



Managing Identity: ORCID and Federated Login

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Overview

- What is ORCID
- ORCID
- ORCID and FIM4R Recommendations

ORCID Mission: Connecting Research with Researchers

Without a way to discretely identify those participating in research across disciplines, organizations, and countries, **the research community lacks the ability to accurately and easily identify and link researchers and scholars with their professional activities.**

ORCID

ORCID is an *international, interdisciplinary, open, not-for-profit, community-driven* organization. We collaborate with researchers and organizations across the research community.

Our core mission is to provide an *open registry of persistent unique identifiers for researchers and scholars* and to automate *linkages to research works and objects* such as publications, datasets, other IDs, grants, and patents.



The ORCID



<http://orcid.org/0000-0002-3843-3472>

- 16-digit number
- Expressed as URI
- Compatible with ISO 277729 standard
- Last character is a checksum

Register for an ORCID iD

ORCID provides a persistent digital identifier that distinguishes you from every other researcher and, through integration in key research workflows such as manuscript and grant submission, supports automated linkages between you and your professional activities ensuring that your work is recognized.

First name

 * ?

Last name

Email

 *

Re-enter email

 *

Password

 * ?

Confirm

password

 *

Default privacy for new works

Public

You will be able to add information to your ORCID record about work that you have done. This privacy setting will apply to all works/publications added to your record. You can change this any time.

Notification Email

- ☐ Send me notifications about changes to my ORCID Record.
- ☐ Send me information about events ORCID is sponsoring and ORCID news.

Terms of Use *

- ☐ I consent to the [privacy policy](#) and [terms and conditions](#) of use, including allowing those who access the database to make commercial uses of the public data.

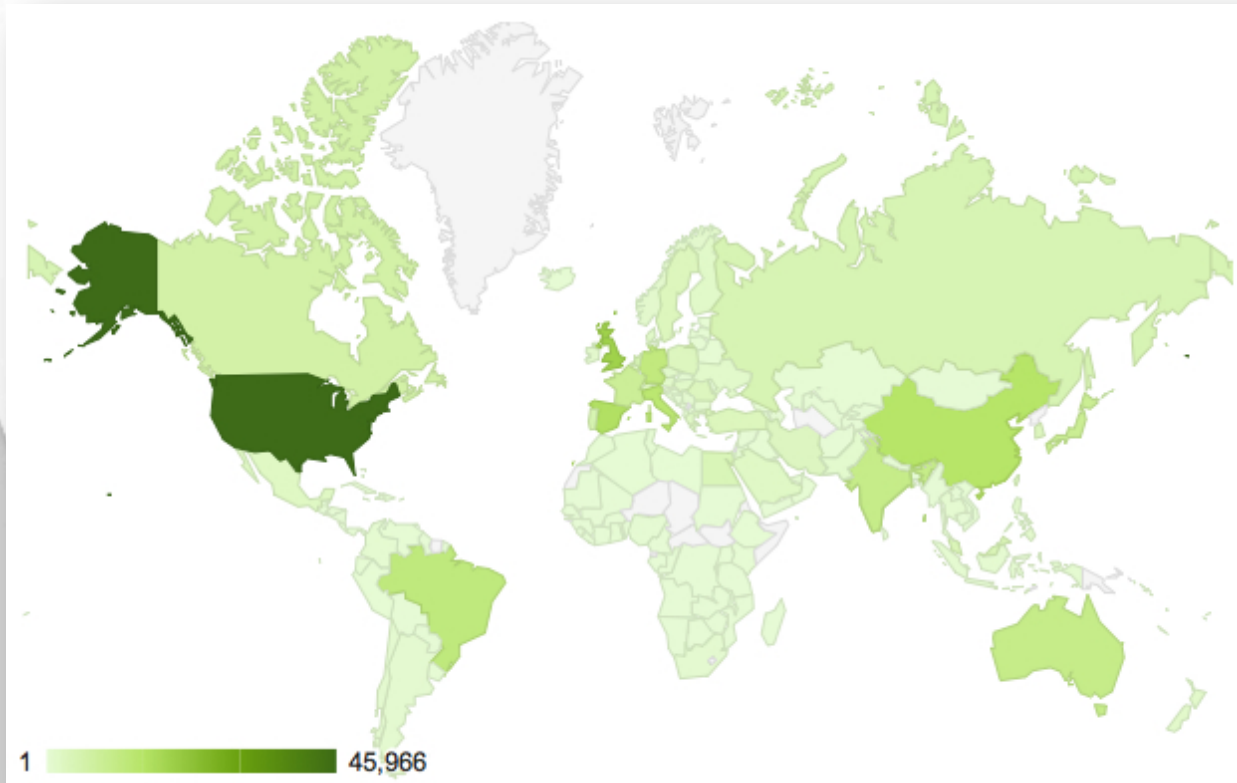
Register

ORCID is international

As of March 15, ORCID had 85,607 registered users.

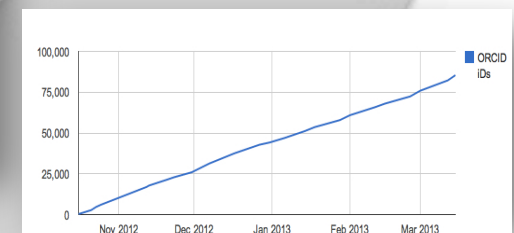
Register for free directly at <http://orcid.org/register>

38 countries with > 1000 users, 78 with >100.



Country / Territory	Visits	% Visits
1. United States	45,966	17.15%
2. United Kingdom	19,621	7.32%
3. Spain	16,324	6.09%
4. China	15,314	5.71%
5. Italy	13,851	5.17%
6. Brazil	12,352	4.61%
7. Germany	12,007	4.48%
8. Australia	10,457	3.90%
9. India	10,424	3.89%
10. Japan	8,954	3.34%

Steady growth since launch



ORCID iDs are being embedded in workflows

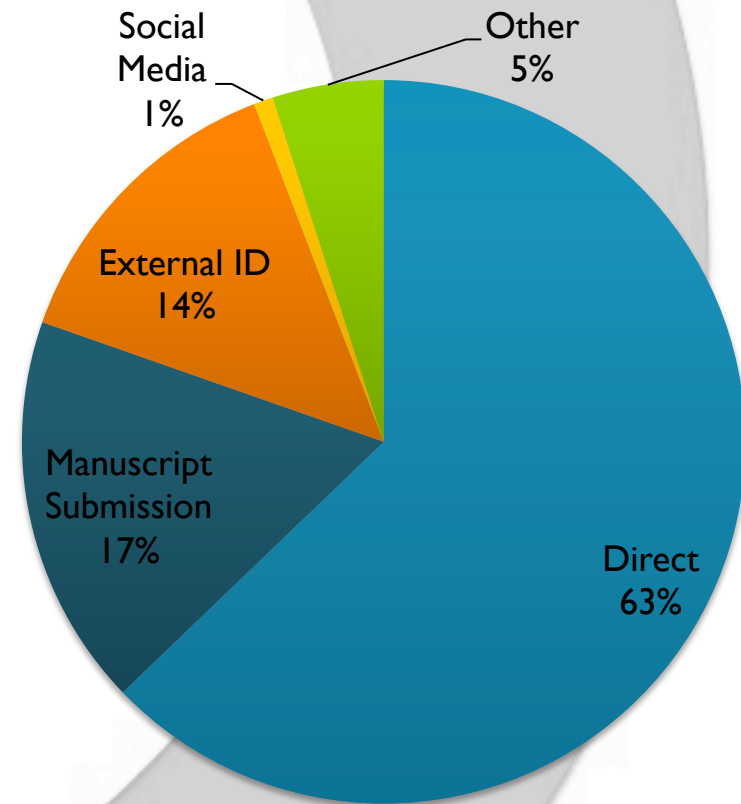
- ❖ University personnel systems (Boston Univ, Avedas....)
- ❖ Manuscript submission (Nature, Hindawi, APS, Copernicus...)
- ❖ Grant applications (NIH, Wellcome Trust...)
- ❖ Linkage with repositories (CrossRef, EBI-EMBL...)
- ❖ Linkage with other IDs (RID, Scopus...)

.... Exploring integration in membership systems with professional societies, and ORCID has been proposed as a component of a COI management system.

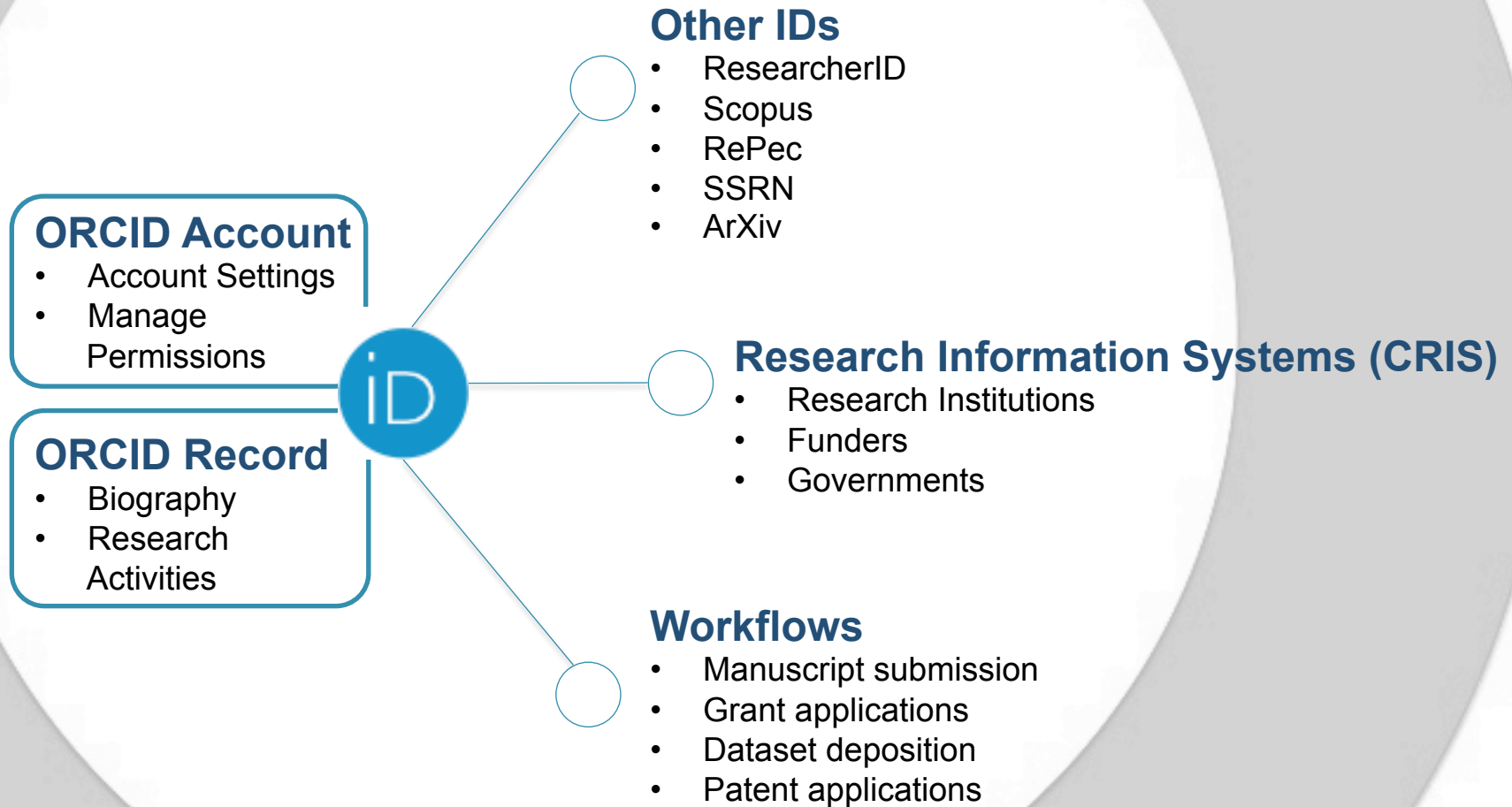
One-third of Registry users from Member-Integrators

Most users came to ORCID either directly to the Registry or the ORCID Website (<http://about.orcid.org>).

ORCID also received substantial traffic from member sites, including manuscript submission systems, and other ID providers or repositories (Scopus, Researcher ID, Faculty of 1000, figshare), and from non-members through social media and use of the public API.



The ORCID Registry

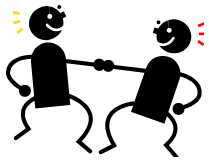


ORCID Personas



The Scholar/Researcher

Individual for whom the iD and Record are created and maintained



Proxy(ies)

Individual(s) assigned by the Scholar to edit the ORCID Record on the Scholar's behalf (though the website)



Trusted Organization(s)

Organizations assigned by the Scholar to view, edit or add to the ORCID Record on the Scholar's behalf (through the API)



The ORCID Account Owner

The Scholar. If an institution creates an iD, could serve as account owner.

ORCID APIs

Public/Tier 1 API

- No token or registration needed
- Can only access data marked as public
- Can only READ

Member/Tier 2 API

- Registration and token needed
- With permission, can access data marked as limited
- Can READ, EDIT, APPEND. For institutions, it is also possible to CREATE

ORCID Privacy

Information in an ORCID Record has a privacy setting, which can be set by the account owner or proxy.

PUBLIC

Accessible by anyone

LIMITED

Accessible by Account Owner, Proxy(ies), Trusted Organization(s)

PRIVATE

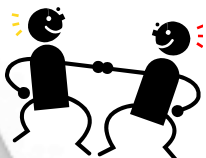
Accessible by Account Owner, Proxy(ies)

Account information (settings, permissions) is accessible by the **ACCOUNT OWNER**

Accessing ORCID Records



Scholar/Researcher
From the Website



Proxy(ies)
From the Website



Trusted Organizations
From the API



CREATE permission:
granted by ORCID only if employer



EDIT permission:
one time ONLY for short term;
granted at time of edit



APPEND permission:
one time ONLY for short term;
granted at time of addition

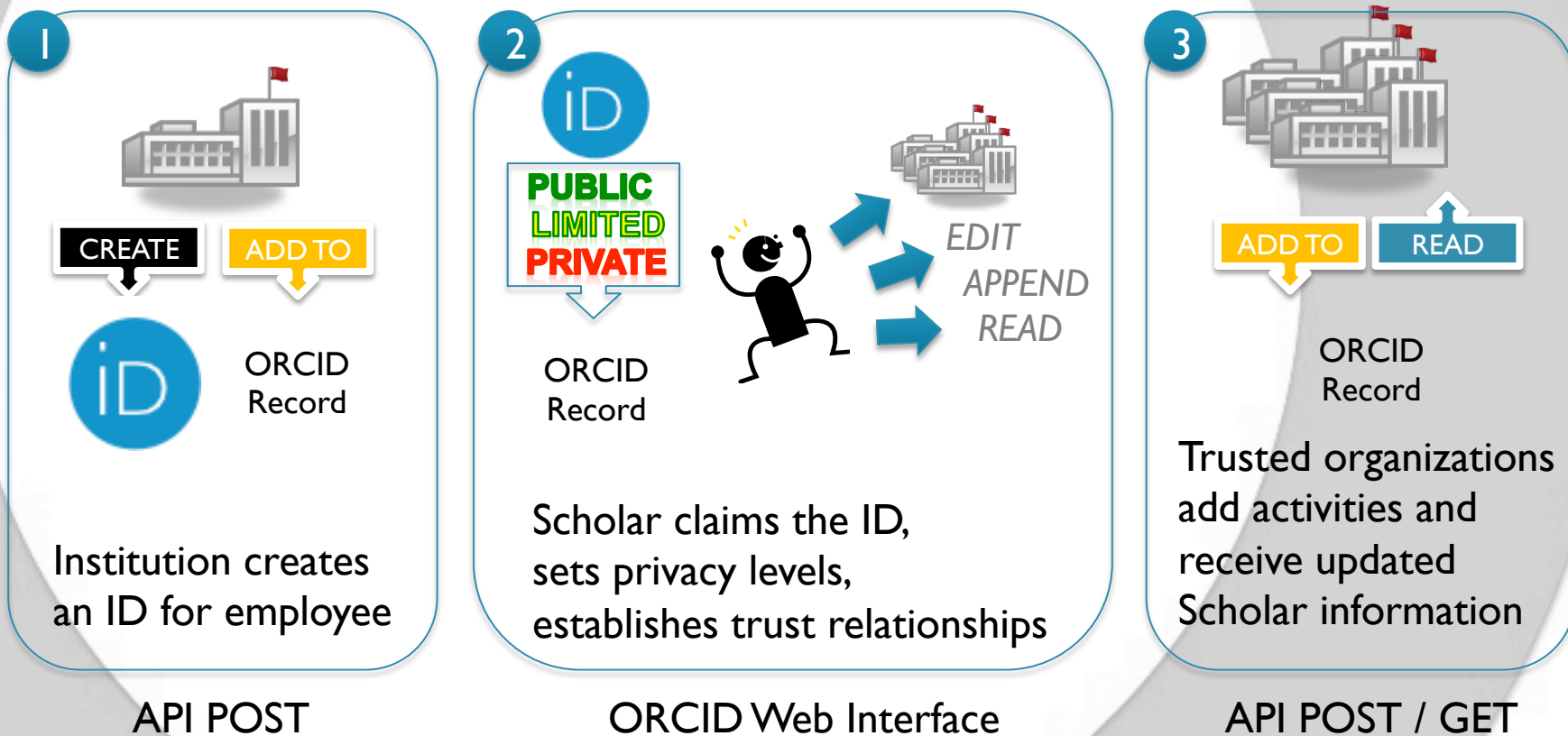


READ permission:
granted until revoked by user



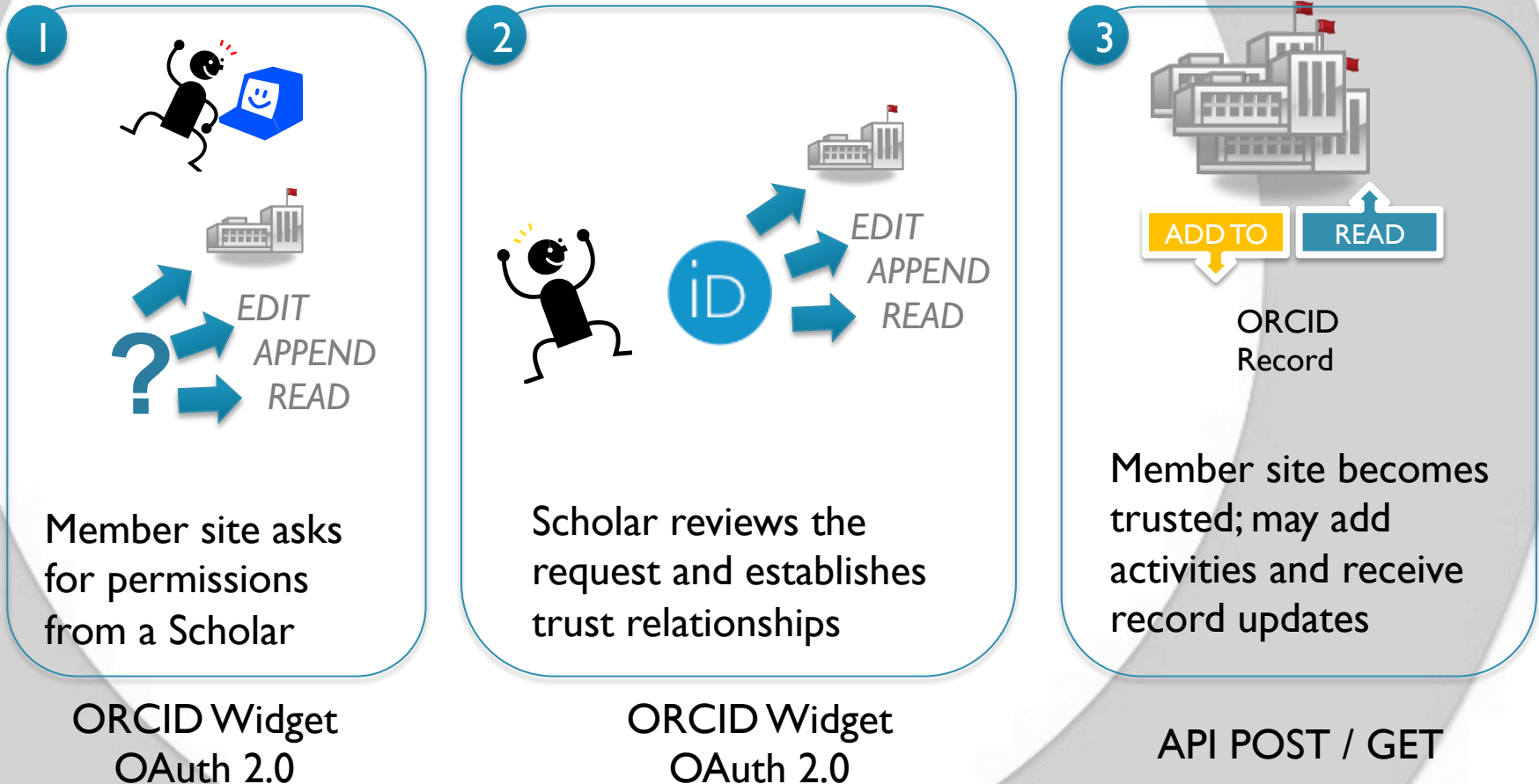
Case Study I:

An iD is created by an institution, and then claimed and managed by the user



Case Study 2:

A user establishes a trust relationship while at a member site



FIM4R Recommendations

Separation of Authorization and Authentication

→ Authorization handled by Member

Credentials Revocation

→ Affiliation Credentials could be handled by Member

Attribute Delegation to Research Community

→ ORCID API is an open specification, driven by research community

Levels of Security

→ User manages privacy/sharing by attribute and organization

ORCID is an Identifier Provider

We provide unique identifiers to researchers

We span discipline, organization, and country

We have an open API with defined attributes

Are we an identity provider?

We provide third-party identity-based authentication services to organizations

We allow users to establish trusted party relationships with members and share limited access data

We link to other IDs, and ORCID iDs are being embedded in university systems

We have a Service Provider agreement that allows for provision of authentication services to several customers

Potential benefits to community

- ❖ User interface is easy and registration is free
- ❖ Users can be registered by their institution
- ❖ Do not collect personal information
- ❖ Links to but does not replace existing ID systems
- ❖ Can manage users across domains
- ❖ Can link to research outputs such as papers and dataset, and could provide the means to make collaborative activities more visible, even citable

...But what's missing?

- ? Accreditation? Certification? By whom? What process?
- ? SLA? Service requirements? Data synchronization?
- ? Data privacy? Attribution sharing?
- ? Business model?

Need more information?

- Find out more at <http://orcid.org>
- Learn about APIs and tools to embed ORCID iDs at <http://support.orcid.org/knowledgebase/>
- ORCID code is posted on GitHub, see <https://github.com/ORCID/ORCID-Source/wiki>
- Subscribe to our blog and follow @ORCID_Org on Twitter
- Contact the ORCID Executive Director at l.haak@orcid.org