#### **ORCID - ORBIT Project**

Tom Demeranville



Connecting Research and Researchers



# ORCID is a hub for research information.

# We make connections using persistent identifiers.



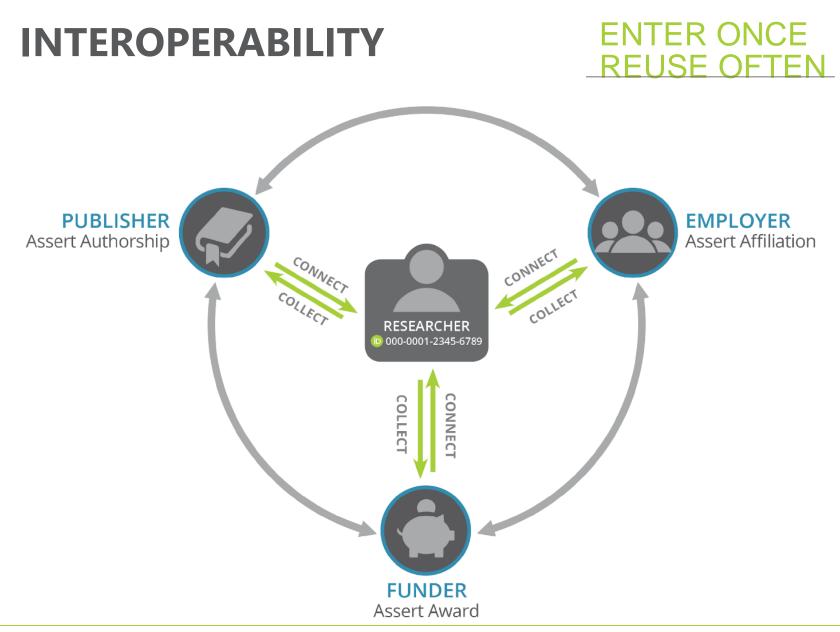
**ORCID's vision** is a world where all who participate in research, scholarship, and innovation are uniquely identified and connected to their contributions and affiliations across time, disciplines, and borders.



### What is ORCID?

- An identifier for researchers
- A metadata registry and API
- A set of standard procedures for connecting researchers to their affiliations, funding and activities
- A committed community
- An international open research effort



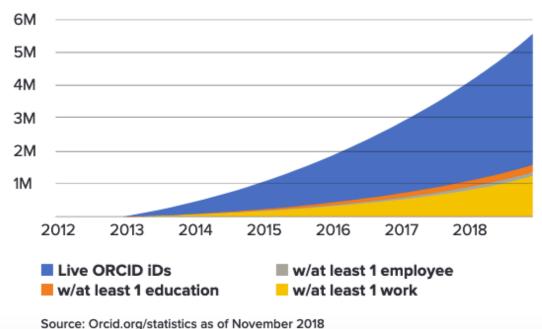




#### Hundreds of members and systems use ORCID globally

#### 6.5 MILLON+ live ORCID iDs registered since its 2012 launch

#### **Connections to ORCID records**



- 3.7 ORCID iDs created every minute
- 193 different languages included in ORCID records
- 73.6% of records have granted update permissions
- 1.97 record updates made per second



### **The ORBIT Project**

ORCID Reducing Burden and Improving Transparency

ORCID and funders working together to reduce workload and improve data quality through data re-use and automation



Funders wield the power to improve the value and openness of research information.

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



# Funders are hubs of activity and information.

Researchers, organisations, and agencies all interact with funders.



#### **ORCIDs value to funders**

Funders increasingly see an ORCID integration as way to show that they are serious about **reducing burden**.

iDs are being used more and more to match and re-use data between systems.



# The ORBIT project rests on a simple idea:

By pooling our know-how and influence, we can deliver a huge step forward for the openness and reliability of research information.



#### ORBIT WORKING GROUP MEMBERS

- Australian Research Council
- •CIHR (Canada)
- CAPES (Brazil)
- •CNPq (Brazil)
- CONCYTEC (Peru)
- ERC
- FCT (Portugal)
- FWF (Austria)
- HHMI (USA)
- •JST (Japan)
- MBIE (New Zealand)

- National Humanities Alliance (USA)
- •NRF (South Africa)
- NSERC (Canada)
- NIH (USA)
- NIHR (UK)
- STDF (Egypt)
- •SSHRC (Canada)
- Swiss National Science Fund
- UK Research and Innovation
- Wellcome Trust (UK)

The groups are also supported by Altum, CASRAI, CC Technology, Crossref, CWTS, DataCite, Digital Science, Elsevier, EuroCRIS



https://orcid.org/about/community/workinggroup/funders

### What have we achieved?

- Convened the Funder Working Group
- Surveyed funder requirements
- Researched funder data use and re-use
- Guided pathfinder project implementations
- Produced the funder open letter
- Built consensus
- Developed workflows

Demonstrated time savings



## **Pathfinder Integrations**

The ORBIT Technical Advisory Group is a forum for outside input and discussion around integrations.

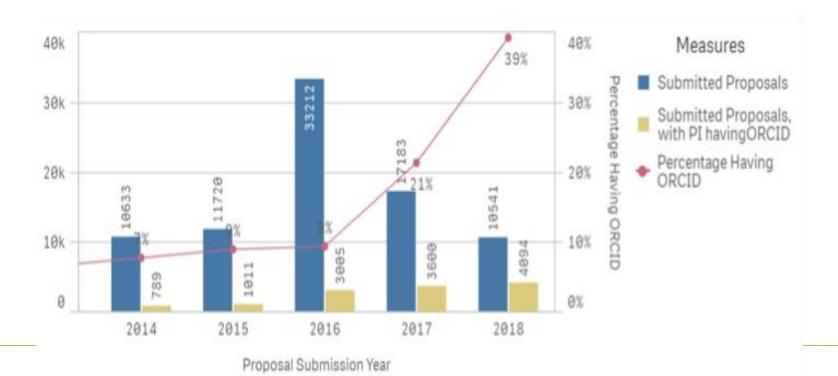
- System Vendors (Altum, CCT)
- Other vendors (Digital science, Crossref)
- Funders actively integrating (ARC)
- Funders making the case

Altum and CCT Technology are improving existing ORCID integrations with FWG members and are rolling out to the rest of their customers.



## Integration example - Altum

17 funders that require ORCID, 12 that request ORCID Seeing growth in ORCID use



### Integration example - Altum

#### ORCID record used to pre-populate application

#### With a robust ORCID profile (affiliation, publications, awards)

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#### The researcher can load their information to proposalCENTRAL without retyping.

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## Integration example - Altum

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### Integration example -ARC

- ARC implemented auto-population of information within the grant application form to assist researchers.
- Using an ORCID ID is one of four input methods supported (ORCID, BibTex, DOIs and manual entry)

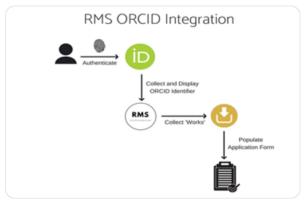


#### Integration example - ARC





#ARCFeatureArticle: Great news! ORCID integration into RMS—from November 2018, researchers will be able to populate their research output data from #ORCID into their RMS person profile and into application forms @ORCID\_Org bit.ly/2QnCKvi



5:40 PM - 11 Sep 2018





### Integration example - ARC

- The implementation was in time to support opening of a new funding round
- The full process is not yet complete.
- Around <sup>2</sup>/<sub>3</sub> of outputs submitted so far have come via the ORCID registry.



### Integration example - ARC

- Over 800K outputs already submitted during this funding round... and growing.
- Outputs from all disciplines.
  - 7200 STEM researchers and 3600 HASS
  - Roughly equal in terms of ORCID use
- Lots of this came from university repositories with ORCID integrations making it available and easy for researchers to share during this process.



## **ARC preliminary statistics**

Number of Reseachers:	11124		
Number of Reseach Outputs:	1287694		
Manually Entered:	63157		
% Manually Entered:	4.90%		
Number of Research Outputs by Source Type	Source Type ORCID BibTex DOI Manual (60.59%)		
	Reset Filters		



# **ORCID FUNDER OPEN LETTER**

An open letter from funders to indicate their intent to integrate ORCID into their grant management workflows has now been signed by 11 funding organizations.

Signatories "commit to implementing ORCID iDs in accordance with their best practice guidelines for funders. We encourage other funders to join us in this initiative. We hope that our action inspires the community, including researchers, scholars, scientists, and research institutions, as well as other funding bodies, to join us in adopting ORCID."



https://orcid.org/organizations/funders/openletter

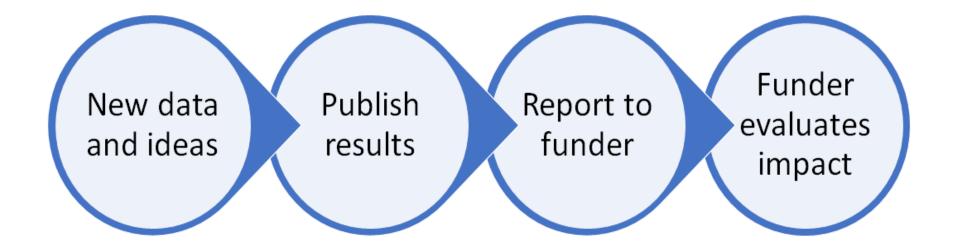
# **OPEN LETTER SIGNATORIES**

- Austrian Science Fund (FWF)
- National Research Foundation (S Africa)
- Howard Hughes Medical Institute
- Wellcome Trust
- Research Council of Norway
- CAPES
- The Royal Society
- UK Research and Innovation
- Swiss National Science Foundation
- Guaana
- The Dunhill Medical Trust



#### What now?

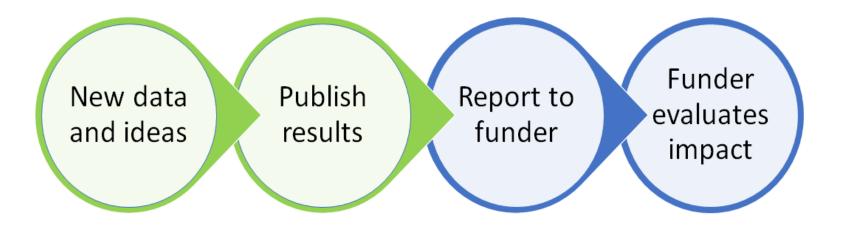
#### We're moving along the value chain







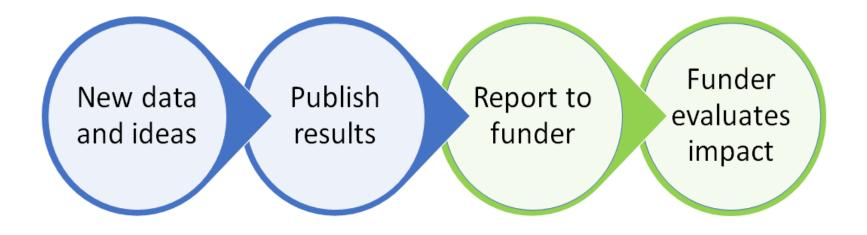
# We're already tackling publishing and applications







#### ORBIT is exploring reporting with funders.





## **Funder reporting survey**

The second phase of ORBIT is gathering information about the systems, workflows, and processes currently used in research reporting and evaluation.

We've identified inefficiencies in datagathering that help us prioritize a second set of pathfinder projects to test, refine, and assess solutions.



## **Funder reporting survey**

- The primary challenge reported by funders is matching grants to subsequent activities and outputs.
- Much of the information reported is late or of low quality and requires time-consuming cleanup.
- 10 of 13 funders who responded either have or are in the process of integrating ORCID in their reporting systems.
- More than 50% of funders interact with researchers during reporting, suggesting that interactions via ORCID could be helpful.



#### **ORBIT Next steps**

- ORCID, Funders, publishers, and DOI registries need to work together to develop, implement, and socialize workflows that create connections between identifiers and systems, grants and outputs at manuscript submission.
- Funder reporting systems should allow researchers to pull information from other systems, including ORCID records, into grants reporting systems.



#### This project represents a real chance to change the way research information is shared for the better.





