



What is ORCID the organization?

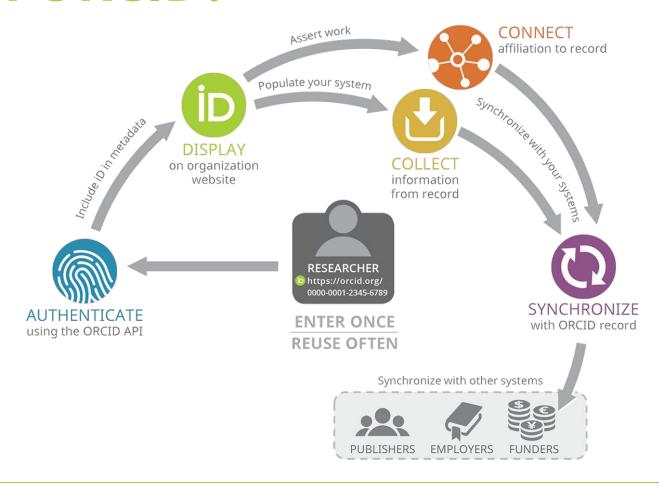


ORCID: The organization

- Open, not-for-profit organization
- Run by and for the research community
- Provides researchers with a unique identifier -ORCID iD - that reliably and clearly connects them with their research contributions and affiliations
 - https://orcid.org/0000-0002-1825-0097
- 500+ systems have integrated ORCID iDs Grant application and manuscript submission systems, CRIS', repositories and more



How do researchers interact with ORCID?





About ORCID - the technology



ORCID's tech stack

- Typical J2EE (Java webapp)
- Open source
- Public API (Free to anyone)
 Read public information from researcher records
- Member API (Member organizations only)
 Write to/read from researcher records, including non-public information
- Access to record controlled by researcher via OAuth2
- No short term blockchain plans



OK...ORCID is a centralized service based on standard software stacks

So why are we still excited for blockchain?

Hint: see our vision statement!



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 many people think ORCID is





But ORCID is an identifier first... And only *part* of a researcher's identity





ORCID alone can't cover all the identity needs of researchers

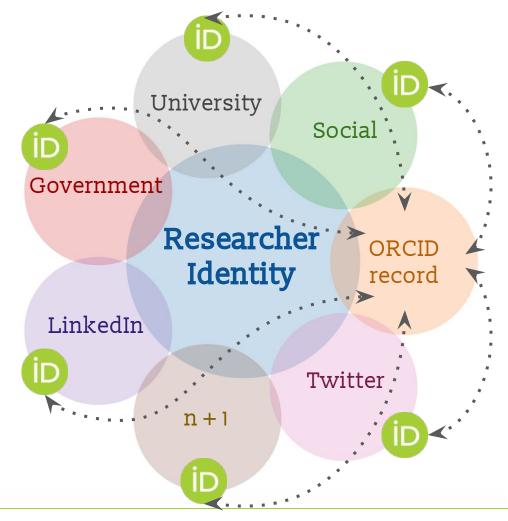
- National identity
- Local university identity
- Local research facility identity
- Social identity needs
 - ... and more needs constantly emerging



Instead, we offer a researcher identifier and a record that can connect researchers to their many identities and activities.



Ideally, we want to see ubiquitous use of the ORCID identifier



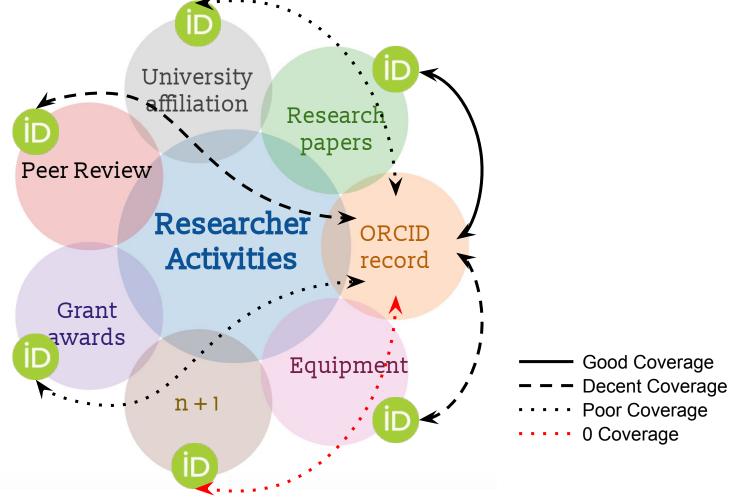


Great!

Now that we understand the ORCID identifier, let's talk about how ORCID connects with other identifiers

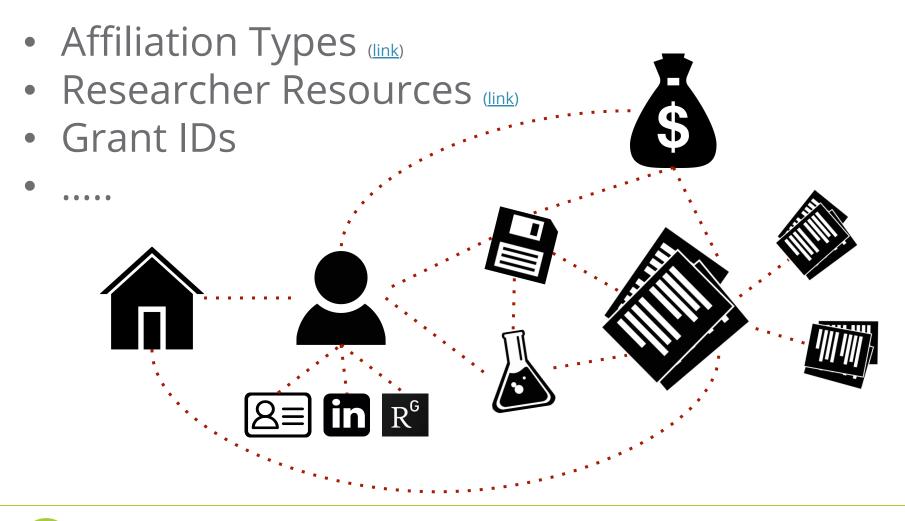


We also need the identifier to connect to research activities





We need *useful* PIDs to help connect researchers to their identities and activities





But wait, what's a PID?

Resolvable, actionable, durable identifiers that can be used to locate and describe 'things'.

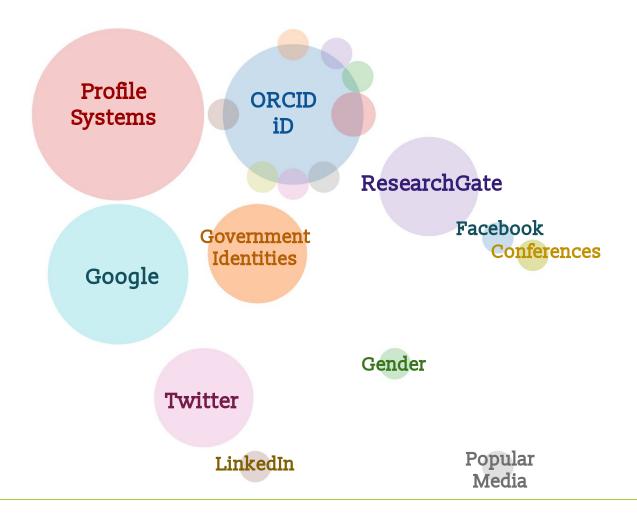
Persistent identifier

Unique string of letters/numbers/symbols assigned to a thing

Always points to the thing (or some representation)



But wait, there's more! Lots of other possible connection points





Clearly we can't go it alone - connecting researchers to their activities is a community effort!



...which brings us back to blockchain.

Lots of possibilities for managing researcher identity and attribution of activities!



Why ORCID + blockchain?

Immutable and distributed

- Verifiable claims built on Decentralized / self-sovereign Identifiers (DIDs)
- Track researcher activities with decentralized systems
- Collaboration on new PIDs and PID infrastructure



So what is ORCID asking blockchain projects to consider?



- 1. Add authenticated ORCID iDs to your data/metadata where appropriate
- 2. **Add PIDs** or PID-like resolution to researcher activities pushed to blockchains
- 3. **Push a reference to your PIDs** to the ORCID record

As blockchain creates innovation in the researcher community, incorporate that innovation into ORCID



Thanks!

Robert Peters <u>r.peters@orcid.org</u>

https://orcid.org/0000-0002-0036-9460

