



OPEN SCIENCE

WHY IT CAN BENEFIT YOUR RESEARCH

@guillaumelobet 
www.guillaumelobet.be

 <http://bit.ly/open-inbo>

1

QUANTIFYING SCIENCE

2

OPEN YOUR SCIENCE

3

BUILD UP YOUR SCIENTIFIC PROFILE

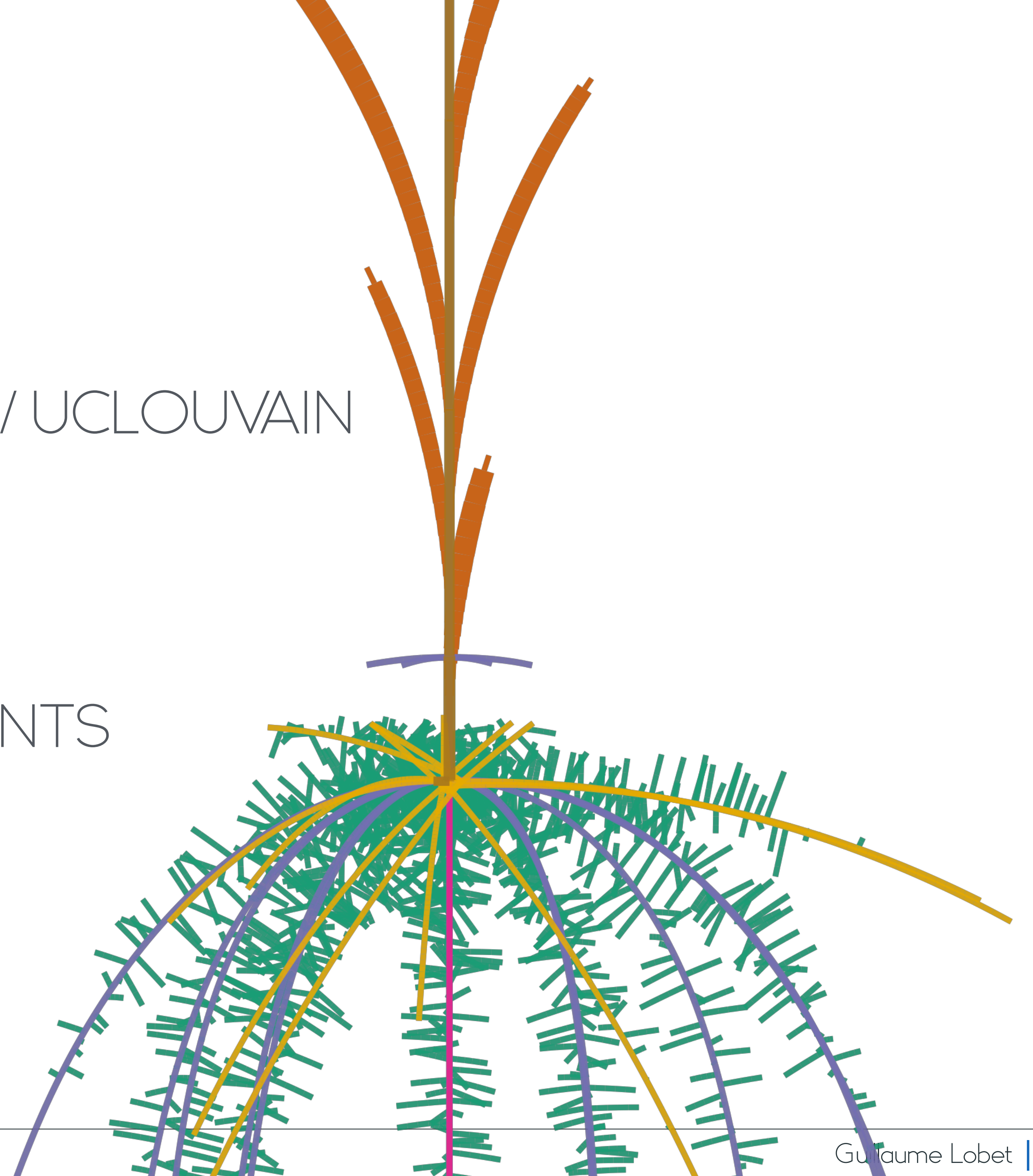
4

CONNECT WITH OTHERS

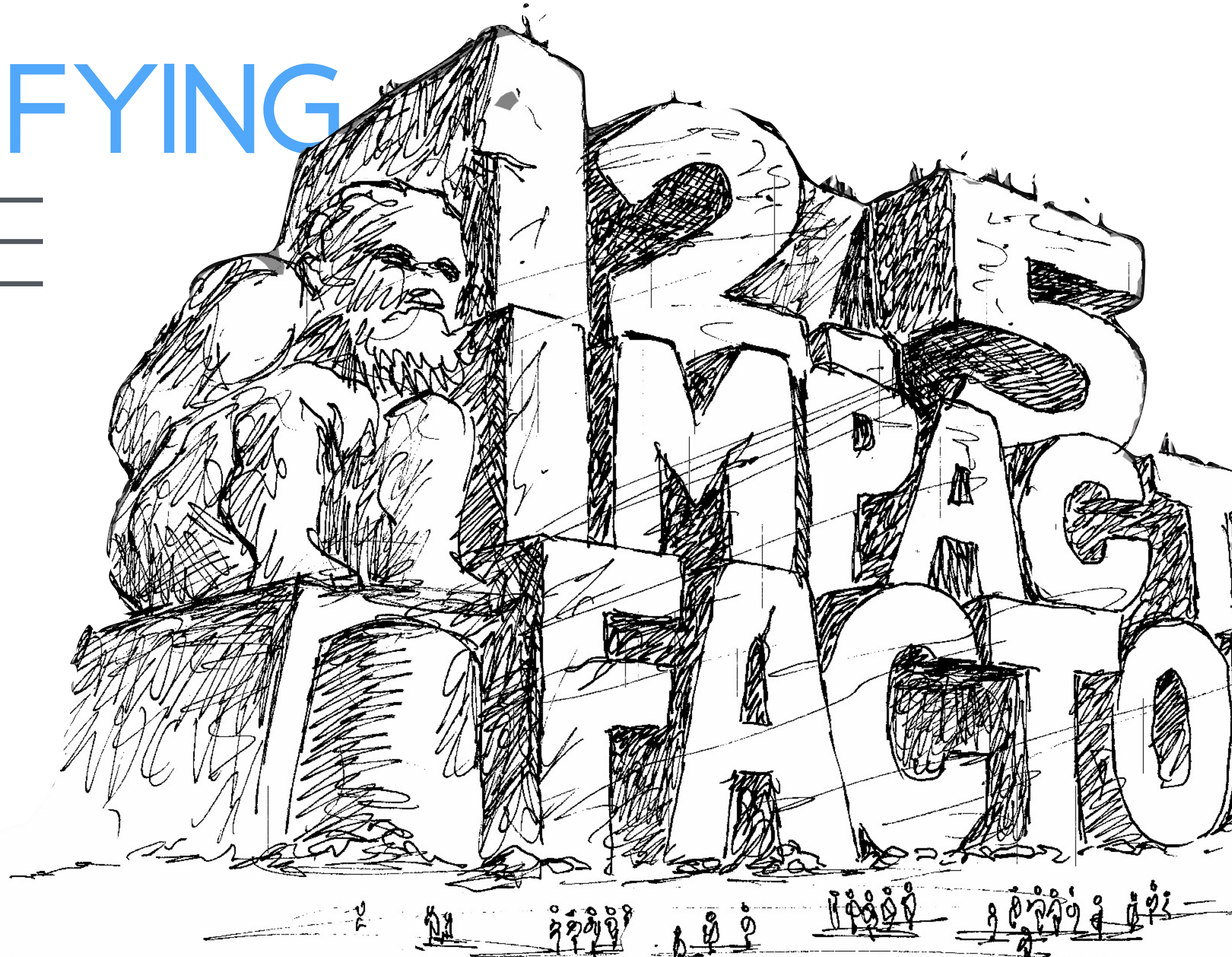


WHO AM I?

- ASSISTANT PROFESSOR
- FORSCHUNGSZENTRUM JULICH/ UCLouvain
- PLANT MODELLING
- IMAGE ANALYSIS
- WATER MOVEMENT IN SOIL-PLANTS



1 QUANTIFYING SCIENCE



PRODUCTIVITY METRICS

WHY? EVALUATIONS, GRANTS AND NEW POSITION

JOURNAL
LEVEL



IMPACT FACTOR

SCIENTIST
LEVEL



PAPERS
CITATIONS
H-INDEX

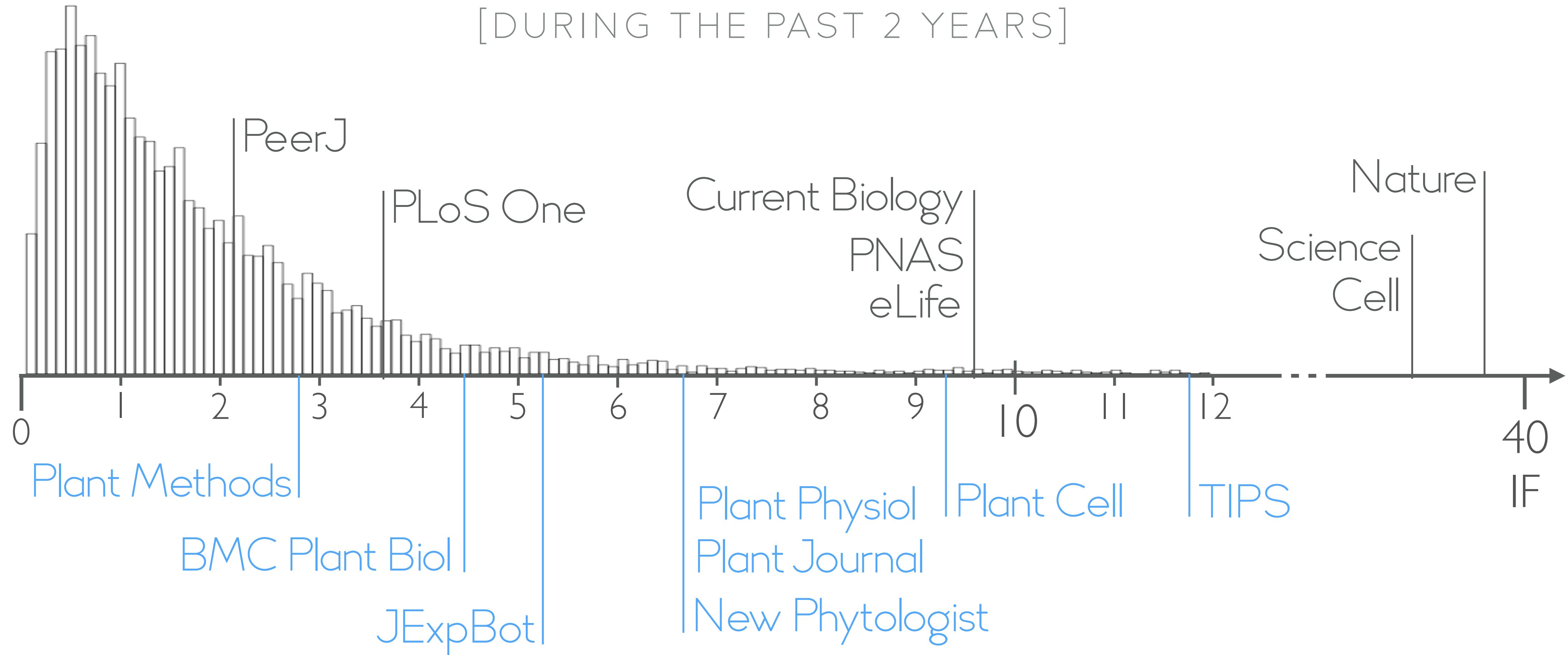
PAPER
LEVEL

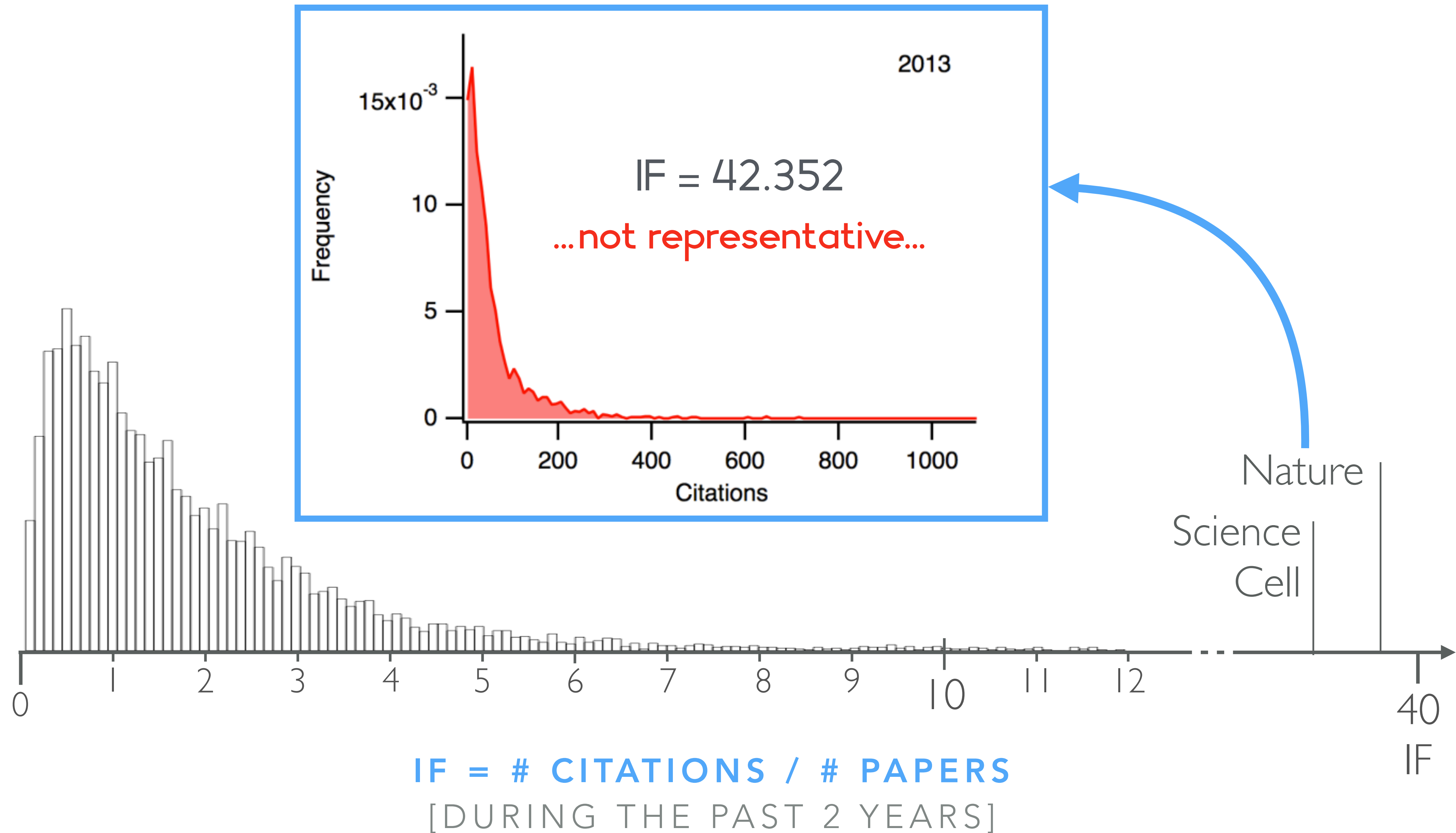


CITATIONS
ALTMETRICS

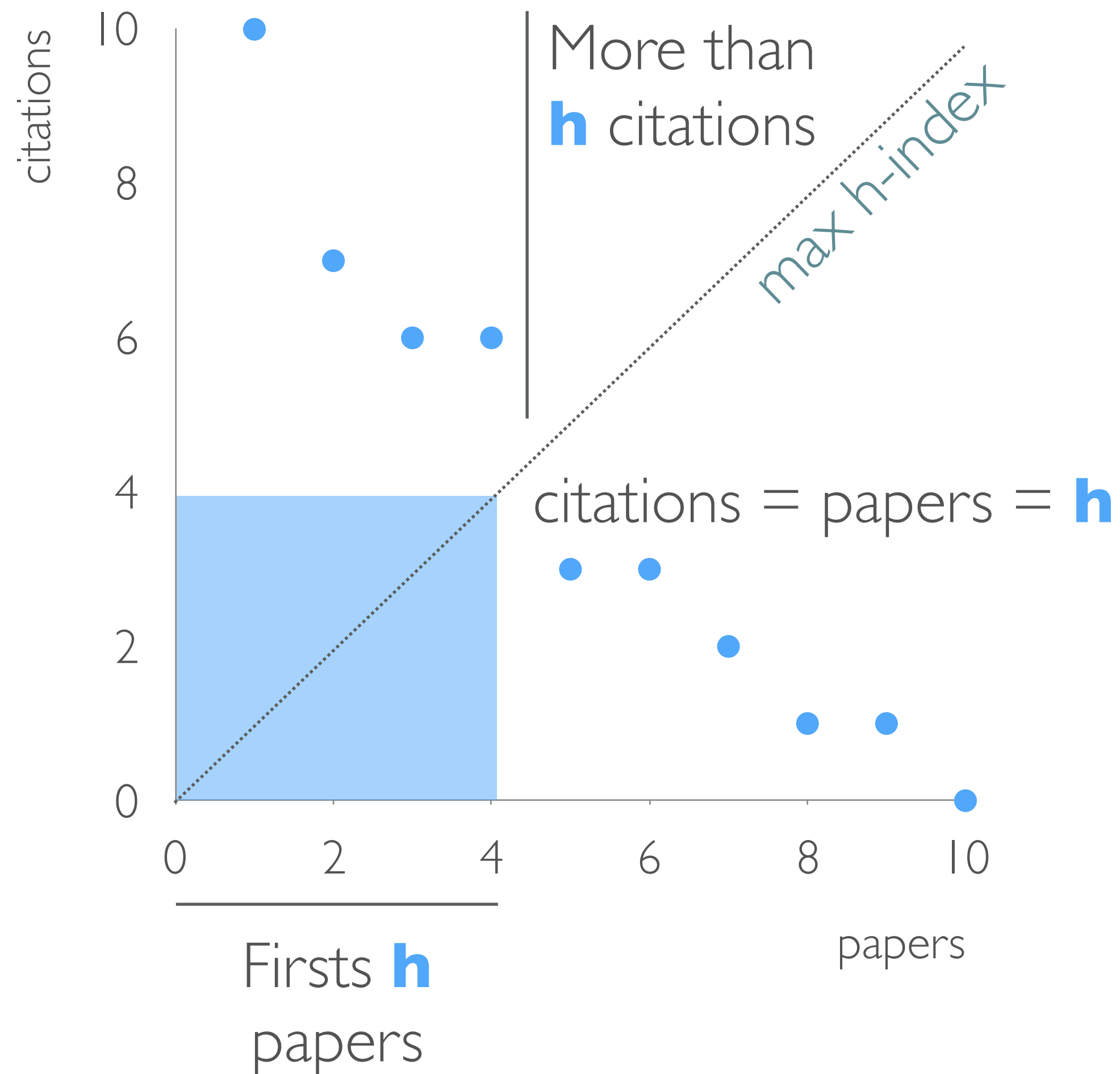
IMPACT FACTOR – JOURNAL LEVEL

IF = # CITATIONS / # PAPERS
[DURING THE PAST 2 YEARS]





H – INDEX – RESEARCHER LEVEL

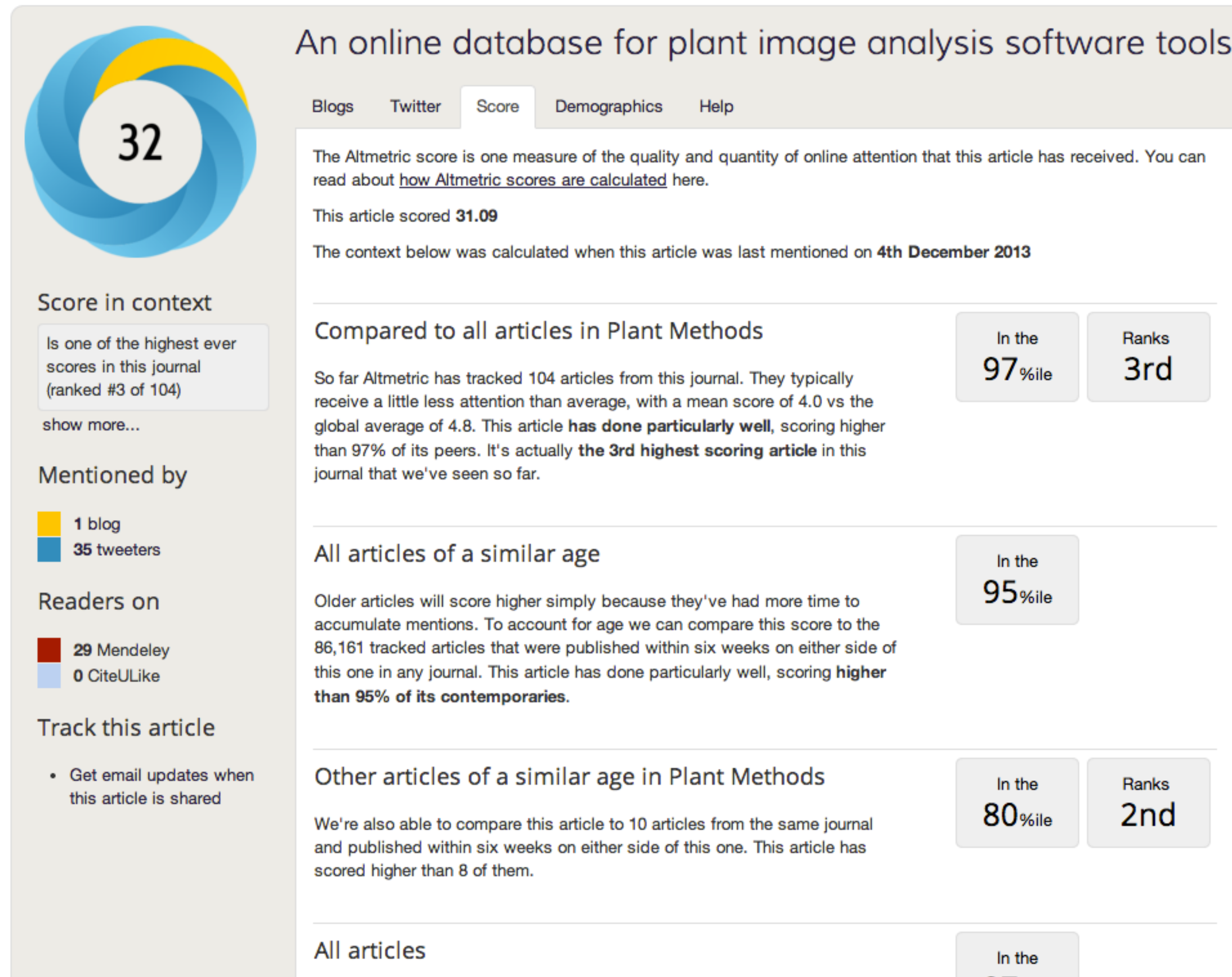


A scientist has index h if h of his/her n papers have at least h citations each, and the other $(n - h)$ papers have no more than h citations each.



ALTMETRICS –ARTICLE LEVEL

www.altmetric.com



Based on references in:

- Scientific blogs
- Twitter
- Facebook
- Google +
- Mendeley
- ...

Used by

- NPG
- BioMed Central
- Springer
- ...

FIELD CITATION RATIO – ARTICLE LEVEL

The Field Citation Ratio (FCR) indicates the relative citation performance of an article, when compared to **similarly-aged articles in its subject area**. The FCR is normalized to 1.0 for this selection of articles. An FCR value of more than 1.0 shows that the publication has a higher than average number of citations for its group (defined by its FoR Subject Code, publishing year, and age).

Articles that are less than 2 years old do not have an FCR. An article with zero citations has an FCR of 0.

[https://badge.dimensions.ai/details/doi/\[DOI\]](https://badge.dimensions.ai/details/doi/[DOI])

RELATIVE CITATION RATIO – ARTICLE LEVEL


The Relative Citation Ratio (RCR) indicates the relative citation performance of an article, when compared to other **articles in its area of research**. The RCR is normalized to 1.0 and calculated for all articles funded by the NIH in the Dimensions catalog. An RCR of more than 1.0 shows that a publication has an above average citation rate for its group, when defined by the subject area citation rates of the articles that have been cited with it.

Articles that are less than 2 years old, or do not have citations, do not have an RCR.

[https://badge.dimensions.ai/details/doi/\[DOI\]](https://badge.dimensions.ai/details/doi/[DOI])

RELATIVE CITATION RATIOS – ARTICLE LEVEL

<https://app.dimensions.ai/>



SupportRegisterLog in

FILTERS

FAVORITES

▼ PUBLICATION YEAR

☐ 2018

2,022,987

☐ 2017

4,367,383

☐ 2016

4,137,616

☐ 2015

3,993,415

☐ 2014

3,867,498

☐ 2013

3,700,307

☐ 2012

3,441,934

☐ 2011

3,342,982

☐ 2010

2,933,322

☐ 2009

2,819,507

More

› RESEARCHER

› COUNTRY

› RESEARCH ORGANIZATION

› FUNDER

› FIELDS OF RESEARCH

PUBLICATIONS

GRANTS

PATENTS

CLINICAL TRIALS

94,919,475

4,110,724

35,511,031

400,076

Sort by: Publication Date ▼

Title, Author(s), Bibliographic reference - [About the metrics](#)

Detwinning through migration of twin boundaries in nanotwinned Cu films under in situ ion irradiation

Jinlong Du, Zaoming Wu, Engang Fu, Yanxiang Liang, Xingjun Wang, Peipei Wang, Kaiyuan Yu, Xiangdong Ding, Meimei Li, Mar...
2018, Science and Technology of Advanced Materials - Article

Altmetric

1

View PDF

Add to Library

Electronic properties and surface reactivity of SrO-terminated SrTiO₃ and SrO-terminated iron-doped SrTiO₃

Aleksandar Staykov, Helena Tellez, John Druce, Ji Wu, Tatsumi Ishihara, John Kilner
2018, Science and Technology of Advanced Materials - Article

Altmetric

1

View PDF

Add to Library

Photo-stability study of a solution-processed small molecule solar cell system: correlation between molecular conformation and degradation

Michael J. Newman, Emily M. Speller, J  r  my Barb  , Joel Luke, Meng Li, Zhe Li, Zhao-Kui Wang, Sagar M. Jain, Ji-Seon Kim, H...
2018, Science and Technology of Advanced Materials - Article

Altmetric

1

View PDF

Add to Library

Tunable near-infrared epsilon-near-zero and plasmonic properties of Ag-ITO co-sputtered composite films

Chaonan Chen, Zhewei Wang, Ke Wu, Hui Ye
2018, Science and Technology of Advanced Materials - Article

ANALYTICAL VIEWS

FIELDS OF RESEARCH

1103 Clinical Sciences4,988,629

0601 Biochemistry and Cell Biology2,837,313

1117 Public Health and Health Services2,606,055

0306 Physical Chemistry (incl. Structural)2,517,967

0912 Materials Engineering2,207,944

OVERVIEW

RCR Mean0.73

FCR Mean1.30

6,000,000

4,000,000

2,000,000

0

2009

2010

2011

2012

2013

2014

2015

2016

2017

2018

Publications

RESEARCHERS

MY CURRENT CV

- Link to all articles can be found on www.guillaumelobet.be.
- Bibliometric data are coming from dimensions.ai and altmetric.com.
- The Field Citation Ratio (FCR) indicates the relative citation performance of an article, when compared to similarly-aged articles in its subject area (1 = average).
- The Altmetric Score is an automatically calculated, weighted count of all of the attention a research output has received online.

Explanation of
metrics before
publication list



archiDART, an R package for the automated 2D computation of plant root architectural traits

Delory, B., C. Baudson, Y. Brostaux, G. Lobet, and P. du Jardin

2015 | Citation(s): 6 | FCR: 4.91 | Altmetric score: 24

URL: <http://dx.doi.org/10.1007/s11104-015-2673-4>

Root System Markup Language. Toward an unified root architecture description language

Lobet, G., M. Pound, J. Diener, C. Pradal, X. Draye, C. Godin, M. Javaux, D. Leitner, F. Meunier, and P. Nacry

2015 | Citation(s): 31 | FCR: 16.5 | Altmetric score: 34

URL: <http://www.ncbi.nlm.nih.gov/pubmed/25614065>

CITATIONS

FIELD CITATION RATIO

ALTMETRIC SCORE

LINK TO PDF

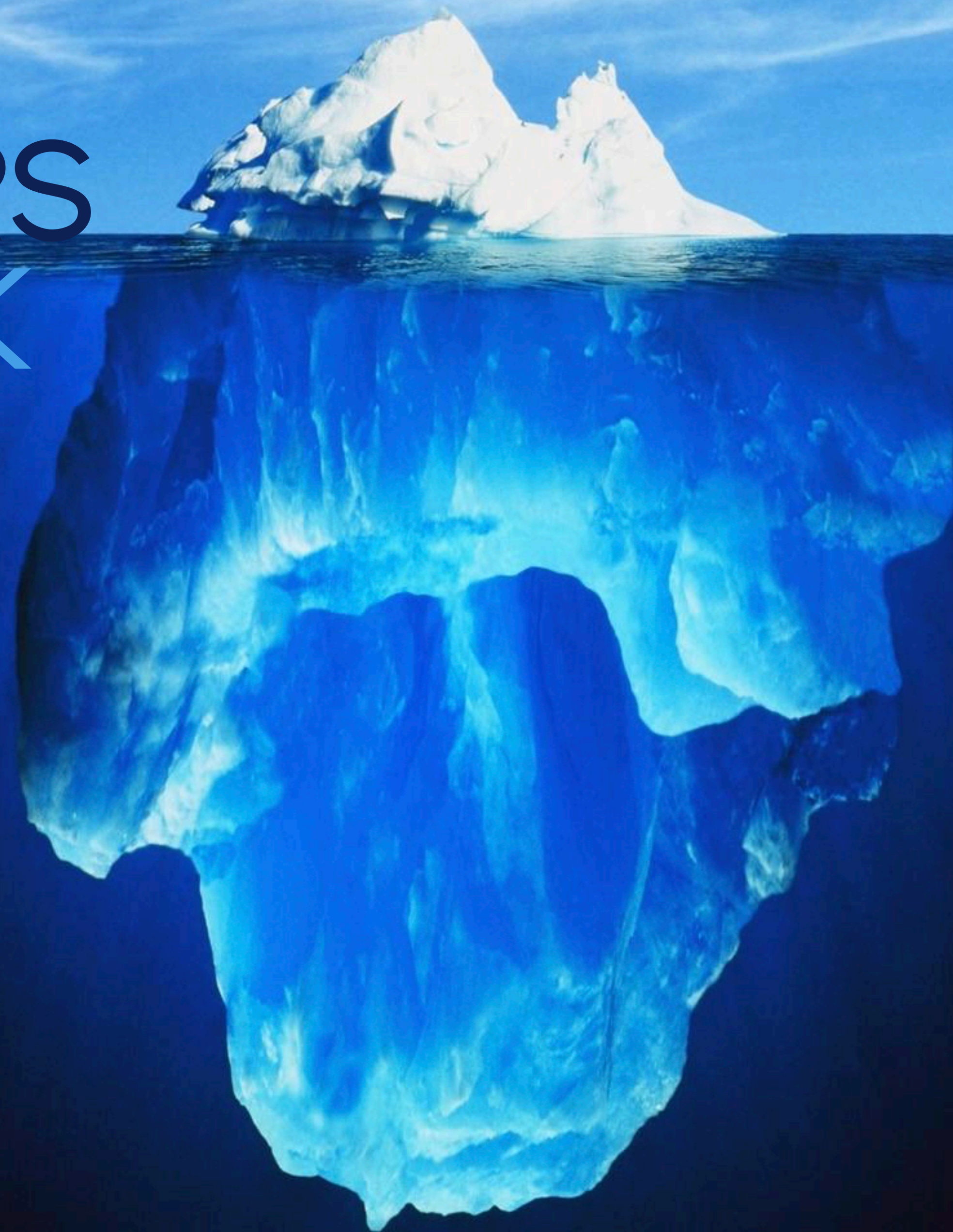
WHAT OTHERS HAVE
SAID

It is clear that the language will help empower plant biologists and computation scientist working in root phenotyping and modeling fields to leverage and share work more efficiently with others.

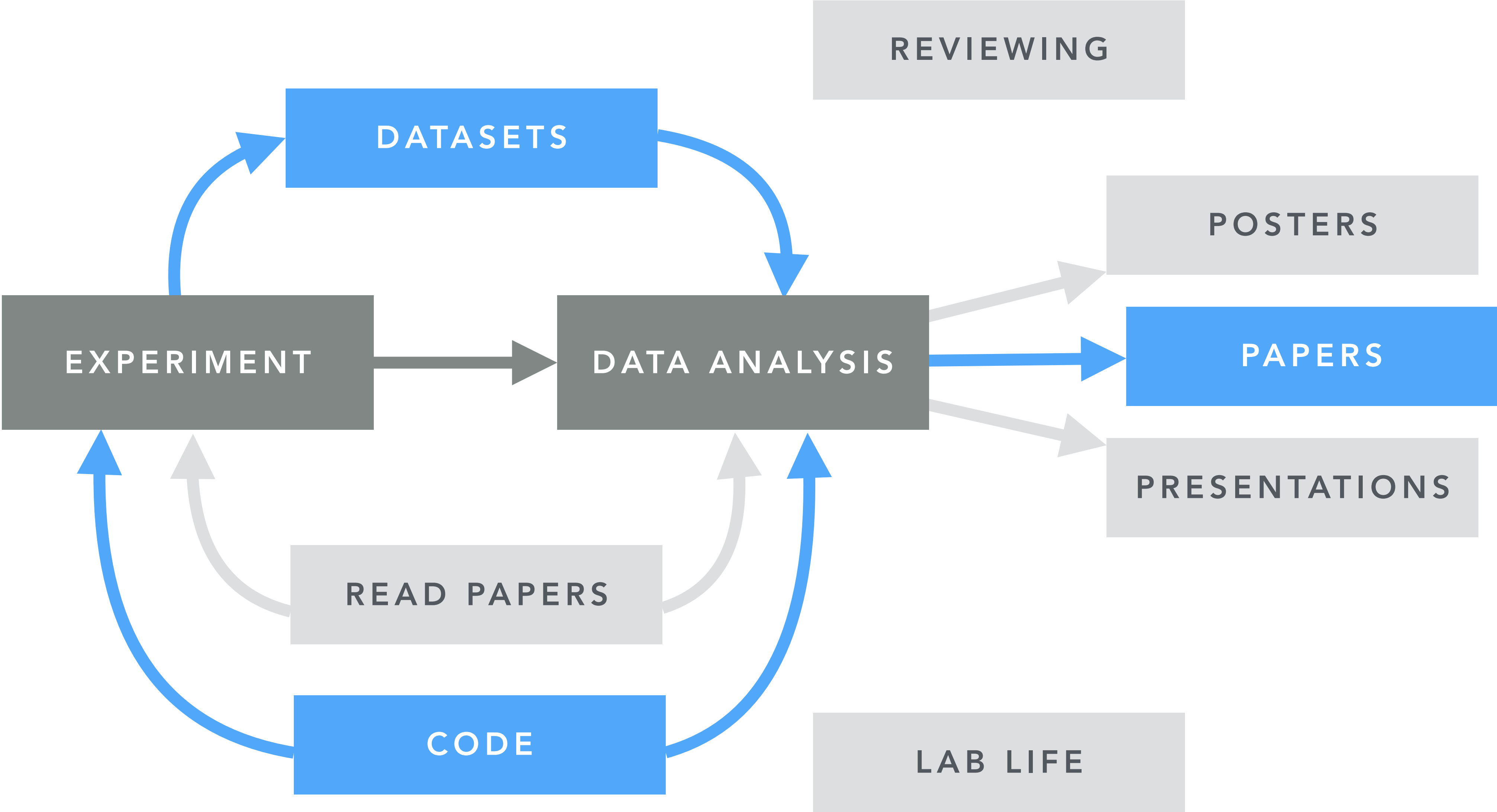
[Anonymous Reviewer 2]

https://github.com/guillaumelobet/science_curriculum

YOUR PAPERS
YOUR WORK



SCIENTIFIC PIPELINE



2

OPEN

YOUR
SCIENCE



WHAT

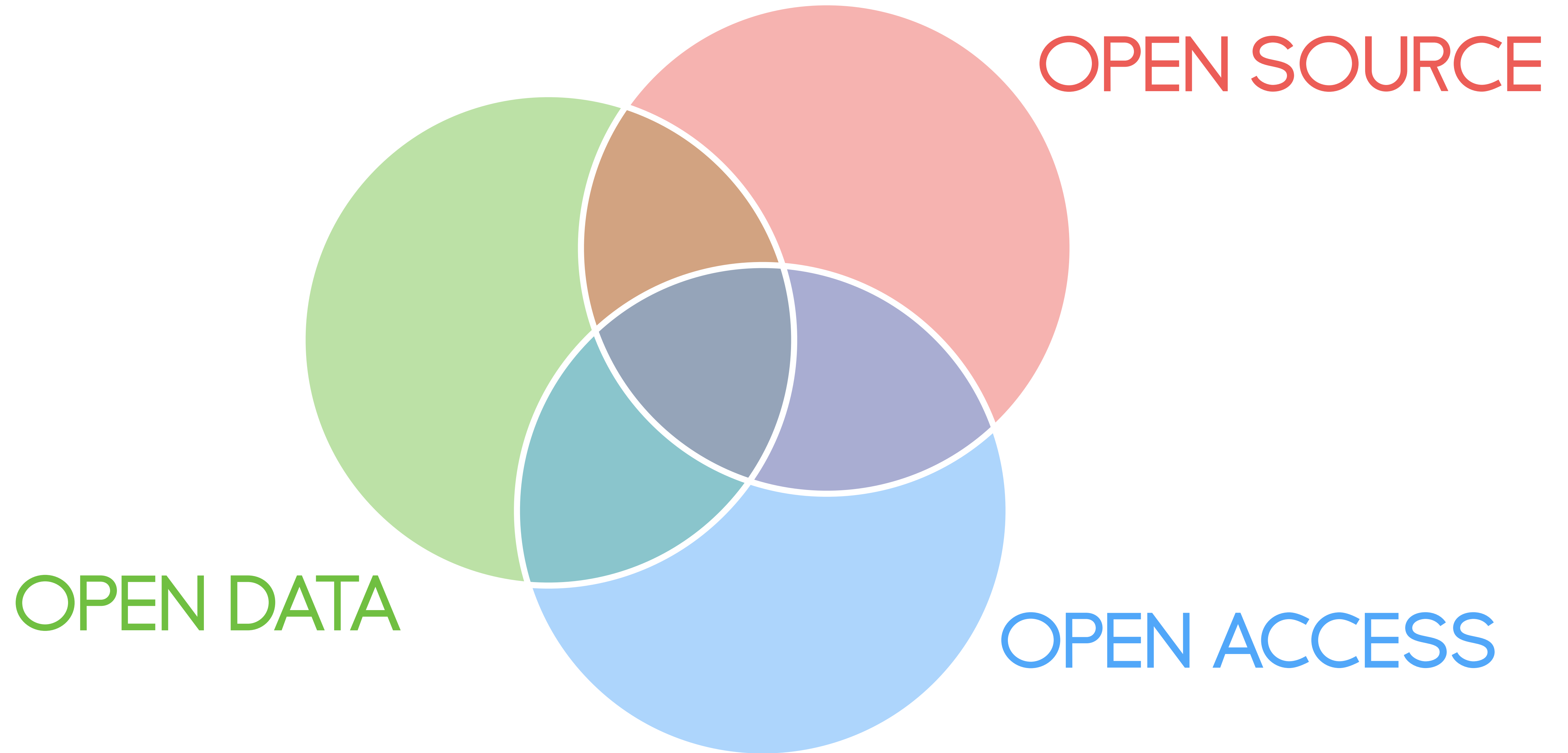
**THE
HELL IS**



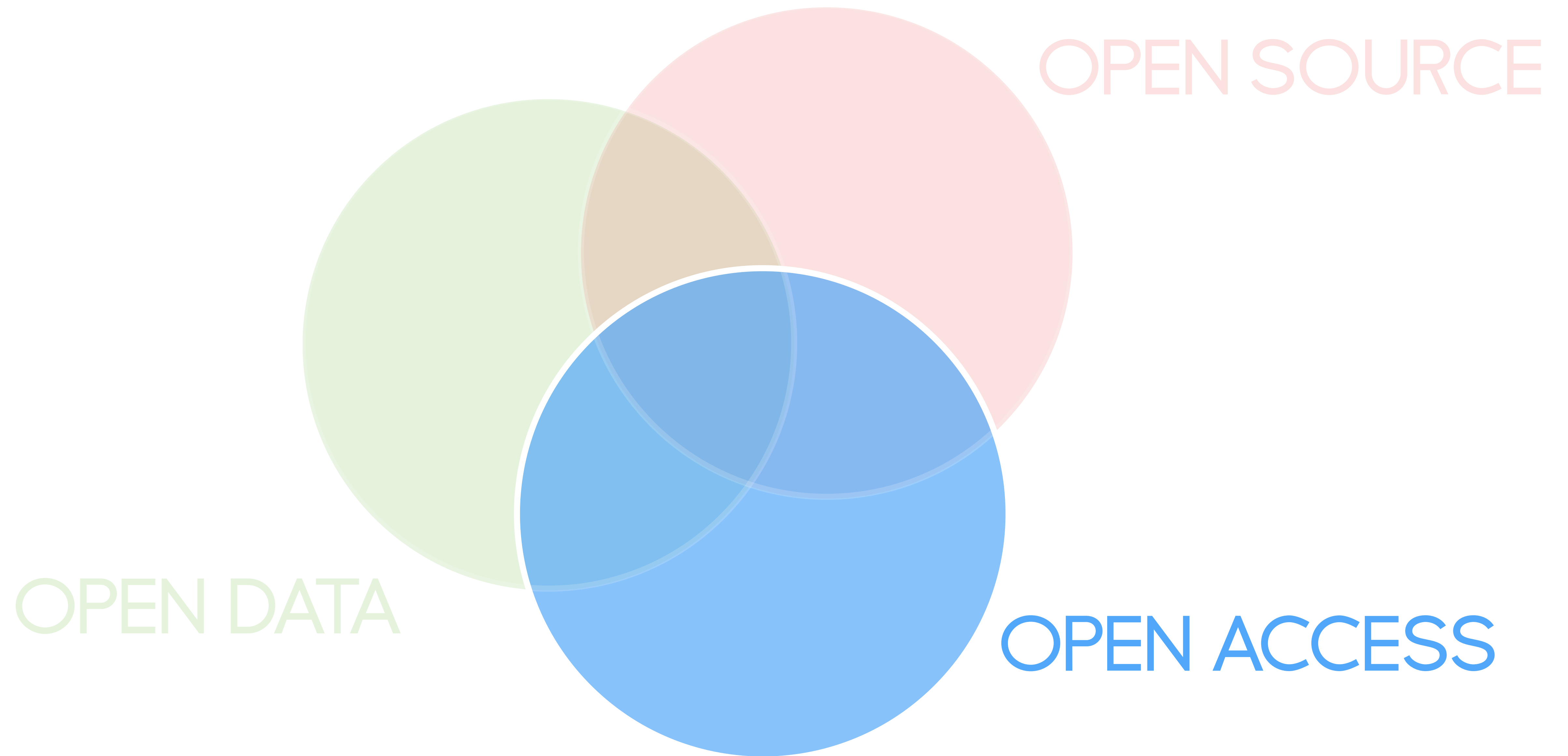
OPEN SCIENCE



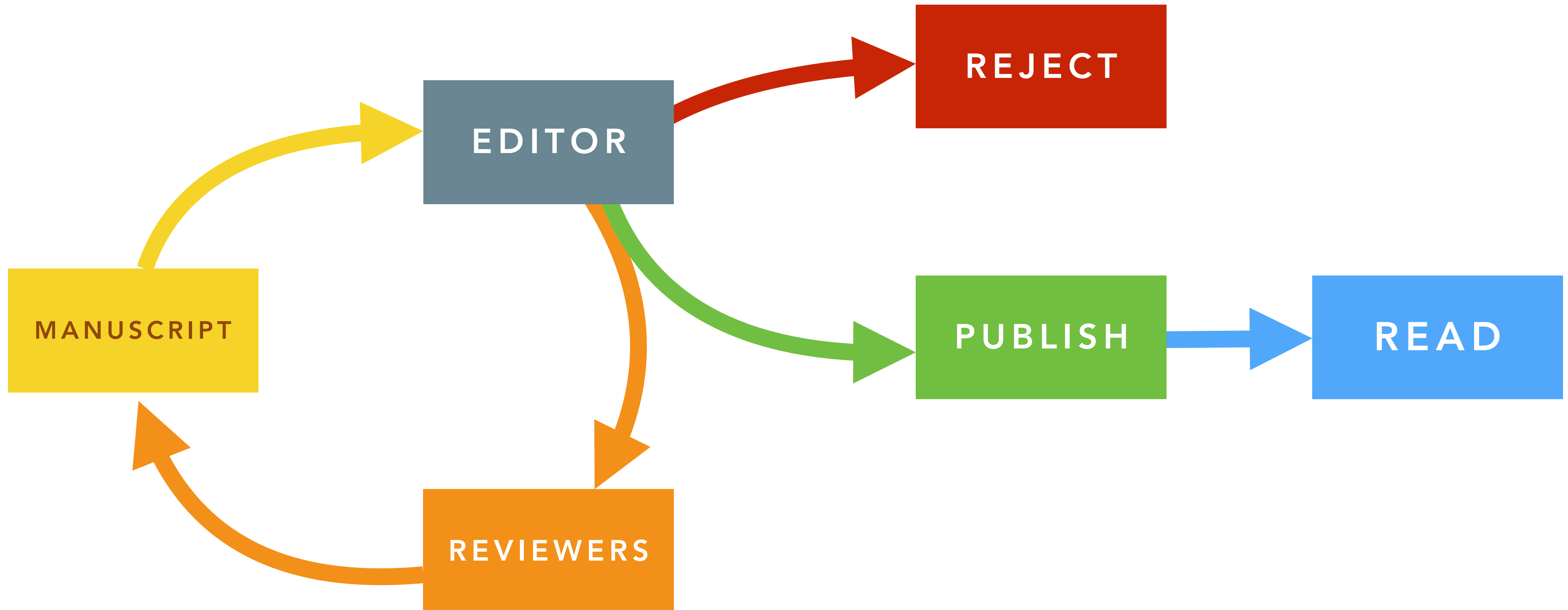
OPEN SCIENCE IS:

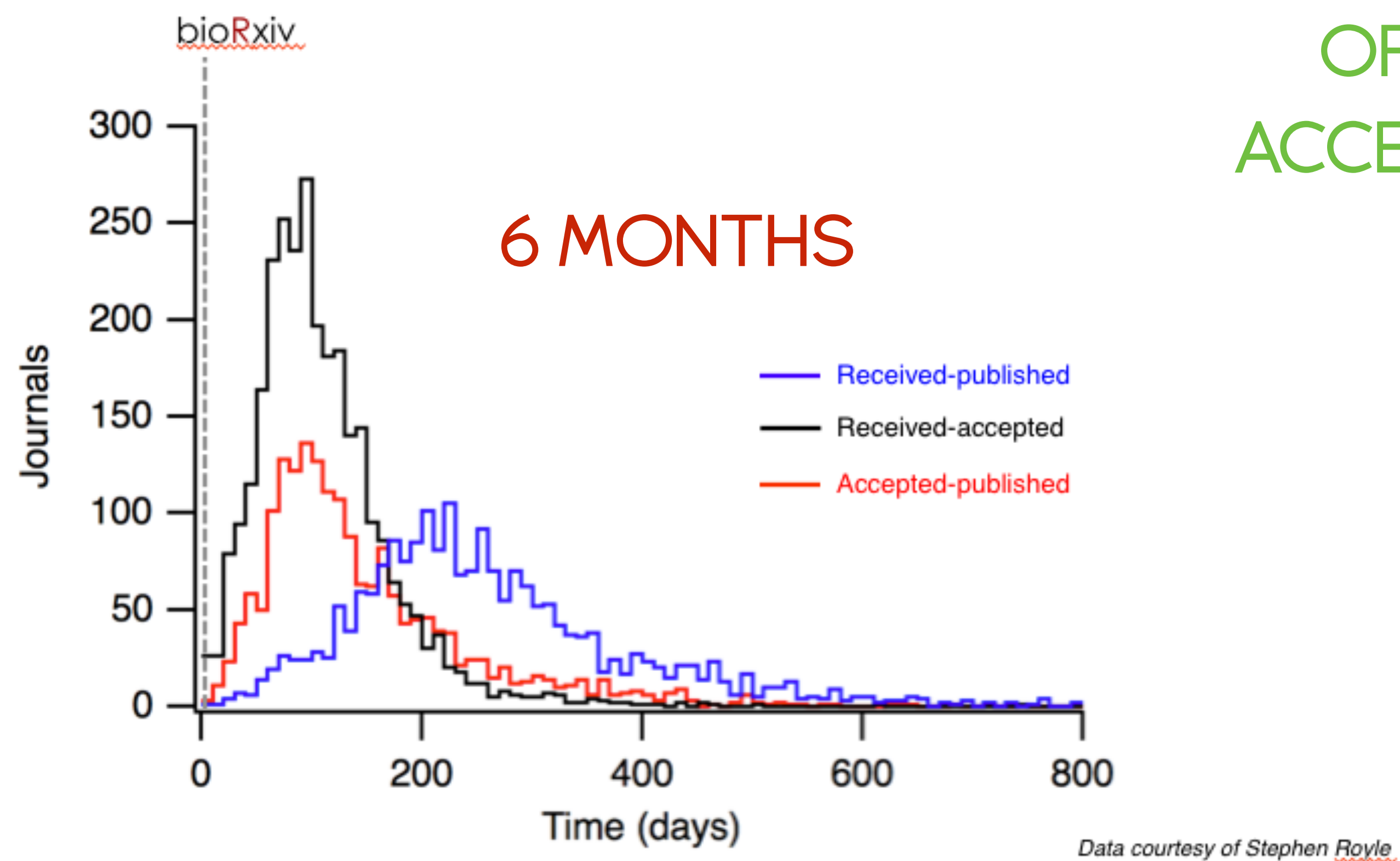
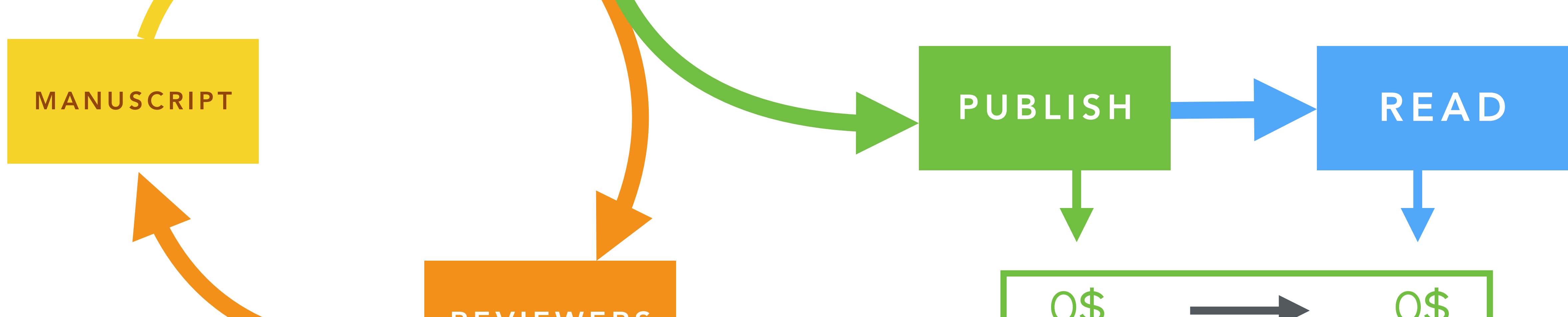


OPEN SCIENCE IS:



PUBLISHING PIPELINE

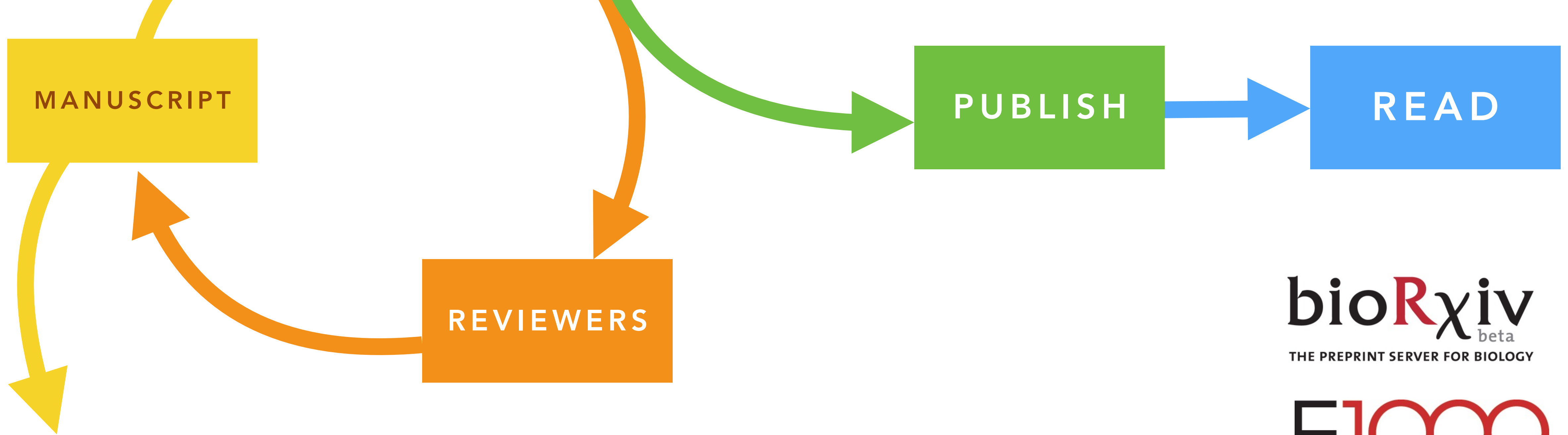




OPEN
ACCESS



REDUCED ACCESS



PREPRINT SERVERS

- archive while submitting
- **directly** available
- **freely** available
- **check specific journal policy...**

 <http://www.sherpa.ac.uk/romeo/search.php>

bioRxiv
beta
THE PREPRINT SERVER FOR BIOLOGY

F1000
FACULTY of 1000

PeerJ



...

Tony Pridmore,
University of Nottingham, UK

***Correspondence:**

Guillaume Lobet
g.lobet@fz-juelich.de

[†]These authors have contributed
equally to this work.

Specialty section:

This article was submitted to
Plant Biophysics and Modeling,
a section of the journal
Frontiers in Plant Science

Received: 14 September 2016

Accepted: 15 March 2017

Published: 03 April 2017

Citation:

Lobet G, Koevoets IT, Noll M,
Meyer PE, Tocquin P, Pagès L and
Périlleux C (2017) Using a Structural
Root System Model to Evaluate and
Improve the Accuracy of Root Image
Analysis Pipelines.
Front. Plant Sci. 8:447.
doi: 10.3389/fpls.2017.00447

analyzed. Our study
on a synthetic library
our analysis is a ca
thorough calibration
arise, especially for
the image library and
the community.

Keywords: image analysis

INTRODUCTION

Roots are of utmost
represents great promi
n Koevoets et al., 2016
quantification is usual
either using classic ima
fluorescence,...). The n
root system.

To paraphrase the
system.” **Figure 1A** is
is indeed a two-dime



New Results

Using a structural root system model to evaluate and improve accuracy of root image analysis pipelines.

Guillaume Lobet, Iko Koevoets, Manuel Noll, Patrick E Meyer, Pierre Tocquin, Loic Pa
 Claire Perilleux

doi: <https://doi.org/10.1101/074922>

This article is a preprint and has not been peer-reviewed [what does this mean?].

Abstract

Info/History

Metrics

Supplementary material

ARTICLE USAGE

Show by month	Abstract	PDF
Total	1,013	296



42

Tweeted by 62

4 readers on Mendeley

[See more details](#)

DIFFERENT **TYPES** OF OPEN ACCESS

GREEN OA

Journal authorise the archiving of **pre-prints** or **post-print** of accepted articles on public repository


GOLD OA

All articles in the journal are freely available to readers.

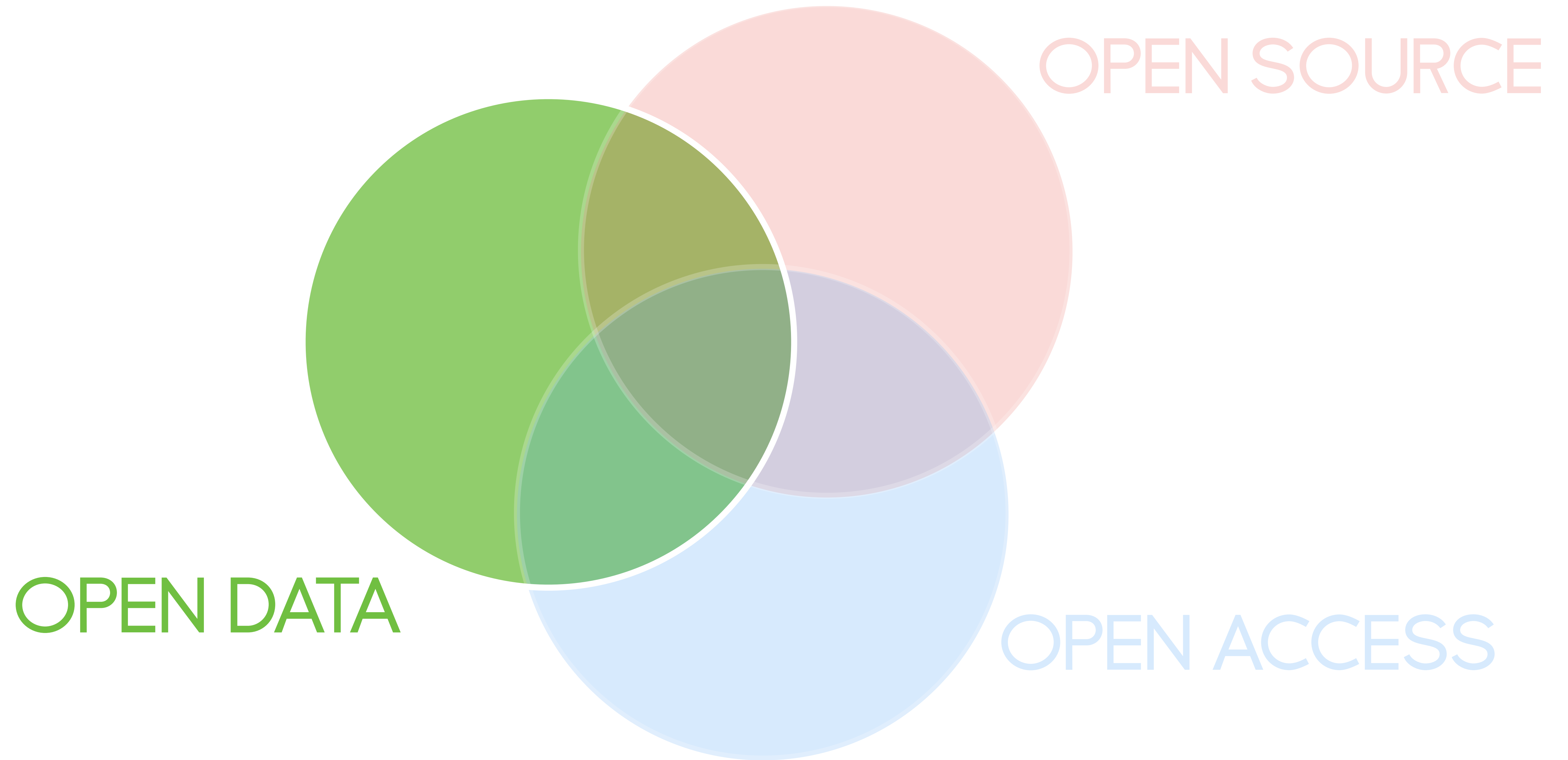
Moving from “pay to read” to “pay to publish” model

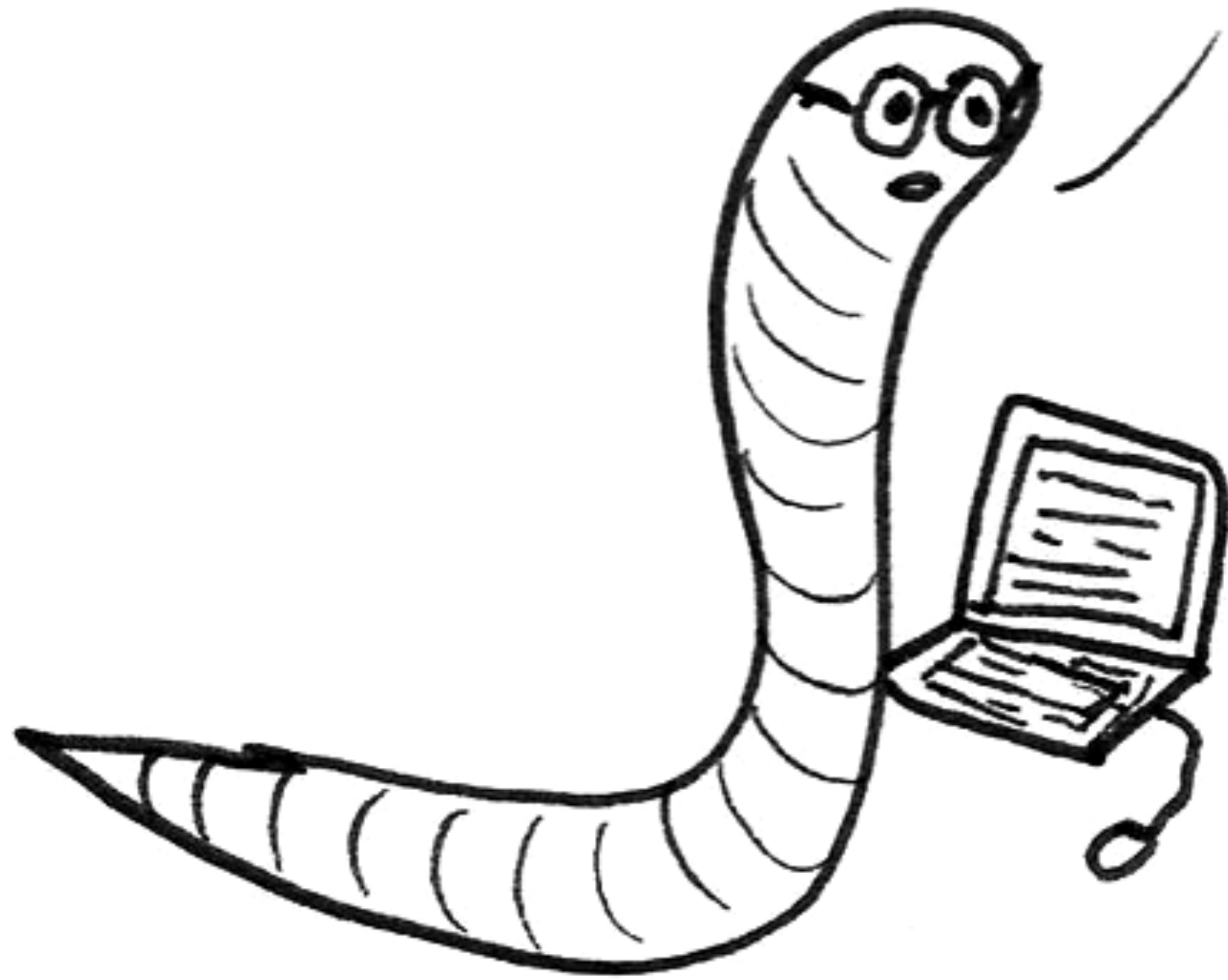
HYBRID OA

Some articles of the journal are freely available to read.


Institution pay twice: the subscription + to publish in OA

OPEN SCIENCE IS:





Hi Guys!
I'm Sucky,
the research parasite.

I'm going to **STEAL**
all your data and
take **ALL** the credit!

@credpenblackpen

LET'S TALK ABOUT YOUR DATA



EXPENSIVE



TIME
CONSUMING



CONTAINS
MISTAKES


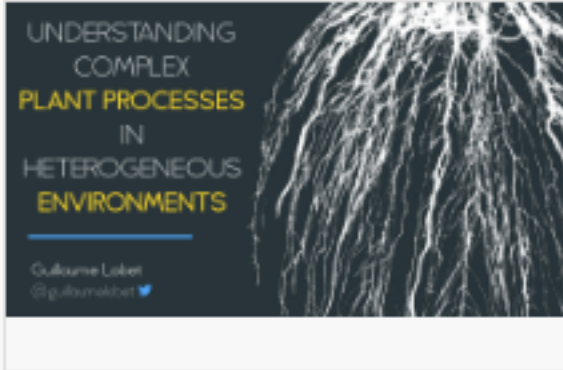
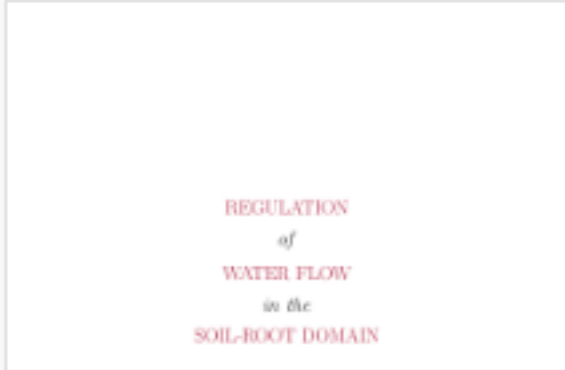





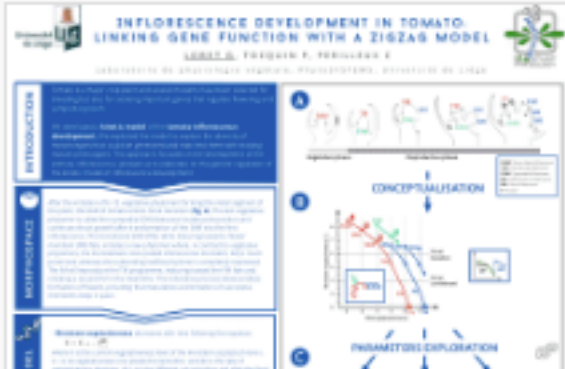





ARE NOT 100%
EXPLOITED

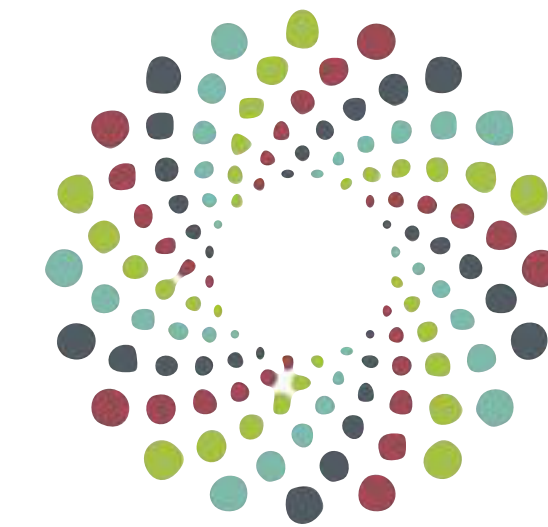
DATA REPOSITORIES / JOURNALS

- Decrease the **cost of data**
- Increase **reproducibility**
- Allow **new findings**
- Get **more citations** for your work

SHARE ALL YOUR RESEARCH PRODUCTS

 <p>Open Science: A view from the Bench Guillaume Lobet 29/02/2016</p>	 <p>Research Project UCL-FZJ Guillaume Lobet 08/02/2016</p>	 <p>Water flow in the soil-plant domain. New tools and methods Guillaume Lobet 15/12/2015</p>	 <p>Science Valorisation Guillaume Lobet 17/11/2015</p>
 <p>Structural Root Modelling Guillaume Lobet 11/11/2015</p>	 <p>Maize root emergence Guillaume Lobet 12/05/2015</p>	 <p>Plant image analysis tools: current trends and future challenges Guillaume Lobet v 15/04/2015</p>	 <p>Introducing Root System Markup Language, a new toolbox to link ex... Guillaume Lobet 15/04/2015</p>
 <p>Inflorescence development in tomato: linking gene function with ... Guillaume Lobet v 27/01/2015</p>	 <p>Water relations in the soil-plant system: what can we learn from fun... Guillaume Lobet v 03/12/2014</p>	 <p>Modelling water relations in the soil-plant-atmosphere system Guillaume Lobet 04/07/2014</p>	 <p>Inflorescence development in tomato: gene functions within a zlg... Guillaume Lobet v 27/03/2014</p>

FIGSHARE



www.figshare.com

Institutional repository = linked to institution
You = (probably) not linked to institution

EXAMPLE WITH SCIENTIFIC FIGURES

[Browse](#)[Upload](#)[Sign up](#)[Log in](#)

Plant Illustrations

[+ Follow](#)

22066
item views

581
item downloads

0
citations





The aim of this profile is to collect in one place illustrations and pictures of plants, roots, shoots, inflorescences, ... The ultimate goal is to be a resource for the plant science community. If you want to contribute, read our "README" file below :) ----- This account is curated by Erin Sparks, Guillaume Lobet,

SHARE ALL YOUR DATA

Data from: Male-female coevolution in the wild: evidence from a time series in *Artemia franciscana*



Files in this package

Content in the Dryad Digital Repository is offered "as is." By downloading files, you agree to the [Dryad Terms of Service](#). To the extent possible under law, the authors have waived all copyright and related or neighboring rights to this data.  

Title	Dataset Rode et al 2011
Downloaded	3 times
Description	Experimental data in Excel format
Download	Dataset Rode et al 2011.xlsx (332.6Kb)
Download	README.txt (3.435Kb)
Details	View File Details

When using this data, please cite the original publication:

Rode NO, Charmantier A, Lenormand T (2011) Male-female coevolution in the wild: evidence from a time series in *Artemia franciscana*. *Evolution* 65(10): 2881-2892. [doi:10.1111/j.1558-5646.2011.01384.x](https://doi.org/10.1111/j.1558-5646.2011.01384.x)

Additionally, please cite the Dryad data package:

Rode NO, Charmantier A, Lenormand T (2011) Data from: Male-female coevolution in the wild: evidence from a time series in *Artemia franciscana*. Dryad Digital Repository. [doi:10.5061/dryad.56k55](https://doi.org/10.5061/dryad.56k55)

[Cite](#) | [Share](#)



<https://cos.io/>



www.zenodo.org

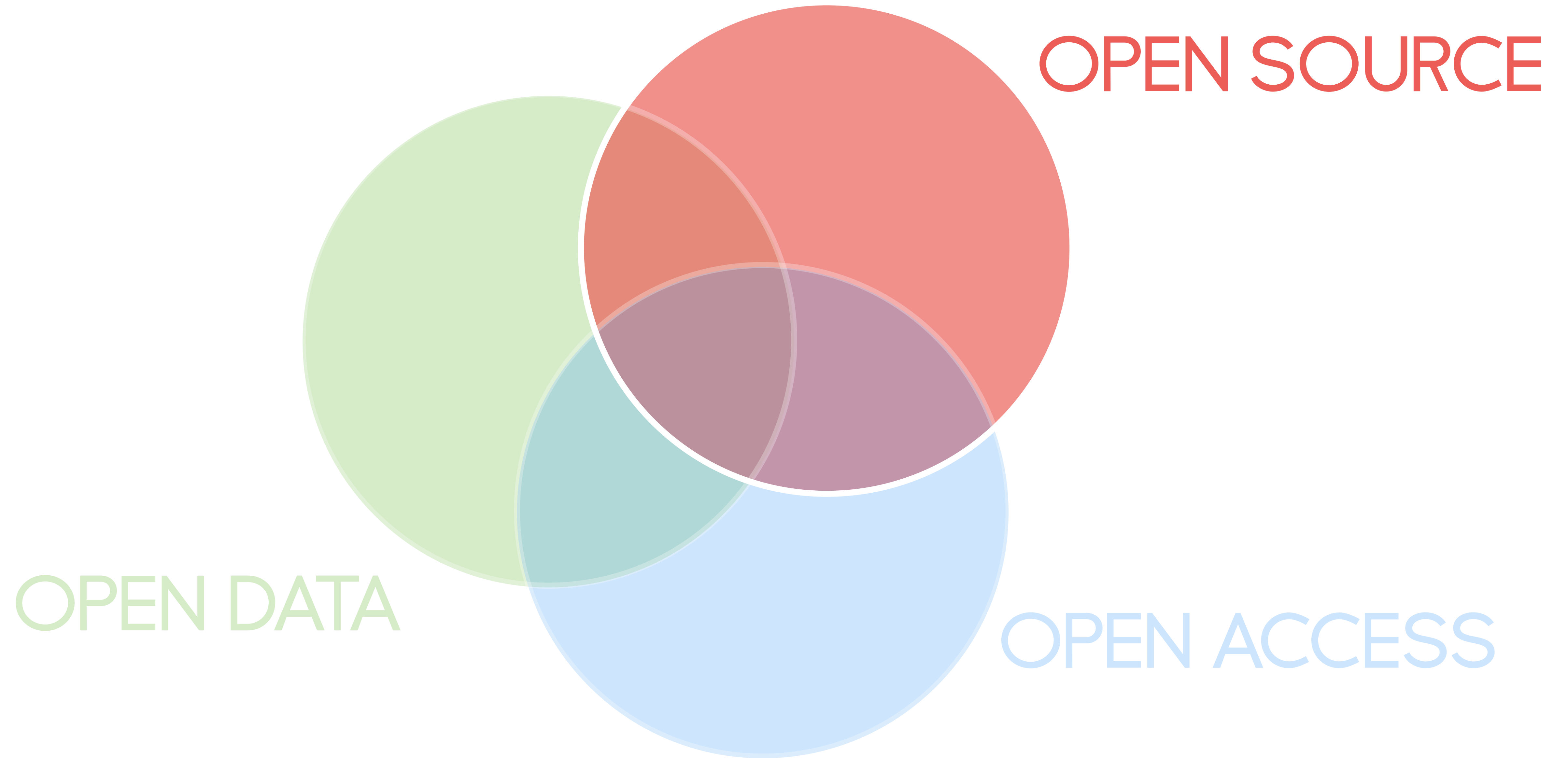
(GIGA)ⁿ
SCIENCE

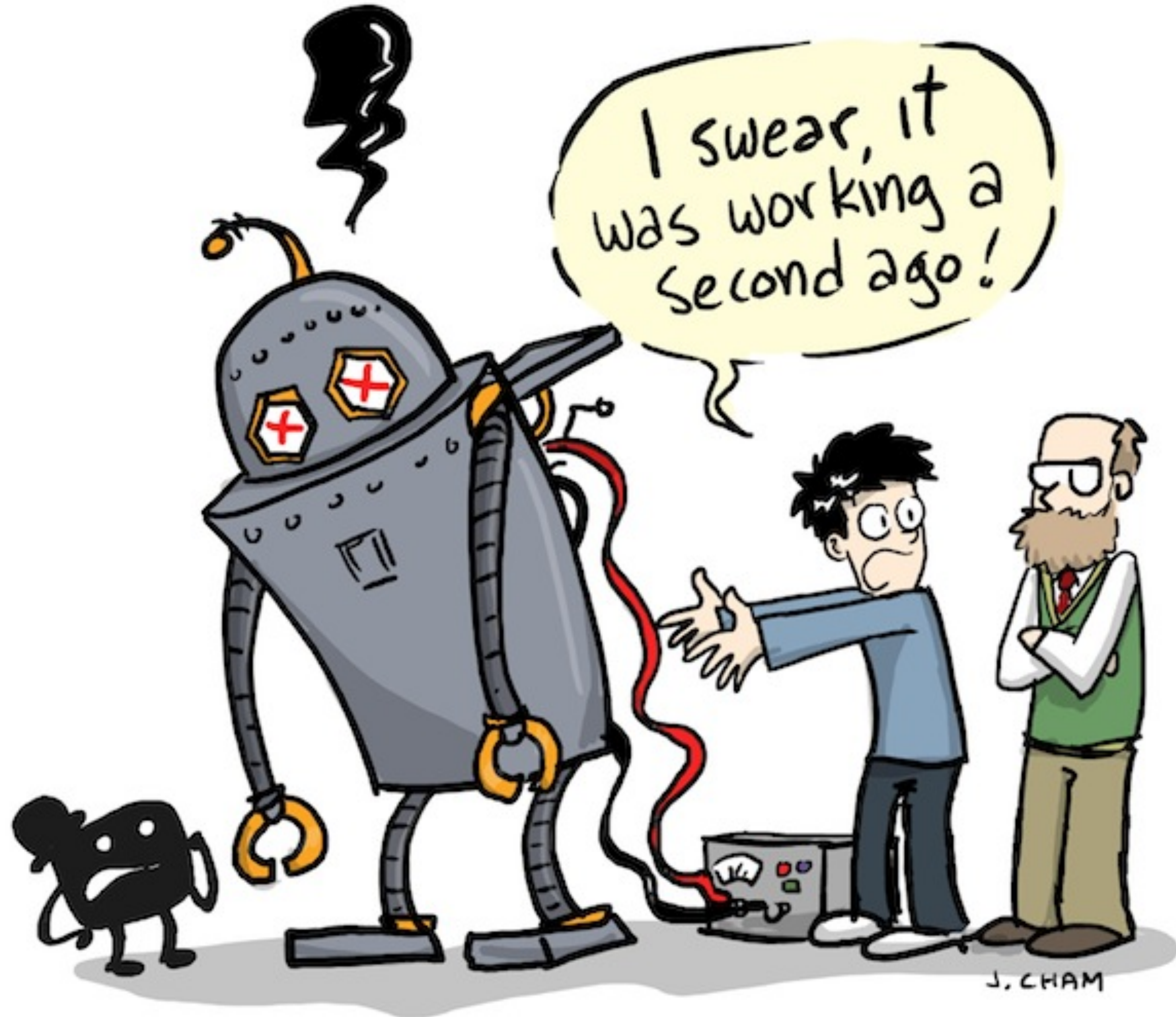
gigascience.biomedcentral.com



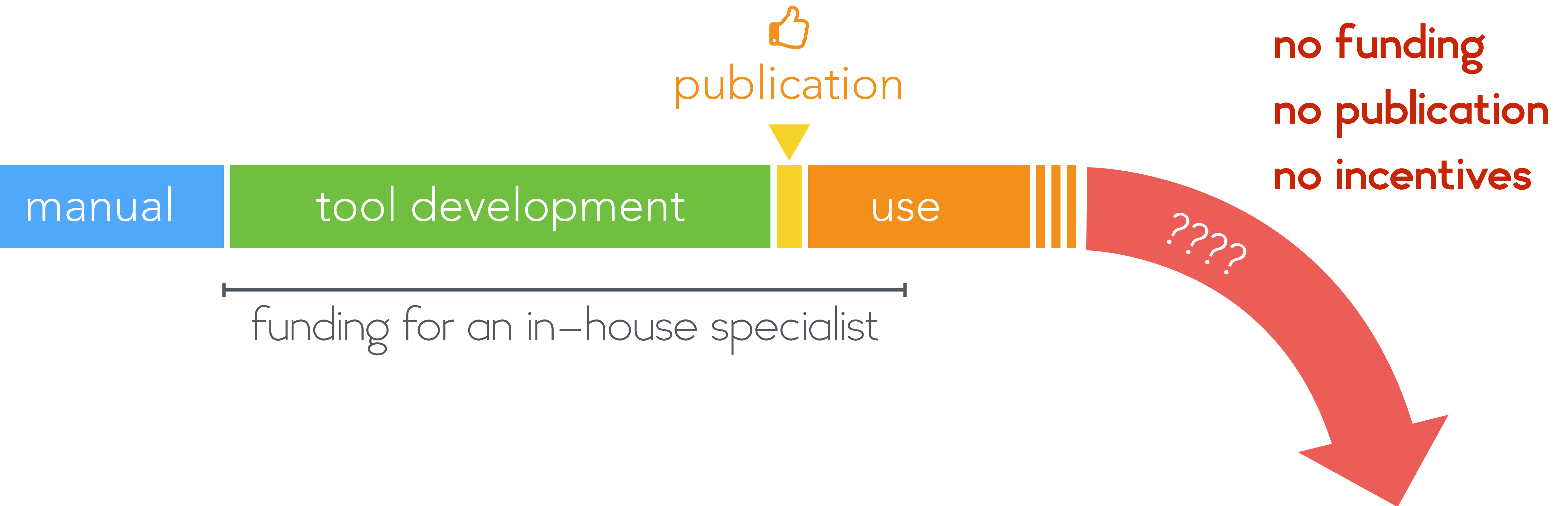
www.datadryad.org

OPEN SCIENCE IS:

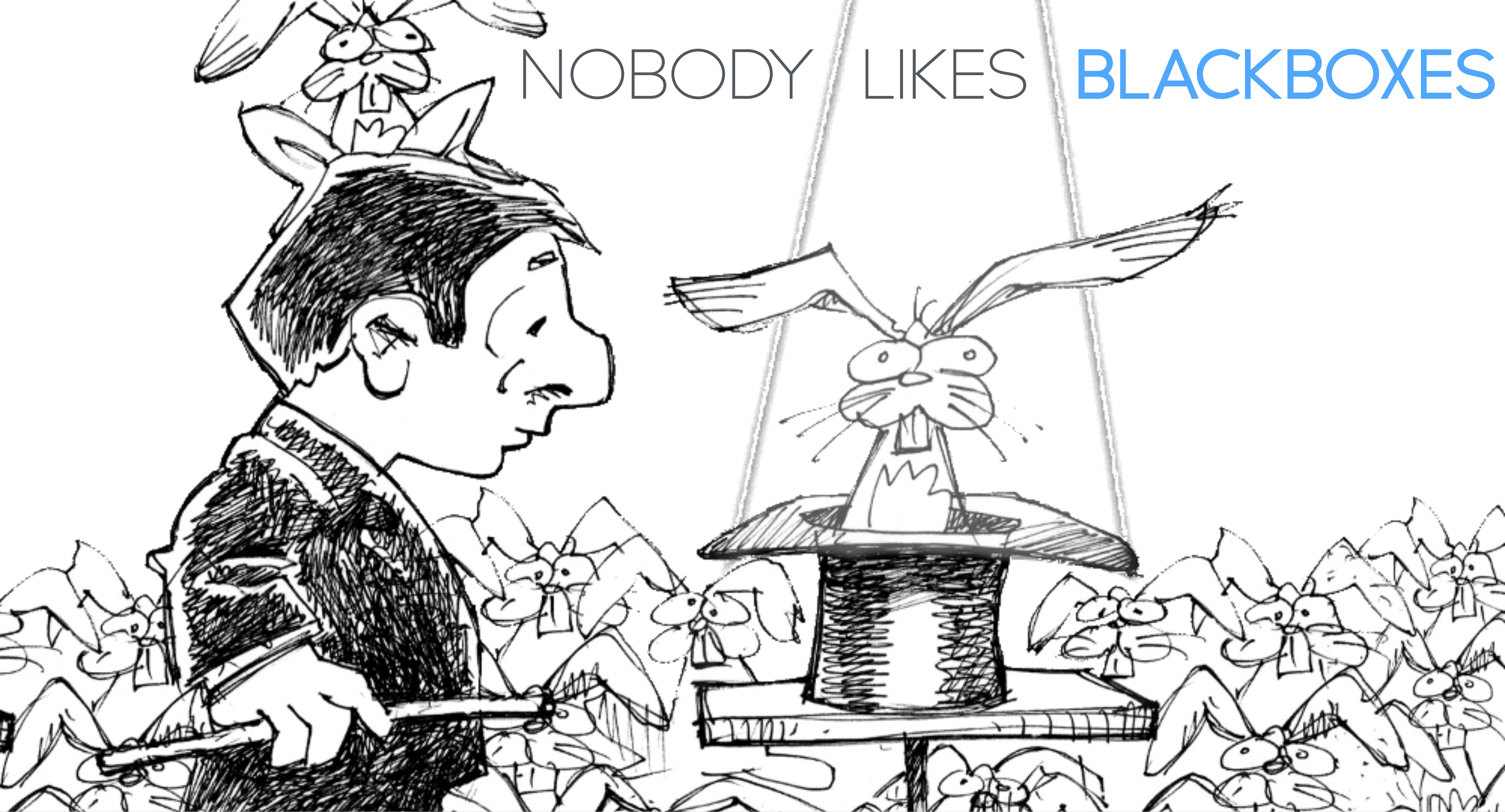




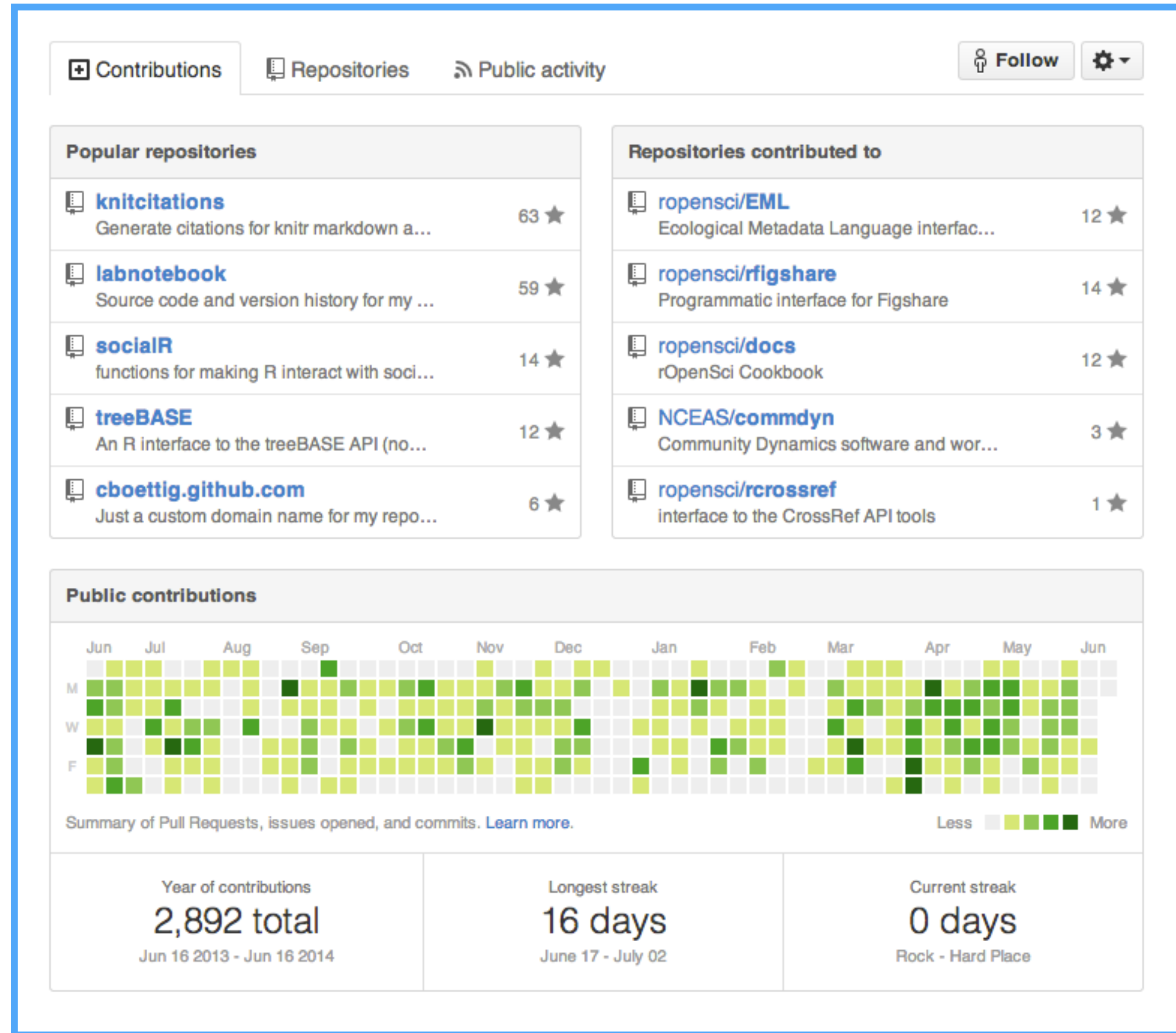
THE FAITH OF ACADEMIC SOFTWARES



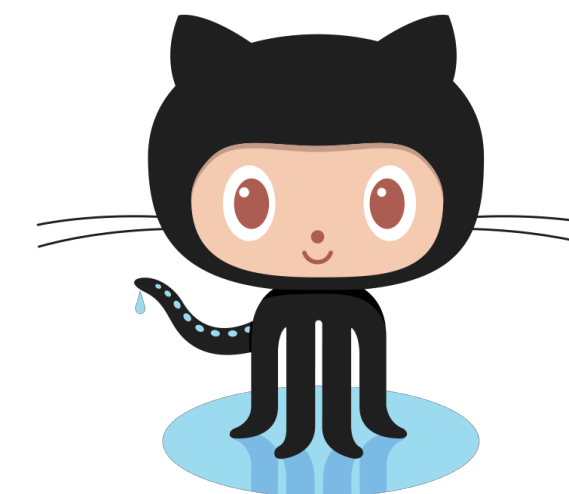
NOBODY LIKES BLACKBOXES



SHARE ALL YOUR CODE



- share **code**
- **collaborative** development
- **version control** system
- millions of users
- **citable** (doi)



github.com



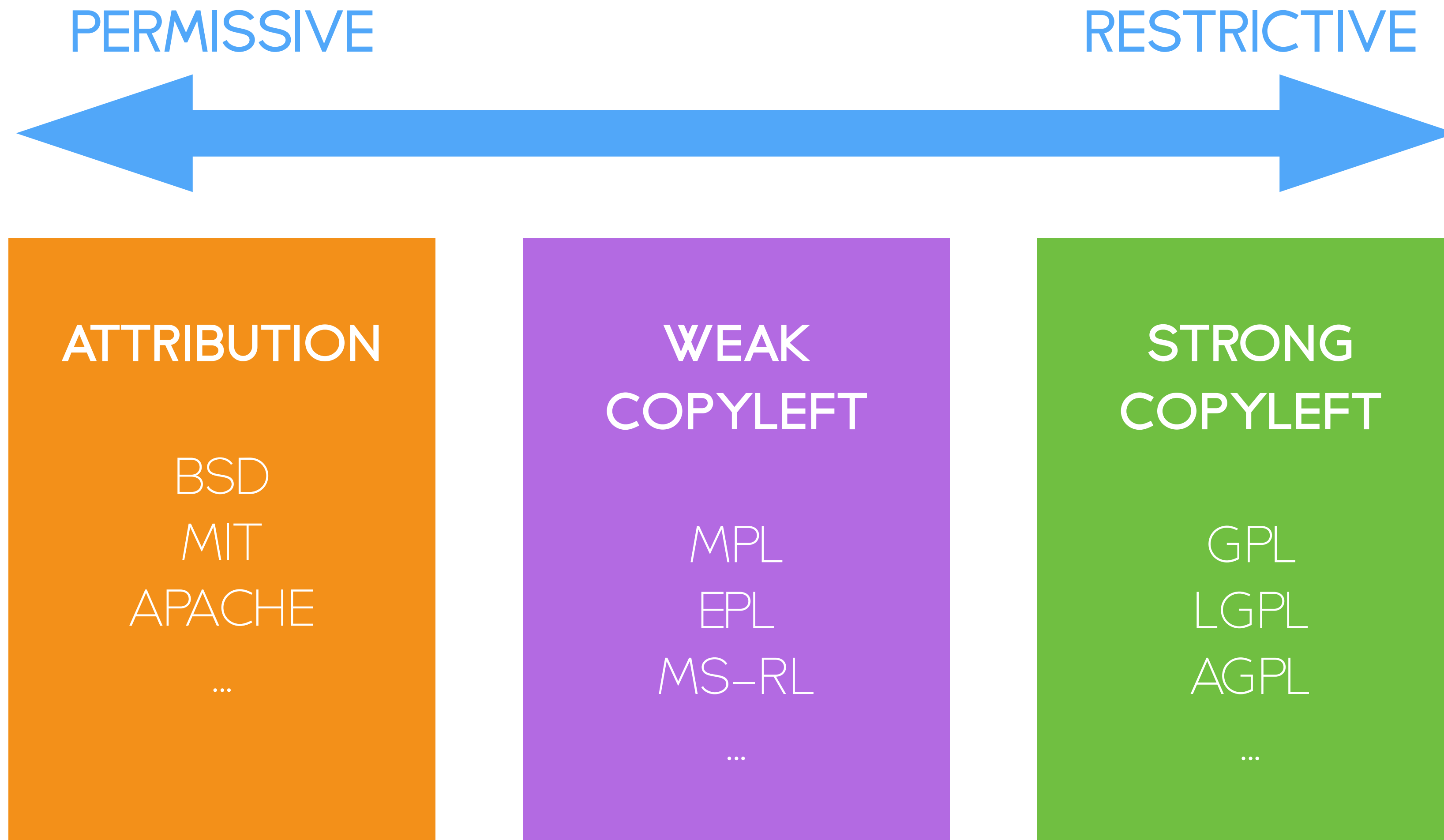
Bitbucket

bitbucket.org



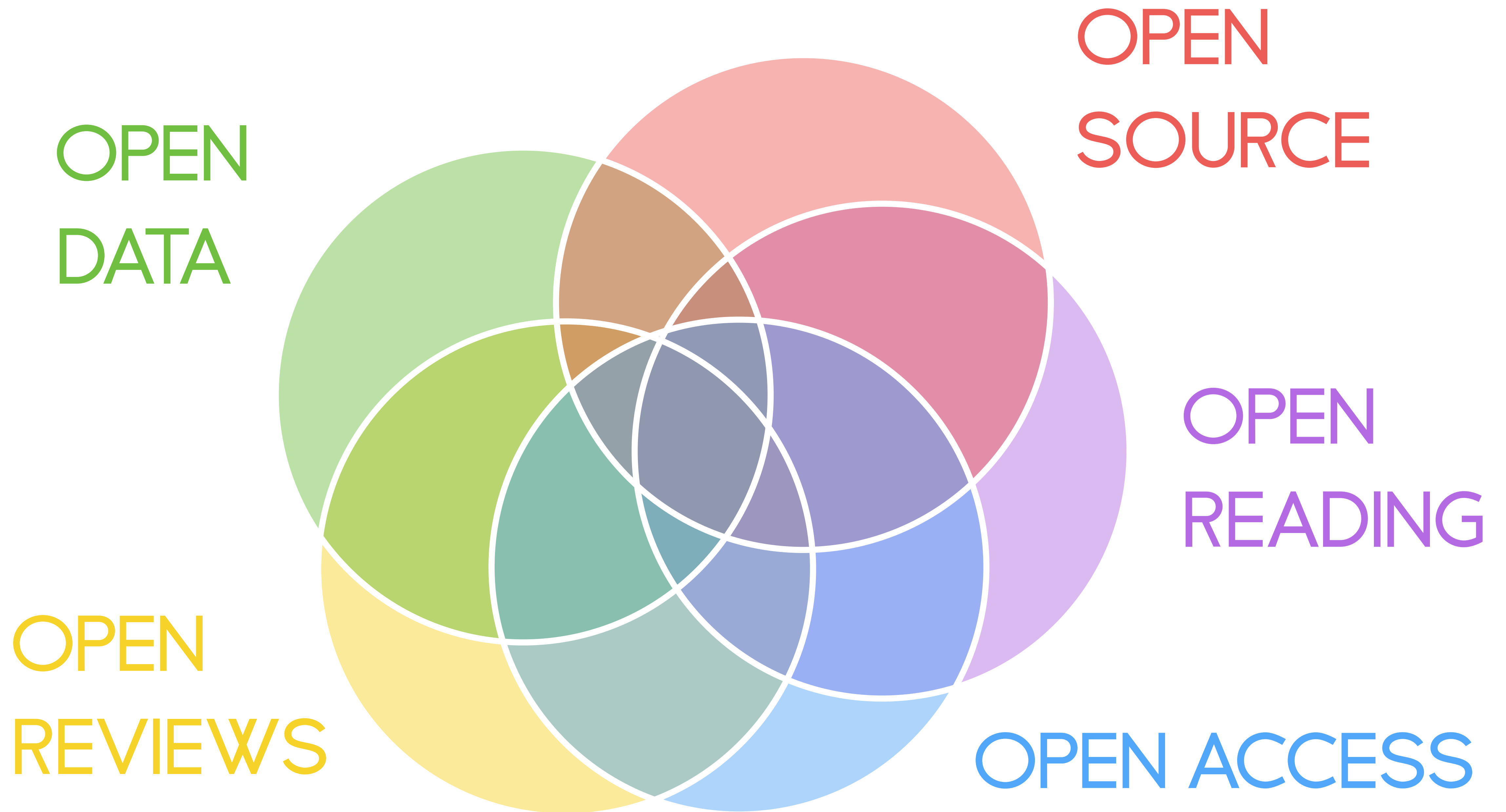
sourceforge.org

DIFFERENT **TYPES** OF LICENCES



MY OWN EXPERIENCE... IT IS **SLOW**!

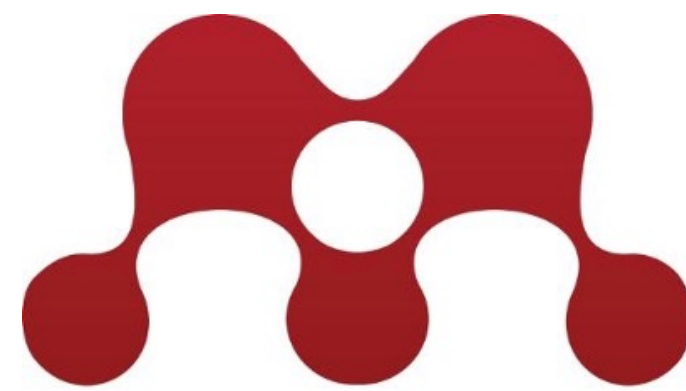




SHARE ALL YOUR READINGS



www.zotero.org



MENDELEY

www.mendeley.com


A screenshot of the Mendeley Groups website. The top navigation bar includes links for Dashboard, My Library, Papers, Groups, and People. A search bar is located on the right. The main heading is 'Groups', with a subtext 'In this catalog: 106,690 public groups' and a 'Create a new group' button. Below this is a search bar with the placeholder 'Search groups...' and an example 'eg: Social networks'. A blue banner contains the text 'Search groups in your area of interest, share papers and start collaborating either publicly or privately.' The main content area is divided into two columns. The left column, titled 'My groups', lists groups the user owns or can administer. The right column, titled 'Browse disciplines', lists various academic fields. The 'My groups' section lists four groups: 'Lateral roots' (36 papers, 2 members), 'Maize flowering' (19 papers, 2 members), 'Plant Flowering' (8 papers, 4 members), and 'Plant image analysis' (211 papers, 31 members). Each group entry includes a thumbnail image, a title, a description, tags, and a 'Group settings' link. The 'Browse disciplines' section lists 25 disciplines, including Arts and Literature, Astronomy / Astrophysics / Space Science, Biological Sciences, Business Administration, Chemistry, Computer and Information Science, Design, Earth Sciences, Economics, Education, Electrical and Electronic Engineering, Engineering, Environmental Sciences, Humanities, Law, Linguistics, Management Science / Operations Research, Materials Science, Mathematics, Medicine, Philosophy, Physics, Psychology, Social Sciences, and Sports and Recreation.

SHARE ALL YOUR **REVIEWS**

- pre/post publication
- **verified**
- **public** reviews



www.publons.com



[PROFILE](#) [STATISTICS](#)

Guillaume Lobet

Assistant Professor - ELI, Université Catholique de Louvain - Present
Assistant Professor - IBG3, Forschungszentrum Juelich

Lab website
Twitter
Personal website

[Edit your profile](#)
[Download your record](#)

✓

 Verified reviewer

📖

 182 Reviewer Merit

📝

 62 reviews

🏆

AWARDS

🏆

🌟

IDENTIFIERS

publons.com/a/207362/

orcid.org/0000-0002-5883-4572

researcherid.com/rid/R-2063-2017

Share on Twitter

NAVIGATE
Serves on 1 editorial board
Has reviewed for 18 journals

BIO

The aim of my research is to better understand how root and shoot influence each other and how this interaction contributes to the development of the plant. Such an integrated approach represents a realistic potential to identify major plant growth controlling components, therefore we aim to transfer this knowledge to the crop species maize.

RESEARCH FIELDS

PLANT BIOLOGY

EDITORIAL BOARD MEMBERSHIPS
CURRENT MEMBERSHIPS

Plant Direct

EDITOR RECORDS (MANUSCRIPTS HANDLED AS EDITOR)

Get recognition for your handling editor work by adding records [here](#).

HAS REVIEWED FOR

(16) Plant Methods

(6) GigaScience

(5) Plos One

(7) Journal of Experimental Botany

(5) Plant and Soil

(3) Frontiers in Plant Science

Come In
WE'RE
OPEN

814
COLORANTE



Pimentón
Ahumado
2'90 €
751
Sin gluten

BUILD UP YOUR

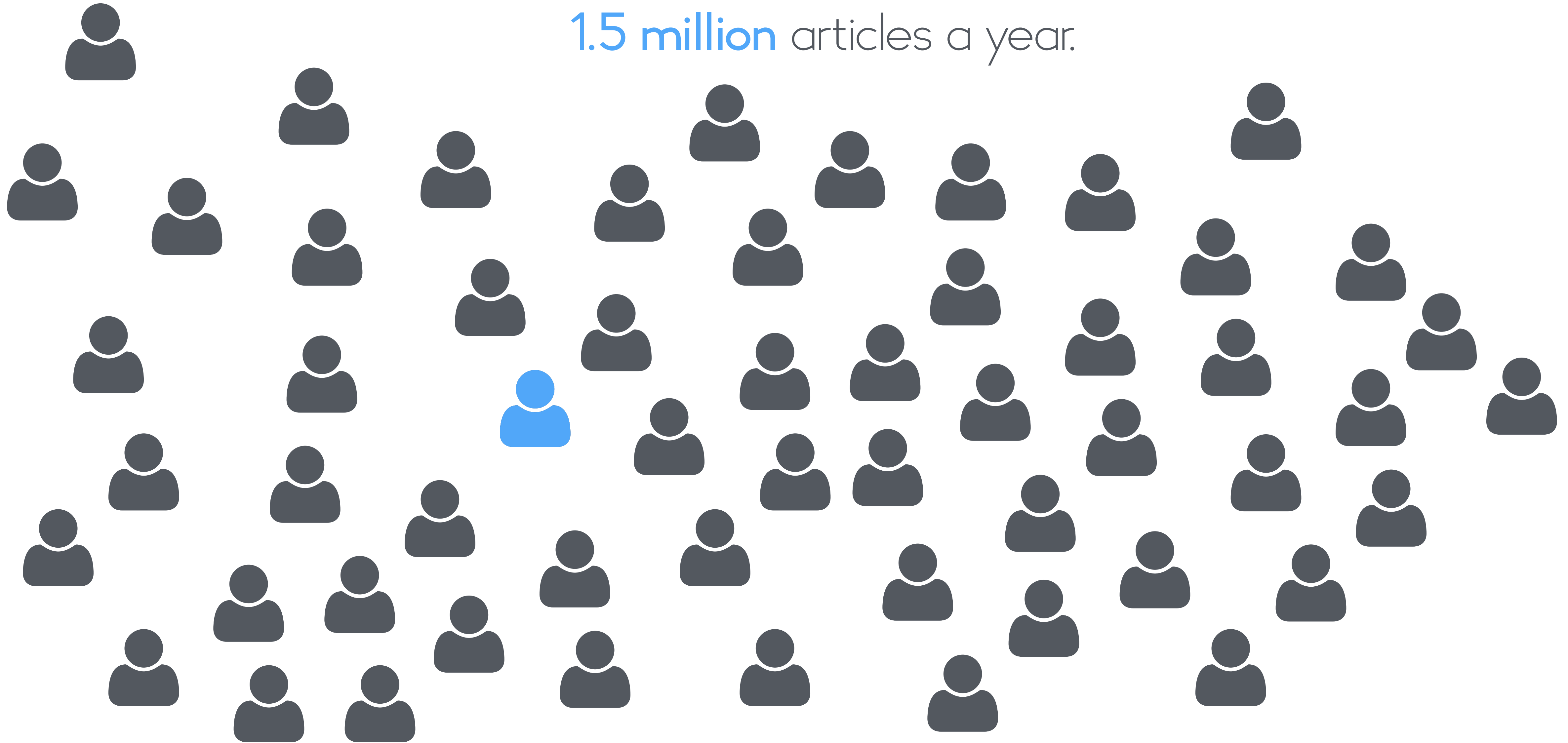
SCIENTIFIC
PROFILE

3



SCIENCE IS BIG, YOU ARE UNIQUE

1.5 million articles a year.





Guill@ume Lobet

@guillaumelobet

When looking for informations about an other scientist you use:

55% Google

29% Google Scholar

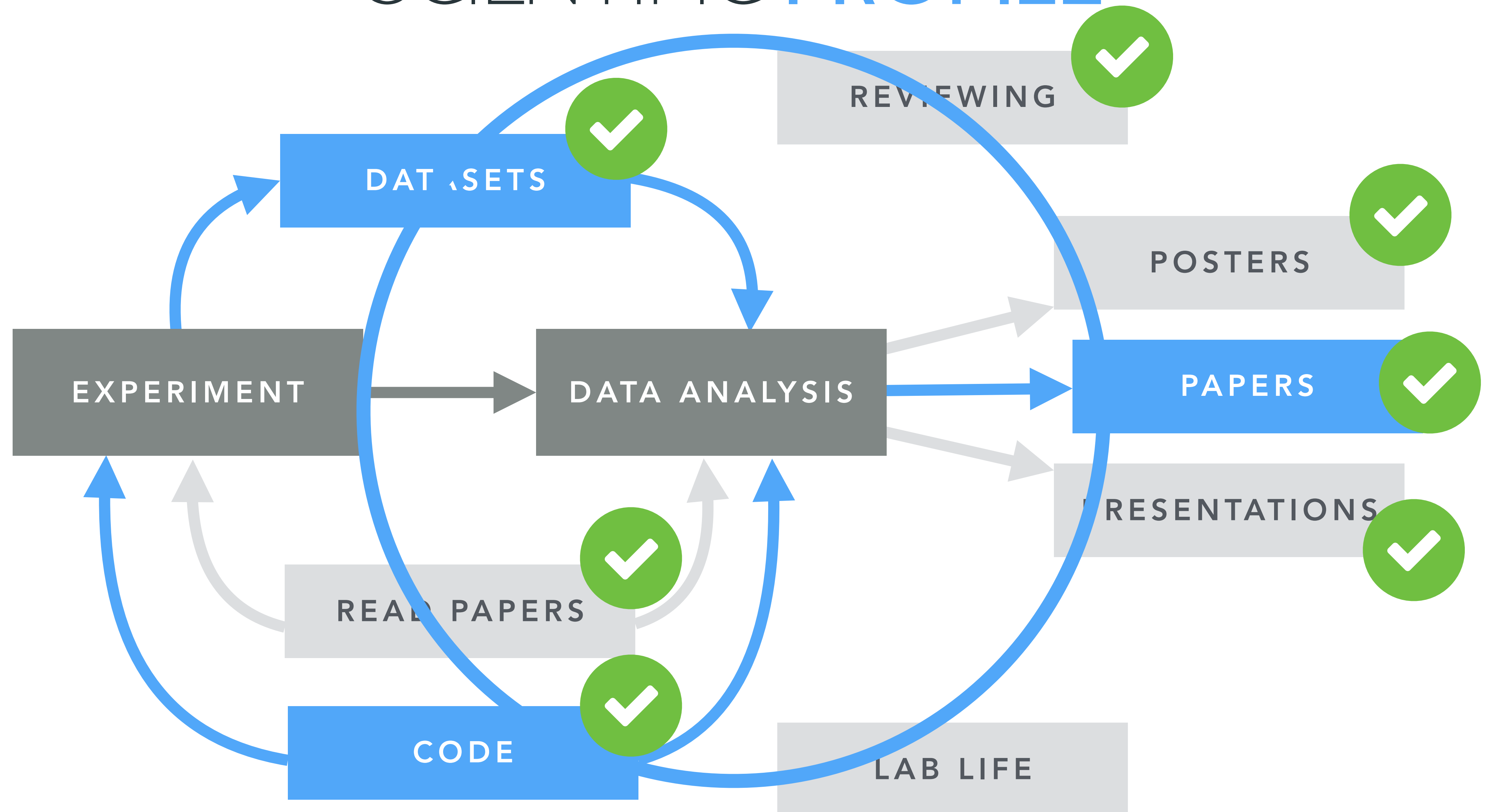
6% Scopus, ISI Web,...

10% ResearchGate, Academia,...

121 votes • 1 day left

HAVING A **WEB PRESENCE**
IS **ESSENTIAL**
FOR SCIENTISTS


SCIENTIFIC PROFILE



GET A **UNIQUE IDENTIFIER** WITH ORCID

- **Avoid confusion** between similar names (J. Smith or J. Wang)
- Used by publishers, platforms, ...



Guillaume Lobet
 <http://orcid.org/0000-0002-5883-4572>

Country: Belgium
Keywords: root system, water uptake, plant physiology, image analysis
Websites:
Personal
Plant Image Analysis
Other IDs:
Scopus Author ID: 36091572800

Personal information
Biography

I am a post-doc researcher at the Université de Liège, in Belgium, in the Plant Physiology lab of Pr. Claire Perilleux.

The aim of my research is to better understand how root and shoot influence each other and how this interaction contributes to the development of the plant. Such an integrated approach represents a realistic potential to identify major plant growth controlling components, therefore we aim to transfer this knowledge to the crop species maize.

Works

- Plant Water Uptake in Drying Soils 2014-02** +
- An online database for plant image analysis software tools 2013** +
- Comparative analysis of Cd and Zn impacts on root distribution and morphology of Lolium perenne and Trifolium repens: implications for phytostabilization 2013** +
- Novel scanning procedure enabling the vectorization of entire rhizotron-grown root systems 2013** +
- Root systems biology: Integrative modeling across scales, from gene regulatory networks to the rhizosphere 2013** +
- A novel image-analysis toolbox enabling quantitative analysis of root system architecture 2011** +
- Model-assisted integration of physiological and environmental constraints affecting the dynamic and spatial** +

CREATE A PROFILE ON IMPACTSTORY

- Gather data from [ORCID](#) and add [altmetrics](#) on top



www.impactstory.org



Guillaume Lobet  

Forschungszentrum Jülich Assistant Professor

 **open access 100%** full OA 62%

★ **Open Hero!** [Share your score](#)

OVERVIEW

ACHIEVEMENTS

ACTIVITY

PUBLICATIONS

ACHIEVEMENTS

[view all](#)



Open Hero

 **Top 10%**

Every single one of your papers is free to read online. Wow! That's a level of access only 2% of other researchers achieve. Open access [helps real people](#), and that's pretty heroic.



Global Reach

★ **Top 25%**

Your research has been saved and shared in 34 countries. That's high: only 18% of researchers get that much international attention.

📍 Countries include Argentina, Australia, Austria and 31 more.



Hot Streak

 **Top 10%**

People keep talking about your research. Someone has shared your research online every month for the last 17 months. That's a sharing streak matched by only 1% of scholars.

ACTIVITY

[view all](#)


1457

Saves and shares
across 7 channels:

      
820 605 19 5 4 3 1


PUBLICATIONS

[view all](#)

 [GLO-Roots: an imaging platform enabling multidimensional characterization of soil-grown root systems](#)

2015 *Elife*

229     

 [Model-assisted integration of physiological and environmental constraints affecting the dynamic and spatial patterns of root water uptake from soils](#)

2010 *Journal of Experimental Botany*

120 

 [A novel image-analysis toolbox enabling quantitative analysis of root system architecture](#)

2011 *Plant Physiology*

116 

CREATE A PROFILE ON GOOGLE SCHOLAR



Guillaume Lobet

FOLLOWING

Assistant Professor, [Forschungszentrum Jülich](#) & Université catholique de Louvain

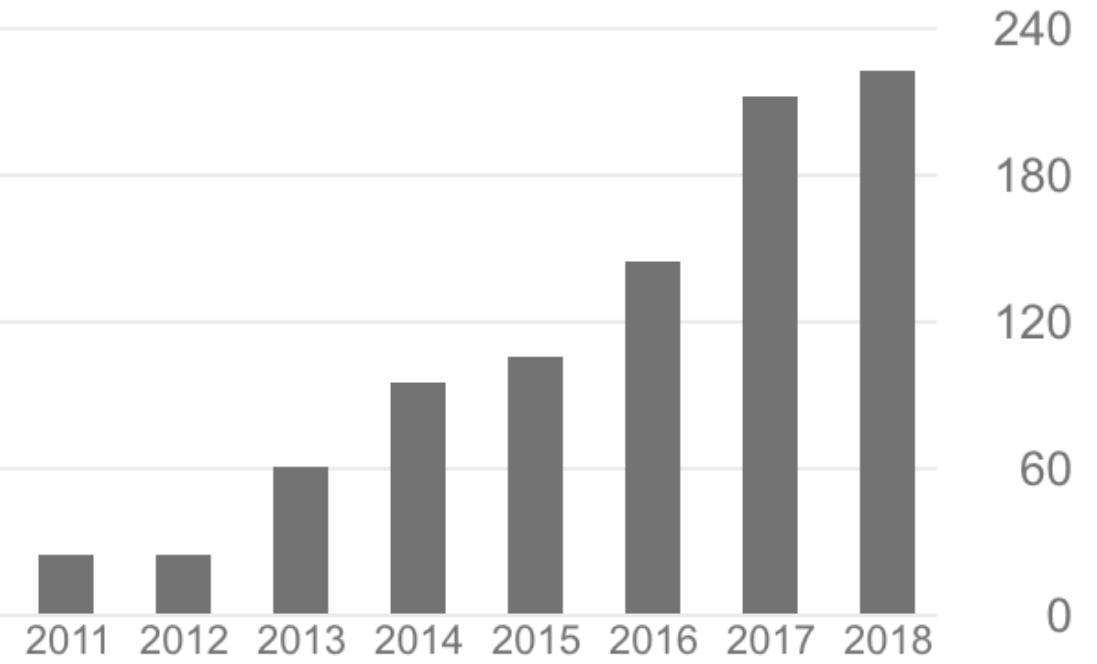
Verified email at fz-juelich.de - [Homepage](#)

[root system](#) [image analysis](#) [modelling](#)

<input type="checkbox"/>	TITLE				CITED BY	YEAR
<input type="checkbox"/>	A novel image-analysis toolbox enabling quantitative analysis of root system architecture			G Lobet, L Pagès, X Draye	210	2011
	Plant physiology 157 (1), 29-39					
<input type="checkbox"/>	Model-assisted integration of physiological and environmental constraints affecting the dynamic and spatial patterns of root water uptake from soils			X Draye, Y Kim, G Lobet, M Javaux	132	2010
	Journal of experimental botany 61 (8), 2145-2155					
<input type="checkbox"/>	An online database for plant image analysis software tools			G Lobet, X Draye, C Périlleux	110	2013
	Plant methods 9 (1), 38					
<input type="checkbox"/>	GLO-Roots: an imaging platform enabling multidimensional characterization of soil-grown root systems			R Rellán-Álvarez, G Lobet, H Lindner, PL Pradier, J Sebastian, MC Yee, ...	62	2015
	Elife 4, e07597					
<input type="checkbox"/>	Plant water uptake in drying soils			G Lobet, V Couvreur, F Meunier, M Javaux, X Draye	55	2014
	Plant Physiology, pp. 113.233486					
<input type="checkbox"/>	FLOR-ID: an interactive database of flowering-time gene networks in Arabidopsis thaliana			F Bouché, G Lobet, P Tocquin, C Périlleux	50	2015
	Nucleic acids research 44 (D1), D1167-D1171					

Cited by

	All	Since 2013
Citations	906	848
h-index	13	13
i10-index	19	19



Co-authors

[EDIT](#)

- Xavier Draye**
Professeur en génétique et écop...
- Mathieu Javaux**
Université catholique de Louvain
- Loïc Pagès**
Senior scientist, INRA Centre d'A...

CREATE YOUR PROFILE

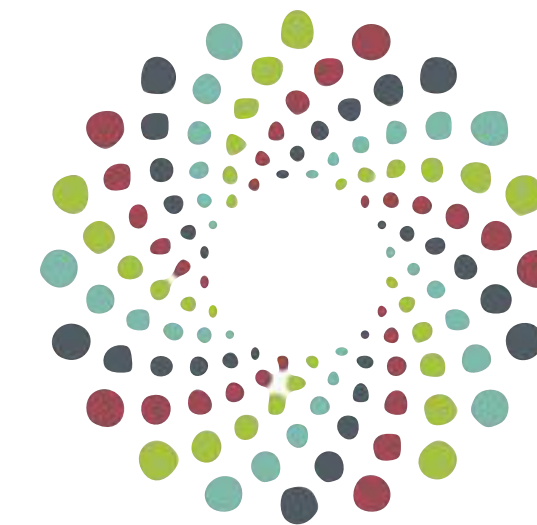
1



2



zenodo



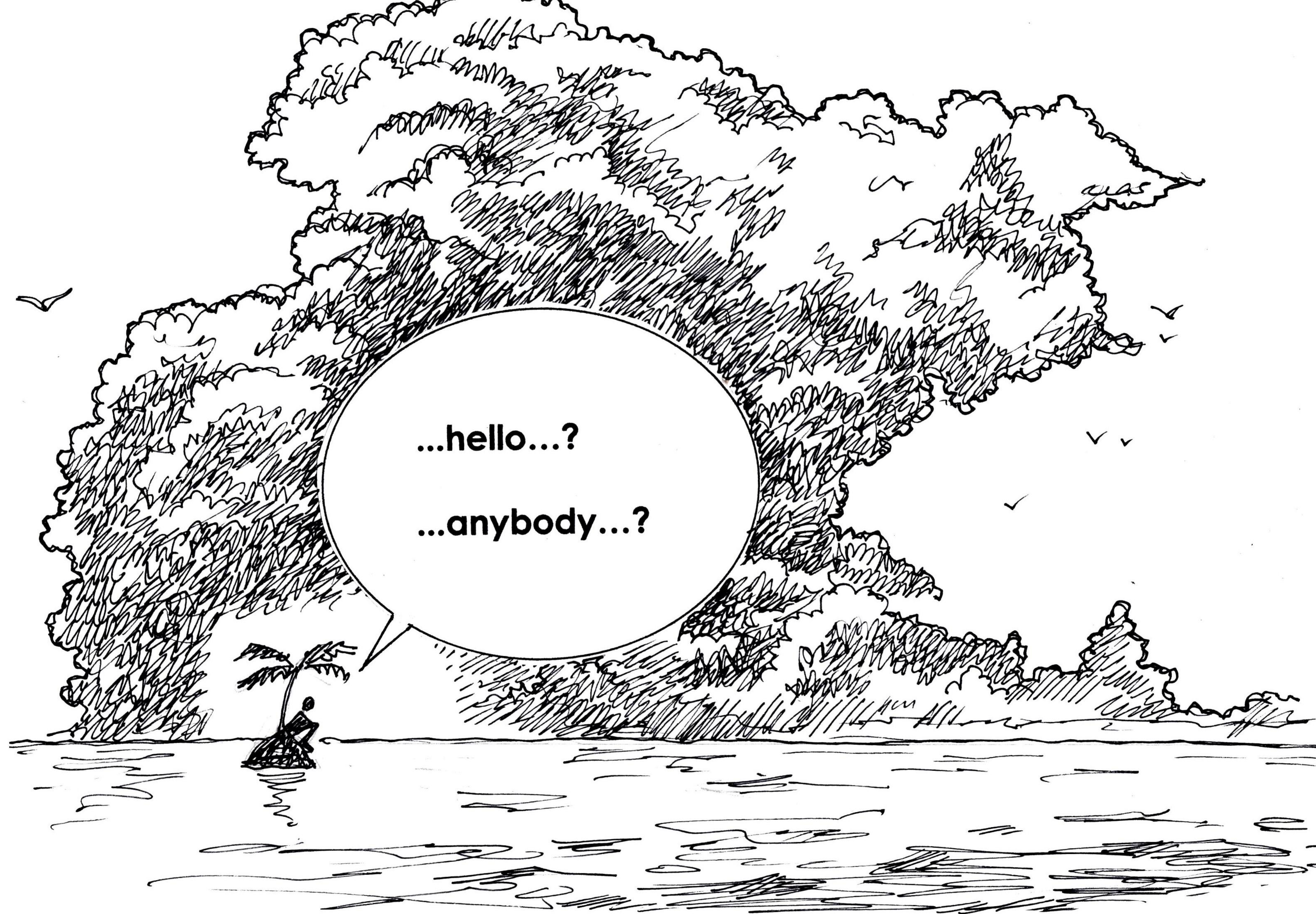
p

3

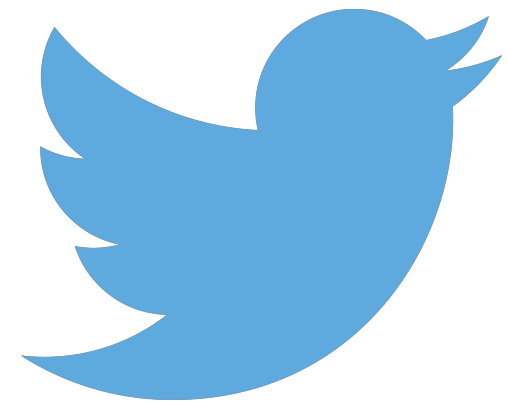


scienceOPEN.com
research+publishing network

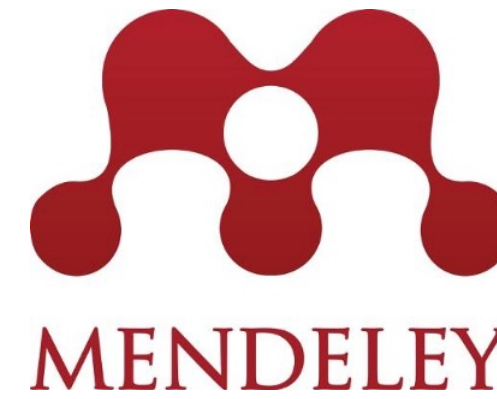
4 CONNECT WITH OTHERS



SCIENCE SOCIAL MEDIA



www.twitter.com



www.mendeley.com



www.facebook.com



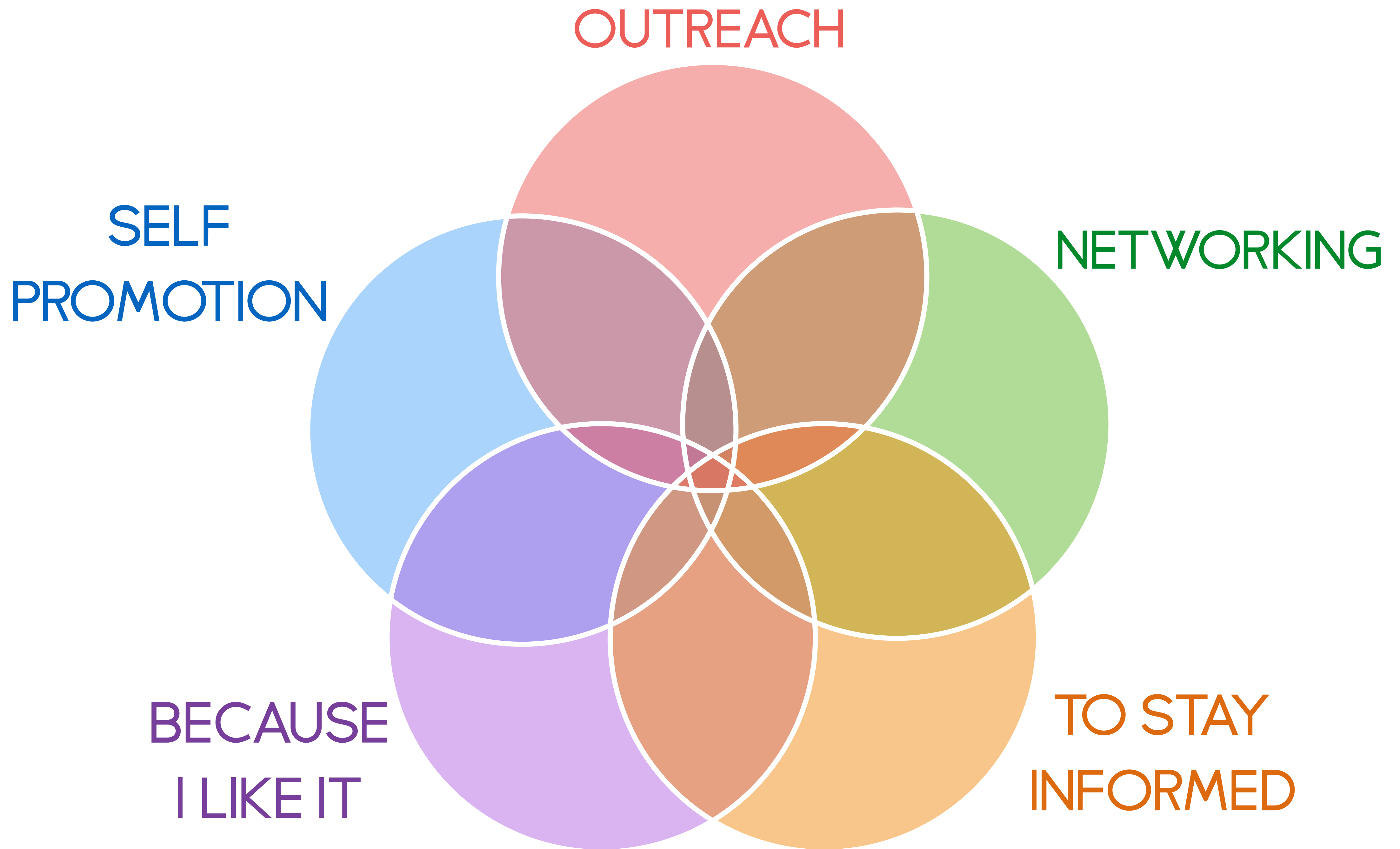
www.researchgate.net



www.linkedin.com



www.academia.edu



self promotion
networking
outreach

twitter
researchgate
blog

HO

daily
weekly
what ever

WHY

professional only
mixed with personal
cat pictures

HEN

IS IT
WORTH
IT?

TWEETING ARTICLES



PDF downloads

1,836



100's of view in a couple of hours

ASKING HELP TO YOUR COMMUNITY

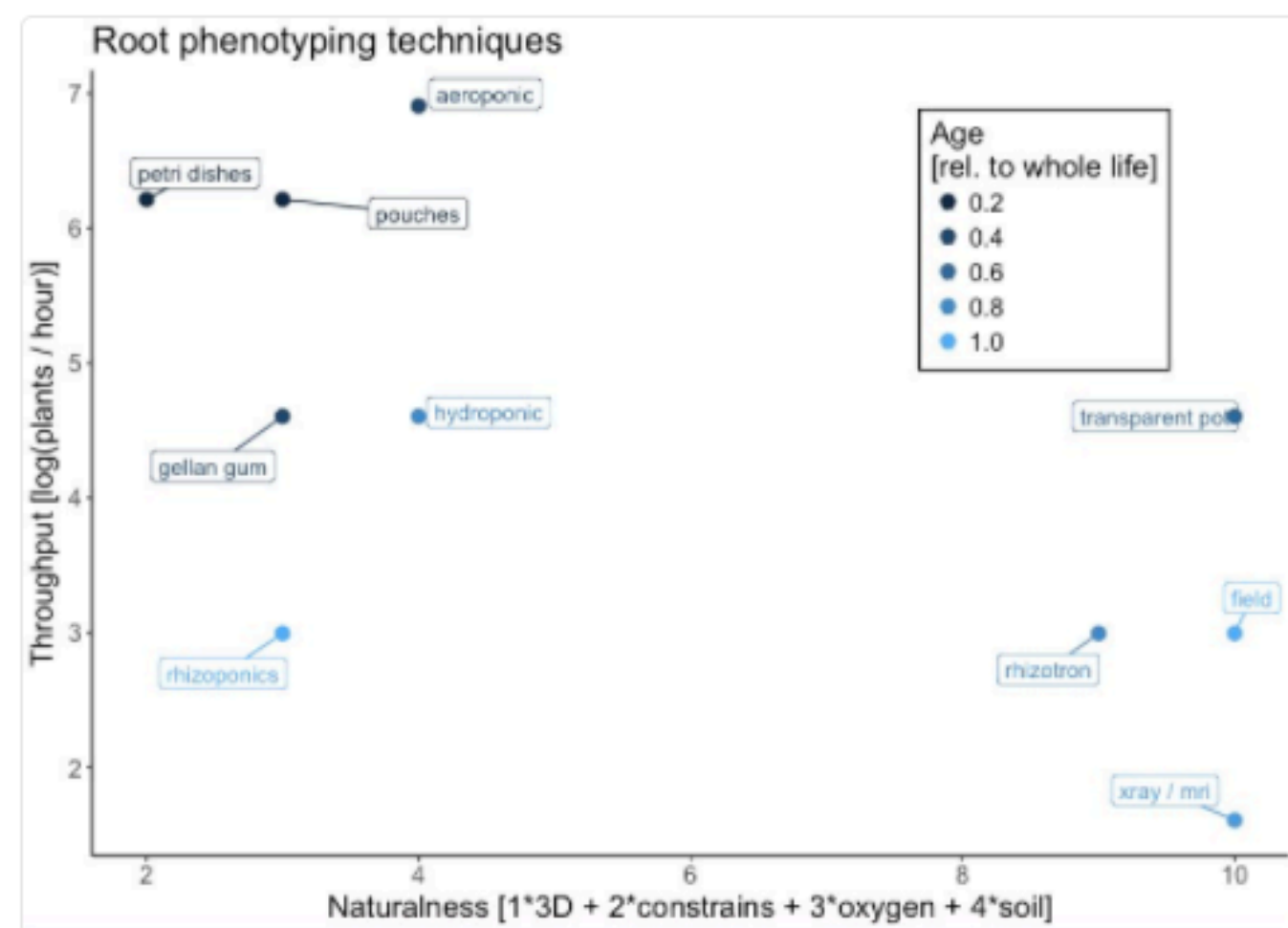
3

1



Guill@ume Lobet @guillaumelobet · Feb 24

Hey #root #phenotyping tweeps, I am trying to make a plot to compare #techniques . What do you thing? Comment here: docs.google.com/spreadsheets/d/...



2



Guill@ume Lobet @guillaumelobet · Feb 24

. @guillaumelobet most data not coming from strict litt. review. All input / corrections / comments welcome



Molly Hanlon @mthanlon · Feb 24

@guillaumelobet - I'm guessing @LarryMattYork will have some suggestions



Larry M. York @LarryMattYork · Feb 24

@mthanlon @guillaumelobet I was just gonna say its perfect but Molly forced me. naturalness needs penalty for pot size. field = most natural



Guill@ume Lobet @guillaumelobet · Feb 25

@LarryMattYork @mthanlon Agreed! I am adding a "constrain" field to the table :)



Colby Moorberg @ColbyDigsSoil · Feb 24

@guillaumelobet @ErinSparksPhD I left a few comments. I'll be interested in the final product. @sweetpotato360, any thoughts?



Guill@ume Lobet @guillaumelobet · Feb 24

@ColbyDigsSoil @ErinSparksPhD @sweetpotato360 great thanks. I ll update it when finished!



Erin E. Sparks @ErinSparksPhD · Feb 24

@guillaumelobet - @RootDevo or @Anjali_IP want to weigh in?



xing Lu @lurishen · Feb 26

@guillaumelobet Technique like hydroponic with 3d-printed mesh tower can only imaging crop root within about 10 DAT, very young seedlings.

I changes saved in Drive

	F	G	H	I	J
	infinite_space	time-series	age	throughput	
0	0	YES	0,2	2400	
1	0	YES	0,8	20	
1	1	NO	1	20	
1	1	YES	1	4	
1	1	NO	1	1	
0	1	YES	0,8	100	
0	1	YES	0,4	1000	PLANTS / HOUR
0	0	YES	0,2	500	
0	1	YES	1	20	
1	0	YES	0,6	100	
0	0	YES	0,4	100	
1	0	YES	0,9	5	

RELATIVE TO THE MAX AGE OF THE PLANT

Notifications

Comment

Reply...

Wolfgang Busch

Selected text:

500

I think with our BRAT scanner cluster we image approx. 2400 plants per hour per person ; prep time 1 day for these amounts of plates though;

Reply · Resolve

Wolfgang Busch

Of course I mean Arabidopsis plants; larger plant species will take longer as less plants per plate can be grown

10:05 PM Feb 24

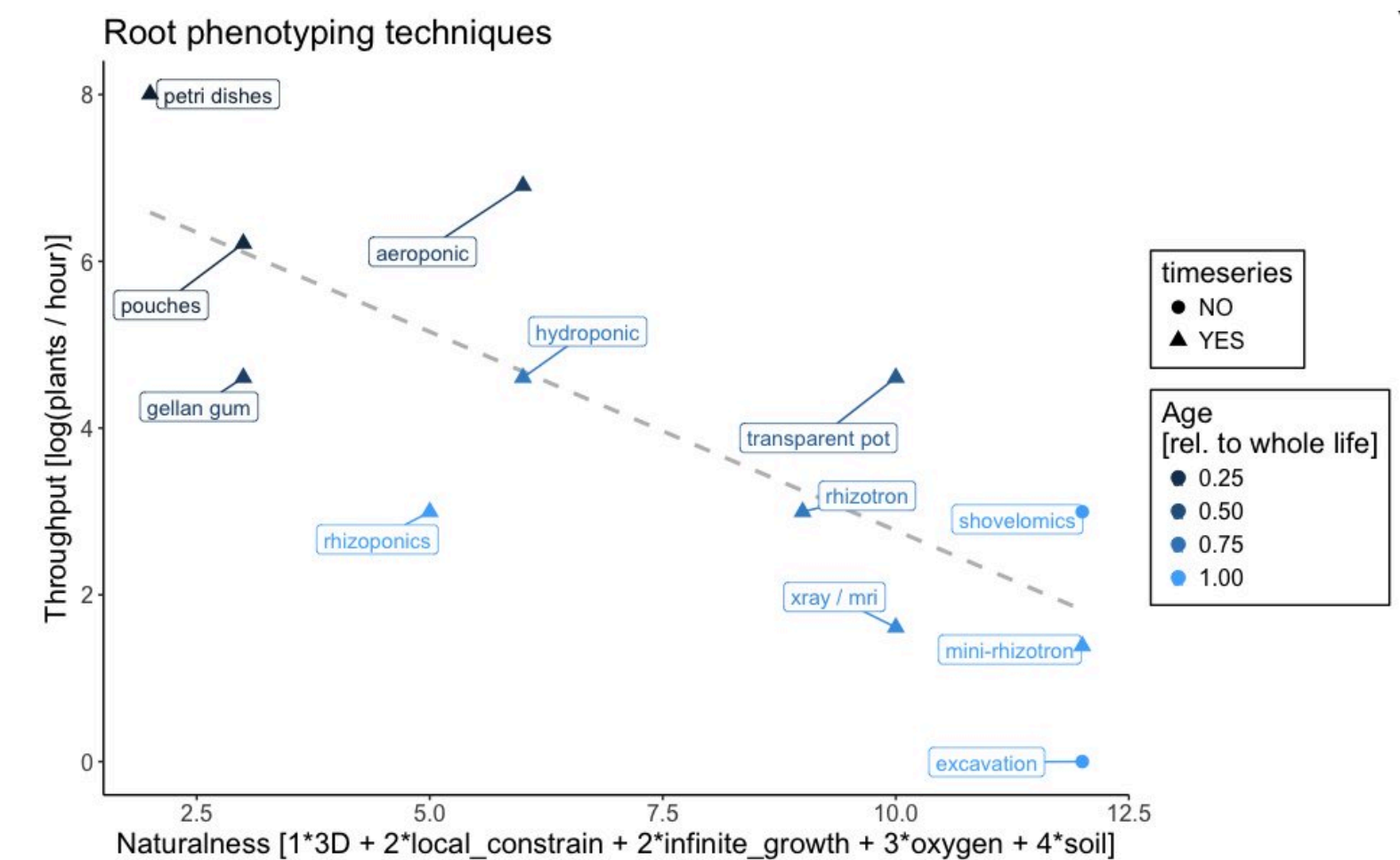
Guillaume Lobet

Hey Wolfgang, thanks for your comment! I'll update to the BRAT throughput then. Could you just tell how long you can keep the plant in there? A few days, right?

9:54 AM Feb 25

Wolfgang Busch

4



TWITTER REVIEWING

1



Guill@ume Lobet @guillaumelobet · 15 Sep 2016

We made a **library of ground-truth root imgs** > preprint: bit.ly/2cKxmmc
@lkoKoevoets @cperilleux @PTocquin



3 52 72

2

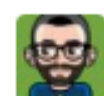


Larry M. York
@LarryMattYork

Follow

@guillaumelobet did archisimple make 2d or 3d systems? if 3d, did you consider rotational effects on comparing 2d image traits? 3/n

8:47 PM - 16 Sep 2016



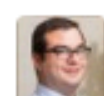
Guill@ume Lobet
@guillaumelobet

Follow

<http://dx.doi.org/10.1073/pnas.1304354110>

@LarryMattYork both 2d and 3d are possible. We used 3d in this study, to mimic gellan gum setup (dx.doi.org/10.1073/pnas.1304354110)

9:18 AM - 19 Sep 2016



Larry M. York
@LarryMattYork

Follow

@guillaumelobet so then the 2d images are flattened projections of the 3d? could you rotate the 3d to different angles before flattening? 1/n

2:51 PM - 19 Sep 2016



Larry M. York
@LarryMattYork

Follow

@guillaumelobet rotating 3d a few times before flattening would allow sensitivity analysis, mimics user placement for 'shovelomics' 2/2

2:51 PM - 19 Sep 2016



Larry M. York
@LarryMattYork

Follow

@rrellanalvarez @guillaumelobet Semantics are hugely important if we are to explain these difficult concepts! 1/2

2:58 PM - 19 Sep 2016



Larry M. York
@LarryMattYork

Follow

@rrellanalvarez @guillaumelobet I had thought of doing the same for parameter sets in SimRoot as SILICOTYPES! 2/2

2:58 PM - 19 Sep 2016



Guill@ume Lobet
@guillaumelobet

Follow

@LarryMattYork @rrellanalvarez Silicotype is nice as well :) We should coordinate on this one!

4:38 PM - 19 Sep 2016



Guill@ume Lobet
@guillaumelobet

Follow

@rrellanalvarez @LarryMattYork well, that would be our synthetic loci AKA model parameter :)

1:27 PM - 19 Sep 2016



Rubén Rellán-Alvarez
@rrellanalvarez

@guillaumelobet @LarryMattYork p would expect you could tell what a synthetype

1:13 PM - 19 Sep 2016



Rubén Rellán-Alvarez
@rrellanalvarez

@guillaumelobet @LarryMattYork t param. If synthetype \approx genotype t explain it just 1/2

1:42 PM - 19 Sep 2016



Rubén Rellán-Alvarez
@rrellanalvarez

@guillaumelobet @LarryMattYork v 2/2

1:42 PM - 19 Sep 2016



Rubén Rellán-Alvarez
@rrellanalvarez

@guillaumelobet @LarryMattYork a that esteems as J Lynch says from phenotype.

1:48 PM - 19 Sep 2016



2014

Follow each other's
work

Connect with each
other on twitter

2013

BUILDING **NEW** COLLABORATIONS



Ruben Rellan-Alvarez
@rrellanalvarez

Real Life – **Twitter** –
Email – **GitHub** –
Google Doc



WRAPPING UP

WRAPPING UP



GOOD FOR SCIENCE

Reproducibility
Long term vision
Error proofing

GOOD FOR YOU

Visibility
Valorise everything
More citations

GOOD FOR THE PUBLIC

Better use of
public money
Access

Everything / anything can be shared!

START SLOW!





A decorative network diagram in the bottom-left corner, consisting of dark blue and light blue nodes connected by lines, forming a complex web-like structure.

*“The internet was built
in the first place to
share scientific data”*

Mark Hahnel
figshare founder

 <http://bit.ly/open-aceli>