

ORCID: Building Trusted Infrastructure

2019 China Workshop

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Connecting Research
and Researchers

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“The ability to uniquely identify contributors is a deceptively simple concept which, if realized, could enable forms of real-time understanding of scientific research that up to now have been extremely costly (if not impossible).”

-Jonathan Kram, Wellcome Trust

- Documenting impact through research performance frameworks
- Reducing researcher burden

... but these two goals seem at cross purposes?

NAME AMBIGUITY

mj buys

People also ask

Who owns Michael Jackson's rights?

Does Michael Jackson own the Beatles music?

What percentage of Sony did Michael Jackson own?

How much did Michael Jackson buy the Beatles catalog for?

Feedback

✓ **How Michael Jackson Bought the Publishing Rights to The Beatles** ...
mentalfloss.com/.../how-michael-jackson-bought-publishing-rights-beatles-catalogue
Aug 29, 2016 - Michael Jackson and Paul McCartney first met and became friendly in ... With the help of his attorney John Branca, Jackson started buying the ...

✓ **Sony buys Michael Jackson's music catalog for \$750M - USA Today**
https://www.usatoday.com/story/life/music/.../81800298/
Mar 15, 2016 - LOS ANGELES — Michael Jackson's estate has agreed to sell its remaining stake in a lucrative music catalog to Sony Corp. for \$750 million, ...

✓ **Sony buys out Michael Jackson's ATV Music Publishing for \$750m** ...
https://www.theguardian.com/.../sony-michael-jackson-atv-music-publishing-750m
Mar 15, 2016 - Company will now control all of Sony/ATV, the largest music publishing company in the world, having bought the dead singer's 50% share.

Michael Jackson???

0000-0001-7234-3684

About 118 results (0,25 seconds)

✓ **Matthew Buys (0000-0001-7234-3684) - ORCID | Connecting ...**
https://orcid.org/0000-0001-7234-3684 - ...
Matthew is responsible for leading and managing the global adoption of ORCID across our communities and sectors. Based in Amsterdam, Matthew manages ...

[PDF] ✓ **career and person tracking with orcid - UK ORCID Support - Jisc**
https://ukorcidsupport.jisc.ac.uk/.../Cultivating-ORCID_PM_Breakout-2_ORCID-Care... - ...
... AND PERSON. TRACKING WITH ORCID. JISC Workshop, 16 June 2017. MATT BUYS
orcid.org/0000-0001-7234-3684. REGIONAL DIRECTOR, EMEA ...

✓ **Why, What & How: The role of ORCID in Research Management (M ...**
https://www.slideshare.net/.../why-what-how-the-role-of-orcid-in-research-manageme... - ...
Mar 7, 2016 - ... ORCID allows for simple searching of a specific ID and creates an authority record i.e.
http://orcid.org/0000-0001-7234-3684 First challenge 4 ...

✓ **GitHub - ORCID-CASRAI-2015/Elastic-ORCID-Prototype: Elastic Orcli...**
https://github.com/ORCID-CASRAI-2015/Elastic-ORCID-Prototype - ...
... curl -XPUT http://localhost:9200/record/orcid_v1.2/0000-0001-7234-3684 --upload-file
sample_profiles/0000-0001-7234-3684.orcid.json curl -XPUT ...

Unique identifiers provide trusted connections to professional activities



IDENTIFIERS FOR PEOPLE, PLACES AND THINGS

ORCID iD	First/given name	Last/family name	Other names	Affiliations
https://orcid.org/0000-0002-1701-6370	Matt	Buys		Scion, South African National Biodiversity Institute, North-West University, University of Stellenbosch Faculty of Science
https://orcid.org/0000-0001-7234-3684	Matt	Buys	Matthew Buys, MJ Buys, M Buys, Matthew J Buys	ORCID, University of the Witwatersrand, Wits Business School



LEI

GLOBAL
LEGAL
ENTITY
IDENTIFIER
FOUNDATION



WHAT IS ORCID?

- An identifier for researchers
- A registry
- A set of standard procedures (APIs) for connecting researchers to their affiliations and activities
- A committed community building connectors
- An international-scale open research effort



iD

THE ORCID COMMUNITY

- 1,056 organizational members from 46 countries
- 600+ system connectors: all research sectors
- Over 7 million researchers
- 20 consortia in:
 - Americas: Brazil, Canada & United States
 - EMEA: UK, Norway, Finland, Sweden, Netherlands, Belgium, Germany, Italy, Portugal, Israel, South Africa, Denmark, Greece, Austria
 - APAC: Australia, New Zealand, Taiwan



Why ORCID iDs are important?

What's in a Name?

Most names are not unique



Many people have
the same name

**Names may
change through
marriage or other
circumstances**



People use different versions of
their name during their career

**Individuals use different alphabets,
abbreviations, or naming conventions**



Meadows, Alice; Laurel, Haak (2019): The Value of Using Unique Identifiers for Researchers.
figshare. Poster

Researchers are mobile!



For example,

**30% OF THE SCIENTISTS WHO GOT
THEIR PhD IN THE UNITED
KINGDOM NOW LIVE ELSEWHERE**

Source: Science Magazine

Research institutions and organizations therefore find it hard to



- Benchmark their organization against others
- Identify, track, and report on researchers' affiliations and contributions (publications, peer reviews, grants, and more)

Institutions Face a Rising Tide of Research



OVER 3 MILLION

scholarly articles published per year

Source: The STM Report, October 2018

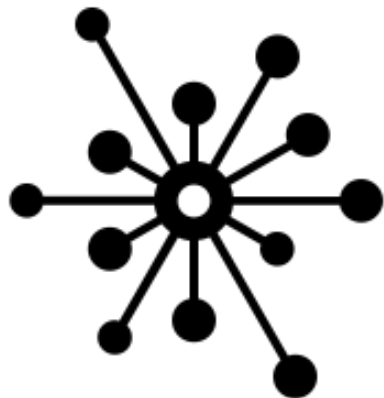
42,500 ACTIVE
SCHOLARLY PEER-
REVIEWED JOURNALS

Source: The STM Report, October 2018



Institutions must increasingly recognize and demonstrate the impact of all types of research contributions

Data in research evaluation



Research evaluation is hampered by a lack of data that clearly connect a research program with its outcomes and, in particular, by ambiguity about who has participated in the program and what contributions they have made.

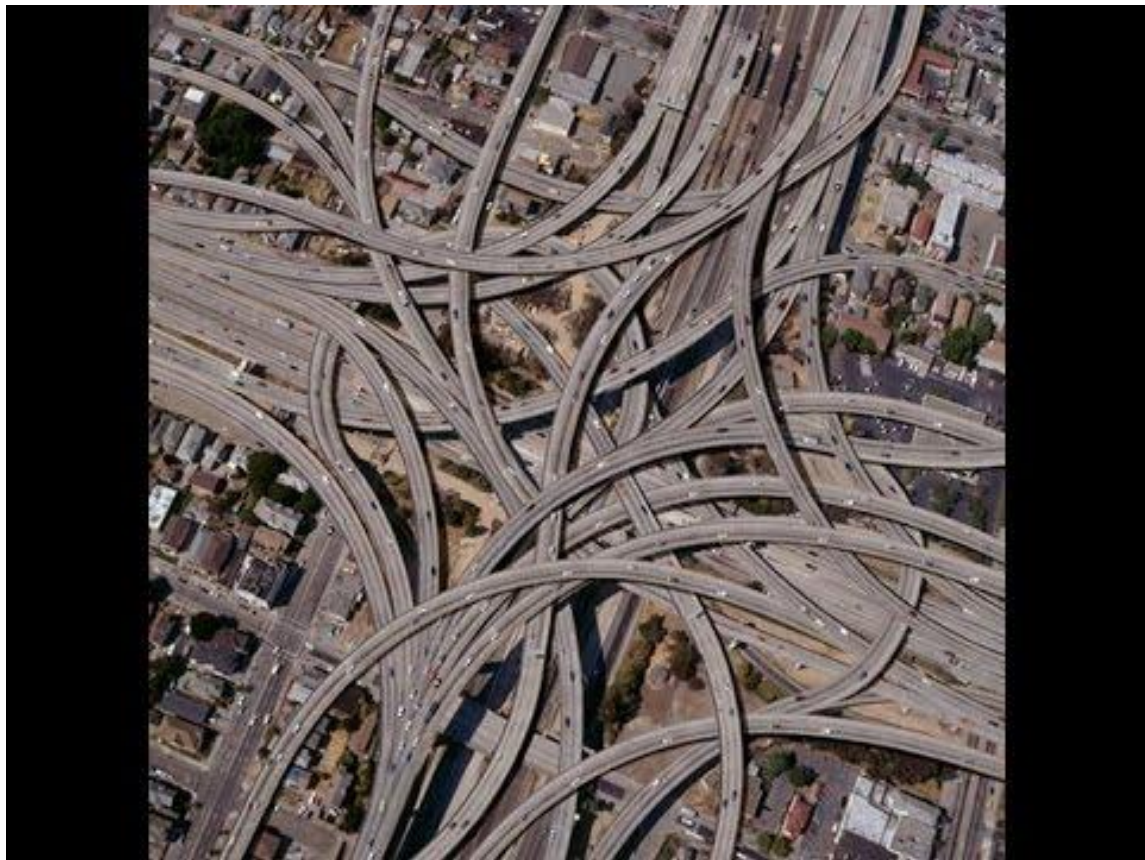


Administrative burden

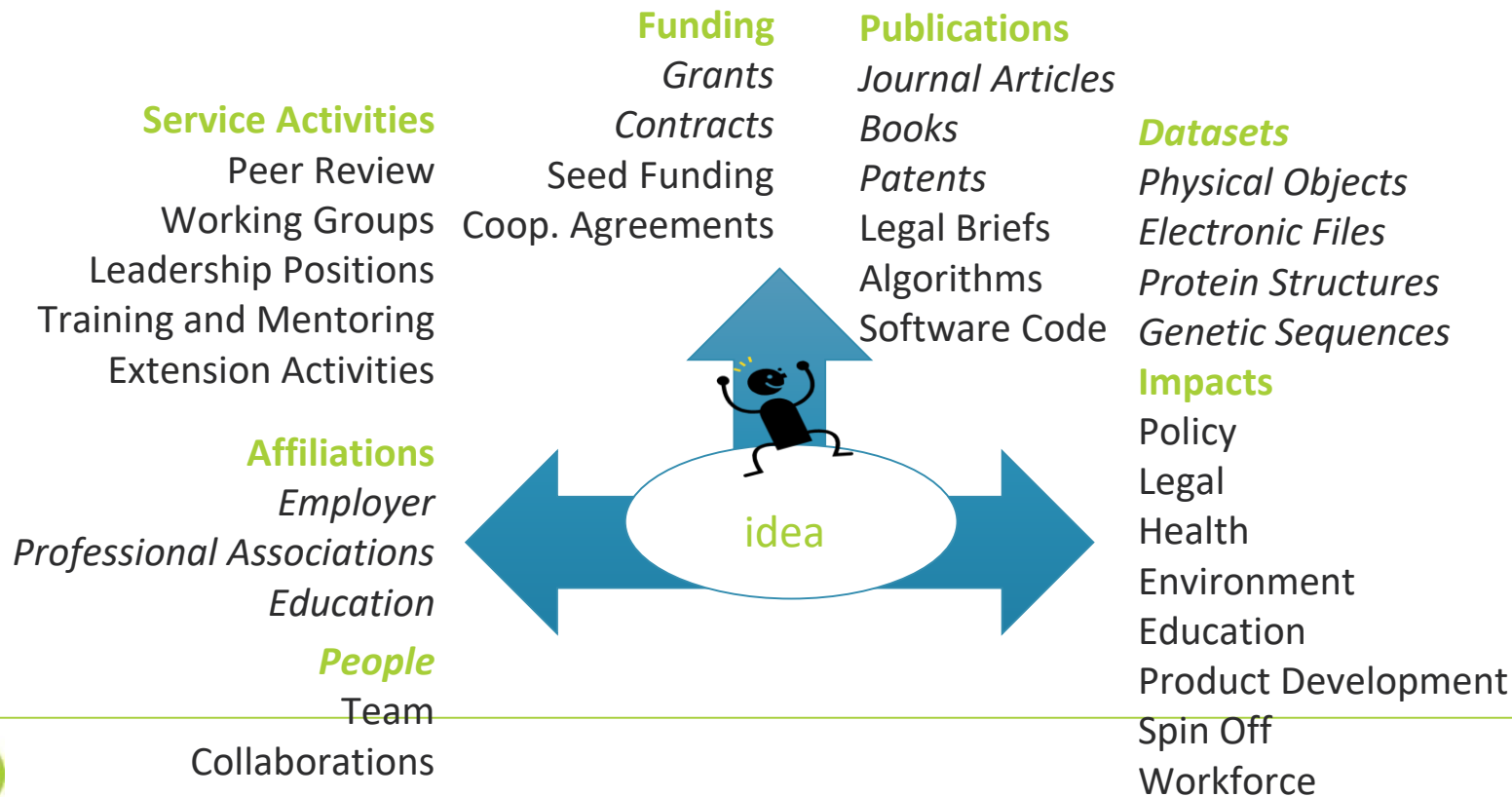
Manually making these connections is very labor-intensive, and algorithmic matching introduces errors and assumptions that can distort results.



Haak, L., Meadows, A. and Brown, J. (2018). Using ORCID, DOI, and Other Open Identifiers in Research Evaluation. *Frontiers in Research Metrics and Analytics*, 3.



Contribution types



Unique researcher identifiers have the potential to bring efficiency and transparency to the creation and re-use of information for research evaluation.

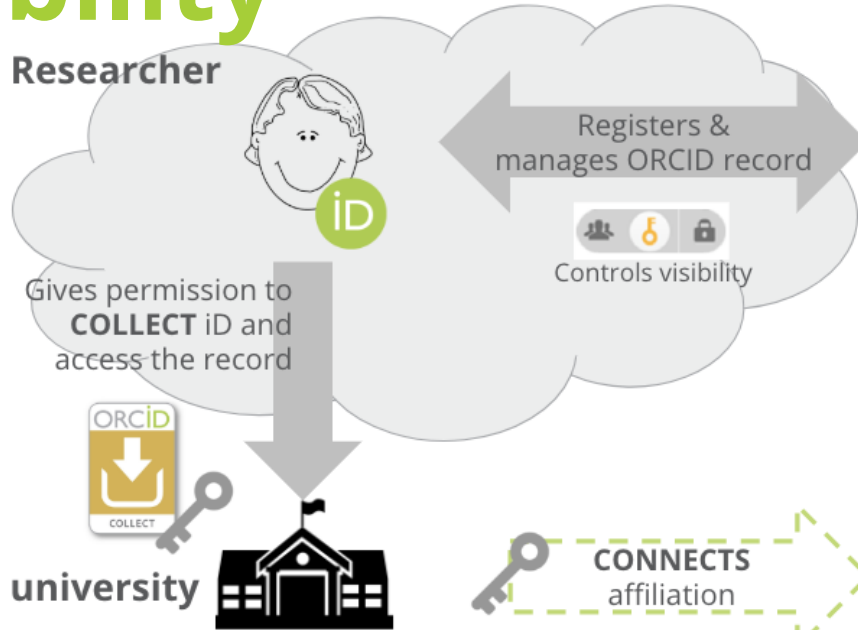
Visibility, Interoperability & Credibility

ORCID benefits for researchers



Visibility

Researcher



ORCID record

Researcher Name

ORCID ID

iD orcid.org/xxxx-xxxx-xxxx-xxxx

Basic information

- Other names
- Email addresses
- Biography

Account settings

Activities & affiliations

Employment:

XXX University
Source: **XXX University (ID139)**

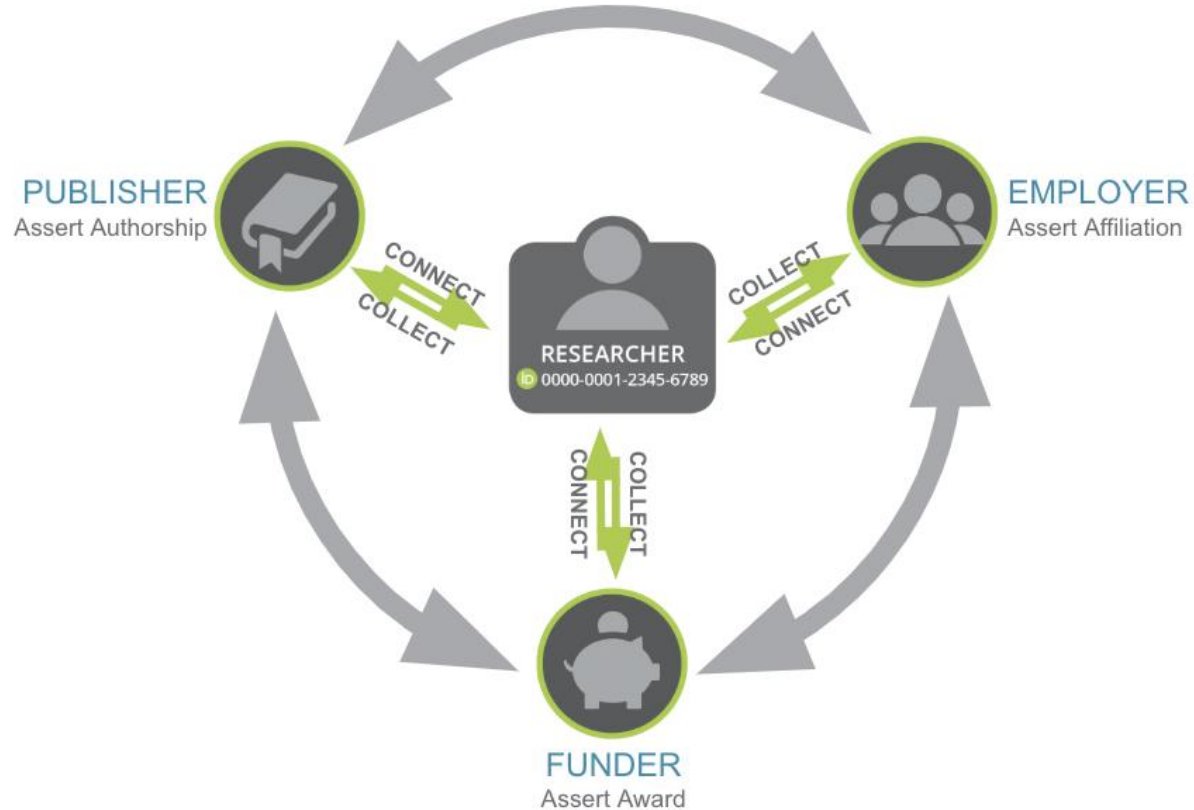
Funding:

YYY Foundation, Grant #123
Source: **YYY Foundation (ID45)**

Works:

Journal ZZZ, vol. 45, 2016
Source: **ZZZ Publishing (ID675)**

Interoperability



Matthew Buys

ORCID ID

 <https://orcid.org/0000-0001-7234-3684> Print view?

Also known as

MJ Buys, M Buys, Matthew J Buys

Country

Netherlands, South Africa

Keywords

information systems,
interoperability, access to
information, research management,
innovation, persistent identifiers

Websites

[LinkedIn](#)[ORCID blog: Matthew Buys](#)

Other IDs

ResearcherID: J-2686-2014

▼ Works (37 of 37)

Sort

Blog: Technology+Engagement=Infrastructure Sustainability

Figshare

2018 | other

DOI: [10.23640/07243.7008152](https://doi.org/10.23640/07243.7008152)

Source: DataCite

 Preferred source

▼ Peer review (3)

▼ review activity for [Journal of Geophysical Research - Space Physics\(2\)](#)

Journal, JGR: Space Physics is dedicated to the publication of new and original research in the broad field of space science. This embraces aeronomy, magnetospheric physics, planetary atmospheres, ionospheres and magnetospheres, solar and interplanetary physics, cosmic rays, and heliospheric physics. Science that links interactions between space science and other components of the Sun-Earth system are encouraged, as are multidisciplinary and system-level science papers.

Review date	Type	Role	Actions
2017	review	reviewer	 hide details view
Review identifier(s): SOURCE-WORK-ID: mXMEZVf8H3NebHGSAp			
Convening organization: American Geophysical Union(Washington, DC, United States)			
Source: GEMS		Created: 2017-10-18	
2017	review	reviewer	 show details view

Research Vision

Benefits realisation



**TO REALIZE THE OPEN
RESEARCH VISION,
EVERY STAKEHOLDER
MUST TAKE ACTION**

Evidence of Institutional Value

Examples of time/staff savings achieved by implementing ORCID from around the world



UK: 0.2 – 0.4 FTEs per institution¹

Portugal: 100,000 researcher hours per year²

Australia: 15-30 minutes per grant application³

1. Jisc/ARMA Institutional ORCID Implementation and Cost Benefit Analysis Report 2015

2. Cátia Laranjeira, FCT - Fundação para a Ciência e a Tecnologia 2017

3. Australian Research Council governance meeting, September 2018

"Having ORCID iDs for most of our researchers has helped in providing authoritative accounts in our various databases, ensuring accuracy in reviewer identities, and helping editors find reviewers and check expertise."

—Brooks Hanson, Executive Vice President, Science, American Geophysical Union

How Organizations and Researchers Benefit

INSTITUTIONS

- Save time and reduce errors with automated information-sharing and cross-system interoperability
- Manage your organization name and your researchers' connections with it
- Maintain links with your researchers - past, present, and future



RESEARCHERS

- Improve recognition and discoverability of their research
- Spend more time doing research, less time managing it
- Control and manage a trusted and easily shareable record of their research activities and affiliations – for free

Three Ways to Get Involved

1. Encourage and support your researchers in getting, sharing, and using their ORCID iD
2. Invest in integrating ORCID into your systems
3. Connect data to and from your researchers' ORCID records to support information use and reuse across organizations

THANK YOU...



Register at
<https://orcid.org/register>

Email m.buys@orcid.org /
e.cheng@orcid.org

Twitter [@ORCID_Org](https://twitter.com/ORCID_Org) /
[@mjbuys](https://twitter.com/mjbuys)