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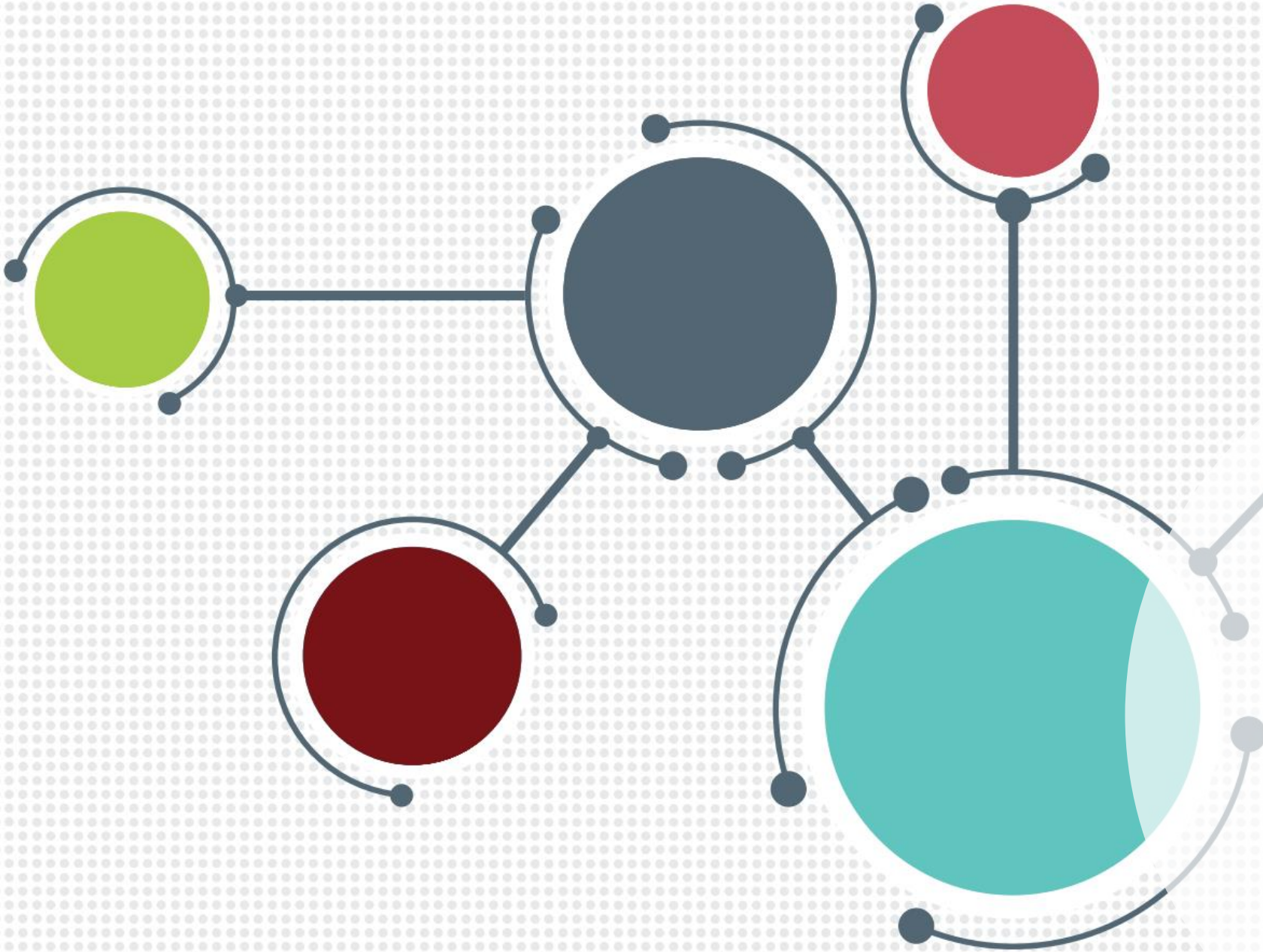
The State of Open Data 2017



Step 1. Getting the files on the web

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2	E0	16/08/14	Arsenal	Crystal Palace	2	1	H	1	1	D	J Moss	14	4	6	2	13	19	9	3	2	2	0	1	1.25	6.5	15
3	E0	16/08/14	Leicester	Everton	2	2	D	1	2	A	M Jones	11	13	3	3	16	10	3	6	1	1	0	0	3.2	3.4	2.4
4	E0	16/08/14	Man United	Swansea	1	2	A	0	1	A	M Dean	14														
5	E0	16/08/14	QPR	Hull	0	1	A	0	0	D	C Pawson	19														
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7	E0	16/08/14	West Brom	Sunderland	2	2	D	1	1	D	N Swarbrick	10														
8	E0	16/08/14	West Ham	Tottenham	0	1	A	0	0	D	C Foy	18														
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04.08.2015, 12:53 (GMT) by David Geffin, Adrien De Sutter

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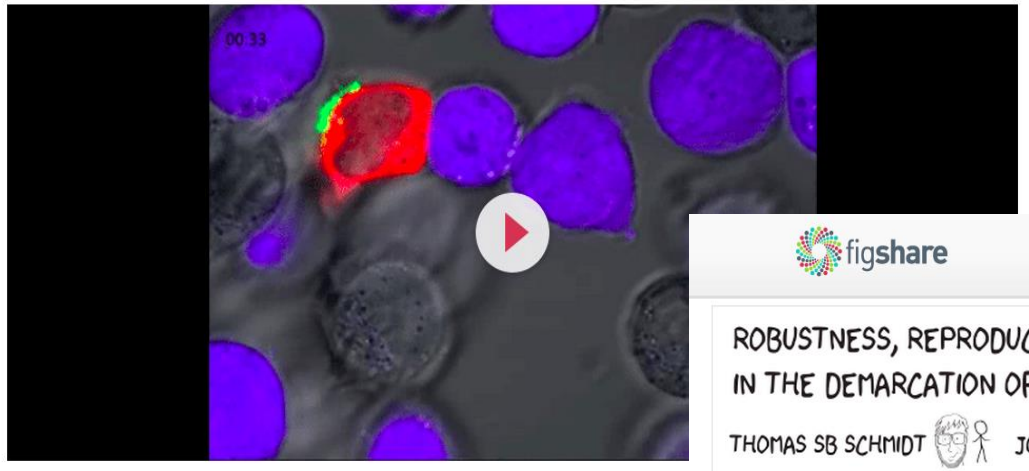

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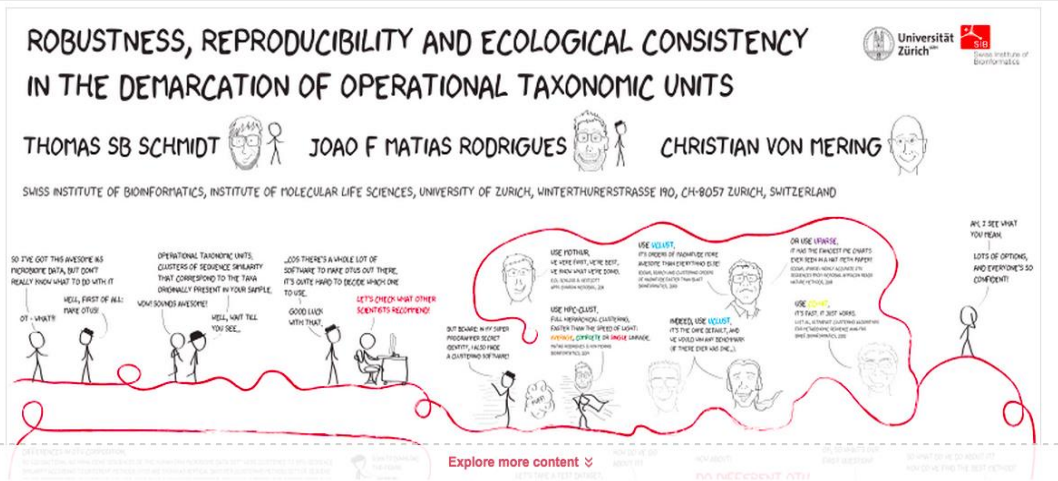

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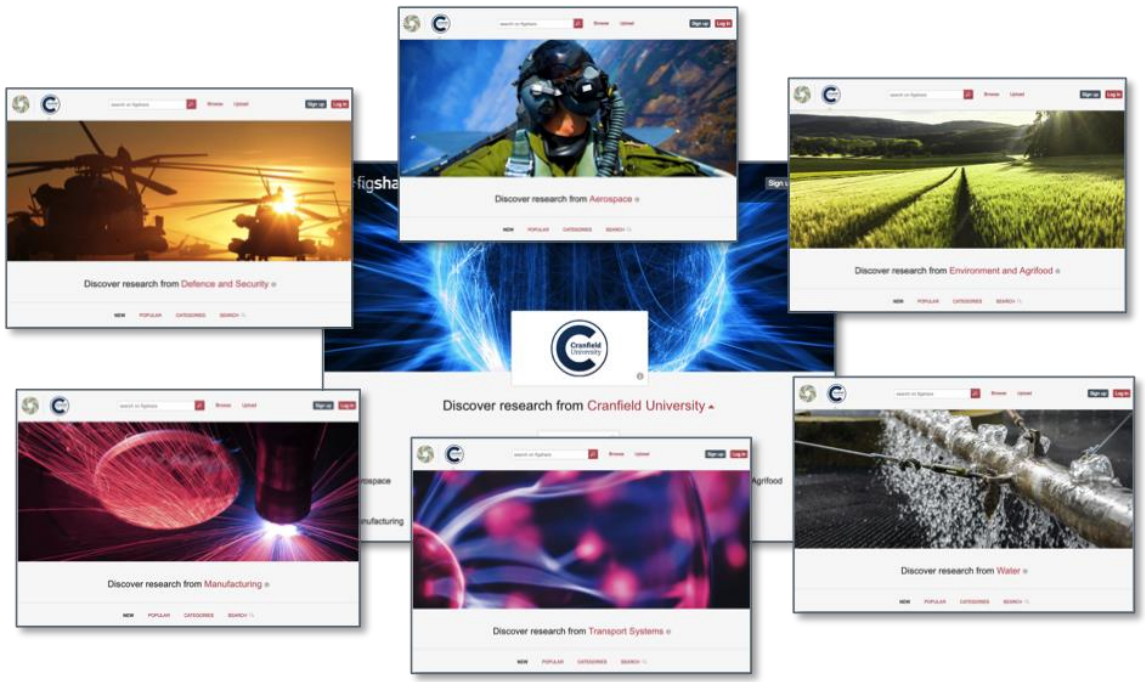
OTU robustness, reproducibility & ecological consistency

Categories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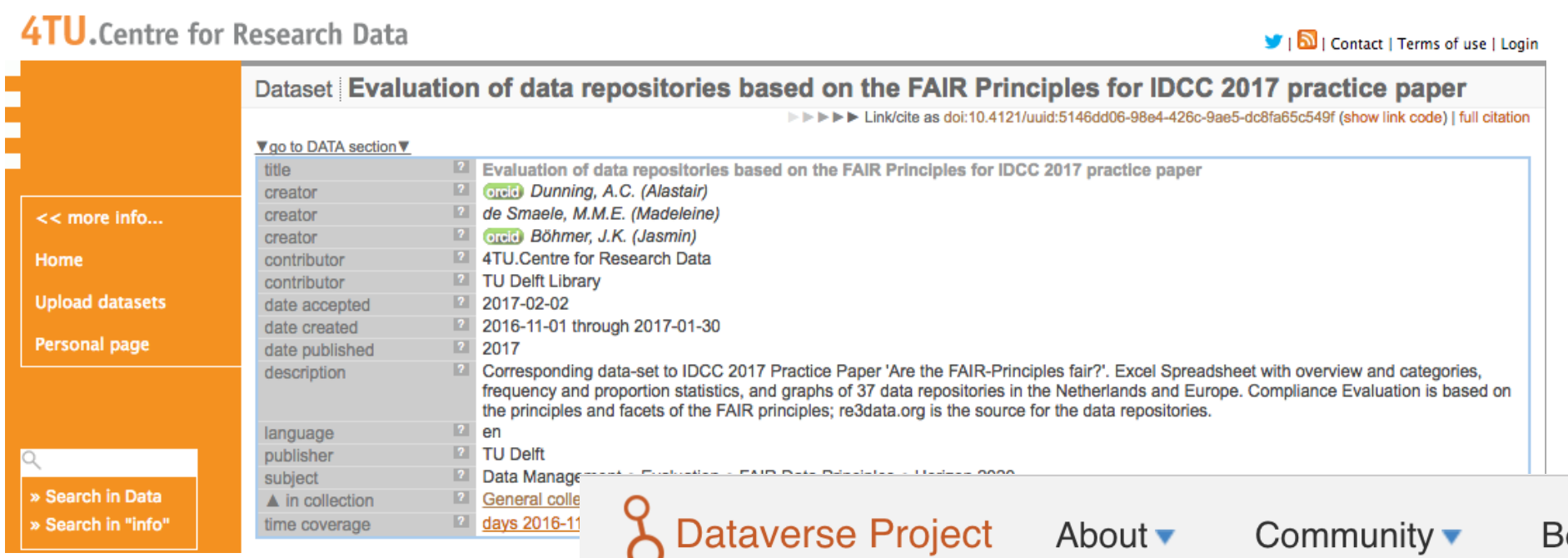
Some of team figshare's beliefs

- 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

FAIR



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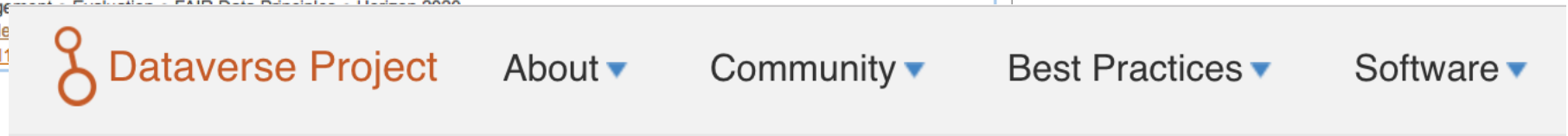

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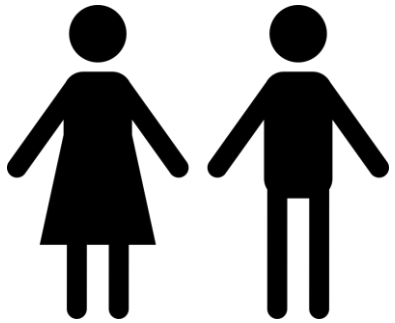
A Comparative Review of Various Data Repositories

https://docs.google.com/spreadsheets/d/1KptHzDHIdB3s1v5m1mMwphcwXhOVWdkRYdjEWW1dqrE/edit#gid=355072175



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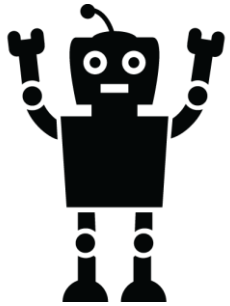

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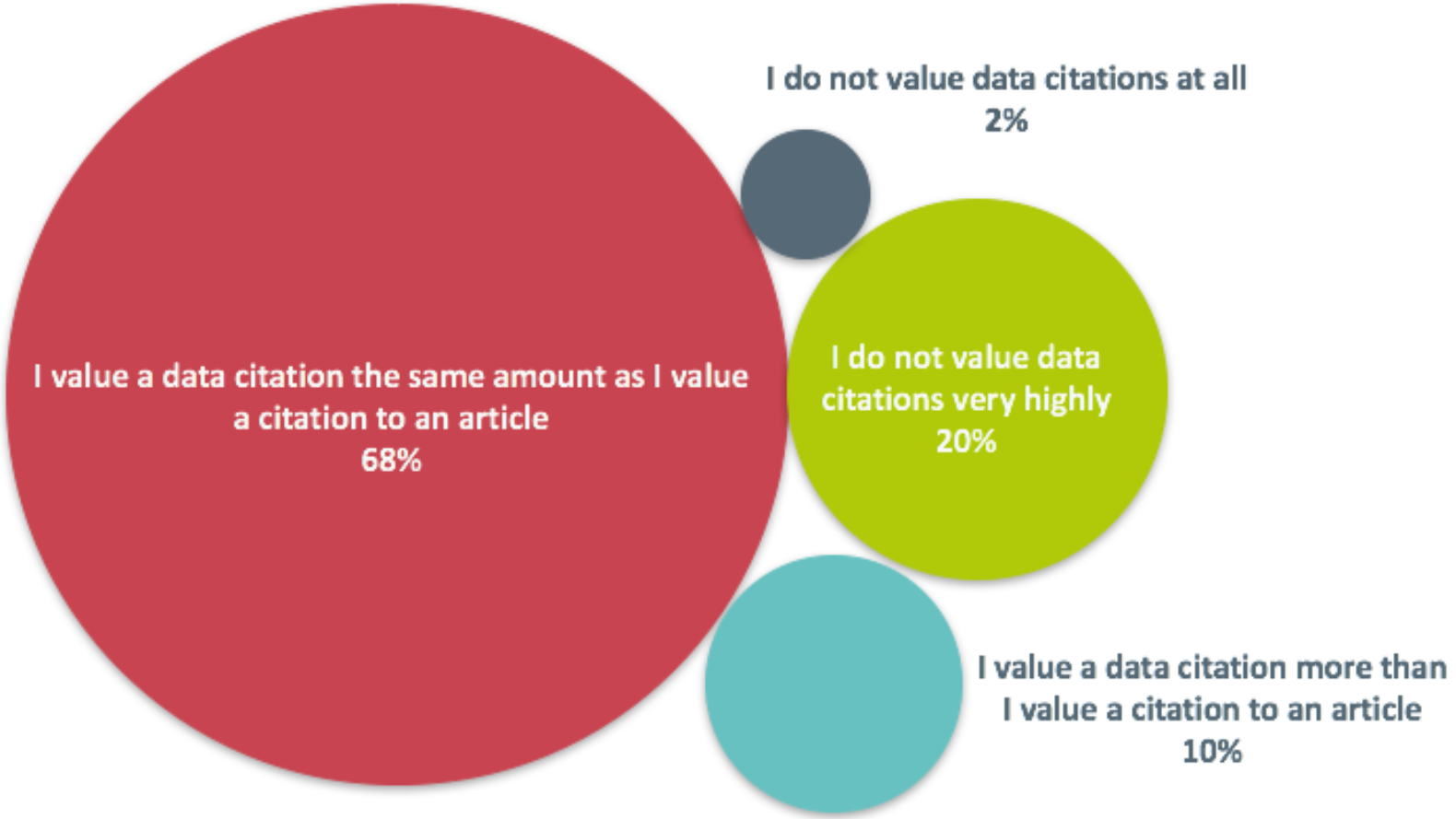
The State of Open Data

The State of Open Data 2016



Treadway, Jon; Hahnel, Mark; Leonelli, Sabina; Penny, Dan; Groenewegen, David; Miyairi, Nobuko; Hayashi, Kazuhiro; O'Donnell, Daniel; Science, Digital; Hook, Daniel (2016): The State of Open Data Report. figshare. https://dx.doi.org/10.6084/m9.figshare.4036398.v1

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PIVlab - Time-Resolved Digital Particle Image Velocimetry Tool for MATLAB

Version 6 25.03.2015, 21:17 by William Thielicke, Eize J. Stamhuis

PIVlab is a time-resolved particle image velocimetry (PIV) software that does not only calculate the velocity distribution within particle image pairs, but can also be used to derive, display and export multiple parameters of the flow pattern. A user-friendly graphical user interface (GUI) makes PIV analyses and data post-processing fast and efficient.
Screen-capture video of the tool:
http://vimeo.com/10090907
Example analyses & videos can be found on the PIVlab website:
http://PIVlab.blogspot.com

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1

CATEGORIES

- Environmental Science
- Limnology
- Oceanography
- Physiology
- Cell Biology

William Thielicke

0000-0001-8866-9769

Research assistant / PhD student in Aerospace Engineering
Bremen, Germany

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Co-workers & collaborators

Eize J. Stamhuis

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Public Funder
Jean-Claude Burgelman, European Commission

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Robert Kiley & David Carr, Wellcome Trust

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Mark Hahnel, Figshare

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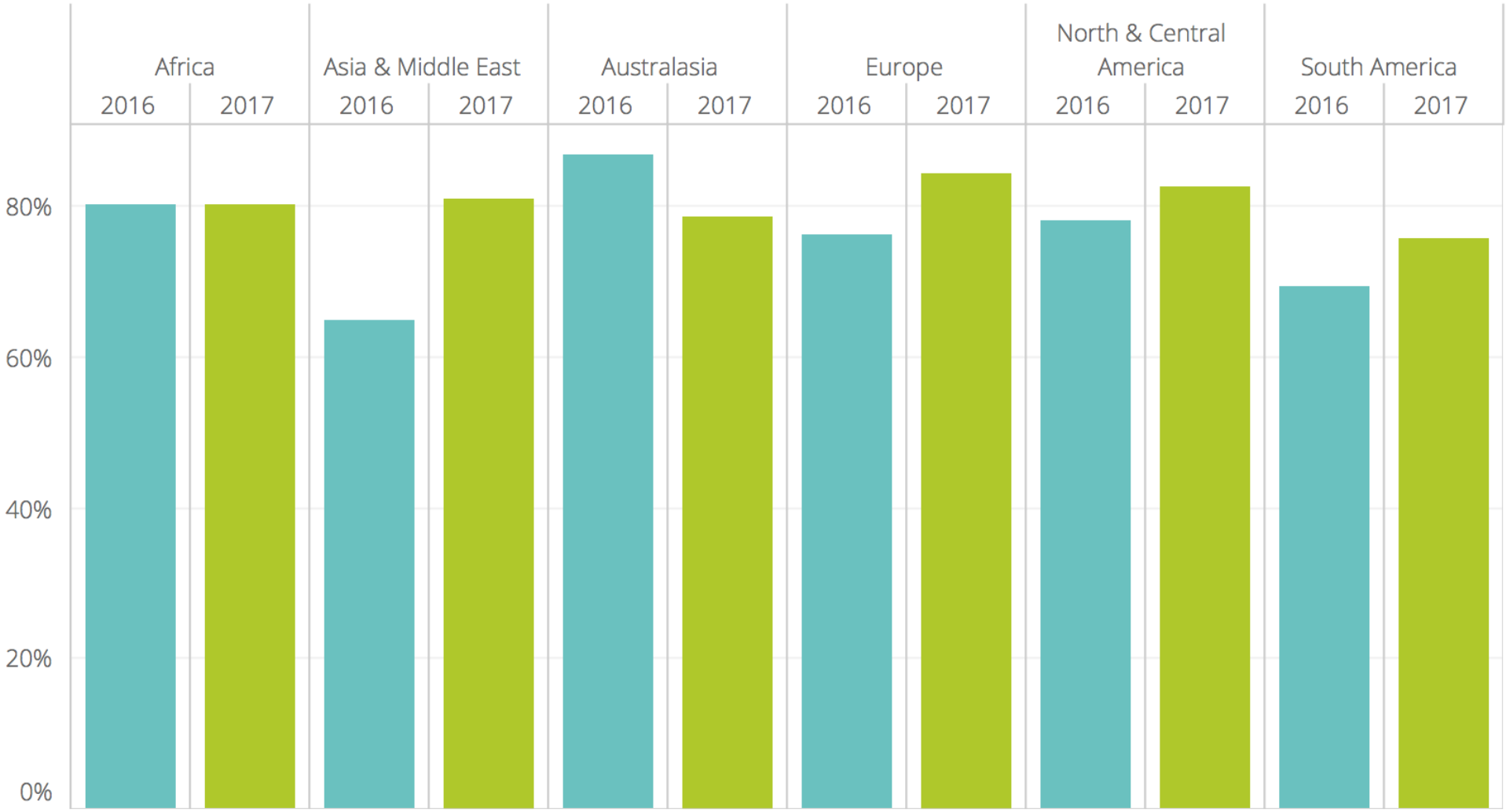
Researchers awareness of Open Data



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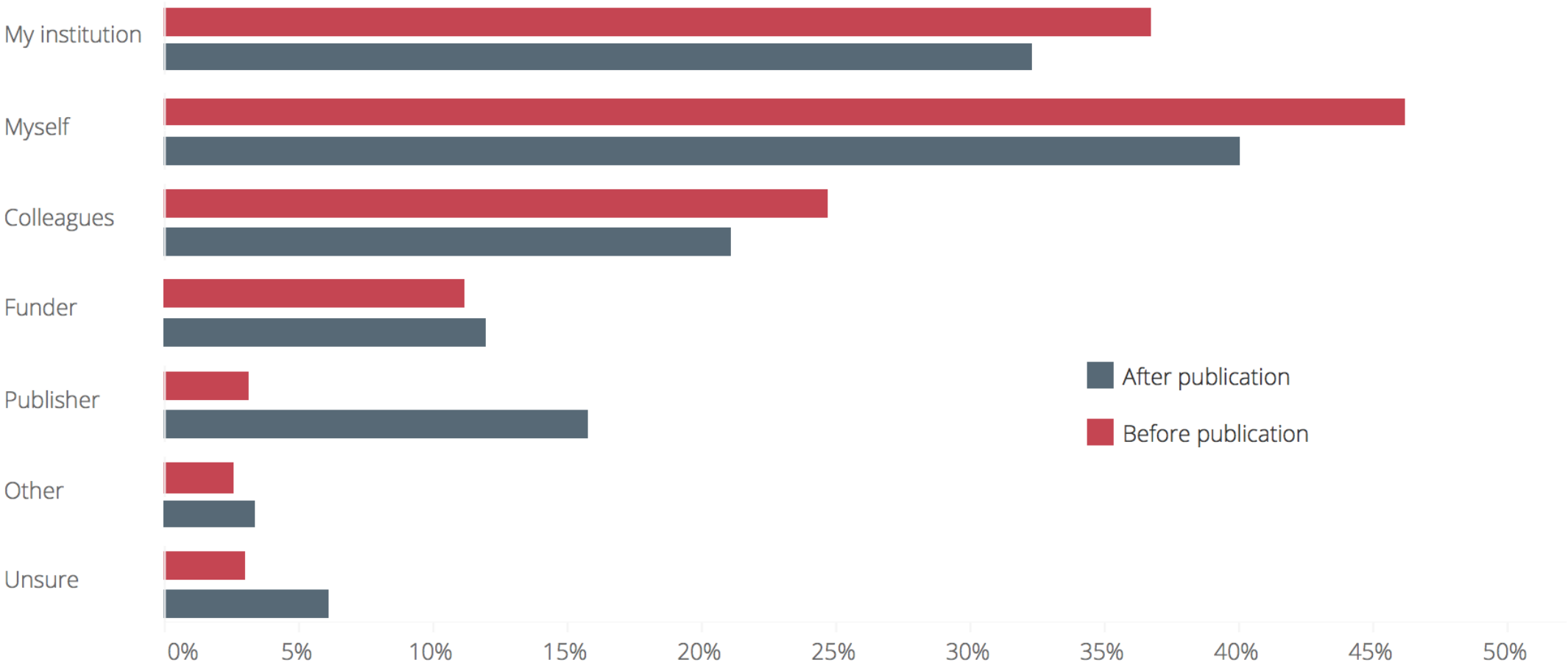
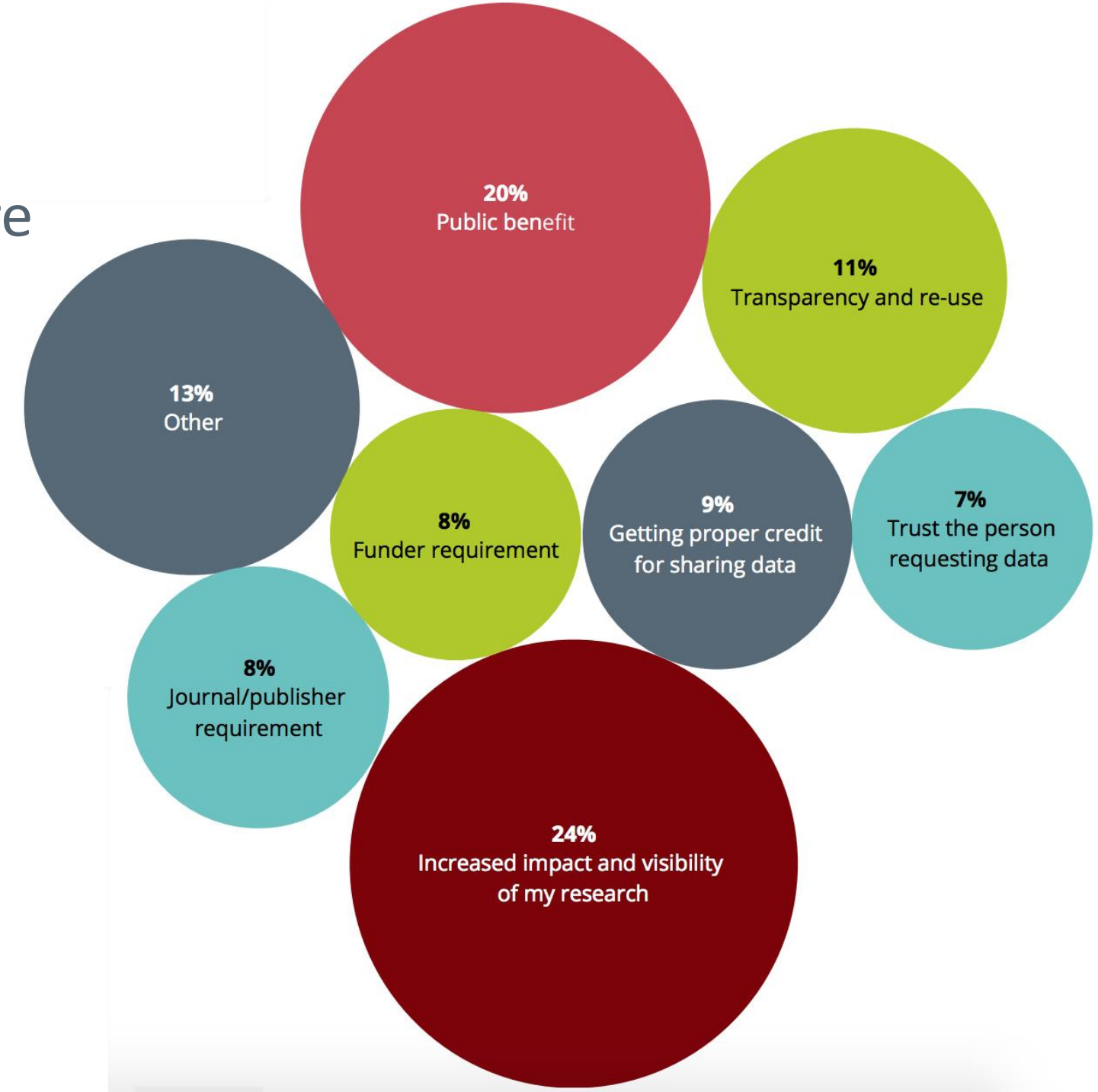


What motivates researchers to share the data?



Other Takeaways

Status

- 79% of researchers have made data openly available
- Majority of researchers support a national open data mandate

Incentives

- Researchers are most motivated to share data by increasing their profile and doing things for the public benefit, transparency and re-use over publisher and funder mandates
- 77% of researchers value a data citation as much or more than an article citation (validating last years findings)
- 92% of researchers motivated to share their data if it leads to citation

Education

- Majority of researchers think they don’t have a publisher, funder or institutional mandate to share data
- Majority of researchers think they own their data
- Majority of researchers don’t understand creative commons licenses
- Only approx 25% of researchers look to their library for advice on data sharing
- Majority of researchers still using physical media to store and archive their data
- 83% of reported data loss happened as a result of using physical media

2 Out of 3 'Aint Bad.

When Will Open Research Education Make it Through to Those Generating the Research?

Step 2. Institutional education as a priority?

Megan Hardeman

0000-0002-1911-7503

Engagement Manager at figshare in Marketing Communications

London

figshare · Neuroscience

Tips for early ca… on making d…

An interview with Kirstie Whit…

Key Points

- **Trust, but verify**
  You should be able to check my work using the data.
- **GitHub & figsharet**
  I store my data on both but use figshare for persisten…
- **Sharing private links**
  Using these links to share data with reviewers.
- **Make what you can available**
  Start with data you own, slides, and posters.

About Kirstie

I study adolescent brain development, so I put teenagers in MRI scanners and look at how the brain changes through development. I'm trying to understand what a typically-developing brain looks like and what a brain at risk of developmental health disorders looks like. This work is part of the Neuroscience in Psychiatry Network consortium.

The ultimate goal would be to try and identify people who are at risk of having symptoms of depression or schizophrenia, which tend to have their first onsets in adolescence. We think it's a developmental disorder, so it's something that continues to grow and at some point tips over into symptoms.

We believe there are early-life predictors, so we look at the brain to try and see if we can identify those people. Ideally, we would like to be able to provide treatment to prevent the first set of symptoms.

figshare · Research Data Analysis

Describing data and the benefit of making data open and available

Richard Ferrers, Monash University

I live in Melbourne and I work here at Monash on the ANDS (Australian National Data Service) project most of the time and spend the other time researching. I finished my PhD about 3-4 years ago: I studied how and why people adopted smartphones and why they adopted from a feature phone to a smartphone.

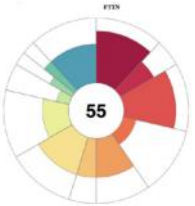
I collected all these interviews and I had 100,000 words of transcript that I wanted to be part of the output of the project. So when I did the ethics approval, I was told I wasn't allowed to share those transcripts. So I was quite disappointed because I thought I would go to a lot of trouble to collect this data but no one would see it.

> " Now I have a very good appreciation for describing data and how you can make the description useful to other people and what should be contained within the description. "

Even before I worked at ANDS, I was very interested in this ability to make extra use of work that I have already done. It took me hundreds of hours to just type them up, let alone share them. Interviews were normally half an hour to an hour so when they're transcribed word for word and analysed, there's a lot of really

interesting things that com… one to ever see it, I felt that…

I had used something like … know, the blog and the clo… real concept of the metada… about through my work h… have a very good appreciat… and how you can make th… other people and what sho… the description.



Value Flower - a multi-dimensior…

At the moment, I'm writing … big project going on in Au… AUS$40-50 billion to bring … eryone in Australia. It's call… band Network (NBN).

I always had this interest in … content available. figshare … normally did and it just mad… running this analysis about the NBN and I ended up

figshare · Particle Physics

The value of a DOI and an open p… for sharing data

Tom Whyntie, Queen Mary University of London

I am a particle physicist. I did my PhD on the Large Hadron Collider's search for dark matter, which we didn't find, but we still haven't, so that's fine.

I'm now the Public Engagement Fellow for The Science and Technology Facilities Council and one of the major remits of that, which also ties in with some of the work that I do with the (Tim) Peake collaboration which does all the computing for the Large Hadron Collider, is about getting people engaged in actually doing research rather than just hearing about it or having it told to people online.

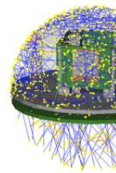
> *" The key thing for me is the DOIs (digital object identifiers) which allow you to then cite that data in publications. "*

One of the major focuses for the work that we do is something called the Institute for Research in Schools, which is a charitable trust that offers school students and teachers the opportunity to do research. As you can imagine, a big barrier to that is access to facilities and equipment to start with, and even if you get past those things, you have issues with data access, data storage, and data management. And so, the reason I personally find figshare so exciting is that it does offer this open platform for sharing data and for collaborating with others without barriers.

The key thing for me is the DOIs (digital object identifiers) which allow you to then cite that data in

publications, which is the … Institute for Research in Sch… publishing peer reviewed co… see figshare and repositories … key tools that our students, a… use to collaborate and do be…

I'm primarily uploading dat… subject of a current paper o… of the embargo period. It's … and really easy to share. Wh… ing the DOI that makes it cit… that you then share. It make… not like some it's just a Dropb… quite important when you're … or other research groups tha… pository that you can then a… supplementary information y… upload .zip files. Most of our… tors is in ASCII text format, w… cause it's easy to read, but yo… pop it onto figshare, and it's … download it and do what the…



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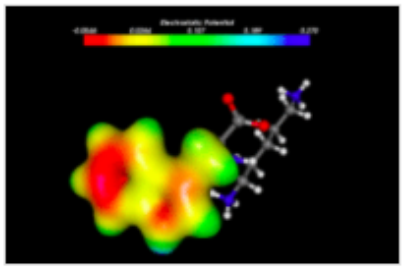

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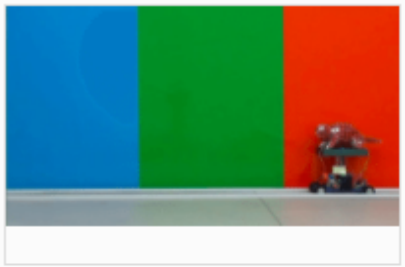

Mechanical Chameleon through Dynamic Real-Time Plasmonic Tu...

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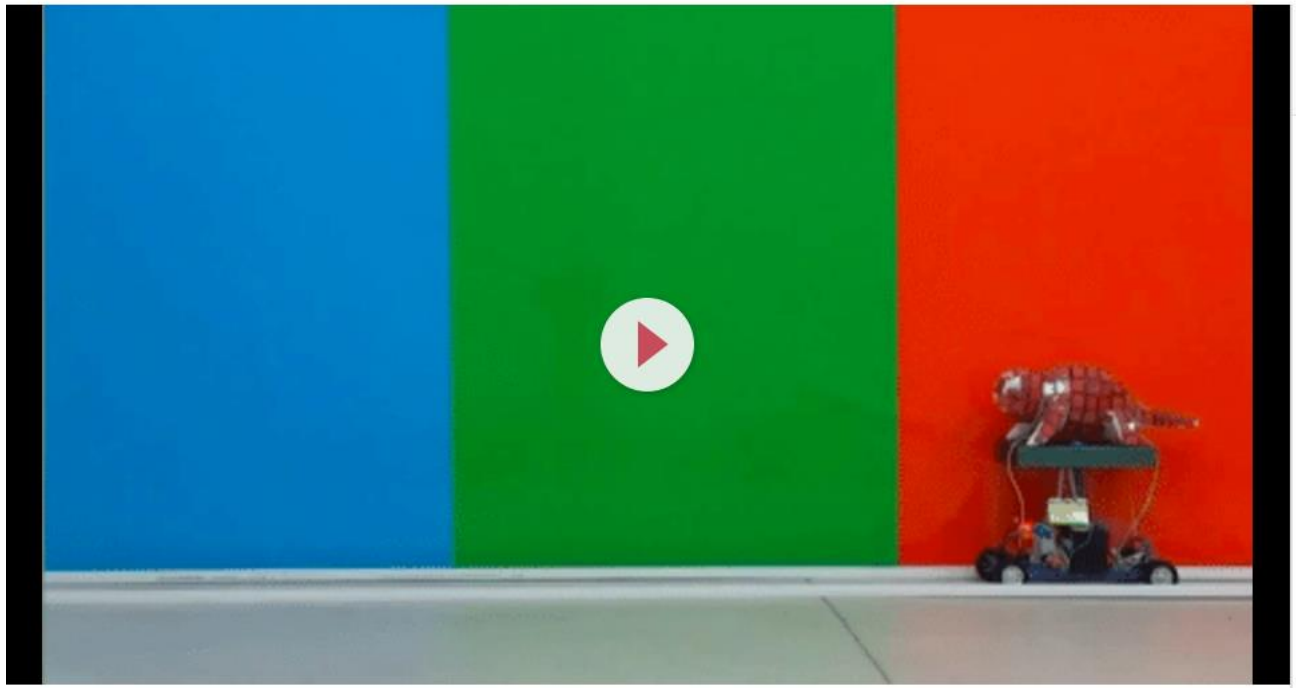

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Mechanical Chameleon through Dynamic Real-Time Plasmonic Tuning

15.02.2015, 13:40 by Hua Wang Xien, Xu Fan, Xu Wang

The development of camouflage methods, often through a general

CATEGORIES

- Cheminformatics and Quantitative Structure-Activity Relationships
- Chemical Thermodynamics and Energetics
- Complex Physical Systems
- Geophysics
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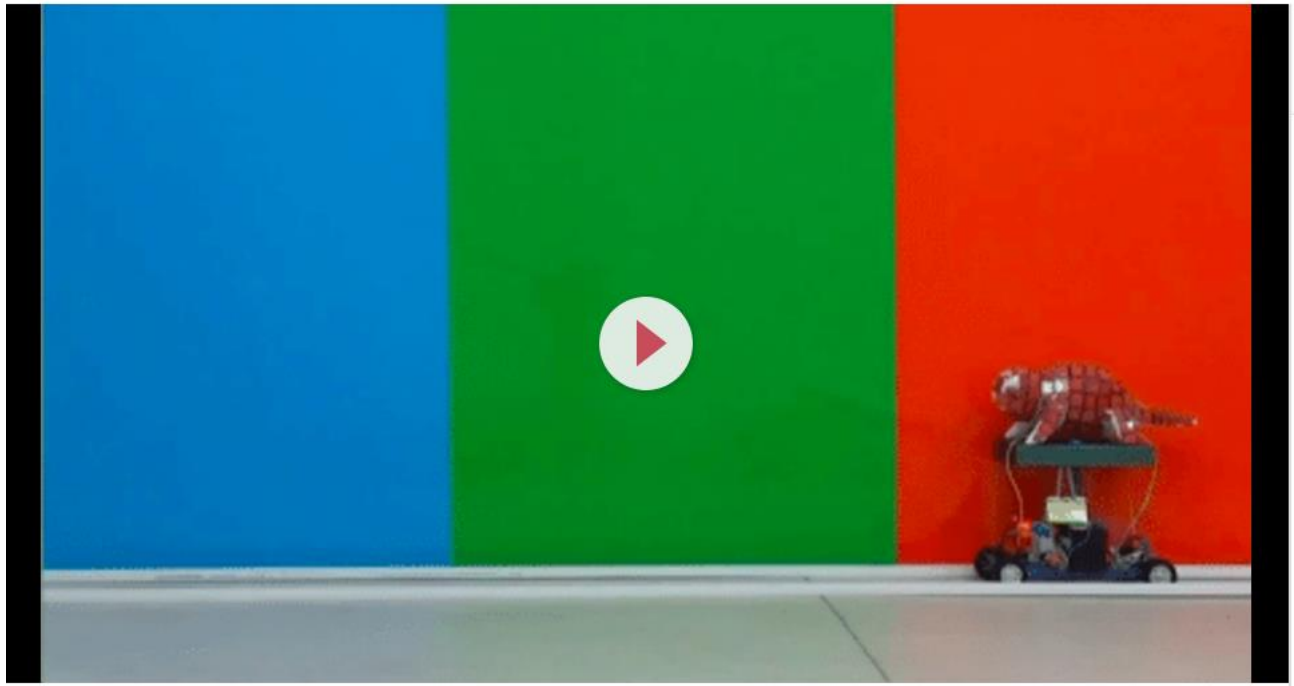

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- Complex Physical Systems
- Geophysics
- Biophysics

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Mechanical Chameleon through Dynamic Real-Time Plasmonic Tuning

Authors

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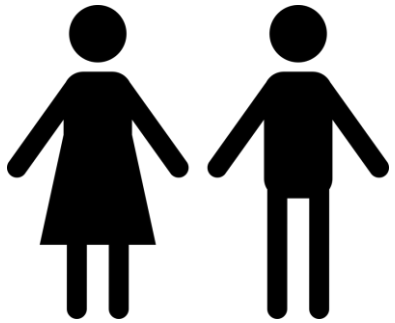
Description

The development of camouflage methods, often through a general resemblance to the background, has recently become a subject of intense research. However, an artificial, active camouflage that provides fast response to color change in the full-visible range for rapid background matching remains a daunting challenge. To this end, we report a method, based on the combination of bimetallic nanodot arrays and electrochemical bias, to allow for plasmonic modulation. Importantly, our approach permits real-time light manipulation readily matchable to the color setting in a given environment.

B *I* U X_2 X^2



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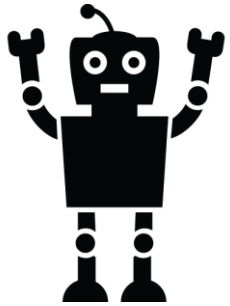

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