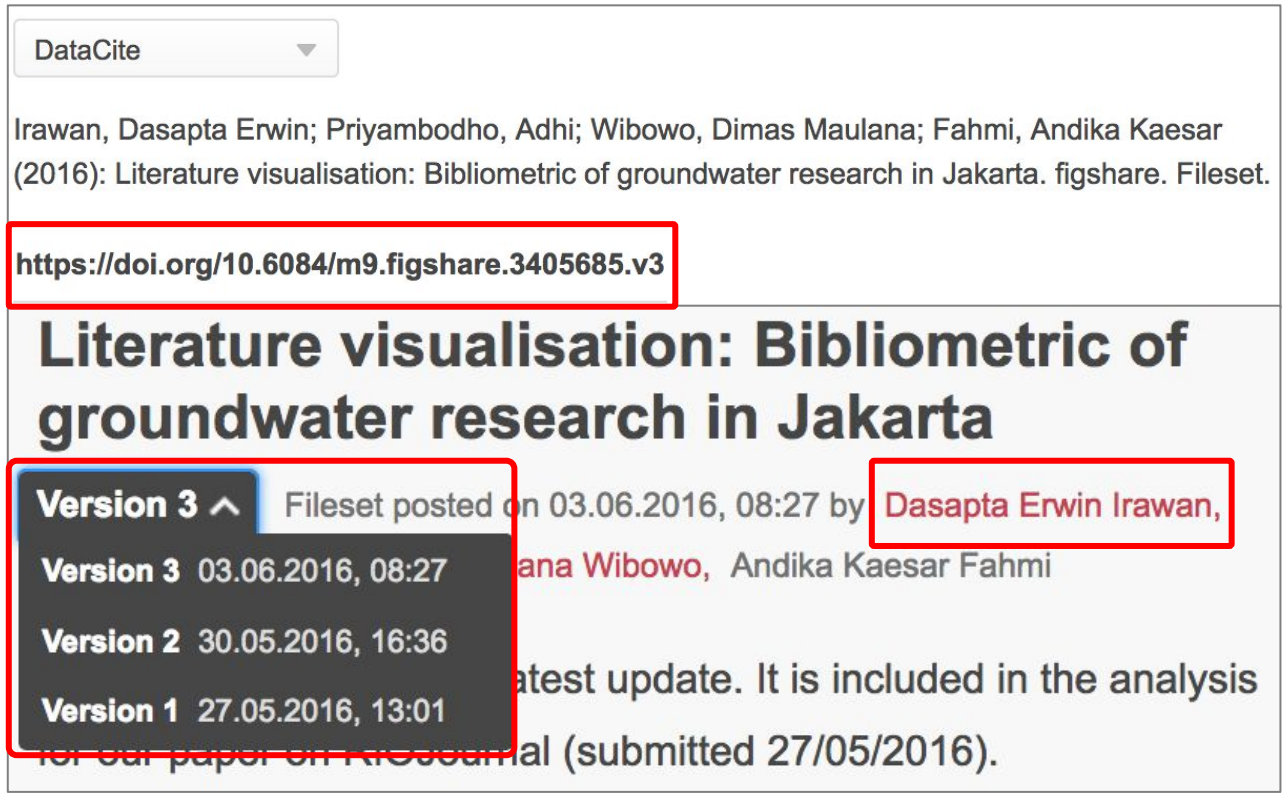

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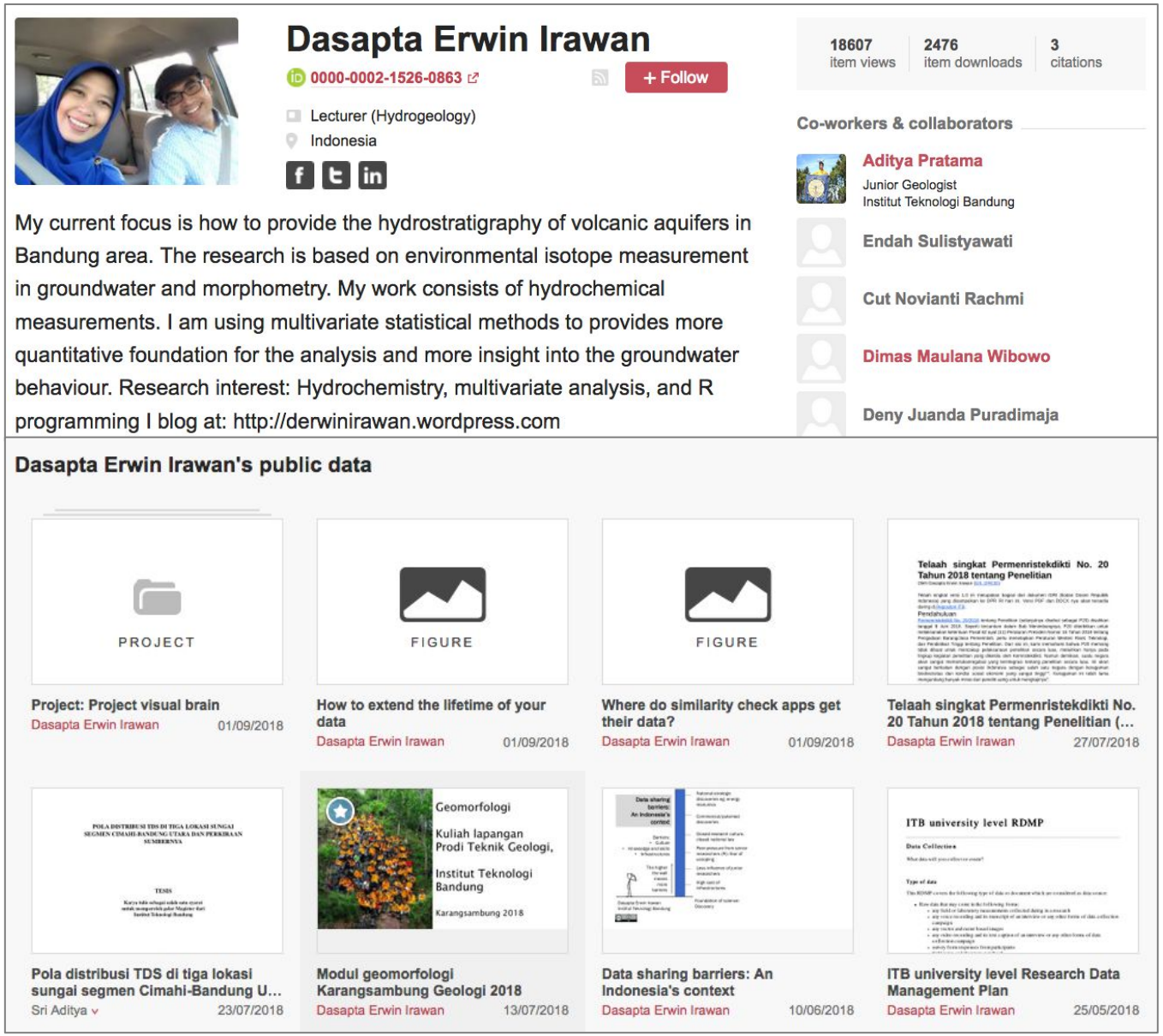

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Indonesia

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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 I blog at: http://derwinirawan.wordpress.com

Co-workers & collaborators

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

Dasapta Erwin Irawan's public data

PROJECT
Project: Project visual brain
Dasapta Erwin Irawan 01/09/2018

FIGURE
How to extend the lifetime of your data
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FIGURE
Where do similarity check apps get their data?
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Karangsambung 2018
Modul geomorfologi Karangsambung Geologi 2018
Dasapta Erwin Irawan 13/07/2018

Data sharing barriers: An Indonesia's context
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ITB university level RDMP
Data Collection
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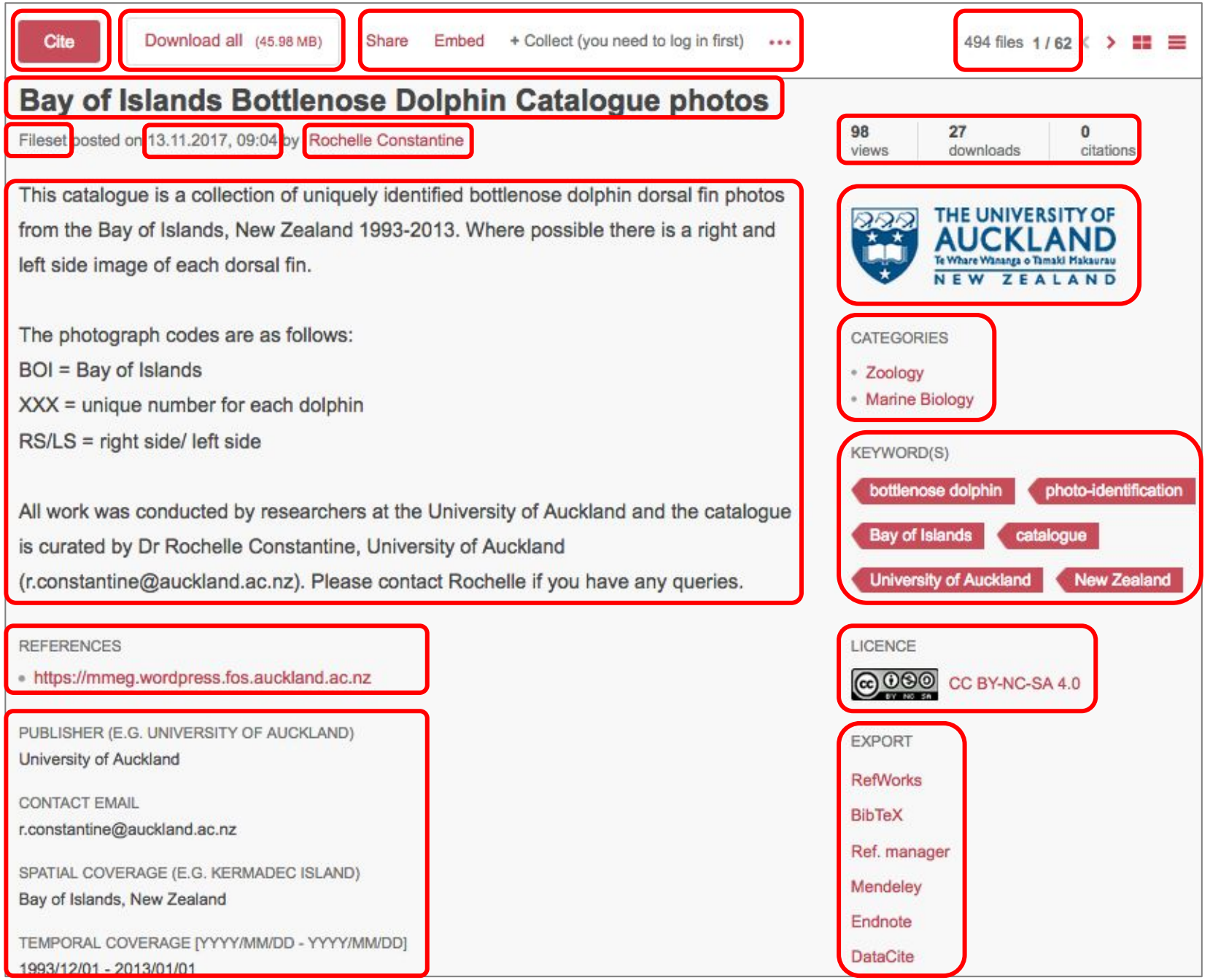
Tuning the Collapse Transition of Weakly Charged Polymers by Ion-Specific Screening and Adsorption of elements

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

F2 data are described with rich metadata



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

ID	***Property***	***Obligation***
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

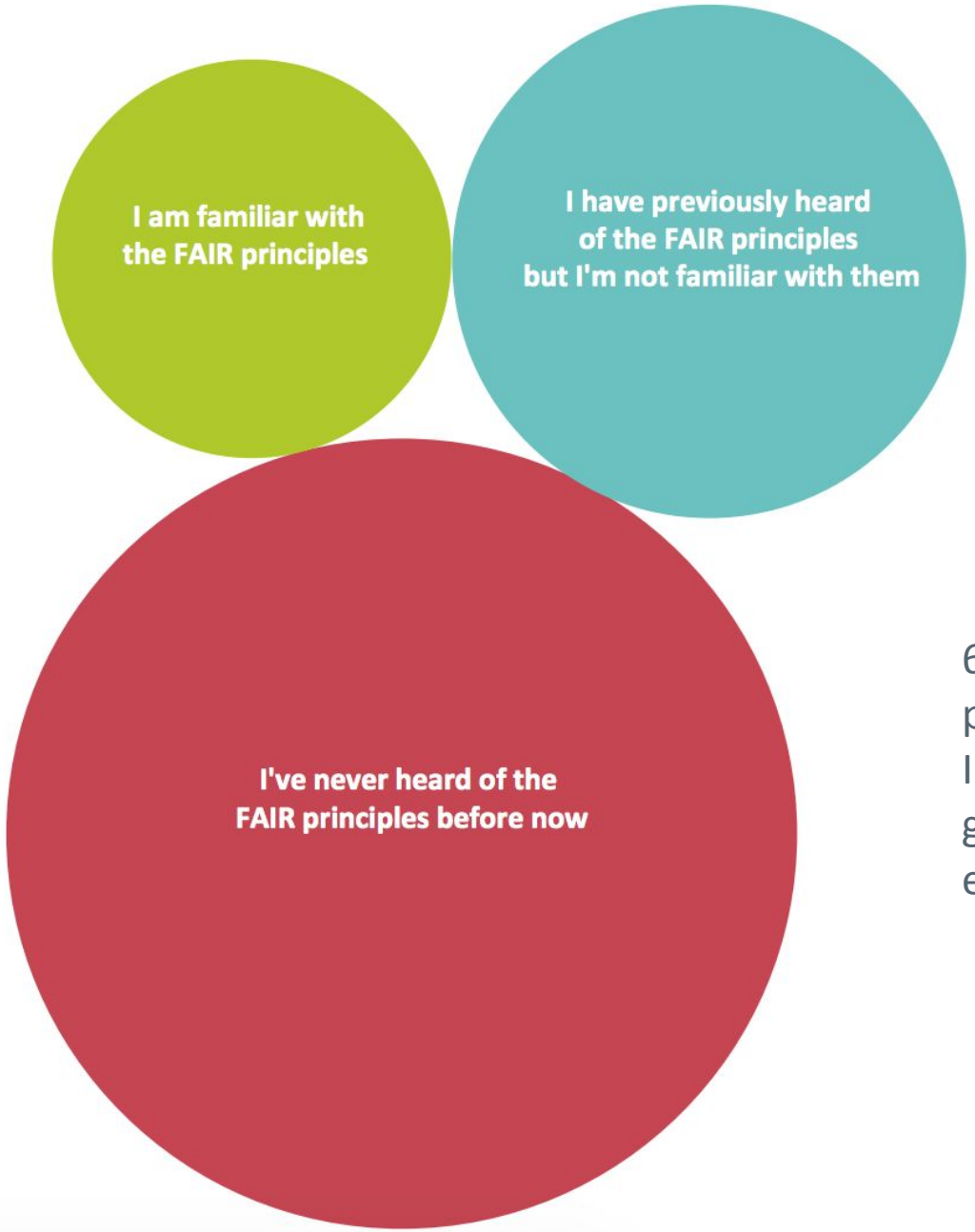
Open data survey and feedback on FAIR

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

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).

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