Open Research Infrastructure: ORCID

2022 Better Together: Open new possibilities with Open Infrastructure

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We’ll briefly cover a few things:

● Re/introduction to ORCID
● ORCID and Open Research Infrastructure
● Discussion and feedback
Re/introduction to ORCID
A Few ORCID Facts

- Independent not-for-profit open to participation by all
- Registry launched in 2012
- Sustained by fees from our member organizations
- Guided by our values and founding principles
- Community-governed by a Board of Directors elected by our members
ORCID’s Mission

ORCID’s mission is to enable transparent and trustworthy connections between researchers, their contributions, and their affiliations by providing a unique, persistent identifier for individuals to use as they engage in research, scholarship, and innovation activities.
**ORCID, which stands for Open Researcher and Contributor Identifier, provides three main services**

1. The ORCID iD: a unique, persistent identifier (PIIDs) free of charge to researchers

2. A set of Application Programming Interfaces (APIs), services and support of communities of practice enabling interoperability between an ORCID record and member organizations. Researchers can share ORCID iD with organizations that can exchange information in the research workflow

3. A place to store and share the resulting connections between iDs and research activities and affiliations
We have reached a critical mass of global participation.

- Yearly Active Records: 7,113,764
- Countries with members: 56
- Active Integrated Member Systems: 1,052
- National Consortia: 25
- Organizational Members: 1,237
- Users Granting Update Permissions: 5,332,426

Legend:
- National ORCID Consortium
- ORCID member
ORCID is community driven

ORCID has multiple stakeholders

Our member community

ORCID Members

Direct members

Consortia (lead)

Consortia members
ORCiD in the APAC Community

- 163 Members
  - 116 Consortia members
  - 46 Direct Members
- Four Consortia in Australia, Japan, New Zealand and Taiwan
- 171 systems connecting with ORCID (adopting ORCID member API)
- Asia accounts for the second largest traffic to the ORCID Registry
ORCID and Open Research Infrastructure
Goals for research communities

- Support Open Science/Research
- Reduce Administrative Burden
- Assess and Report on Research Impact
- Improve Visibility of Researchers
- Improve Interoperability
- Identify/Disambiguate Researchers
- Improve Data Quality
- Meet or Set National or Funder Policy

Source ORCID Q1 2021 Member Value Reserach; Based on unprompted top-of-mind responses from member value interviews
• Do research communities have an adequate research infrastructure to achieve goals?

• What’s the current operation of research infrastructure in place?
Research Infrastructure is there, but “fragmented”

The infrastructure needs to
- Connect
- Persist over time
- Allow to exchange and make use of information.

See also https://scholarlykitchen.sspnet.org/2020/04/30/building-a-sustainable-research-infrastructure/
“Researchers” are a part of research infrastructure, too
Open PIDs enable an infrastructure to connect researchers, institutions, and research outputs

More at ORCID: Keeping Up with FAIR Momentum
ORCID was built from the ground up to be open and trustworthy in the research infrastructure

- Open source software and FAIR open data
- Open public API
- Open public data file (and policy)
- Open sandbox testing environment
- Open Product Roadmap feedback
- Open to support PIDs adopted by our members

- Founding principles and values
- Commitment to researcher control
- Equitable, sustainable business model
- Membership organization open to all
- Continuous community engagement and dialog

https://info.orcid.org/orcid-trust/
ORCID engenders trust by balancing researcher control and data quality

- Researcher control → trust and participation of researchers → wider uptake and utilization of ORCID by even more researchers and organizations across the globe.
- To balance researcher control with data quality, ORCID utilizes a distributed, incremental trust model which allows reliable and trustworthy data sources to validate information on an ORCID record with the record holder’s permission.
- Read more about this in our recent blog post: https://info.orcid.org/balancing-researcher-control-and-data-integrity/
Users of ORCID data can determine the trustworthiness of each record by looking for Trust Markers

- Trust Markers include:
  - Affiliations added by research institutions
  - Works (e.g. articles) added by publishers and repositories
  - Links to other person IDs

- The provenance of each assertion is indicated in the ORCID UI and API responses

- Read more about this in our latest blog post: [https://info.orcid.org/interpreting-the-trustworthiness-of-an-orcid-record/](https://info.orcid.org/interpreting-the-trustworthiness-of-an-orcid-record/)

ORCID for FORCE 2021 – December 2021
ORCID enables openness, persistence and interoperability throughout the research ecosystem
To Recap
The Community build and benefit from Open Research Infrastructure

- ORCID strives to enable transparent and trustworthy connections between researchers, their contributions, and their affiliations.

- Adopting PIDs to foster such an open research infrastructure will further require commitment from both individuals and organizations.

- ORCID anticipates increased engagement in Asia through additional community adoption, conversation, and collaboration.
Discussion and Feedback
How to find out more

Reach out to us for additional information:

1. **Contact Estelle Cheng** to learn more about how engage with ORCID (if you haven’t) or **how to deepen your integration** ([e.cheng@orcid.org](mailto:e.cheng@orcid.org))

2. **Further information can be found on ORCID’s website:** [https://info.orcid.org/resources/](https://info.orcid.org/resources/)

3. **More detailed information about our workflows:** [https://info.orcid.org/documentation/workflows/](https://info.orcid.org/documentation/workflows/)
Thank you!

Find out more at https://orcid.org
Register at https://orcid.org/register
Email - e.cheng@orcid.org
Skype - j493520@hotmail.com
Twitter @ChihEstelle
More Resources

All about ORCID
https://orcid.org/about

ORCID Membership
https://info.orcid.org/membership/

ORCID for Research Organizations
https://info.orcid.org/orcid-for-research-organizations/

Support Center: Start Connecting with ORCID API
https://info.orcid.org/documentation/integration-guide/

ORCID News and Events
https://info.orcid.org/
Appendix

Additional Information
ORCID’s Values

- Open
- Inclusive
- Trusted

- Collaborative
- Transparent Persistent
- Diverse Global
ORCID is strongly supported by each of its major stakeholder groups

User NPS

Publisher NPS: +100
Funders NPS: +88
Universities NPS: +33

Member NPS

Publisher NPS: +100
Funders NPS: +88
Universities NPS: +33

NPS, or Net Promoter Score is a standard metric used to measure audience loyalty and satisfaction. NPS scores range between -100 and +100. Scores above 0 are considered “good”, those above +20 “favourable” and those above +50 “excellent”

Sources: ORCID Q1 2021 User Value Survey; ORCID Member Value Survey, Feb 2021
ORCID has been working towards financial sustainability and reached operating breakeven in 2019

- ORCID achieved Financial breakeven in 2019
- We expect this trend to continue with steady growth in membership and careful cost management

Excludes grants and miscellaneous income. 2020 figures are draft subject to audit.
ORCID 2022 - 2025 Strategic Plan

**Increasing Value to Members**

We will be more proactive in delivering value to member research institutions, rather than simply enabling and expecting them to integrate with our API.

We will equip our members with more compelling ways to encourage their researchers to use ORCID.

We will work with influential organizations such as Funders and Government Agencies to encourage the use of ORCID.

**Increasing Value to Researchers**

We will reduce the effort that researchers need to invest in completing and updating their ORCID records with activities such as improving workflows and guiding users to the most appropriate services to connect with.

We will incentivize researcher participation in ORCID with initiatives like encouraging member organizations to update and re-use ORCID data save researchers time.

**Increasing Global Participation**

To encourage membership in low and lower-middle income countries, we will move towards a fee structure based on equity, adjusted according to regional affordability, while also supporting the development of local expertise and communities of practice.

We will develop new partnership models with national or regional organizations to spearhead organizational membership growth in their locations.

**Upholding Trust and Integrity**

We will take a more proactive approach to improving data quality.

In order to fulfill expectations of the reliability of our infrastructure, we will improve resiliency through means such as moving our hosting to the cloud and implementing a high-availability architecture.

To ensure ORCID’s long-term sustainability, we will bolster ORCID’s reserves.