

Open Science desde una perspectiva de la información científica

Dante Cid – Vice-President, Academic Relations
Elsevier América Latina

March, 2017

Empowering Knowledge

The World of Research is Changing

The use of **new technology and tools** is shaping the world of research, helping researchers being **more efficient, collaborative and productive**.

Ultimately, this will result in Science having **more impact on society** and better addressing **societal challenges**.

Key drivers for better science:

Innovation and technology:

creating the technological infrastructure to solve the pain points in the researcher workflow

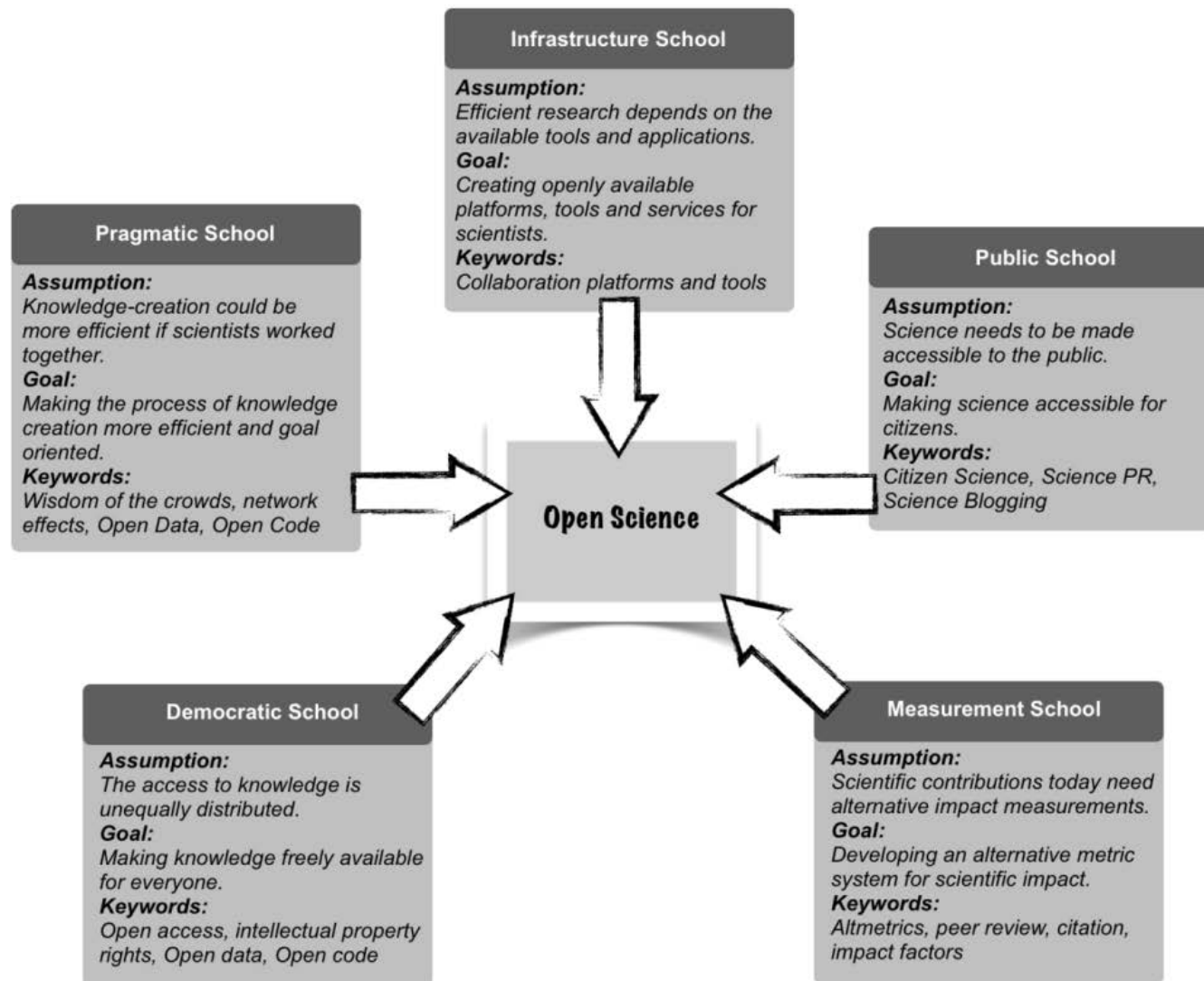
Collaboration:

researchers connecting across disciplines and regions, embracing increased transparency, reproducibility and sharing of knowledge

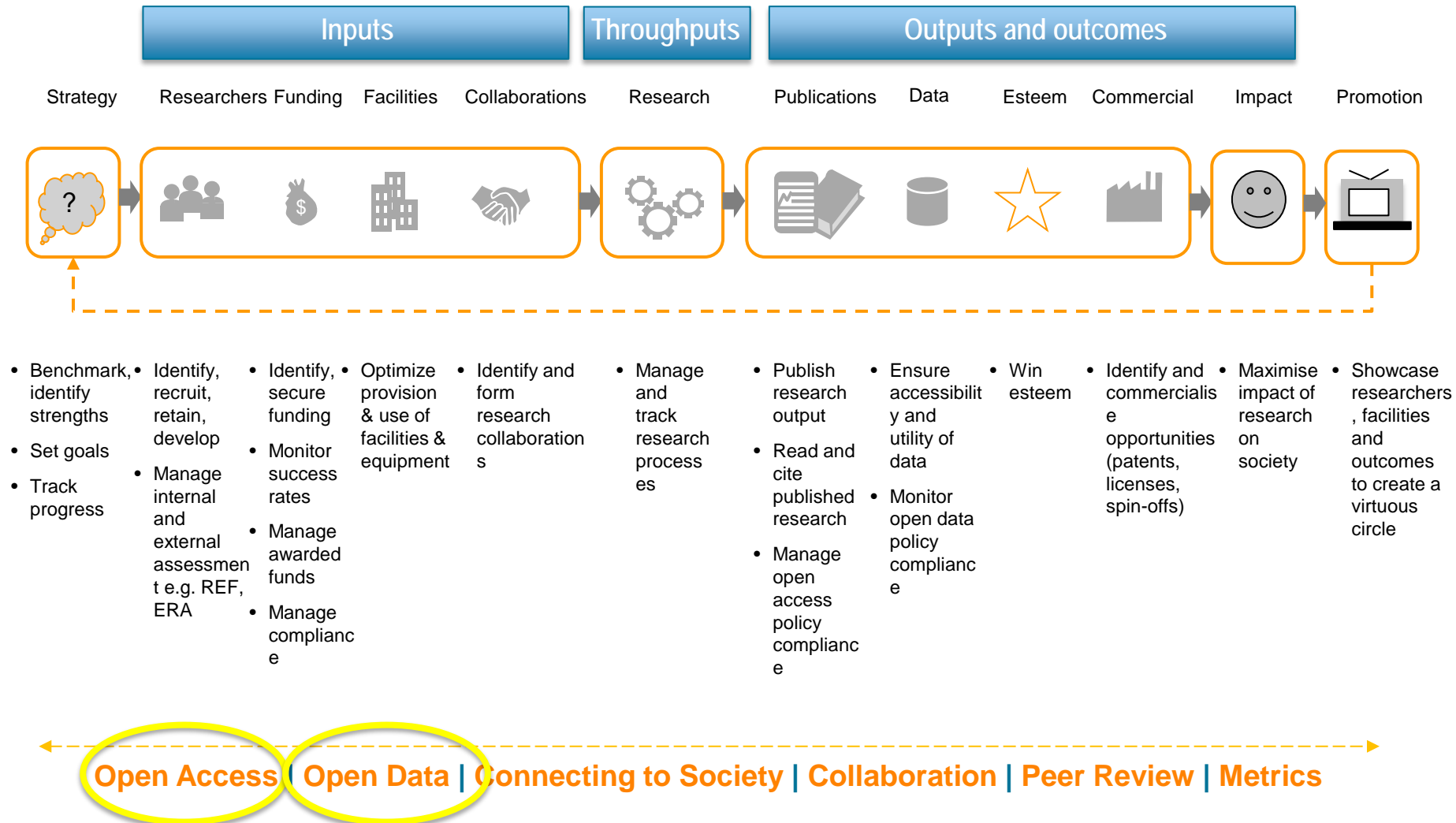
Increasing and assessing the impact of research:

increasing the dissemination of high quality, trusted content whose impact on society is measured beyond traditional methods

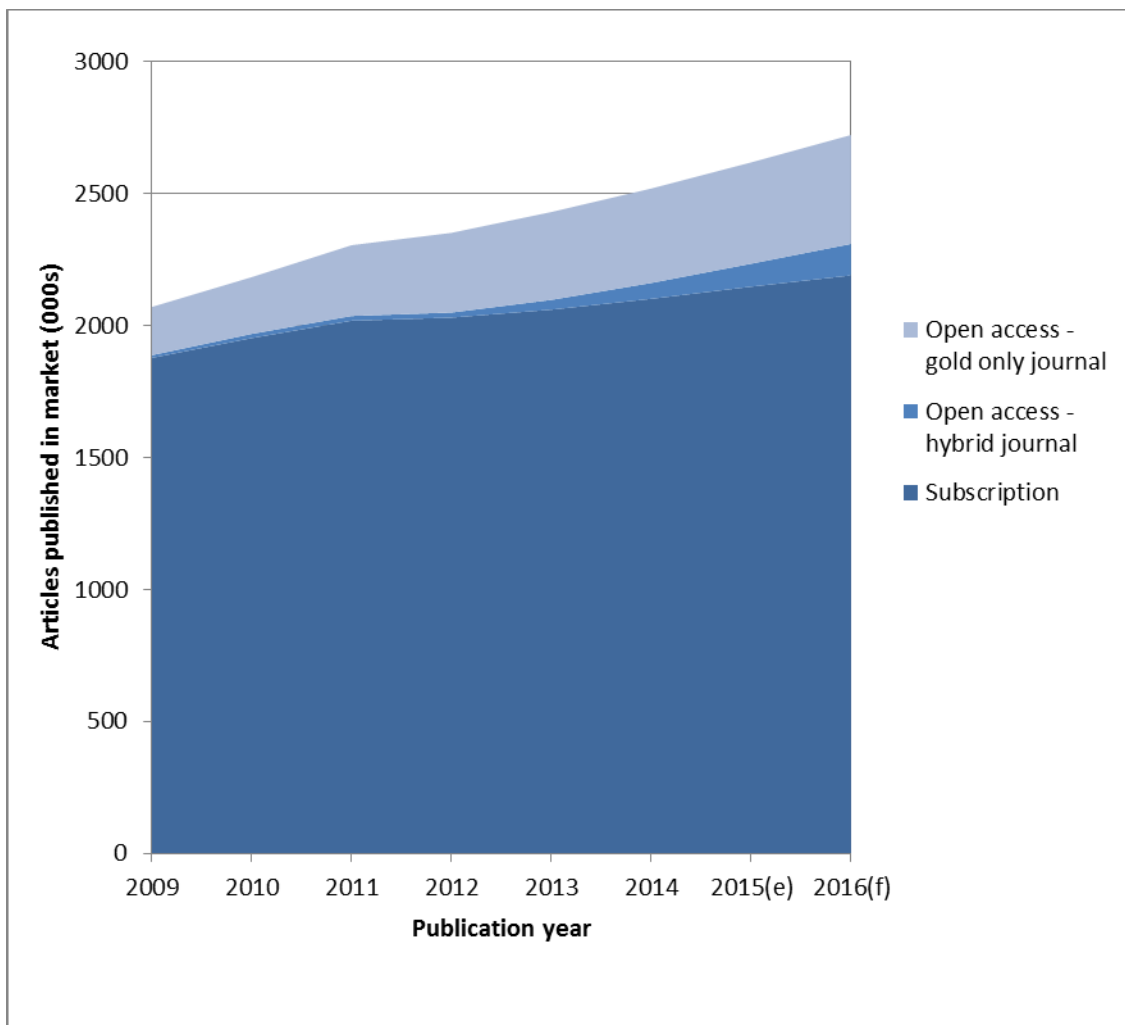
What is Open Science ...?



How publishers support the world of research



Open access publishing is growing



In 2016:

- 4 out of 5 articles were published subscription
- Elsevier published almost 420,000 articles
- Elsevier published over 20,000 of these as gold open access

Elsevier and open access

Gold open access

- 2nd Largest gold open access publisher
- Publish over 200 fully open access journals
- 1700+ hybrid journals
- Publish over 20,000 open access articles each year
- Choice of either a commercial (CC BY) or non-commercial (CC-BY-NC-ND) user license.
- Article publishing charges (APCs) range from \$500- \$5000 (US Dollars)

Green open access

- Largest publisher enable of green open access
- All 2500+ journals provide a green open access option
- Participate in CHORUS and support pilots with institutions and international funders
- Free API program to fuel repositories
- Share link service provides 50 days free access to recently published research
- Open archives in 108 journals, including all Cell Press titles after 12 months.

Fueling Institutional repositories: Free API program

Get metadata & abstracts

Search API can extract the metadata and abstracts of your affiliated authors to help populate your repository, enhance discoverability and create links or embed final version

Show the final version

Entitlements API** can ensure subscribed users see the final version and visitors can see the accepted manuscript hosted on your repository

Keep users on your IR

Article Retrieval API embeds the final article in your repository so subscribers don't leave your site to access the article

Make manuscripts public

Hosting permissions API can retrieve embargo end dates so you can make manuscripts automatically available to the public after embargo

Scopus® Did you know?

Scopus customers can also integrate Scopus APIs to retrieve metadata and abstracts across all publishers

Please Note: **Minimum part of the program.

[//dev.elsevier.com/tecdoc_sd_ir_integration.html](https://dev.elsevier.com/tecdoc_sd_ir_integration.html)

Latin America was pioneer in Open Access to journal articles

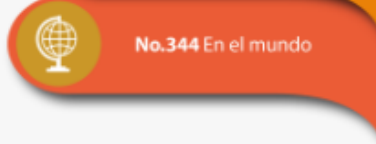
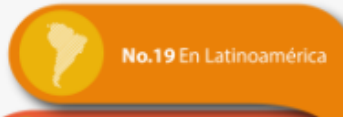
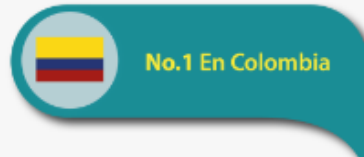


Latin America was pioneer in Open Access to journal articles

Repositorio Institucional EdocUR

06/03/2015 12:00:00 a. m.

En la edición más reciente del ranking Webometrics publicado el pasado 30 de enero, el repositorio institucional EdocUR se ha posicionado en el puesto **No. 1 en Colombia, No.19 en Latinoamérica** y **No. 344 en el mundo**.



El repositorio Institucional EdocUR, ha estado presente en el ranking webometrics, desde el primer semestre del 2010, año en el cual ocupó el puesto No. 1.123 a nivel mundial. Se han desarrollado estrategias, que permitieron mejorar su actual posicionamiento.

Es por esta razón que se destaca la labor de la biblioteca de la Universidad del Rosario y su rol en la promoción y divulgación de la producción científica,

académica e institucional de nuestra Universidad.



[Repositorio Institucional EdocUR](#) → [Acervo Institucional](#) → [Políticas y Normatividad](#) → [Ver documento](#)

Decreto rectoral No. 1444: Por el cual se establece la política institucional de Acceso Abierto a la producción científica, académica e institucional de la Universidad del Rosario

Universidad del Rosario

URI: <http://repository.urosario.edu.co/handle/10336/12300>

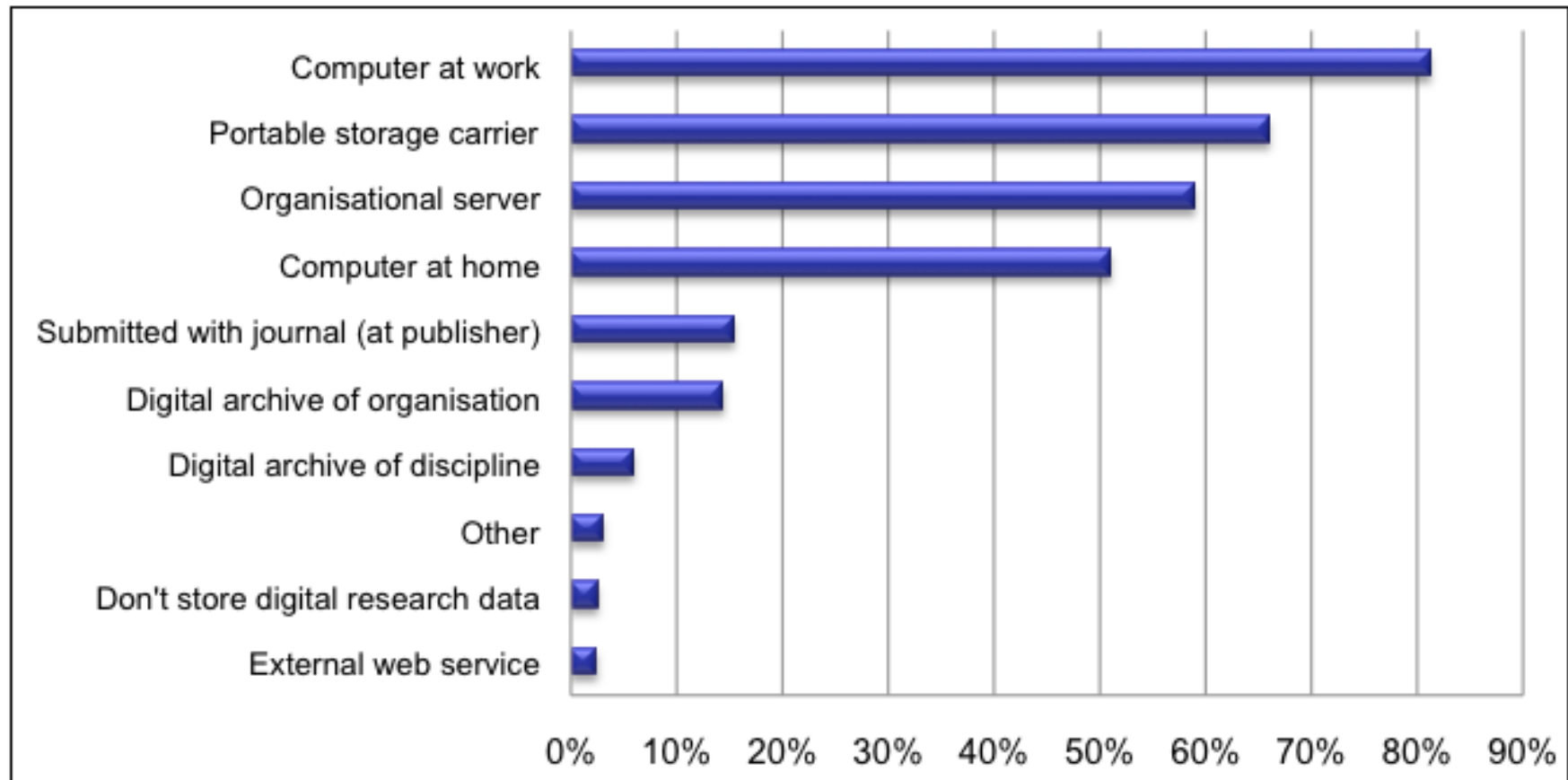
... but when it comes to Research Data

Open Research Data



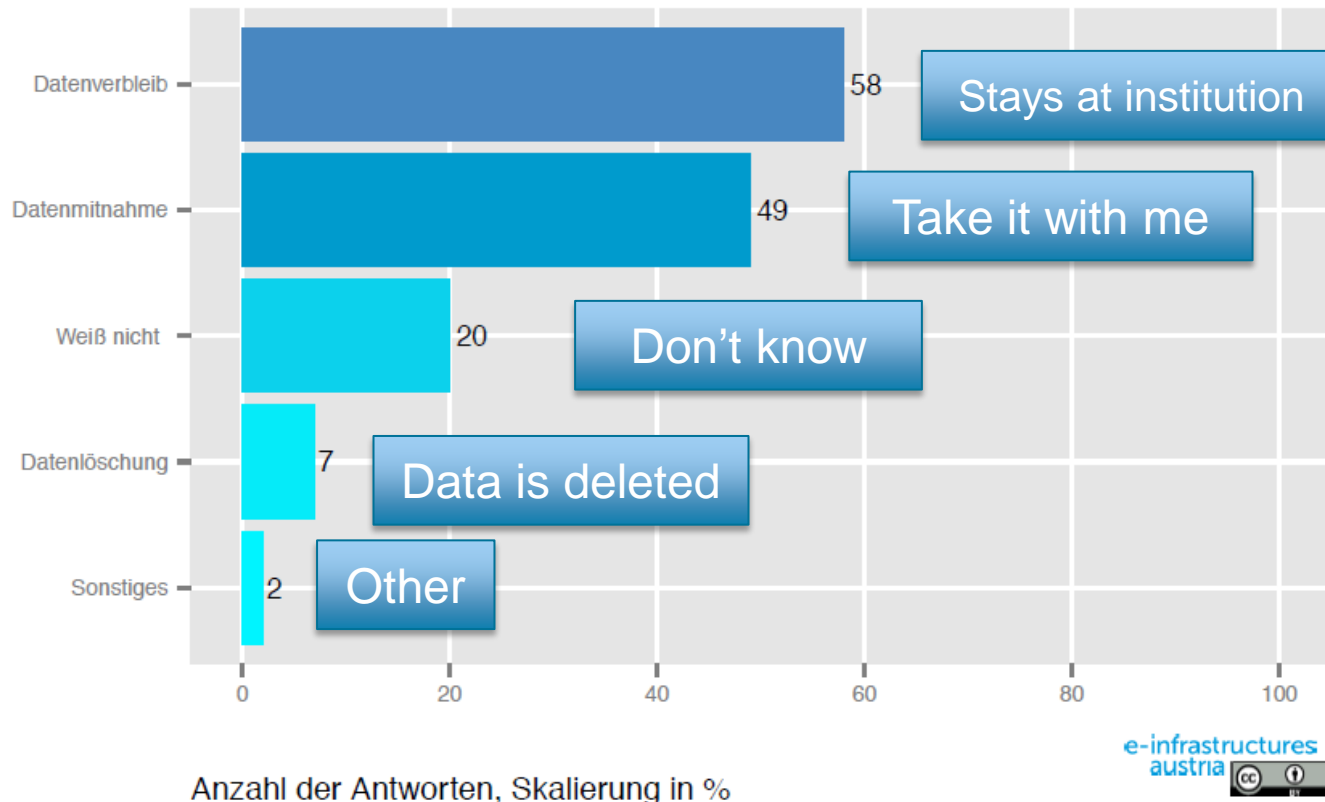
Common practice: data storage is still very fragmented

Where do you currently store your research data? (researchers/multiple answers, N=1202)



Researcher survey, 1202 respondents
(PARSE.insight 2010)

When you leave your institution...what happens with your data?



Forschende und ihre Daten. Ergebnisse einer österreichweiten Befragung (eBook)“

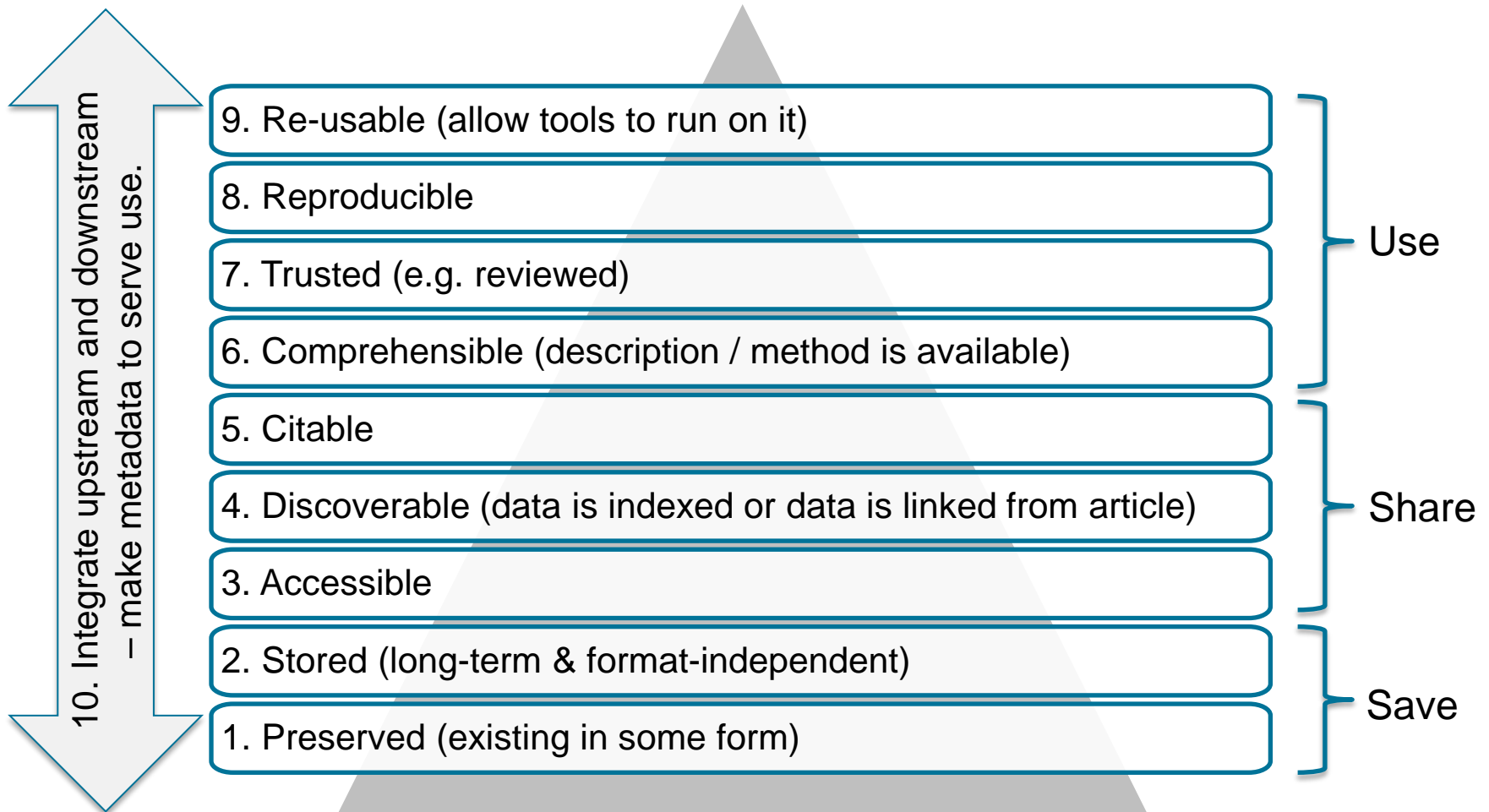
E-infrastructures Austria

Bauer, B. (Bruno) et al

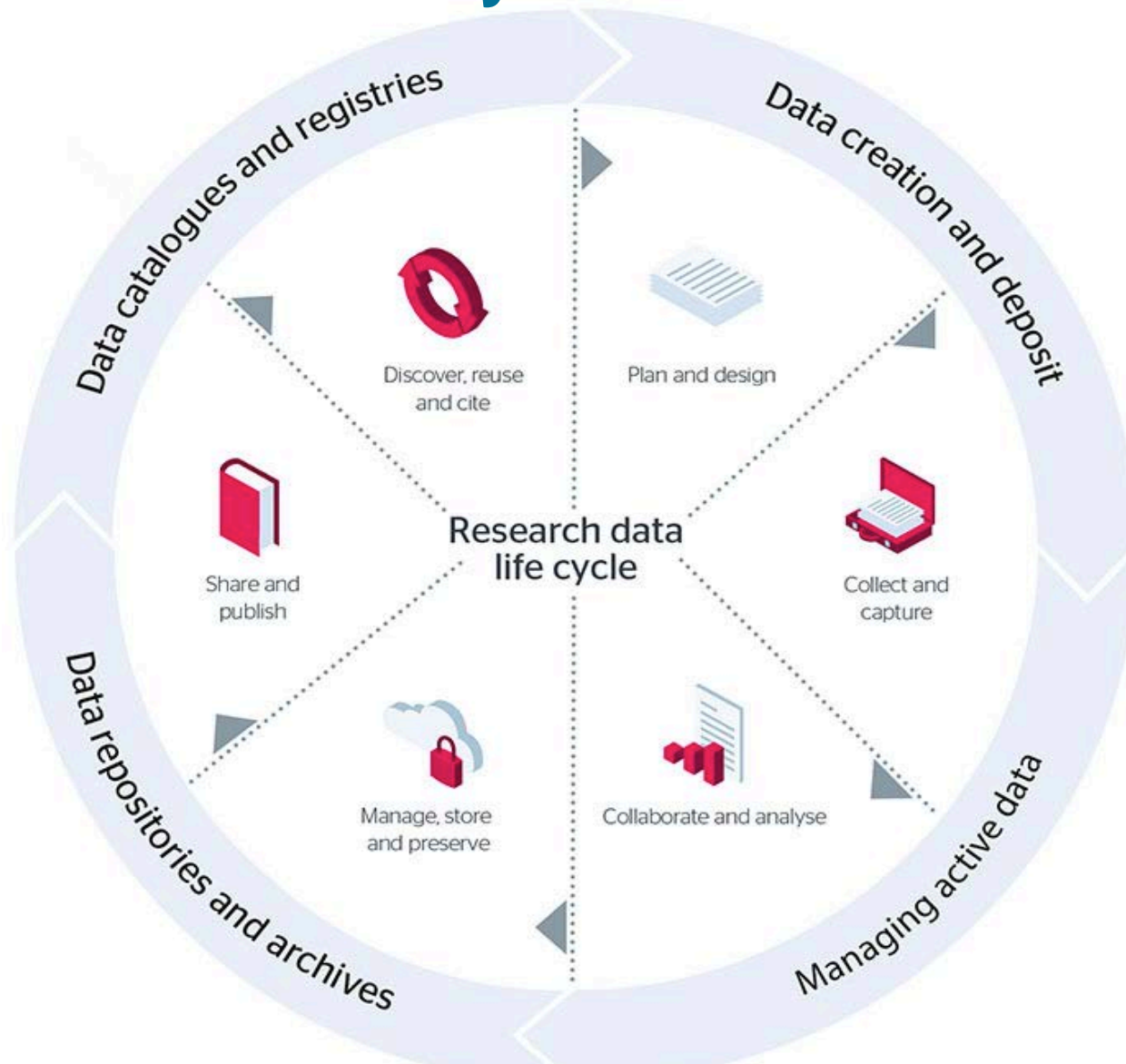
Oct 2015

https://phaidra.univie.ac.at/detail_object/o:407736

The components for effective research data



Research Data Life Cycle:



[Source: JISC: How and why you should manage your research data: a guide for researchers](#)

Caroline Ingram, Published: 7 January 2016

Initiatives to support Research Data life cycle



Collaborate and Analyze: Hivebench



A laboratory notebook:
Online and Collaborative

www.hivbench.com

Open Science	In-House
10 teammates	Unlimited teammates
1,000 experiments	Unlimited experiments
10GB storage	Unlimited storage
Collaborative notebook	Collaborative notebook
Find out more »	Contact us »

Manage, Store, Preserve: Mendeley Data



MENDELEY DATA Beta Browse My datasets New dataset Log in Create account

Reproducible experiments on dynamic resource allocation in cloud data centers

DOI: 10.17632/xz6gv65m6d.6
Contributor(s): Andreas Wolke

Description of this data

In Wolke et al. we compare the efficiency of different resource allocation strategies experimentally. We focused on dynamic environments where virtual machines need to be allocated and deallocated to servers over time. In this companion paper, we describe the simulation framework and how to run simulations to replicate experiments or run new experiments within the framework.

Experiment data files Download all files (6)

- Results.zip 63 KB
- CSV files with simulation and experimentation results.
- github.paper.IS2015-master.zip 8 MB
<https://github.com/jacksonicson/paper.IS2015/tree/7165452f4e9c540f98e1e57058de06f9b192e8f>
- github.workload-master.zip 222 MB
<https://github.com/jacksonicson/workload/tree/713dc5382b82e4ec1e1b6a998c80af37fc08219f>
- Dockerfile 1 KB
Used to create the Docker container provided in IS2015.tar.gz
- IS2015.tar.gz 1.3 GB
Docker container file with installed simulation framework. Run simulations: (cd /root/work/paper.IS2015/control/Control && ./startsim_reprozip) Run analysis: (cd /root/work/paper.IS2015/analysis && ./startanalysis-sim)
- reprozip.rpz 160 MB
ReproZip package of the simulation executed in the Docker container.

Version 6 | Published: 13 Dec 2015

This data is associated with the following peer reviewed publication:

Reproducible experiments on dynamic resource allocation in cloud data centers

Cite this article

Published in: Information Systems

Latest version

Version 6 2015-12-13
Published: 2015-12-13
DOI: 10.17632/xz6gv65m6d.6

Cite this dataset

Wolke, Andreas (2015), "Reproducible experiments on dynamic resource allocation in cloud data centers", Mendeley Data, v6
<http://dx.doi.org/10.17632/xz6gv65m6d.6>

Previous versions

Version	Published
Version 5	2015-11-21
Version 4	2015-11-16
Version 3	2015-11-14
Version 2	2015-11-14
Version 1	2015-10-12

Version comparison

Version 5

Linked to published papers – or not

Linked to Github – or not

Versioning and provenance

Allowing Different Licenses

Manage, Store, Preserve: Pure

Data Management and Open Access

- One of the content types that Pure can manage is a dataset. It represents a research data used during the project that is necessary to support the reproducibility of the process. Besides, electronic data can interoperate with SHERPA/RoMEO and Institutional Repositories



Pandemic Influenza Primary Care Reporting (PIPeR) data for cohort studies

Dataset

Data availability

Publisher *

Department of Statistics & Modelling Science

Publisher

Change publisher...

DOI

Add existing DOI

Electronic data

health records data

health_records_data.sav, 47 MB

Added by: root, Dec 20 2013 10:28 AM

Public - No restriction

Drag files or **browse** your computer.

Max filesize: 1024 MB.

Physical data

Add details of physical data...

Links

Add link...

Date made available

Year * Month Day

2011 12 21

Access to the dataset

Access options

Restricted

Visibility

Public - No restriction

Public - No restriction

Campus - Restricted to specific IP range

Backend - Restricted to Pure users

Upload an electronic version

Upload an electronic (full-text) version of this work (e.g. the author's accepted manuscript)

File *

Measuring_the_effect_of_enhanced_cleaning_AUTHOR.docx

23 KB, application/vnd.openxmlformats-officedocument.wordprocessingml.document

Replace

File title

Measuring the effect of enhanced cleaning_ AUTHOR

Document version

Accepted author manuscript

Peer reviewed version

Public access to file *

Open

License to document

CC BY-ND

Show license

Visible on portal date

No value

Cancel Create

Information from SHERPA RoMEO

The information is collected from Sherpa/RoMEO and describes the publishers default policies.

RoMEO color: Green

Archiving (pre-print): can

Archiving (post-print): can

Conditions

- Publisher's version/PDF may be used
- Eligible UK authors may deposit in OpenDepot
- Creative Commons Attribution License
- Copy of License must accompany any deposit.

Share, Publish: Open Data Pilot



ScienceDirect Journals Books Shopping cart Sign in Help

Purchase Export Search ScienceDirect Advanced search

Article outline ☐ Show full outline

Highlights
Abstract
Keywords
1. Introduction
2. Methods
3. Results
4. Discussion
5. Conclusions
Acknowledgements
Appendix A. Supplementary material
References

Figures and tables

Table 1
Table 2
Table 3

Biological Conservation
Volume 182, February 2015, Pages 177–186

Habitat disturbance effects on the physiological stress response in resident Kenyan white-bearded wildebeest (*Connochaetes taurinus*)
J.A. Stabach^a, R.B. Boone^a, J.S. Worden^b, G. Florant^c

Choose an option to locate/access this article:

Check if you have access through your login credentials or your institution
Check access

Purchase \$35.95

Rent at DeepDyve

Get Full Text Elsewhere

Open Data within this article

This article contains open data for download under the CC BY license.

Supplementary data 4
This is open data under the CC BY license (<http://creativecommons.org/licenses/by/4.0/>).
Download file (19 KB)

This supplementary data set is publicly available as Open Data (CC BY) on ScienceDirect

See article: <http://www.sciencedirect.com/science/article/pii/S0006320714004765>



Share, Publish: Data visualization - in-article data viewers to allow data exploration with the article

NeuroImage
Volume 76, 1 August 2013, Pages 412–427

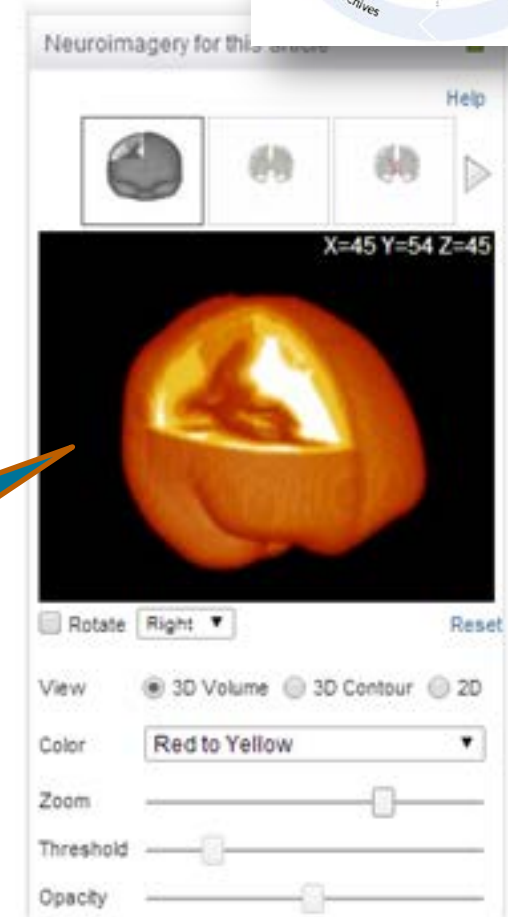
The valuation system: A coordinate-based meta-analysis of BOLD fMRI experiments examining neural correlates of subjective value

Oscar Bartra¹, Joseph T. McGuire¹, Joseph W. Kable¹

<http://dx.doi.org/10.1016/j.neuroimage.2013.02.063>

Highlights

- Theories of decision making
- Numerous fMRI studies have
- We quantitatively meta-analyze
- We identify a "valuation system"
- Other regions show a mixture of positive and negative effects across experiments.



Share, Publish: Text and Data Mining Portal

[🏠 ELSEVIER Developers](#) [Overview ▾](#) [Use Cases ▾](#) [Explore ▾](#)

[Read the APIs story on ScienceDirect blog.](#)

Retirement of searchapi.scopus.com. [Learn more ...](#)

Get started today!

Elsevier's API program allows you to integrate content and data from Elsevier products into your own website and applications. [Learn more ...](#)

1. Look at use cases

2. Get API Key

3. Start coding

Use cases and Examples

Federated Search

IR/CRIS/VIVO

ScienceDirect Journal info

ScienceDirect Article info

Cited by in Scopus

Academic Research

Journal Metrics

Text Mining

CORS Search Examples

If you do not find your use case above, please write a short use case description and [✉ contact us](#).

Resources

How To Guides

Legal & Policies

Support & Inquiries

researchers at subscribing institutions can use our [developers' portal](#) [↗](#) to register. They will then receive a key to the Application Programming Interface (API) of ScienceDirect, which provides full-text content in XML and plain-text formats optimal for TDM.

APIs Blog

APIs new features:

[Interactive APIs](#)

Scopus Journal Metrics: IPP is now available in addition to SJR and SNIP

Author search using ORCID

[API Release notes](#)

Elsevier Products:

[ScienceDirect](#)

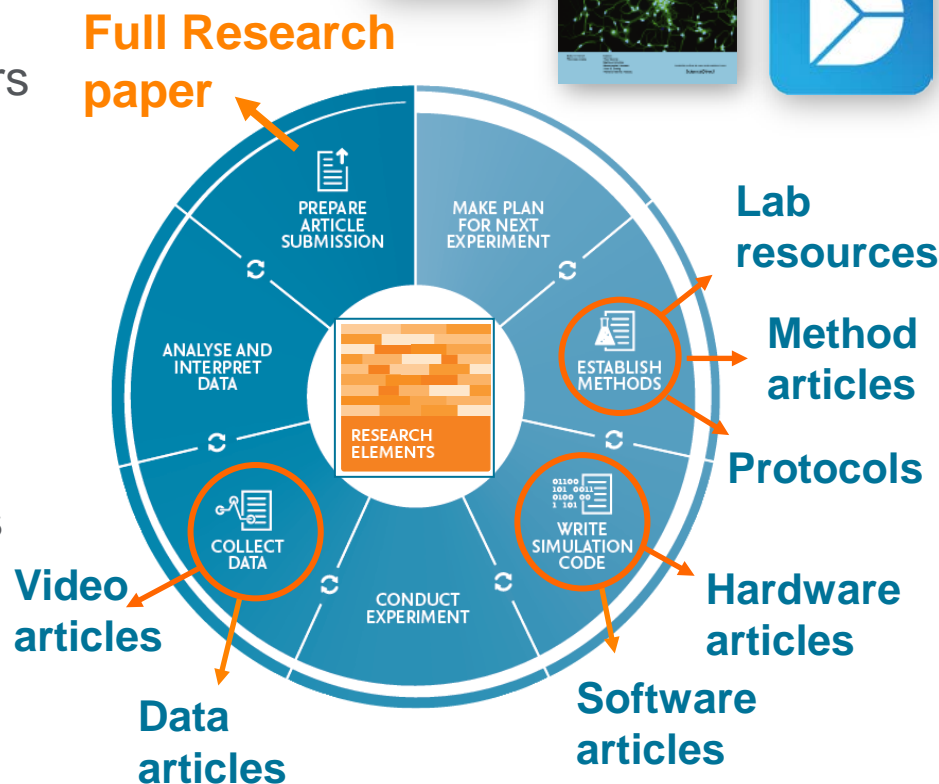
[Scopus](#)

[Mendeley](#)

[Mendeley Developers](#)

Share, Publish: Research Elements

- Brief article types designed to communicate a specific element of the research cycle
- Complementary to full research papers
- Peer-reviewed and indexed
- Receive a DOI and fully citable
- Allow citable post-publication updates
- Primarily Open Access (CC-BY)



Discover: Datasearch



non solus/home/index.asp x Uruguay - Google Search x DS Uruguay - Elsevier Data: x
<https://datasearchdemo.elsevier.com/#/search/Uruguay>

DataSearch

Filter Results
reset
5265 results for Uruguay

Types

- Tabular Data (4161)
- Image (1676)
- Document (318)
- Raw Data (17)
- File Set (4)
- Video (1)
- Slides (1)

Sources

- ScienceDirect (5058)
- PubMed Central (100)

Description

- Table 6
- Table 7
- Table 9
- Table 3
- Table 2
- Fig. 1

Authors: Jorge Álvarez, Ennio Bilancini, Simone D'Alessandro & Gabriel Porcile

Publication Date: Unknown

Description: In this paper we apply a model of early industrialization to the case of New Zealand and Uruguay in 1870–1940. We show how differences in agricultural institutions may have produced different development paths in two countries which were similar under many respects. While in New Zealand the active role of the Crown in regulating the land market facilitated access to land, in Uruguay land was seized by a small group of large landowners. Our model shows that land concentration may have negatively influenced industrialization and growth by impeding the formation of a large group of middle-income landowners and, as a consequence, the development of a domestic demand for basic manufactures. We support this view with a comparative analysis of agricultural institutions and industrial development in New Zealand and Uruguay.

This result contains:

- IMAGE 5
- TABULAR DATA 13

Go to data source

1 of 19

<http://datasearchdemo.elsevier.com/indexed#>

Publishing The Full Research Cycle Requires Networks of Collaboration:

Force11:

- Multi-stakeholder, member-driven organization
- Unites scholars, tool developers, librarians, publishers, funding agencies, etc.
- [E.g. Software citation group](#), akin to Data Citation Group



National Data Service:

- Multi-stakeholder group, based around supercomputing centers
- Aims to be a 'connective tissue' between data creation, curation, storage, etc, projects.
- E.g. Datasearch, Data Linking systems

**The National
DATA SERVICE**

RDA:

- Co-leading Data publishing, linking group
- Co-lead Cost Recovery group, part of RDA US Sustainability effort
- Active in Chemistry, Earth Science groups, starting IG on Data Search



References

- <https://www.hivebench.com>
- https://dev.elsevier.com/tecdoc_sd_ir_integration.html
- <https://www.elsevier.com/physical-sciences/earth-and-planetary-sciences/the-2015-international-data-rescue-award-in-the-geosciences>
- <http://www.journals.elsevier.com/softwarex/>
- <https://www.elsevier.com/books-and-journals/content-innovation/data-base-linking>
- <https://rd-alliance.org/groups/rdawds-publishing-data-services-wg.html>
- <https://rd-alliance.org/bof-data-search.html>
- <https://data.mendeley.com/>
- <https://www.elsevier.com/connect/10-aspects-of-highly-effective-research-data>
- <https://www.force11.org/>
- <http://www.nationaldataservice.org/>
- <https://rd-alliance.org/>
- <https://www.elsevier.com/about/open-science/research-data>

Gracias!