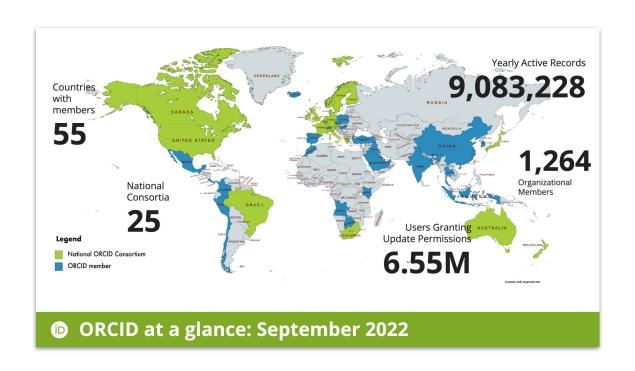


# We don't need copies of metadata everywhere if we have PIDs and links

CHORUS Forum: Improving Scholarly Publishing Metadata 29 September 2022

#### A Few ORCID Facts

- Independent not-for-profit open to participation by all
- Registry launched in 2012
- Guided by our <u>values and</u> <u>founding principles</u>
- Committed to making FAIR
   Open data available via our
   Public API and Annual
   Public Data File





### ORCID is a people-centric PID Infrastructure provider — we offer three main services



1. The ORCID iD: a unique, persistent identifier (PID) that uniquely identifies a researcher, free of charge to them



2. An ORCID record/digital cv connected to the ORCID iD, that can include employment, education and research output relationships



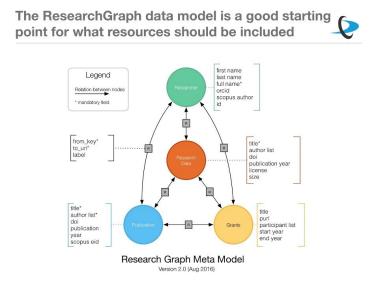
3. A set of Application Programming Interfaces (APIs), as well as the services and support of communities of practice that enable interoperability between an ORCID record and member organizations



### Each PID Infrastructure provider has their own version of this slide (with their own focus at the centre!)



**Crossref Research Nexus** 



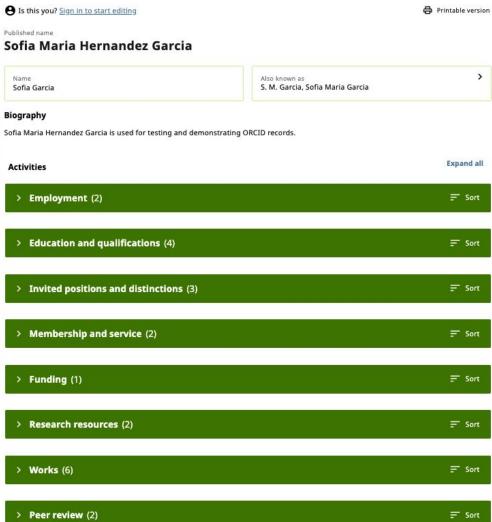
**Datacite PID Graph** 

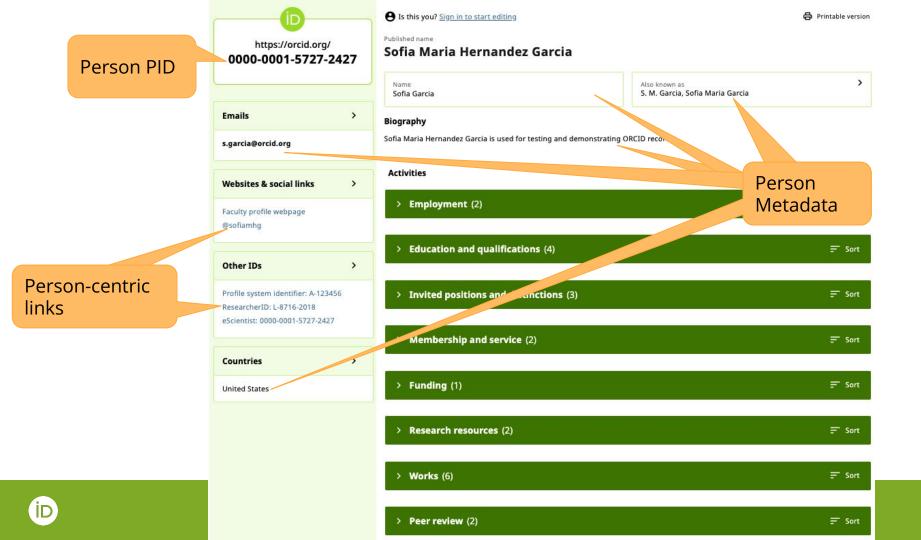


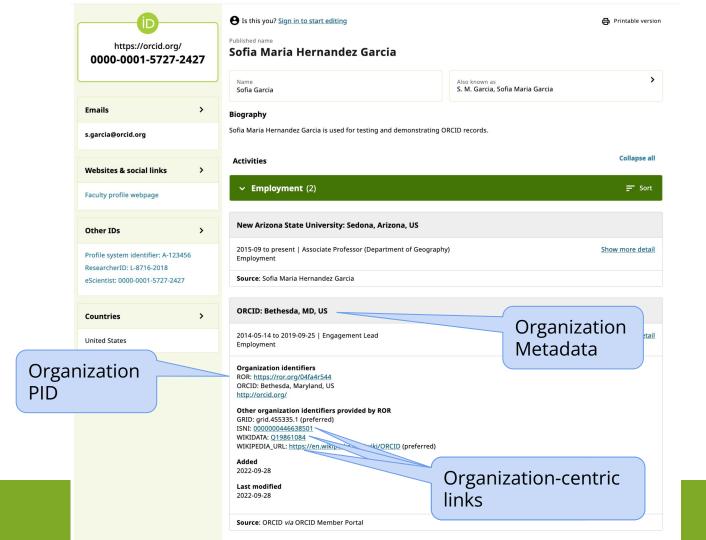












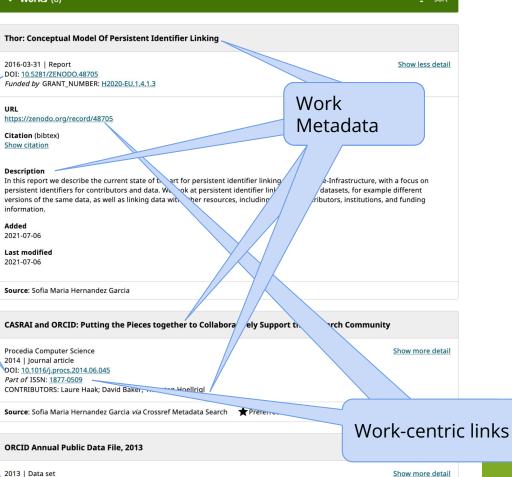
#### ∨ Works (6)

DOI: 10.14454/07243.2013.001

Source: DataCite

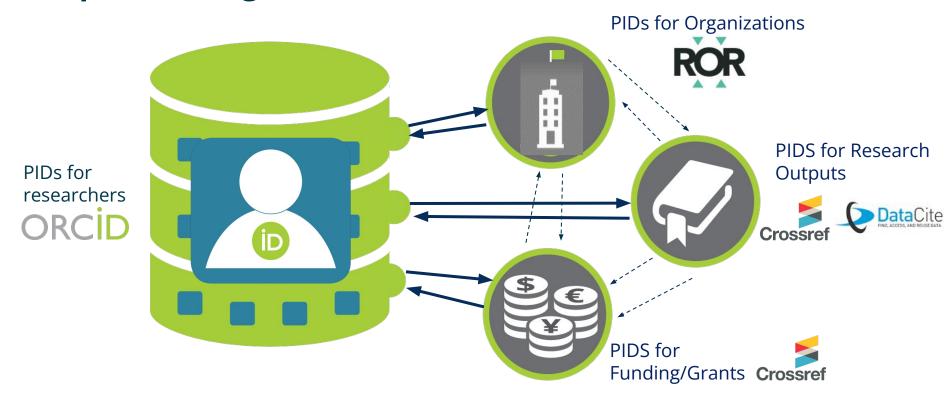
**=** Sort

#### Work **PIDs**





### We associate researchers with institutions and research outputs through via links to other PIDS





## Each PID providers stores metadata about their primary object AND metadata about linked objects

	ORCID	Crossref	DataCite FIND, ACCESS, AND BEIJSE DATA	ROR
Primary Object	People	Works (Publications)	Works (Datasets)	Organizations
PID	ORCID ID	DOI	DOI	ROR ID
Primary Metadata (about the object)	Name, Alternate Names, Email	Title, Source, Publishers, Abstract, Pub Date, References	Title, Publisher, Pub Year, Resource Type	Name, Aliases, Address, Website
Secondary Metadata (about linked objects)	Publication Citations, Affiliation Names, Funding Award Titles	Author Names, Affiliation Names	Contributor Names, Affiliations Names	

PID Providers should should focus on holding definitive, authoritative metadata for their primary objects

Metadata about secondary (linked) objects can be cached for convenience, but should be regenerated from authoritative sources from time to time using PID links and APIs



### We can improve metadata quality by:

- Ensuring that PIDS are assigned to research objects and that the metadata deposited with the primary PID provider for the object is complete and accurate:
  - Definitive researcher names, email addresses at ORCID
  - Definitive titles, source titles, pub dates at Crossref and Datacite
  - Definitive org names at ROR
- Ensuring that links between PIDs are accurate and consistent
- Being thoughtful about where to store authoritative metadata about an object, and when to cache rather than duplicate copies of that metadata using PIDs and their respective APIs (In database terms thinking about metadata binding and denormalization)

PID Infrastructure providers are starting to work together to make it easier to access consistent metadata across our services no matter your preferred point of access

