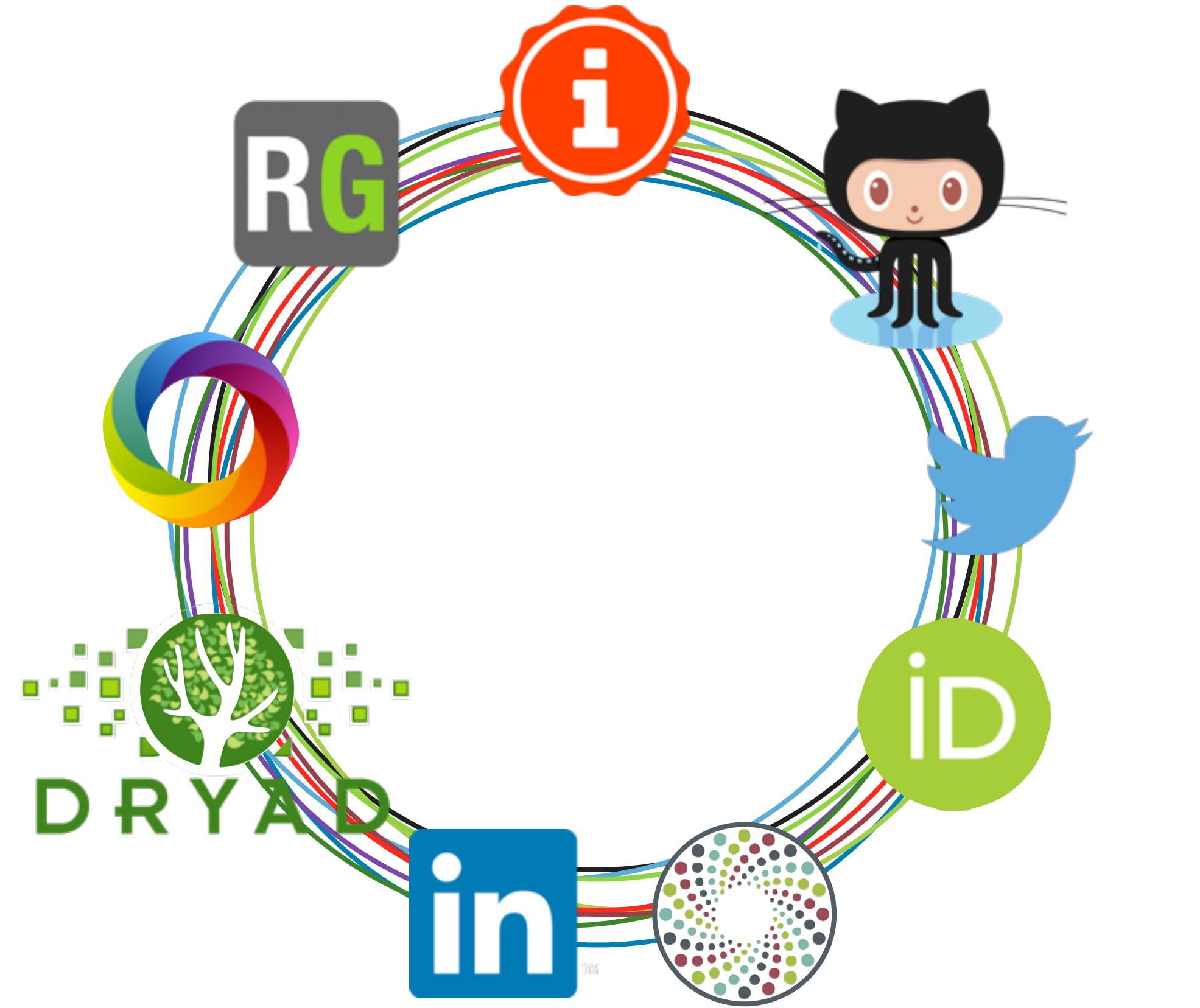




FOLLOW ME:
@koen_vde

SCIENTIFIC VALORISATION WORKSHOP

Guillaume Lobet
guillaume.lobet@ulg.ac.be
[@guillaumelobet](https://twitter.com/guillaumelobet)

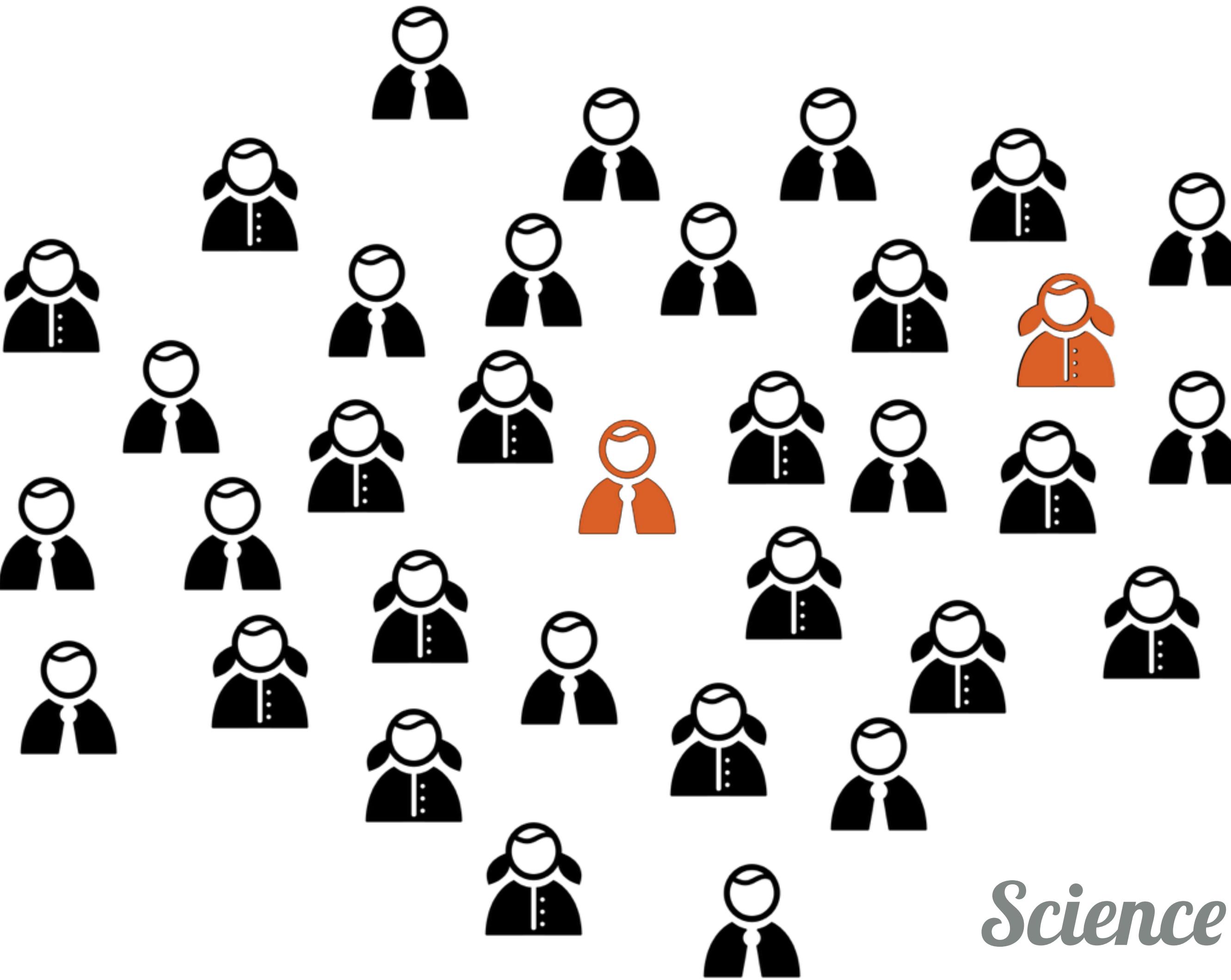




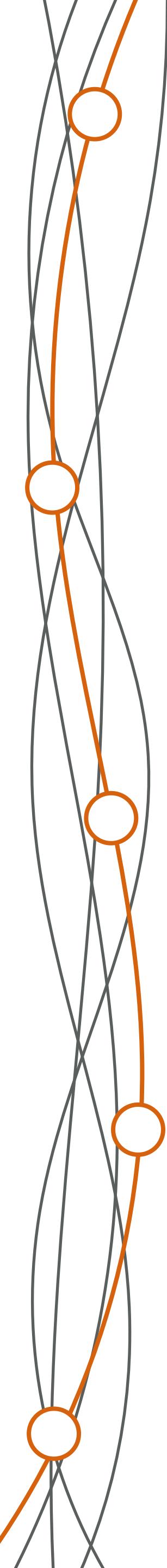
All the material for this course can be found here:

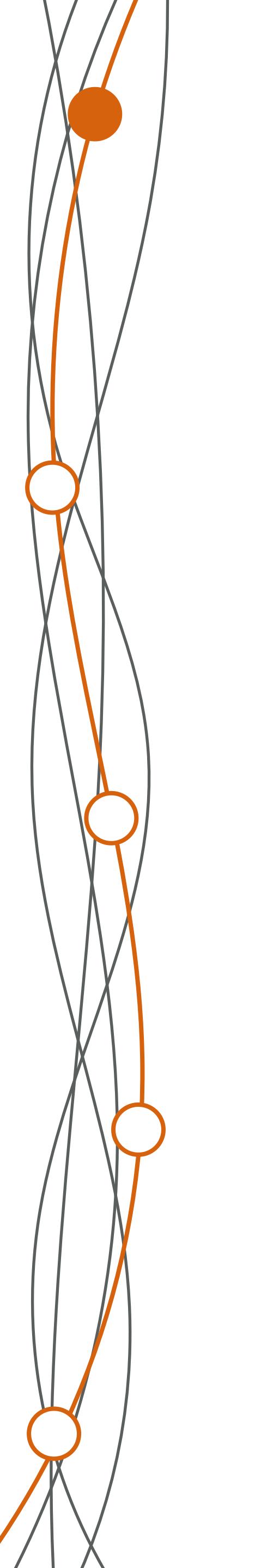
http://www.guillaumelobet.be/science_valorisation

WHAT WE WANT TO DO



*Science is **big**, you are **unique***

- 
1. PRESENTATION
 2. SCIENTOMETRICS
 3. PUBLISH EVERYTHING
 4. ADVERTISE YOURSELF

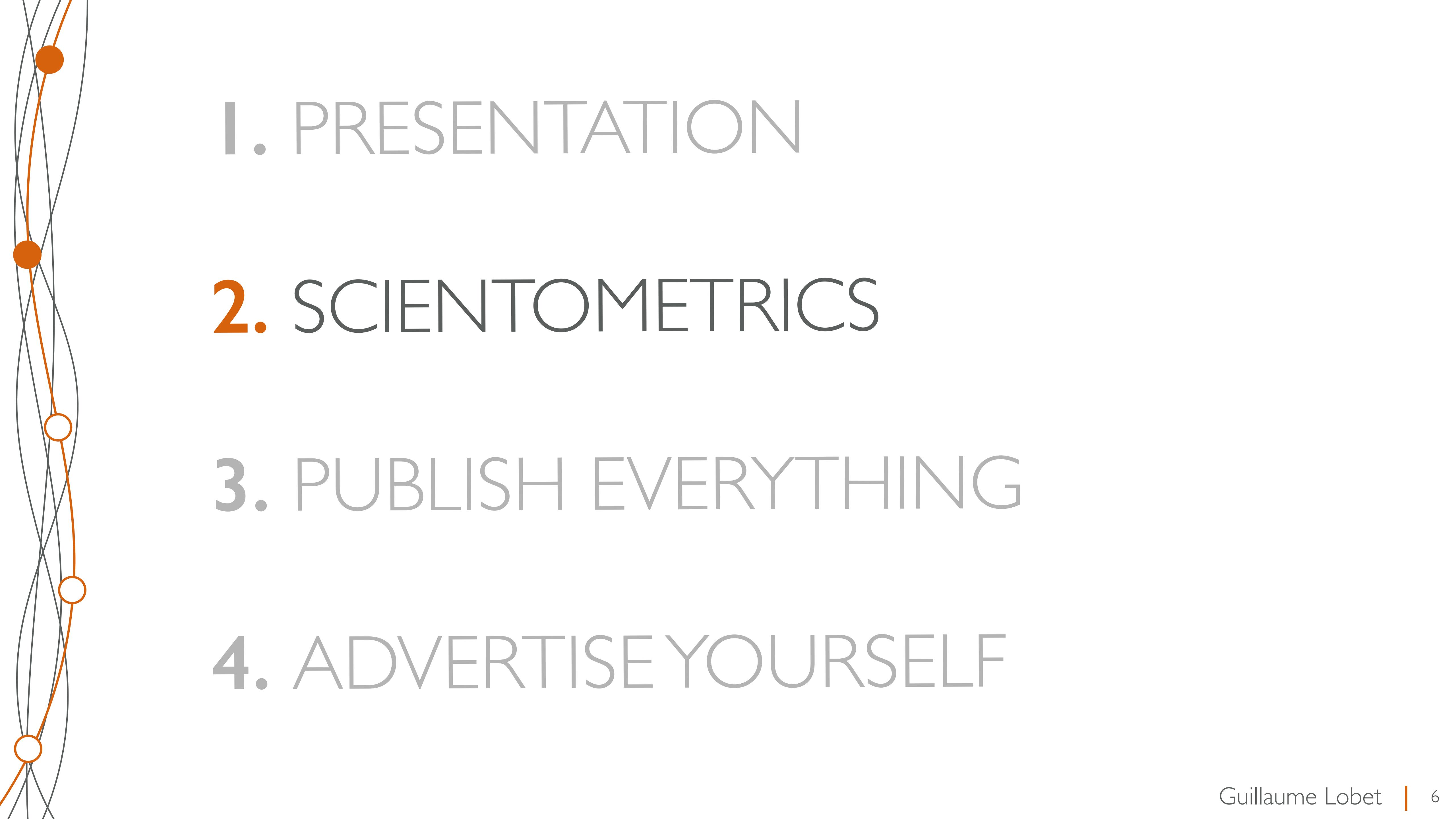


I. PRESENTATION

2. SCIENTOMETRICS

3. PUBLISH EVERYTHING

4. ADVERTISE YOURSELF



I. PRESENTATION

2. SCIENTOMETRICS

3. PUBLISH EVERYTHING

4. ADVERTISE YOURSELF

PRODUCTIVITY METRICS

WHY?

EVALUATIONS, GRANTS AND NEW POSITION

JOURNAL
LEVEL

SCIENTIST
LEVEL

PAPER
LEVEL

IMPACT FACTOR

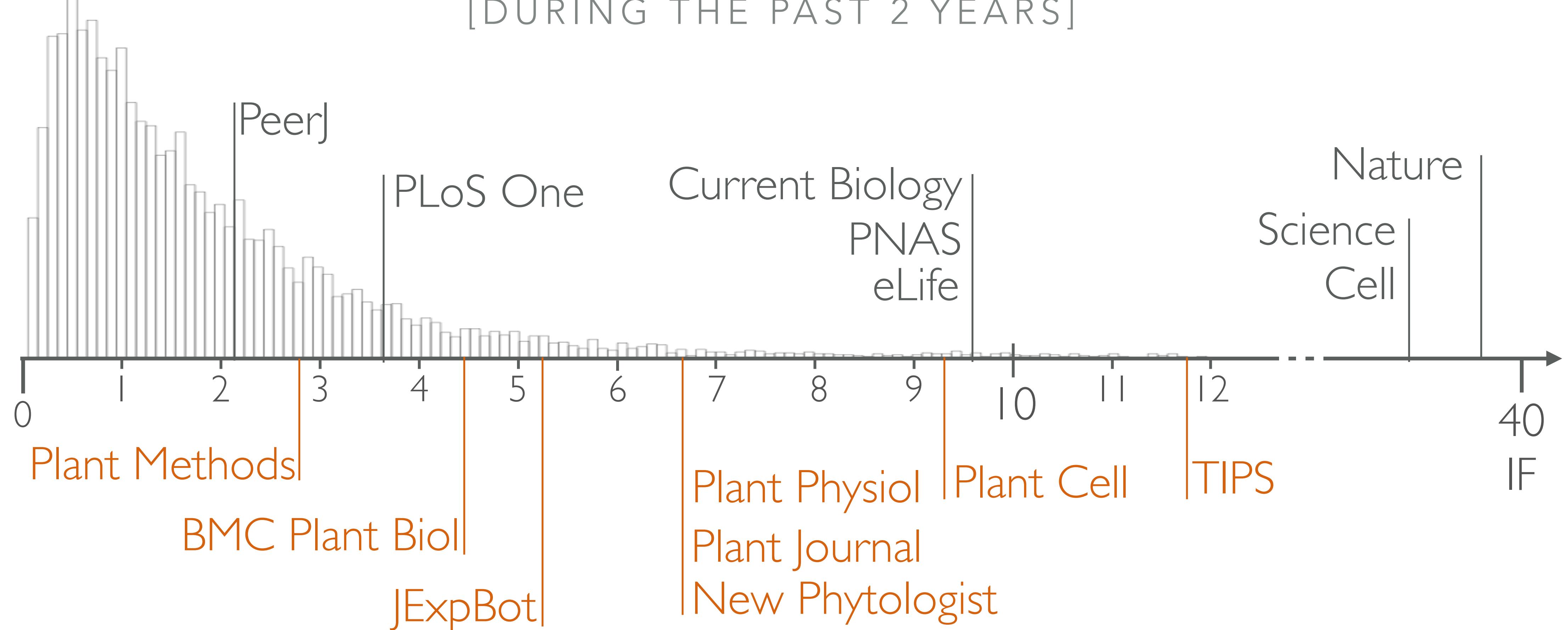
PAPERS
CITATIONS
H-INDEX

CITATIONS
ALTMETRICS

IMPACT FACTOR - JOURNAL LEVEL

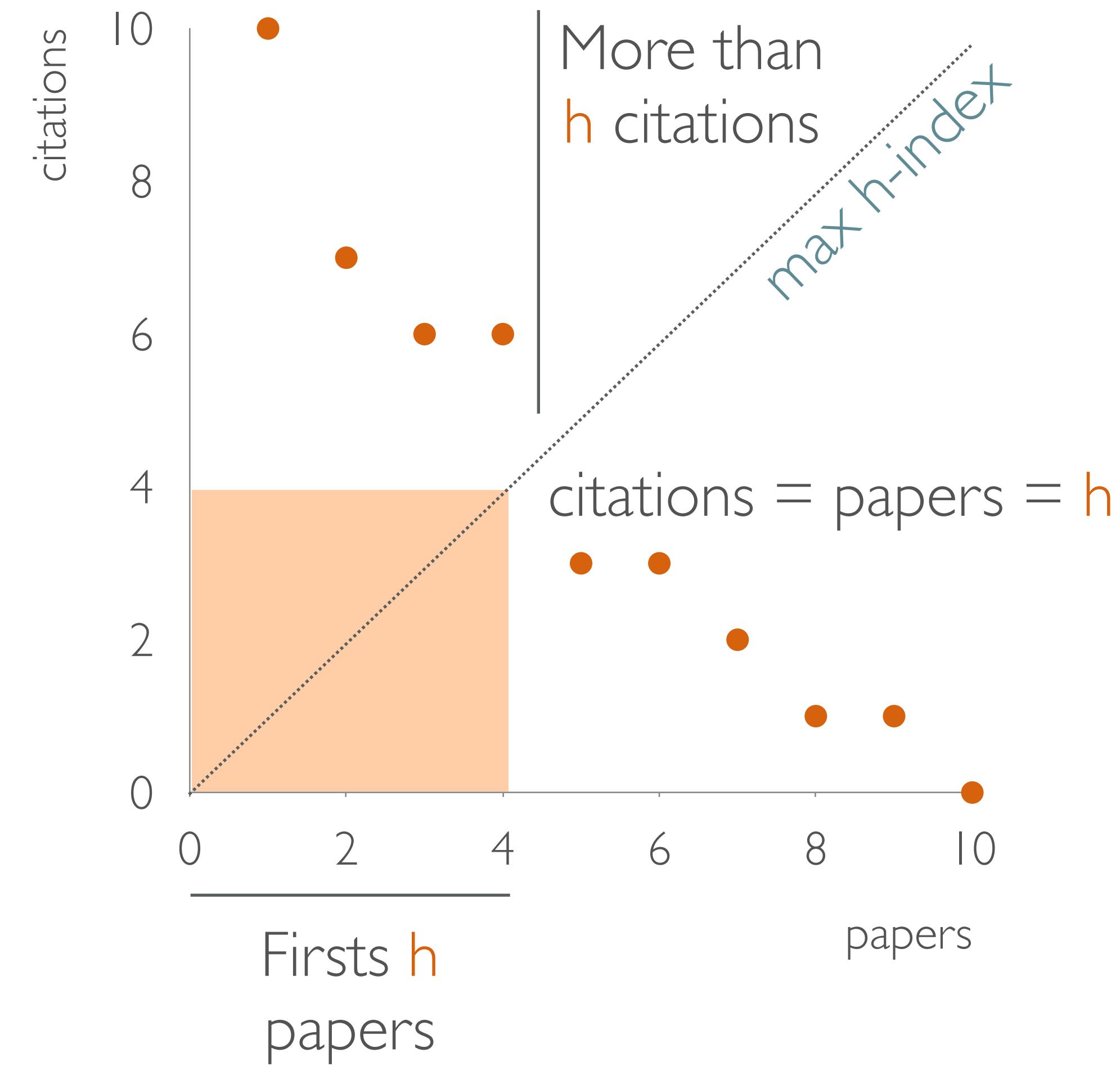
IF = # CITATIONS / # PAPERS

[DURING THE PAST 2 YEARS]



Source: ISI Journal Citation Report

H - INDEX - RESEARCHER LEVEL



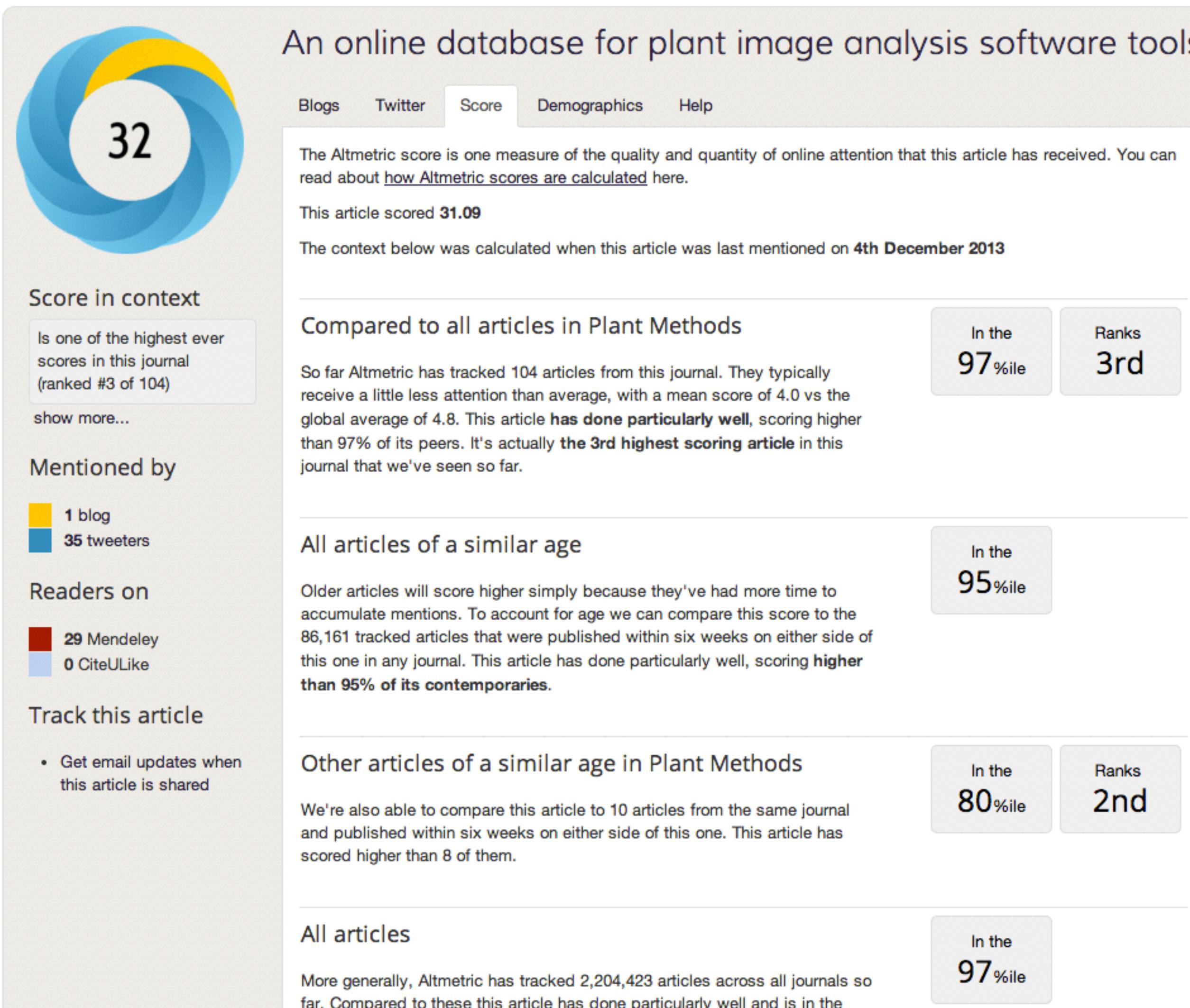
A scientist has index h if h of his/her n papers have at least h citations each, and the other $(n - h)$ papers have no more than h citations each.



www.altmetric.com

ALTMETRICS -ARTICLE LEVEL

"Article level metrics made easy."



Based on references in:

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

Used by

- NPG
- BioMed Central
- Springer
- ...

DIGITAL OBJECT IDENTIFIER

UNIQUE IDENTIFIER OF AN ELECTRONIC OBJECT

For:

- articles
- datasets
- codes
- ...

DOI ≠ peer-reviewed

Direct access to document based on DOI:
dx.doi.org/DOI

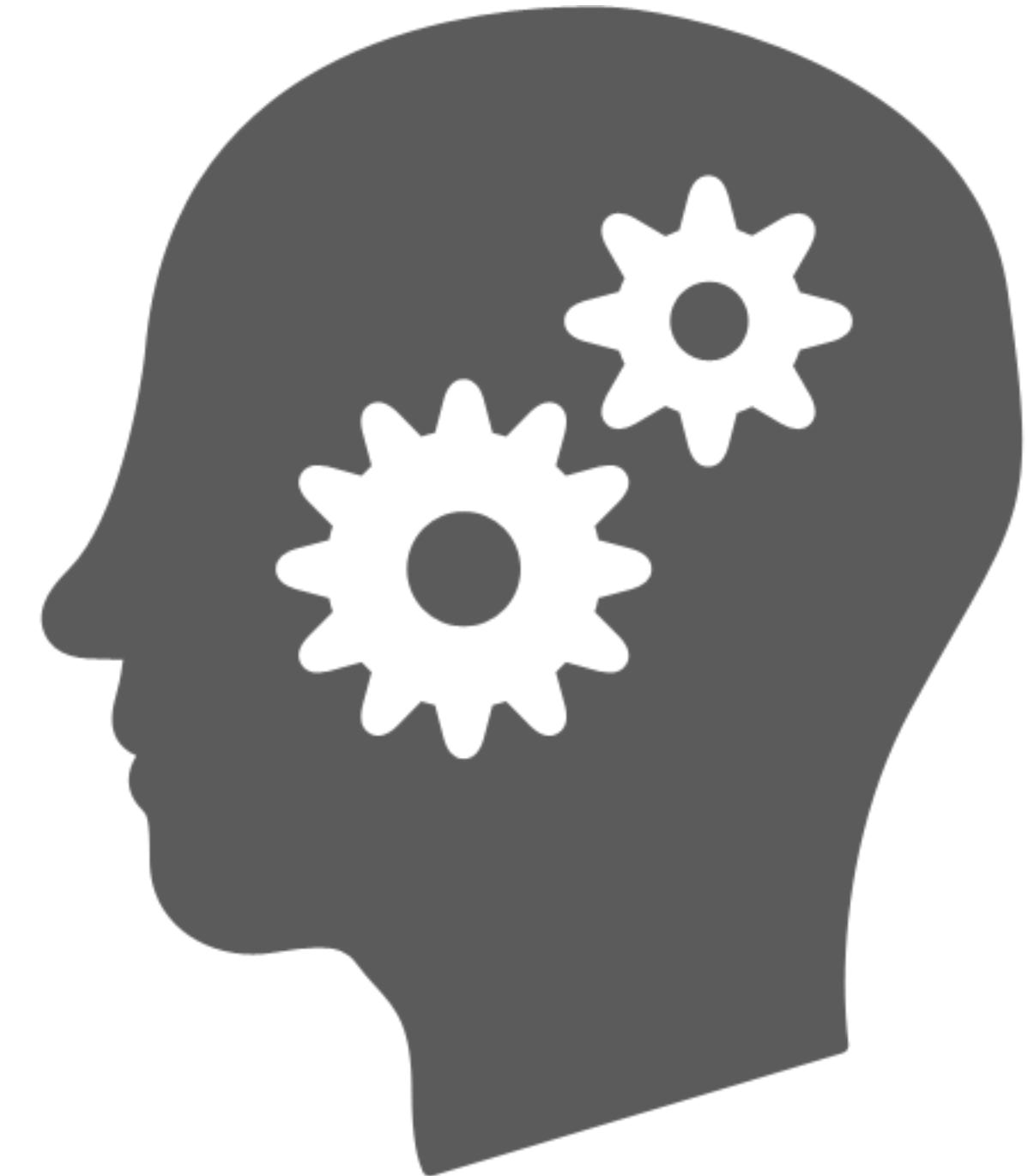


The screenshot shows a journal article from 'The Plant Cell' journal. The article title is 'Analysis of the Root System Architecture of *Arabidopsis* Provides a Quantitative Readout of Crosstalk between Nutritional Signals'. The DOI link, <http://dx.doi.org/10.1105/tpc.113.122101>, is highlighted with a red box. The page also includes links for 'Abstract', 'Full Text', 'Full Text (PDF)', 'PDF + Supp Data', 'Supplemental Data', and 'PPT Slides of All Figures'. The right sidebar features a search bar, a login form, and sections for 'More in Research Articles' and 'Current Issue'.

GROUP DISCUSSION I

5 group, homogeneous fields

- In your field, what do you know about:
 - the journal impact factors
 - the researchers h-index
- What are the limitations of
 - impact factor
 - h-index
 - altmetrics



Impact Factor

SOURCES

ISI Journal Citation Report

- <http://apps.webofknowledge.com/>
- <http://www.citefactor.org/journal-impact-factor-list-2014.html>

h-index

Scopus

- <http://www.scopus.com/>

Google Scholar

- <https://scholar.google.com>

altmetrics

altmetrics.com

- www.altmetrics.com/

LIMITATIONS

Impact Factor

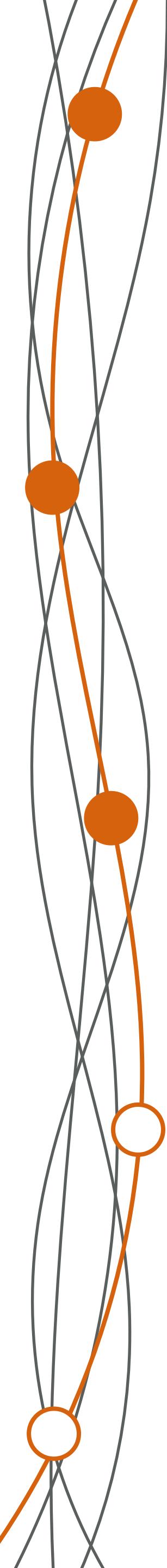
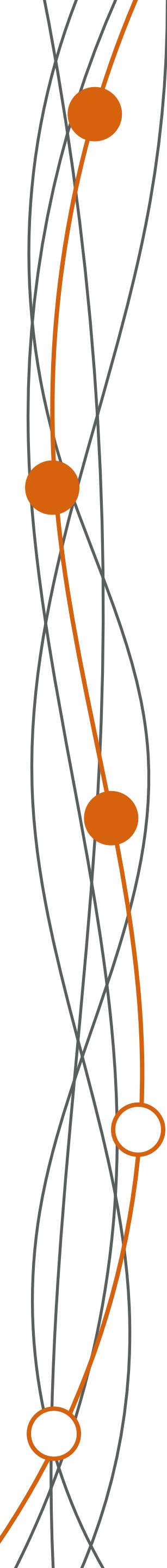
- Influenced by
 - trendiness
 - readership
 - publicity
 - field
 - auto-citations
 - journal policy
- Average of all papers
 - potential influence of start articles
 - higher for reviews

h-index

- Influenced by
 - age
 - trendiness
 - field
 - auto-citations
- Not influenced by
 - author contribution

altmetrics

- Influenced by
 - trendiness
 - buzz
 - author existing network
- Not influenced by
 - scientific quality

- 
- 
- I. PRESENTATION
 2. SCIENTOMETRICS
 - 3. PUBLISH EVERYTHING**
 4. ADVERTISE YOURSELF

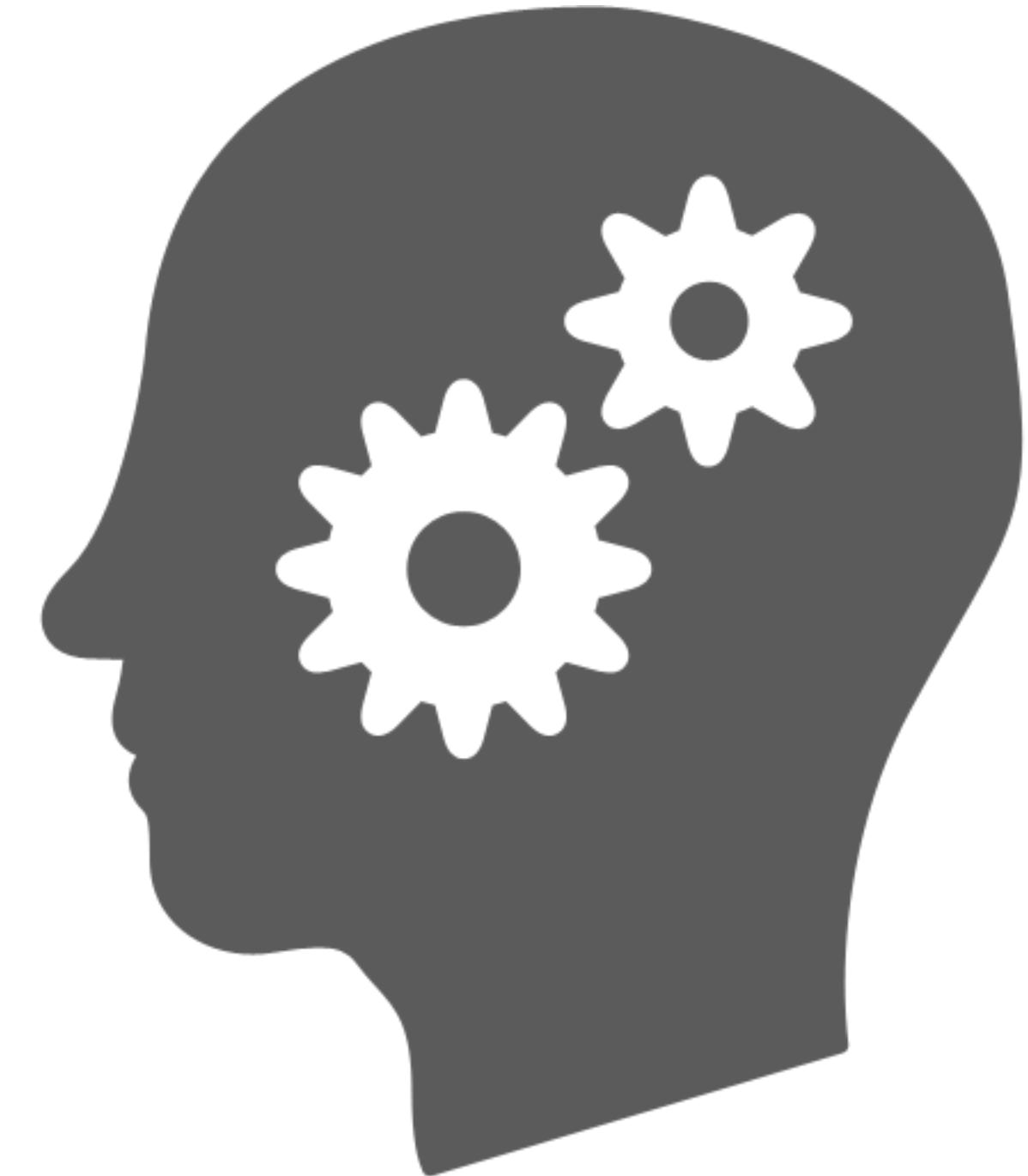
SCIENCE PIPELINE



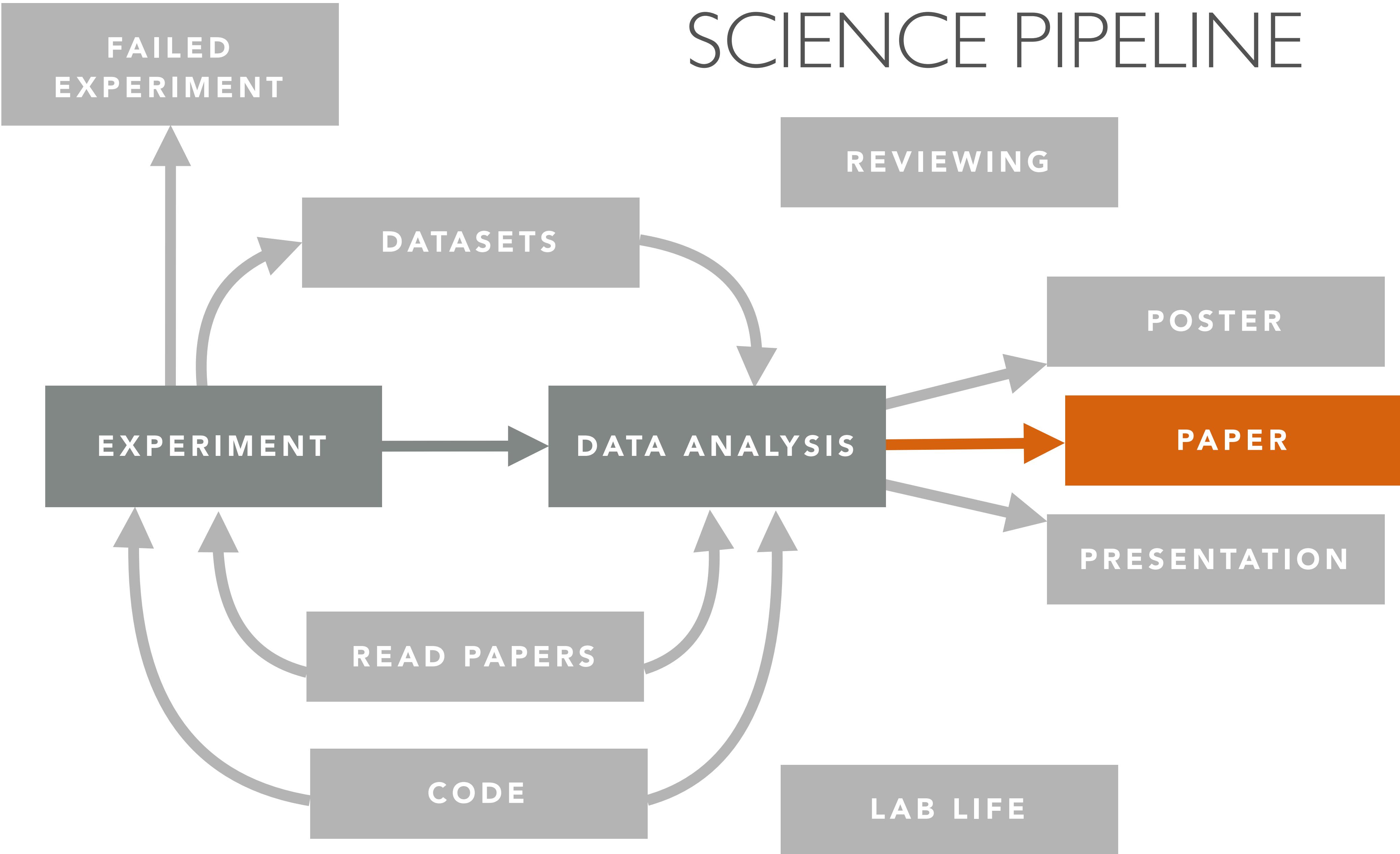
GROUP DISCUSSION 2

5 group, heterogeneous fields

- List scientific output in your fields
- How can you valorise this production?
- What do you already do?

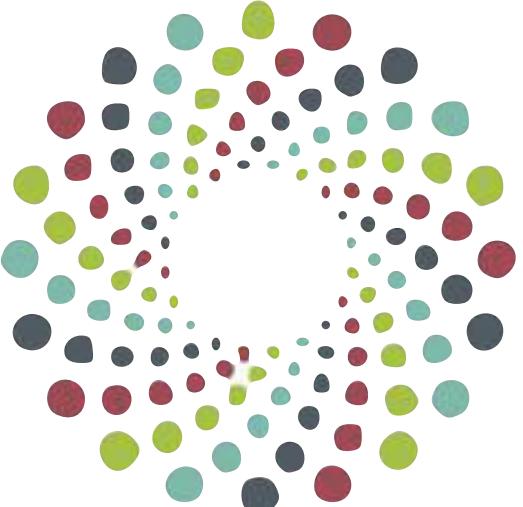


SCIENCE PIPELINE

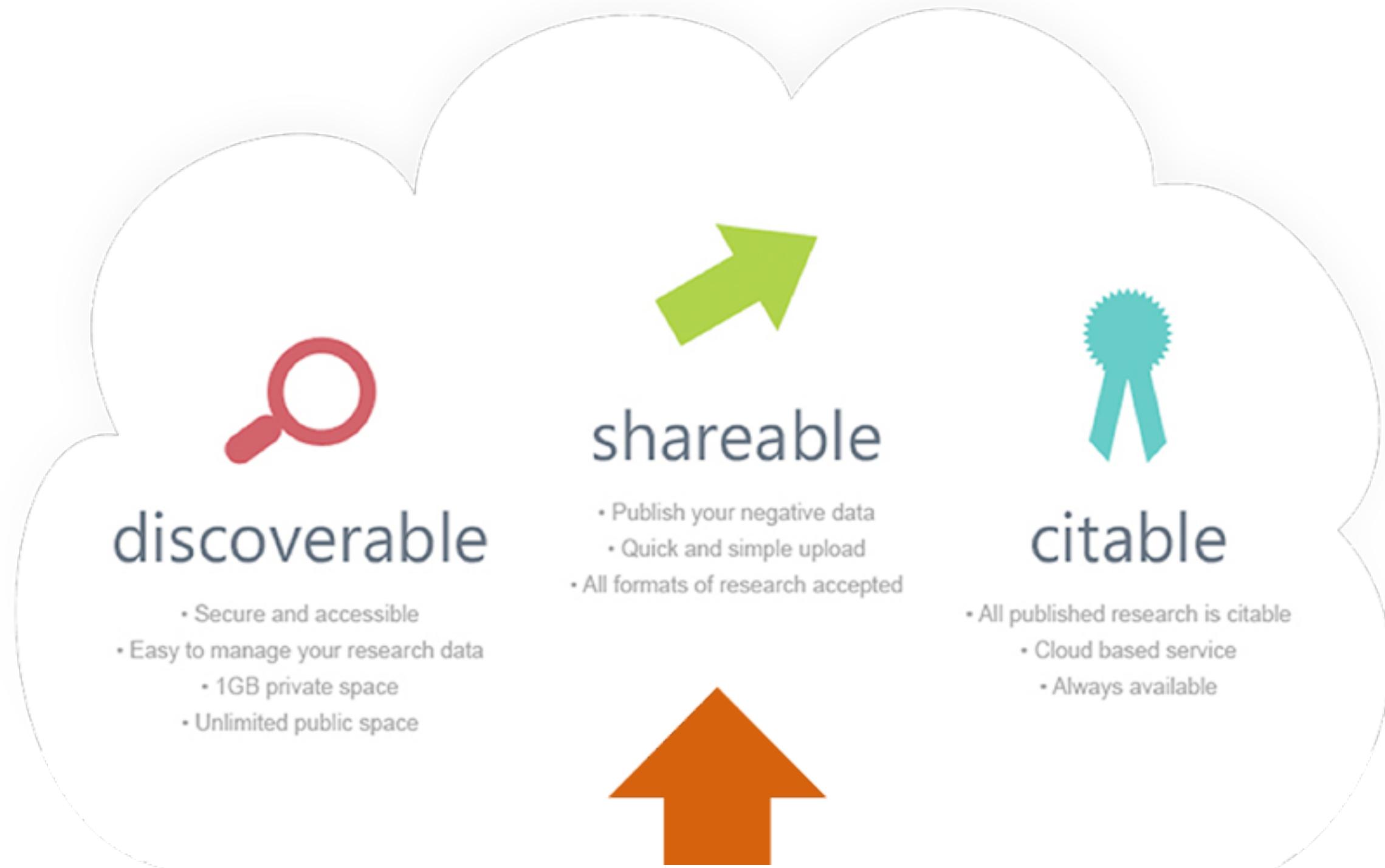


FIGSHARE

*Share all your **research products***



www.figshare.com



- Manage your research data
- Private storage space
- Securely stored in the cloud
- Accessible from anywhere
- Easily filtered, tags etc
- Citable (DOI)

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

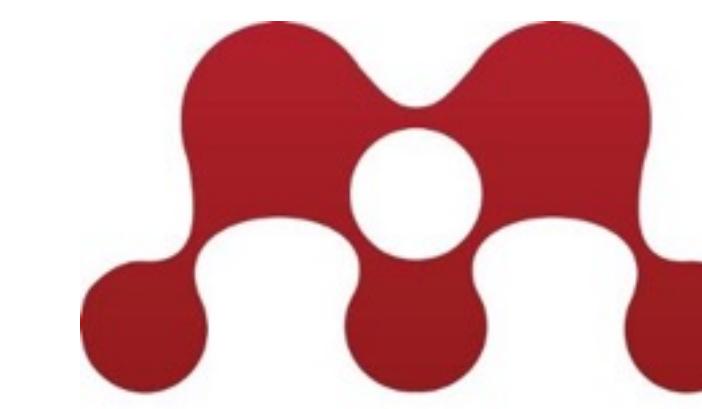
MENDELEY, ZOTERO

*Share your **readings***

- Create reading list
- Manage groups, discussions
- Share your papers



www.zotero.org



www.mendeley.com

A screenshot of the Mendeley Groups page. At the top, there are tabs for Dashboard, My Library, Papers, Groups, and People, with Groups selected. A search bar shows 'Groups' and a search field with placeholder text 'Search groups... eg: Social networks'. To the right, a green button says 'Create a new group'. Below this, a section titled 'Groups' states 'In this catalog: 106,690 public groups'. It features a search bar and a descriptive text: 'Search groups in your area of interest, share papers and start collaborating either publicly or privately.' On the left, a '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, and tags. On the right, a 'Browse disciplines' sidebar lists numerous academic fields such as 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.

Groups

In this catalog: 106,690 public groups

Create a new group

Search groups... eg: Social networks

Search groups in your area of interest, share papers and start collaborating either publicly or privately.

My groups

Groups I own or can administer

Lateral roots
Papers about lateral roots formation
Group settings 36 papers · 2 members

Maize flowering
Maize flowering papers
Group settings 19 papers · 2 members

Plant Flowering
Papers about flowering in plants, focused on the molecular mechanisms underlying the floral transition and the flowering process
arabidopsis, flowering, plant
Group settings 8 papers · 4 members

Plant image analysis
Papers about plant image analysis softwares and methods. Also collect papers about plant phenotyping.
image analysis, phenotyping, plant, software
Group settings 211 papers · 31 members

Root system analysis
Papers analysing root systems
Group settings 10 papers · 2 members

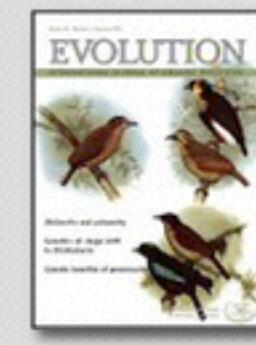
Browse disciplines

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
Sports and Recreation

DRYAD DIGITAL REPOSITORY

“Makes the data underlying scientific publications discoverable, freely reusable, and citable”

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

Additionally, please cite the Dryad data package:

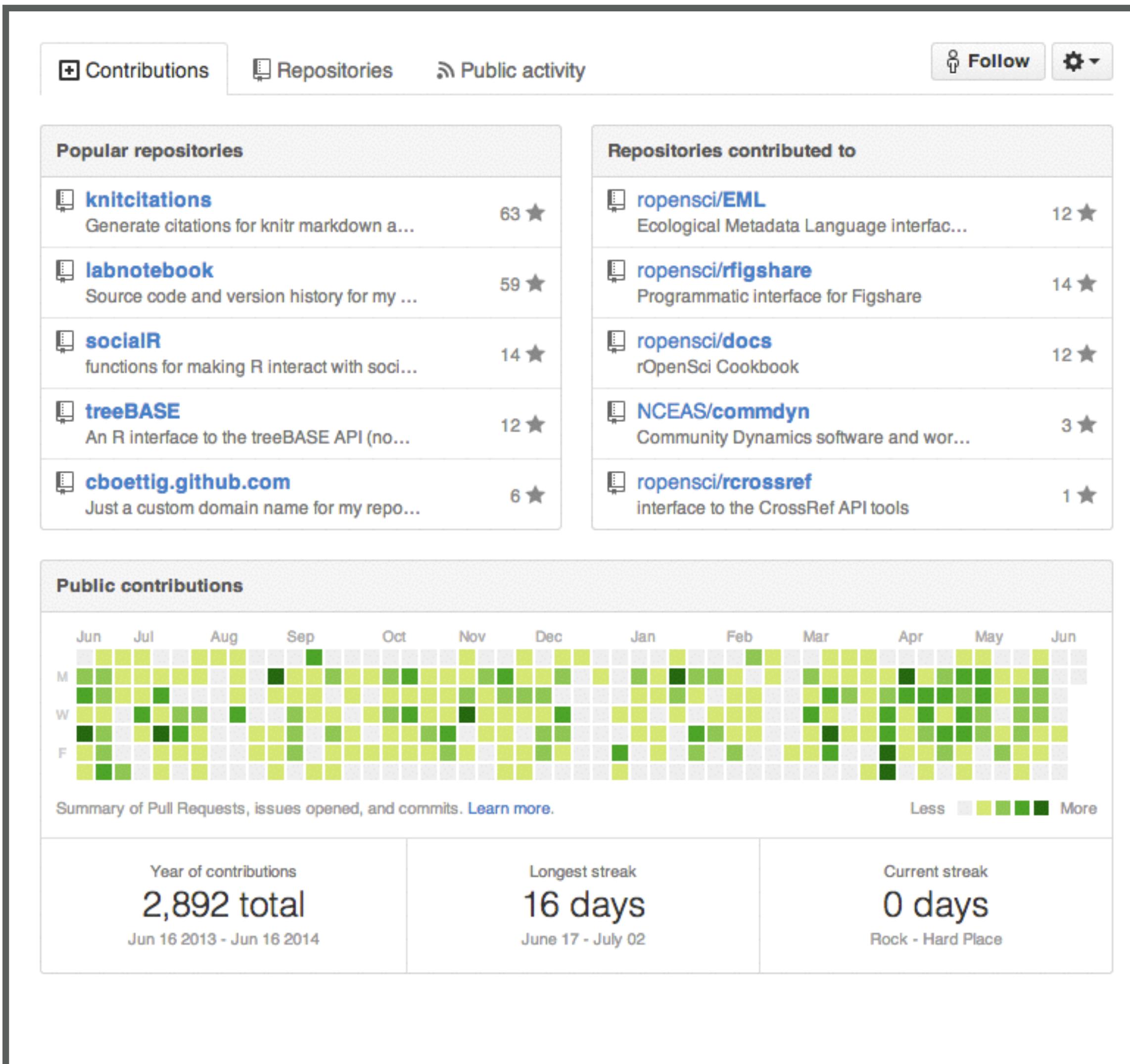
Rode NO, Charmantier A, Lenormand T (2011) Data from: Male-female coevolution in the wild: evidence from a time series in *Artemia franciscana*. Dryad Digital Repository. doi:10.5061/dryad.56k55

- share dataset upon publication
- permanent storage
- citable (doi)
- metrics



GITHUB, BITBUCKET, SOURCEFORGE

“The best place to share your code”



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



github.com



Bitbucket

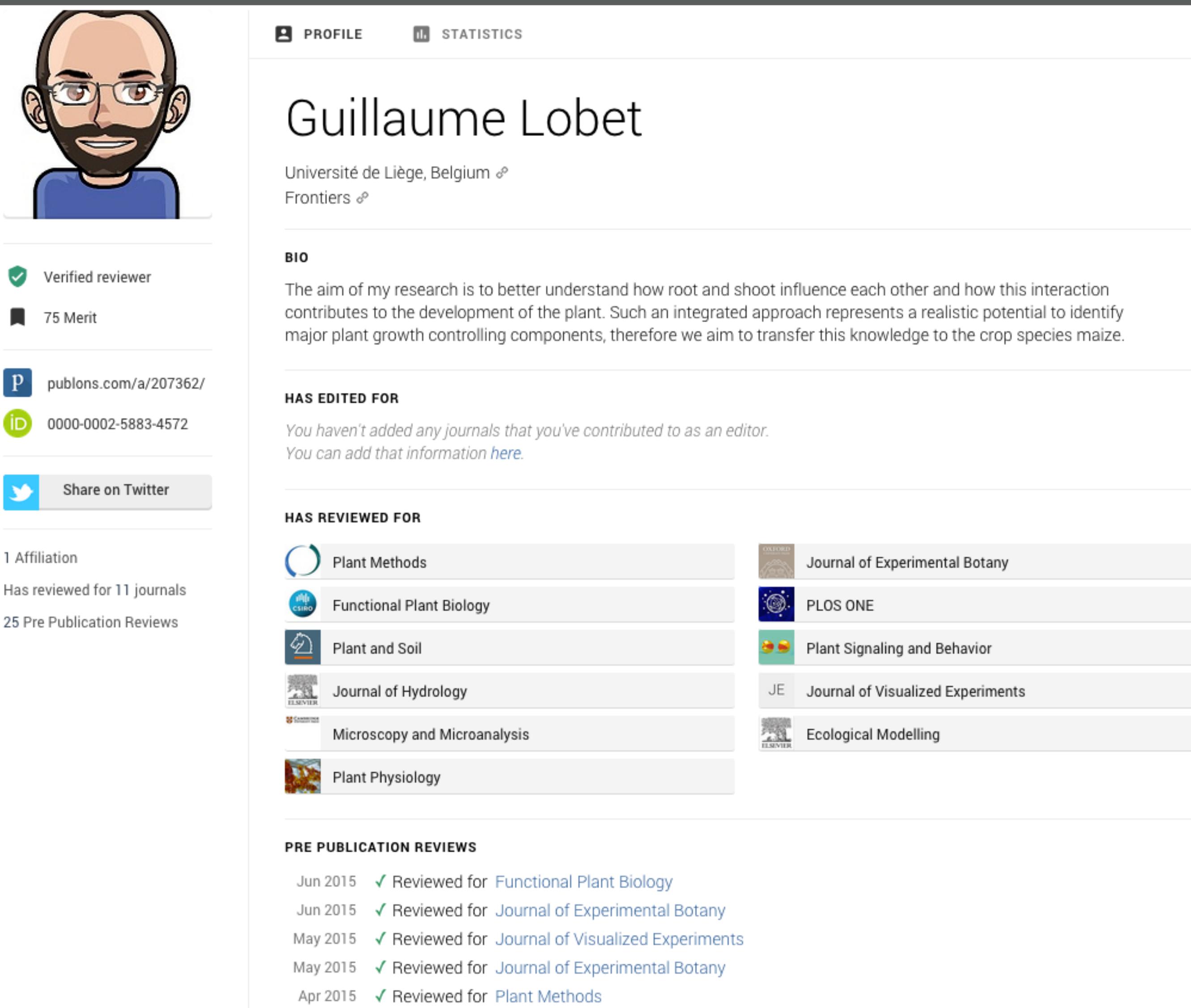
bitbucket.org



sourceforge.org

PUBLONS

“produce comprehensive reviewer profiles”



The image shows a screenshot of a Publons profile page for Guillaume Lobet. The profile includes a photo of a man with glasses and a beard, a verified status, 75 merit points, and links to his Publons ID and a personal website. The bio section states his research aim is to understand root and shoot interaction. The 'HAS EDITED FOR' section is empty. The 'HAS REVIEWED FOR' section lists journals like Plant Methods, Journal of Experimental Botany, PLOS ONE, and Ecological Modelling. The 'PRE PUBLICATION REVIEWS' section shows reviews from Jun 2015 to Apr 2015.

PROFILE STATISTICS

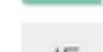
Guillaume Lobet

Université de Liège, Belgium  Frontiers 

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.

HAS EDITED FOR
You haven't added any journals that you've contributed to as an editor.
You can add that information [here](#).

HAS REVIEWED FOR

 Plant Methods	 Journal of Experimental Botany
 Functional Plant Biology	 PLOS ONE
 Plant and Soil	 Plant Signaling and Behavior
 Journal of Hydrology	 JE Journal of Visualized Experiments
 Microscopy and Microanalysis	 Ecological Modelling
 Plant Physiology	

PRE PUBLICATION REVIEWS

Jun 2015	✓ Reviewed for Functional Plant Biology
Jun 2015	✓ Reviewed for Journal of Experimental Botany
May 2015	✓ Reviewed for Journal of Visualized Experiments
May 2015	✓ Reviewed for Journal of Experimental Botany
Apr 2015	✓ Reviewed for Plant Methods

- pre/post publication
- verified
- public reviews



www.publons.com

Guillaume Lobet

BLOGGING

Express yourself

- Present *yourself* the way you like
- Explain your research
- Write a blog
- Host your resume
- ...

You do not need to know HTML



www.wordpress.com



www.blogger.com

The Tree of Life

<http://phylogenomics.blogspot.be/>

#HOPEJAHRENSURECANWRITE

<http://hopejahreensurecanwrite.com/>

Plant Cell Biology

<http://www.plantcellbiology.com/>

ELECTRONIC NOTEBOOK

Open-Science in full swing

- make your lab notebook online
- everything is open
- direct feedback from the community

<http://ipython.org/notebook.html>

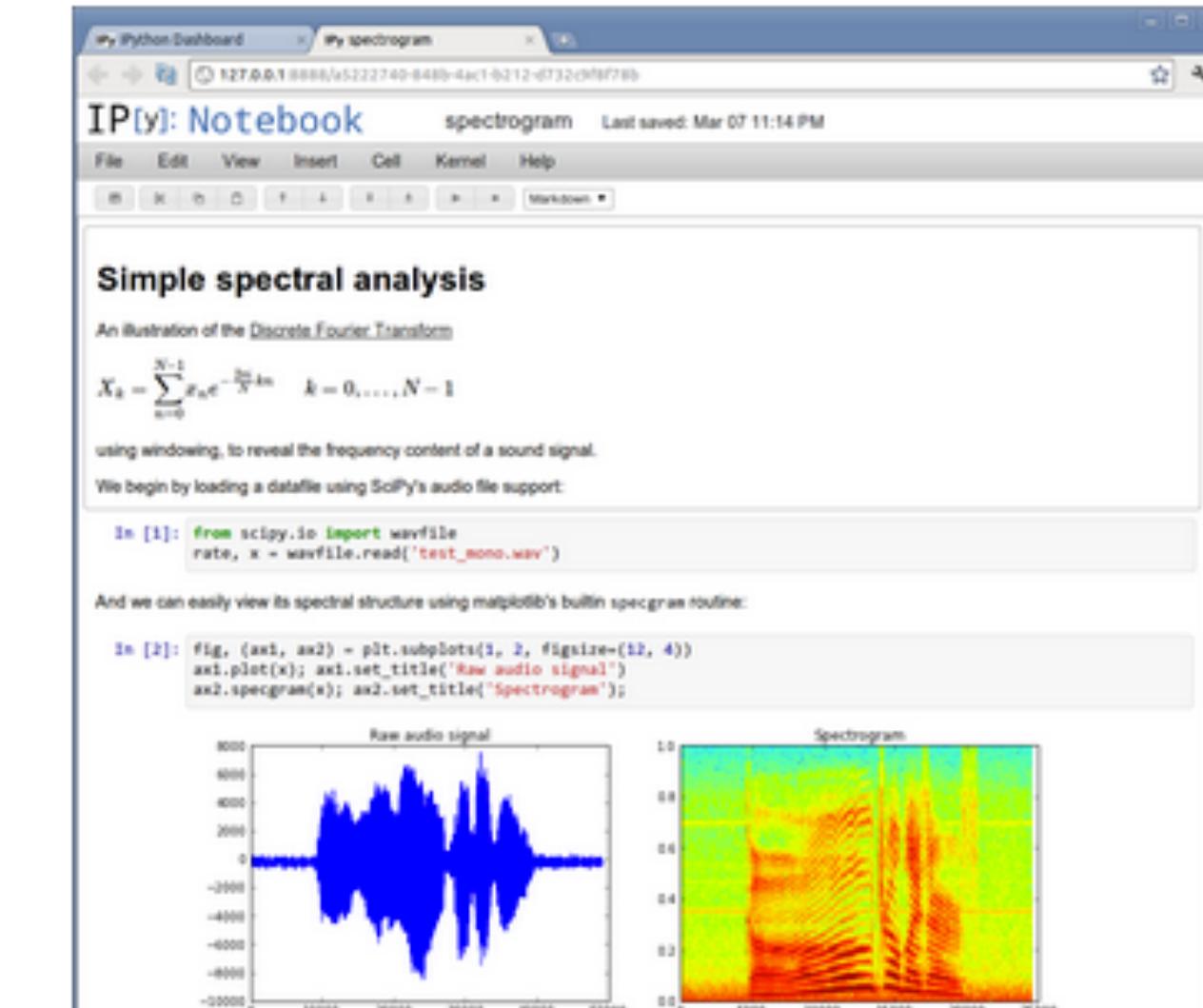
<http://www.carboettiger.info>

IP[y]: IPython
Interactive Computing

[Install](#) · [Docs](#) · [Videos](#) · [News](#) · [Cite](#) · [Sponsors](#) · [Donate](#)

The IPython Notebook

The IPython Notebook is an interactive computational environment, in execution, rich text, mathematics, plots and rich media, as shown in this example:



PRE-PRINT SERVER

*“a free online archive and distribution service for
unpublished **preprints** in the life sciences”*

bioRxiv

- share **manuscript** before publication
- common practice in math, physics, engineering
- get feedback from other scientists

bioRxiv
beta

THE PREPRINT SERVER FOR BIOLOGY

www.biorxiv.org

PeerJ

<https://peerj.com/preprints/>

STACK OVERFLOW

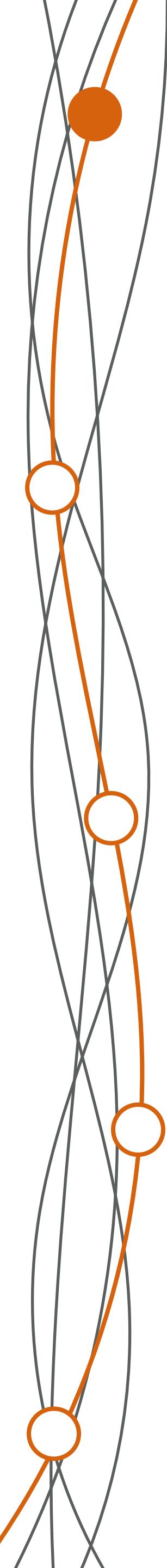
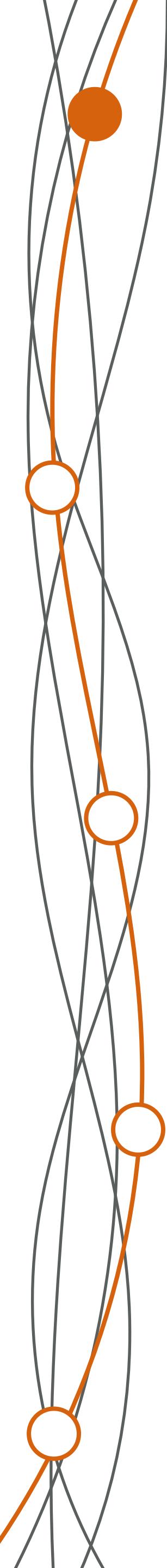
You have a unique *expertise*. Share it.

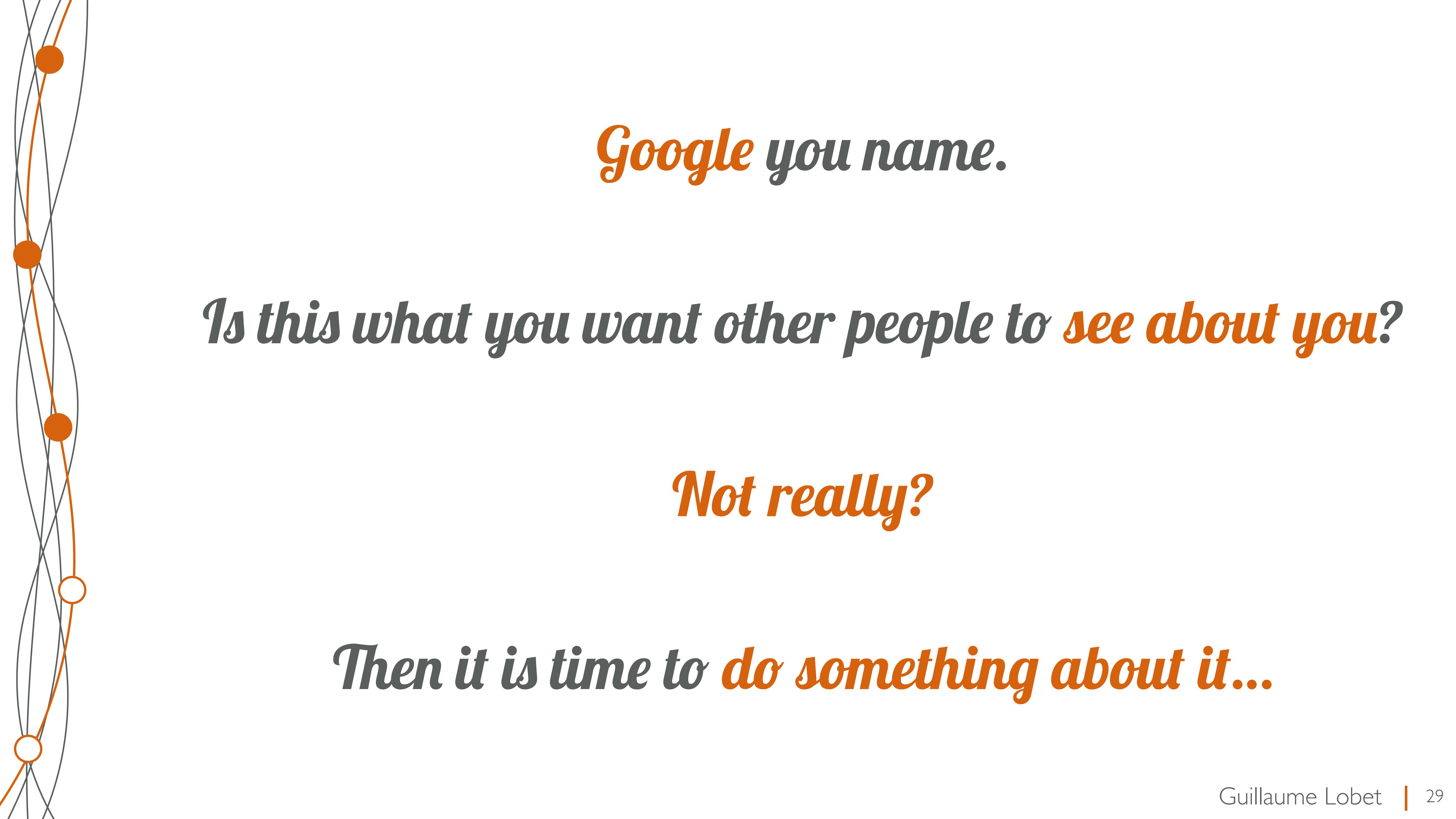


- 130+ Q&A communities
- 3.8M users
- programming, science, life



www.stackexchange.com

- 
- 
- I. PRESENTATION**
 - 2. SCIENTOMETRICS**
 - 3. PUBLISH EVERYTHING**
 - 4. ADVERTISE YOURSELF**



Google you name.

*Is this what you want other people to **see about you**?*

Not really?

*Then it is time to **do something about it...***

ALEJANDRO BAYO SALAS [IN 5 MIN]

Search term in Google: Alejandro Bayo Salas



Selected publications

International conference papers (1)

- Bayo Salas A., Beerten J., Rimez J., Van Hertem D. 2015. [Impedance-based stability assessment of parallel VSC HVDC grid connections](#). In *International Conference on AC and DC Power Transmission*. Birmingham, UK, 10-12 February 2015

alejandro.bayosalas@esat.kuleuven.be



Experience

Early Stage Researcher

Elia

October 2013 – Present (1 year 9 months) | Brussels Area, Belgium



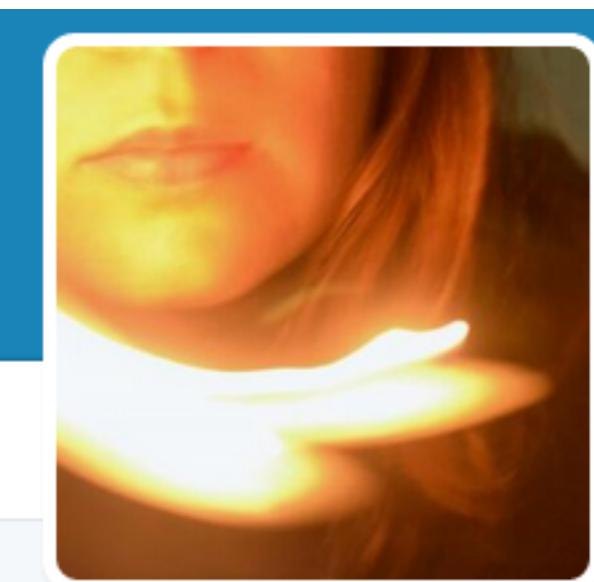
MEDOW is a Marie Curie Initial Training Network (ITN) consisting of 11 partners (5 universities and 6 industrial organisations) with collective expertise on the manufacturing, design, operation, and control of multi-terminal DC grids.

MEDOW has received funding from the Seventh Framework Programme of the European Union.



MARJAN DE COSTER [IN 5 MIN]

Search term in Google: Marjan De Coster



Marjan De Coster

@MarjanDC

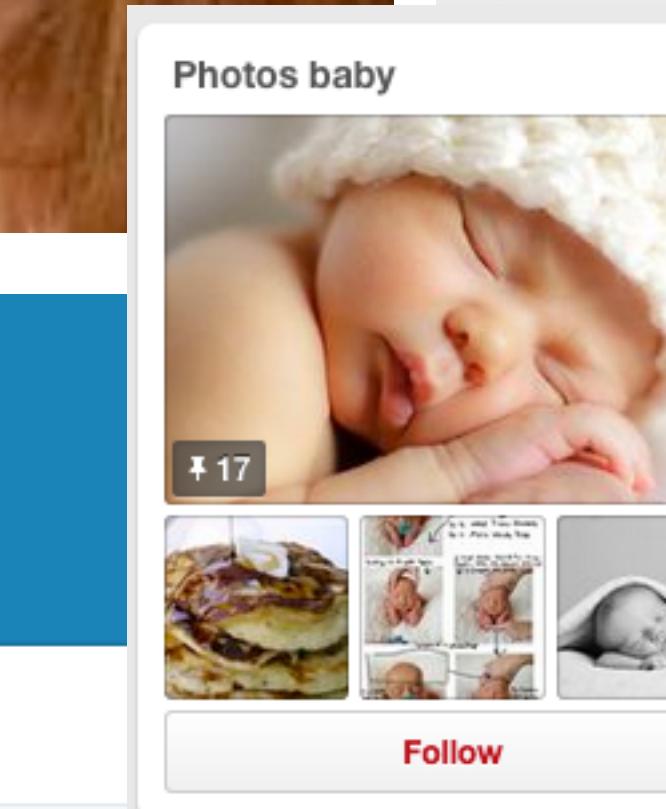
Leuven

Joined October 2010

TWEETS 194 FOLLOWING 31 FOLLOWERS 32 FAVORITES 1

Tweets Tweets & replies Photos & videos

Marjan De Coster @MarjanDC · 10 Jan 2014
Schalkse ruiters #nostalgie instagram.com/p/jACEMHuL2J/



Naam:	mevrouw Marjan DE COSTER
Functie:	navorser
E-mail:	marjan.decoster@uhasselt.be
Telefoon:	32-11-268673
Nr. Kantoor:	F4 (Gebouw D)
Faculteit:	Bedrijfseconomische Wetenschappen
Vakgroep:	Gedragstheorie, Communicatie en Linguïstiek
Sp(ken):	Diversiteit
Campus:	Campus Diepenbeek Agoralaan Gebouw D BE 3590 Diepenbeek



jan De Coster

Manager of Sales & Marketing at AZZA Mémo'art

Brussels Area, Belgium | Consumer Goods

Previous Coyote Systems Benelux, Coyote Systems, C9

Education Katholieke Hogeschool Leuven

Send Marjan InMall

ELLEN DE BRUYNE [IN 5 MIN]

Search term in Google: Ellen De Bruyne

Ellen De Bruyne



Doctoraatsbursaal

Henri Dunantlaan 2
B-9000 Gent
Belgium

Tel. +32 (0) (direct)
Tel. +32 (0)9 264 8664 (secretary)
Fax. +32 (0) 9 264 86 88

eidbruyn.DeBruyne@UGent.be



Research interest: English as Medium of Instruction in higher education.



Ellen De Bruyne

Works at Beautiek
Studied at DENISE GRESIAC BERCHEM
Lives in Bonheiden



Ellen de Bruyne

Went to Visitatie Mariakerke



Ellen De Bruyne

Went to Nes Videregående Skole



Ellen De Bruyne



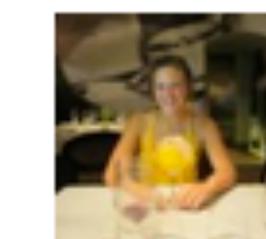
Ellen De Bruyne

Lives in Gent, Belgium
From Oostende, West-Vlaanderen, Belgium
Knows Dutch, English, French, German



Ellen De Bruyne

2 followers
Works at Bel&Bo
Studied Human resource management at Hogeschool VIVES
From Kortrijk



Ellen De Bruyne 3rd

PhD Candidate bij Ghent University
Gent Area, Belgium • Research
Similar



Ellen De Bruyne 3rd

HR Officer at Esko
Gent Area, Belgium • Human Resources
Similar



Ellen De Bruyne 3rd

Marketing & Communication Coordinator at Musica vzw
Antwerp Area, Belgium • Music
Similar



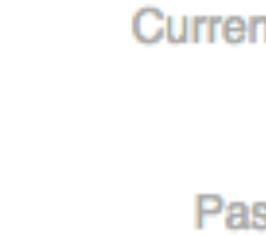
Ellen De Bruyne 3rd

Talent Manager Techniek bij vind!
Bruges Area, Belgium • Staffing and Recruiting
Similar



Ellen De Bruyne

PHD Student at Ghent University
Gent Area, Belgium • Higher Education
Similar



Current: PHD Student Educational Science at Ghent University
...and writing in an L2 higher education setting." Set...
memory and language in multilingualism"

Past: Wetenschappelijk medewerker at Ghent University

Thermal and chlorophyll-fluorescence imaging distinguish plant-pathogen interactions at an early stage

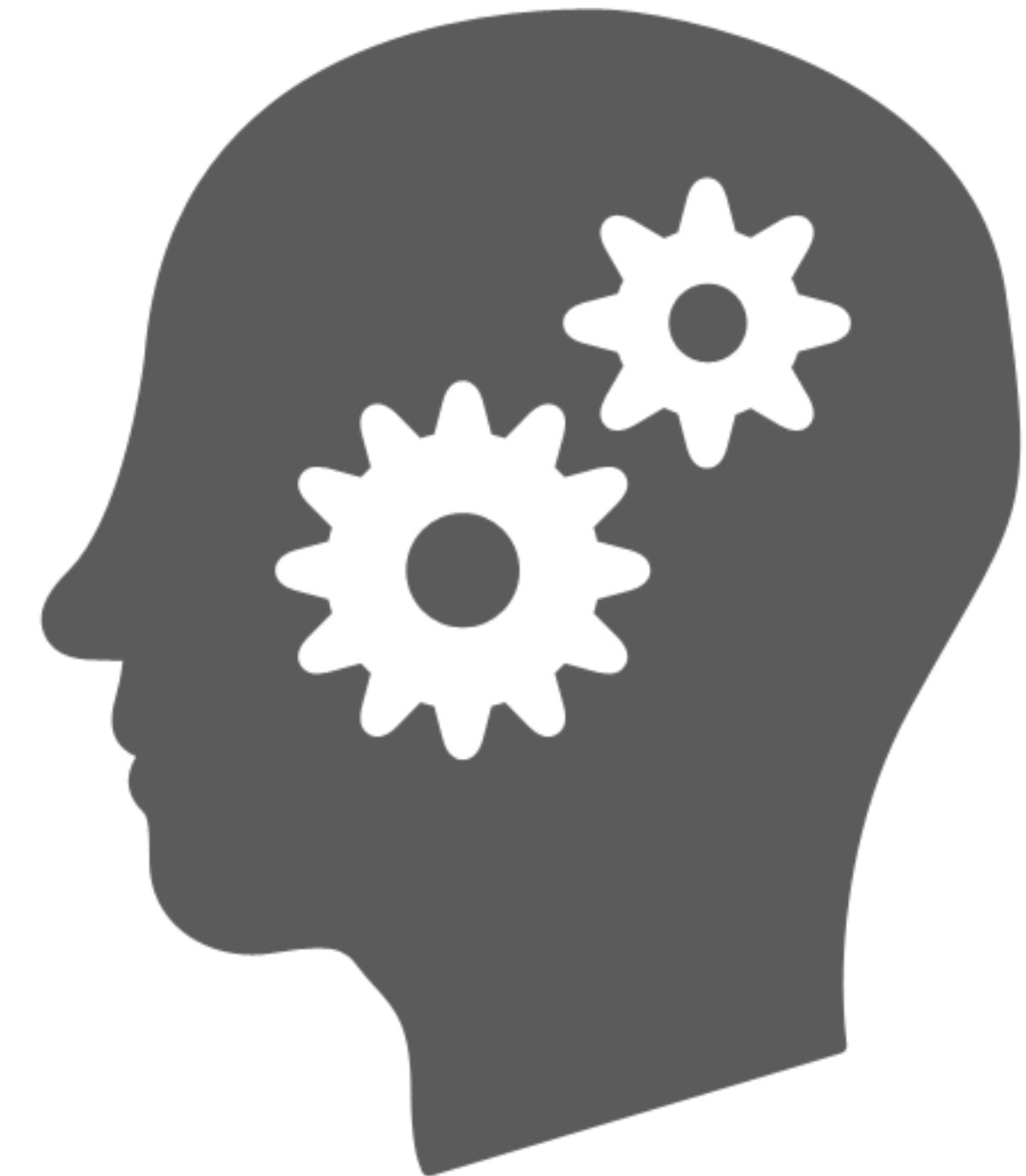
L Chaerle, D Hagenbeek, E De Bruyne... - Plant and Cell ..., 2004 - Jpn Soc Plant Physiol

Abstract Different biotic stresses yield specific symptoms, owing to their distinct influence on a plant's physiological status. To monitor early changes in a plant's physiological status upon pathogen attack, chlorophyll fluorescence imaging (Chl-Fl) and thermography, ...

GROUP DISCUSSION 3

5 group, heterogeneous fields

- Do you control your web image?
 - What can you do?
- Do you use social media in the workplace?
 - Which one?
- What are the use of social media for scientists?



ORCID

Unique identifier for scientists

- Avoid confusion between similar names (John Smith)
- Used by publishers (Plant Physiology, Plant Cell, ...)

Guillaume Lobet

ID <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, 2013](#) +

LINKEDIN - RESEARCHGATE - ACADEMIA.EDU

Professional online profile

Generalist

- LinkedIn
- online profile
- display professional achievements
- networking
- very large network (6.4 M)



www.linkedin.com

Specific for researchers

- ResearchGate, Academia.edu
- online profile
- display scientific achievements
- networking
- specific to science
- publications, ...



www.researchgate.net



www.academia.edu

IMPACTSTORY

*“One **website** to bring them all and in your **profile** bind them”*



IMPACTSTORY

"ImpactStory delivers open metrics, with context, for diverse products"

Article

A Novel Image-Analysis Toolbox Enabling Quantitative Analysis of Root System Architecture



(2011) Lobet, Pages, Draye. PLANT PHYSIOLOGY

Model-assisted integration of physiological and environmental constraints affecting the dynamic and spatial patterns of root water uptake from soils



(2010) Draye, Kim, Lobet et al.. Journal of Experimental Botany

Highly cited by scholars

This item has 47 Scopus citations.

That's more than 91% of 2010 articles in Web of Science, suggesting it's highly cited by scholars. Click for details.

highly cited

highly saved



IMPACTSTORY

“ImpactStory delivers open metrics, with context, for diverse products”

Supported ID types:

Article PMIDs 

Article DOIs 

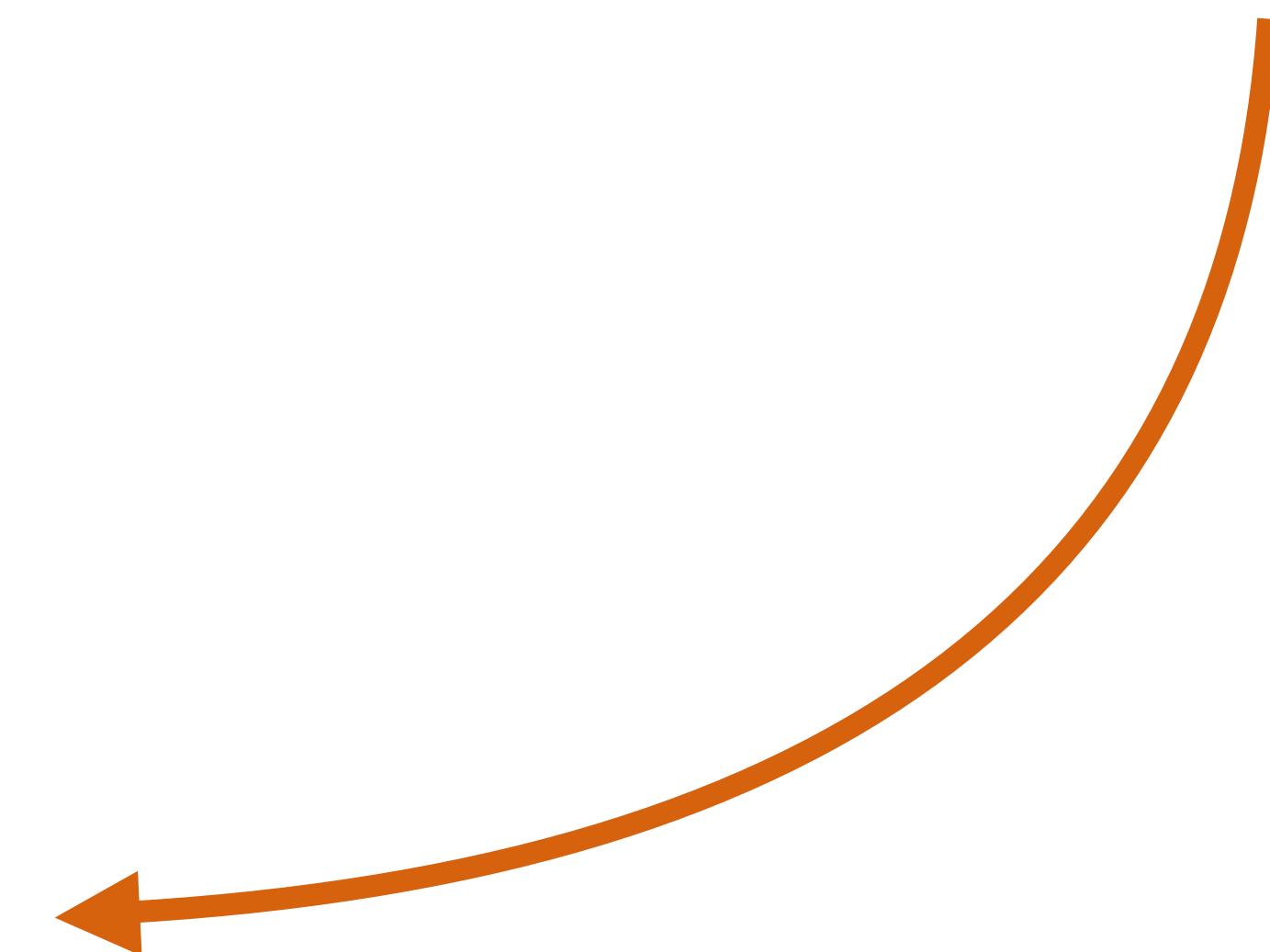
Dataset DOIs  

GitHub repo URLs 

Webpage URLs 

Slide deck URLs 

Video URLs  



SOCIAL MEDIA

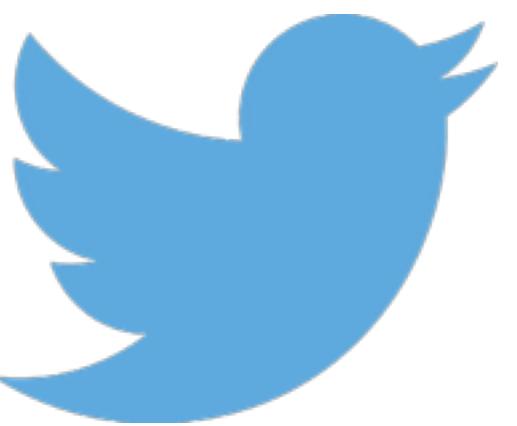
*“The power of social media lies in its **interactivity** and
its strength to **amplify** the reach of content”*

-Anne Osterrieder 2013-

TWITTER

*“Create and **share** ideas and information **instantly**”*

- Interesting, engaging and informative **updates** about your research
- Find the right **balance** between professional and personal informations
- Beware of posting confidential informations (grants, papers, ...)
- Everything is **in the open!**



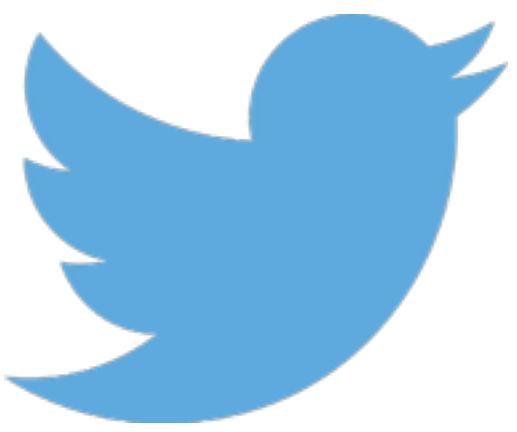
www.twitter.com

Osterrieder (2013) Plant Methods

TWITTER

*“Create and **share** ideas and information **instantly**”*

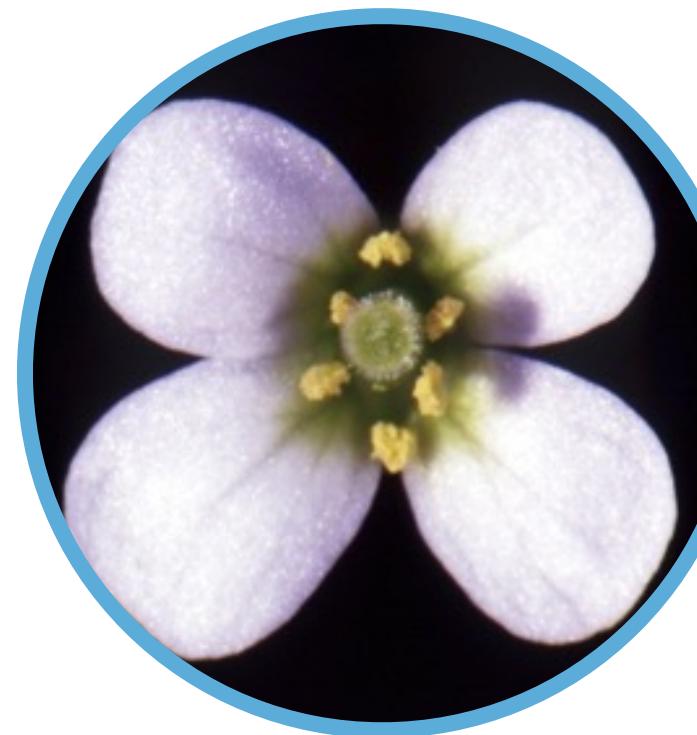
- If you want to have **larger impact** tweet in the **late afternoon** (3-5 PM, GTM+0). Europeans will still be in the office and Americans will get to work. Larger audience.
- Use third party apps to schedule tweets
 - **HootSuite** <https://hootsuite.com>
 - **Buffer** <https://buffer.com>
- Keep it mainly **professional**
- Engage with other, but **don't be pushy**



www.twitter.com

IS TWITTER USED BY PLANT SCIENTISTS?

MAKE YOUR WORK VISIBLE



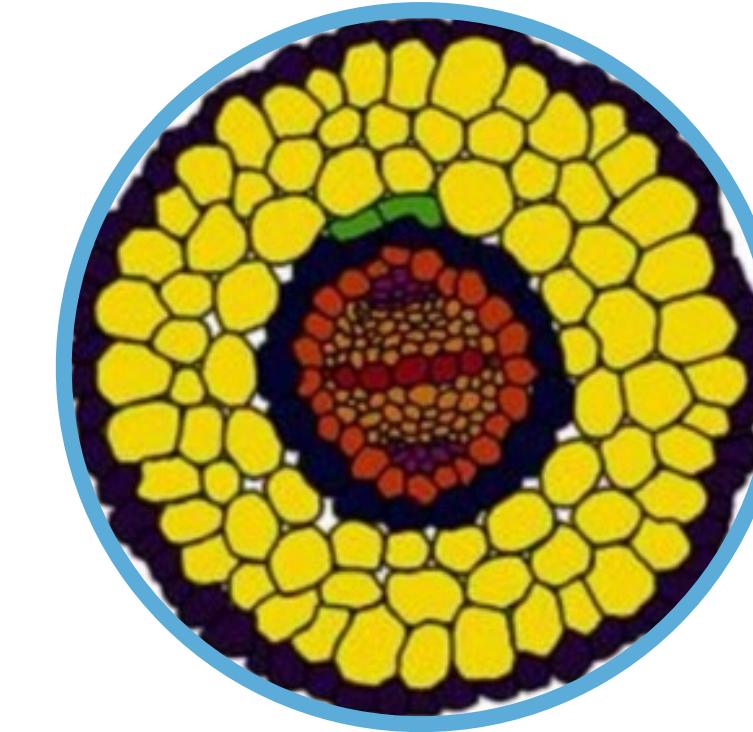
Weigel Lab
@PlantEvolution



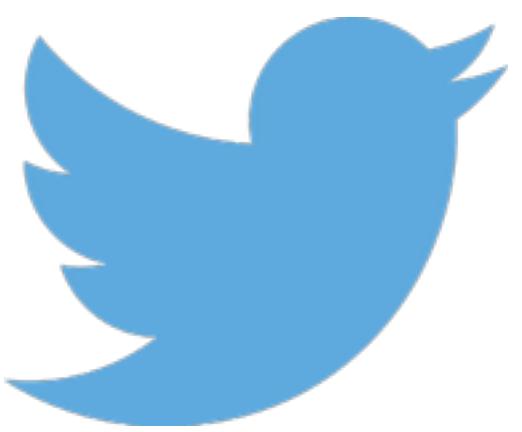
Mary Williams
Plant Cell editor
@PlantTeaching



CPIB
@cpib_news



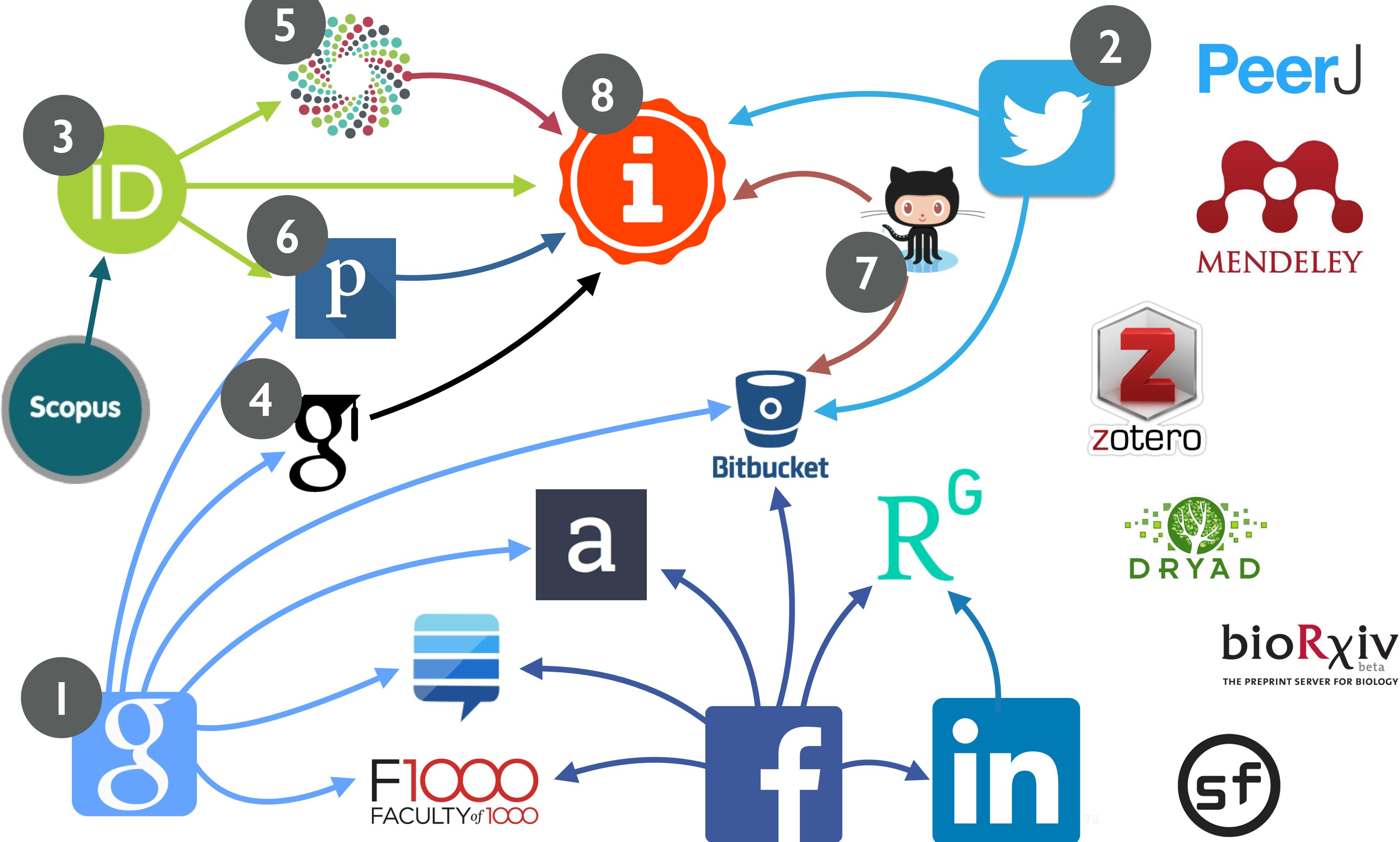
Brady Lab
@bradylabs



www.twitter.com

and many others....

THE NETWORKS' NETWORK





All the material for this course can be found here:

http://www.guillaumelobet.be/science_valorisation

THANKS
FOR YOUR
PARTICIPATION

Guillaume Lobet
guillaume.lobet@ulg.ac.be
@guillaumelobet

Available on



http://bit.ly/scival_workshop

