ORCID - ORBIT Project

Tom Demeranville
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
INTEROPERABILITY

ENTER ONCE
REUSE OFTEN

PUBLISHER
Assert Authorship

RESEARCHER
000-0001-2345-6789

FUNDER
Assert Award

EMPLOYER
Assert Affiliation
Hundreds of members and systems use ORCID globally

6.5 MILLION+
live ORCID iDs registered since its 2012 launch

- 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

Source: Orcid.org/statistics as of November 2018
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.
ORCID's 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.
The groups are also supported by Altum, CASRAI, CC Technology, Crossref, CWTS, DataCite, Digital Science, Elsevier, EuroCRIS
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)

The researcher can load their information to proposalCENTRAL without retyping.
Integration example - Altum

Applicants then select imported works to submit
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)
#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
Integration example - ARC

• The implementation was in time to support opening of a new funding round
• The full process is not yet complete.
• Around $\frac{2}{3}$ 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

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<thead>
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<th>Category</th>
<th>Value</th>
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<tr>
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<tr>
<td>Number of Research Outputs</td>
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<tr>
<td>Manually Entered</td>
<td>63157</td>
</tr>
<tr>
<td>% Manually Entered</td>
<td>4.90%</td>
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</table>

### Number of Research Outputs by Source Type

<table>
<thead>
<tr>
<th>Source Type</th>
<th>Count</th>
<th>Percentage</th>
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</thead>
<tbody>
<tr>
<td>ORCID</td>
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</tr>
<tr>
<td>BibTeX</td>
<td>374K</td>
<td>29.02%</td>
</tr>
<tr>
<td>DOI</td>
<td>71K</td>
<td>5.68%</td>
</tr>
<tr>
<td>Manual</td>
<td>63K</td>
<td>4.9%</td>
</tr>
</tbody>
</table>

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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.”
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

- New data and ideas
- Publish results
- Report to funder
- Funder evaluates impact
What now?

We’re already tackling publishing and applications
What now?

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 data-gathering 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.