



PiD providers keynote

Delivering value to the research sector

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11–13 June, Prague, Czechia



Chris Shillum
ORCID



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ORCID provides PID services for people



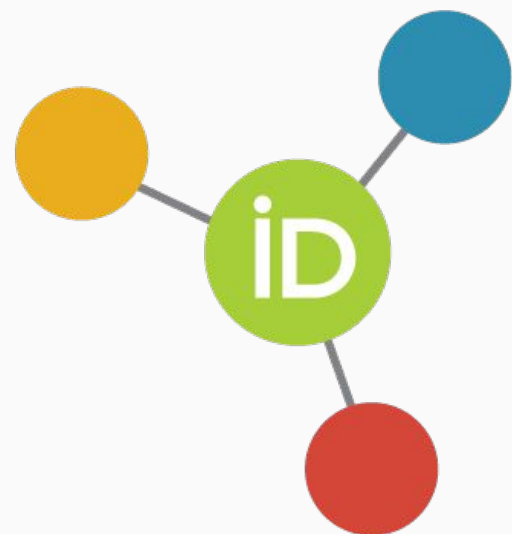
The ORCID iD

A unique, persistent identifier free of charge to researchers (e.g. <https://orcid.org/0000-0002-1108-3660>)



An ORCID record

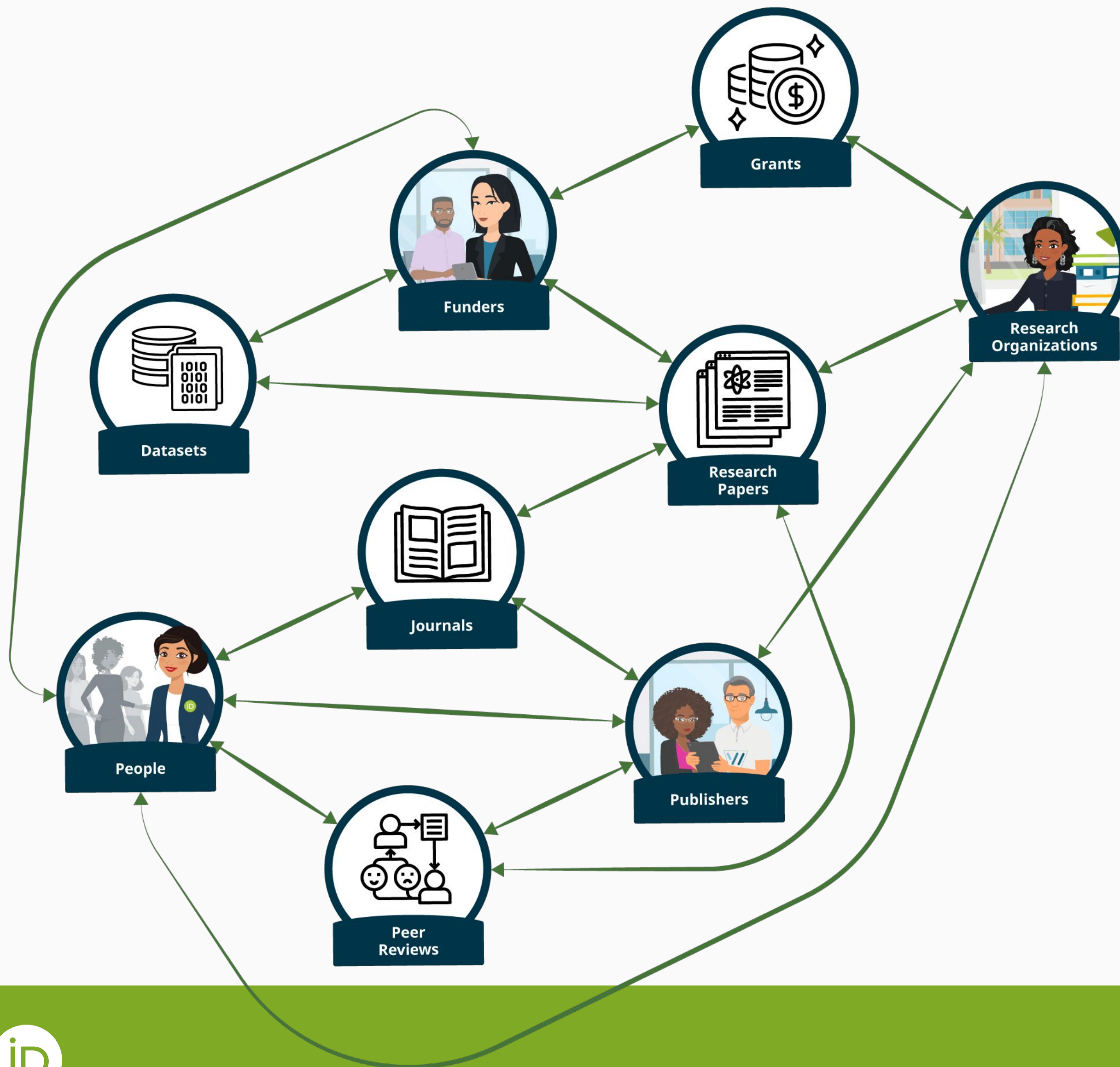
A digital CV/profile connected to the ORCID iD, that can include employment, education, funding, peer review, research output and other metadata



The ORCID APIs

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

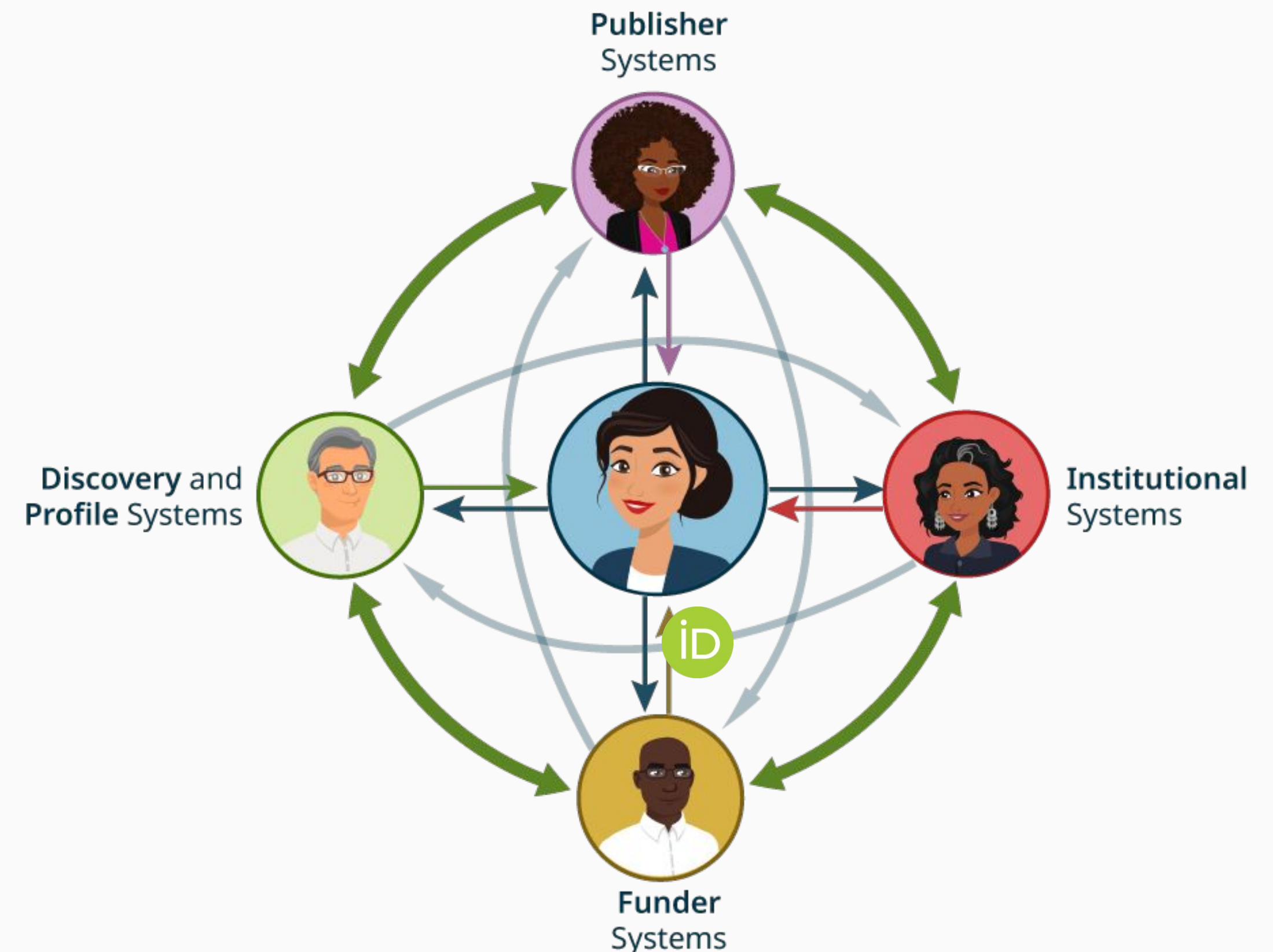
The goal — an integrated research data ecosystem, enabling:



- Better **understanding** of research outcomes
- Accurate **attribution** and enhanced **discoverability** of research outputs
- Improved **trustworthiness** and **research integrity**
- **Reduced administrative burden** for both researchers and those involved in administration
- Alignment with **FAIR Data Principles** and **Open Research practices**

By contributing authoritative data, organizations can increase value and trustworthiness for all

- **Validated affiliations** added by **universities**, **awards** by **funders** and **publications** by **publishers** allow researchers to demonstrate their track records with trusted data
- **Better populated ORCID records** increase **data reuse** and **reduce admin burden** for researchers
- **Researchers** always **remain in control** of the data included in their records
- **Our goal is to create the conditions to allow this to happen**



5,693

systems are already
integrated with ORCID



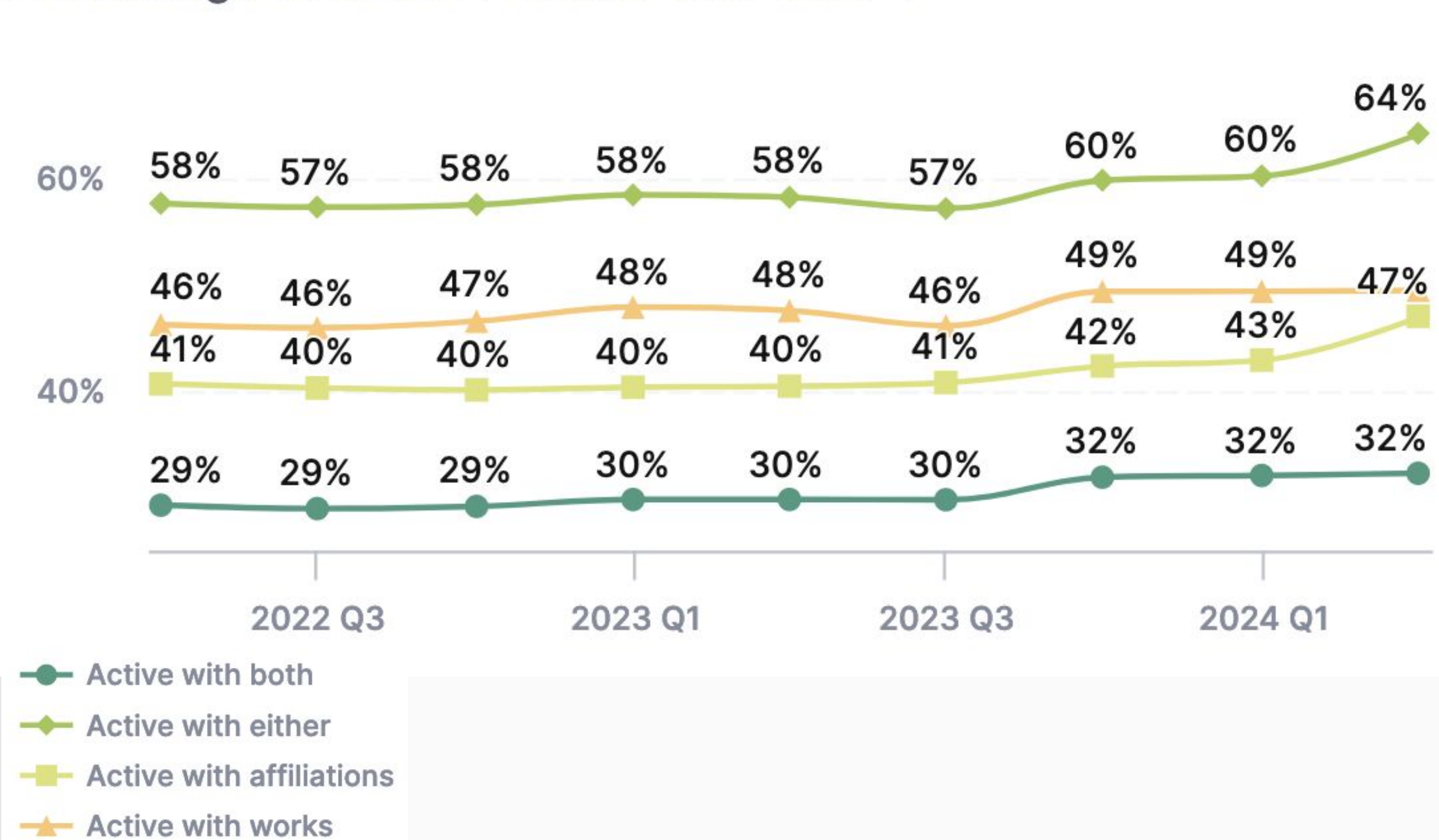
<https://youtu.be/1Z7eR7Hnds0?si=ggxYHgTTPAHUEQ5e>



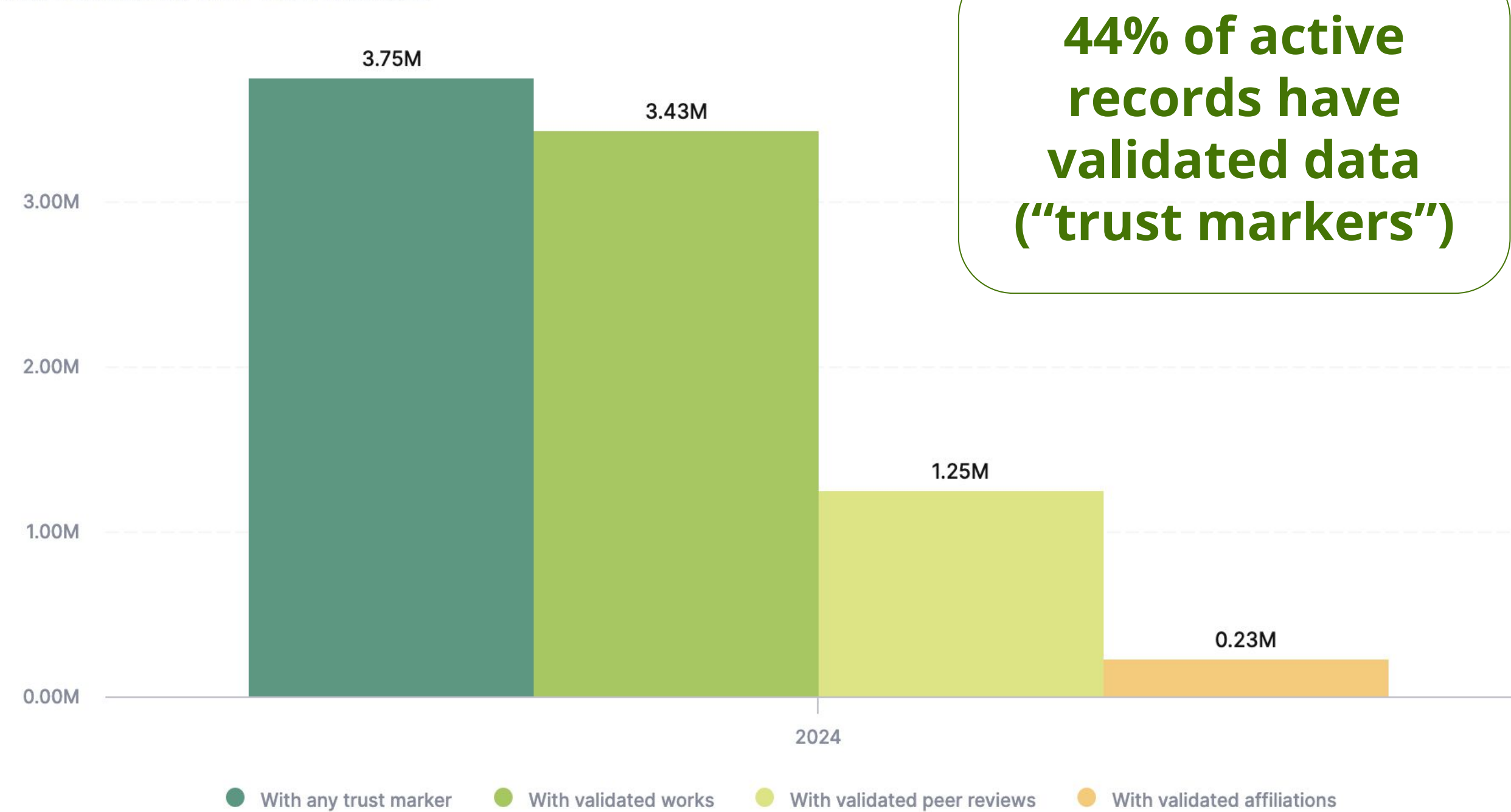
ORCID has more, more trustworthy data than you think...

Yearly Active Researchers
8.4 Million

Percentage of active records with data



Active records with trust markers



Data collected on 20 May 2024

More data available at <https://info.orcid.org/orcid-statistics/>



It will take continued action from the whole community to achieve our vision of a connected data ecosystem

Organizations

Contribute the authoritative data you hold about researchers/outputs/funding

Re-use data to generate insights and improve data integrity

Contribute and re-use

Researchers

Use PIDs wherever possible in tools and workflows

Demand that the systems you use support PIDs to save you time and effort!

Participate

PID Providers

Build community and global participation

Work together to make everything easier!

Enable the connections

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Maria Gould
ROR



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 <https://ror.org/028txef36>

National Library of Technology

ORGANIZATION TYPES

Archive

OTHER NAMES

Aliases

Czech National Library of Technology (en)

Acronyms

NTK

Labels

Národní Technická Knihovna (cs)

LOCATIONS

Prague (GeoNames ID [3067696](#)), Czechia

WEBSITE

<https://www.techlib.cz>

OTHER IDENTIFIERS

GRID [grid.447895.3](#)

ISNI [0000 0001 2151 2775](#)

Wikidata [Q630893](#)

Some record data is not displayed in this view. [See JSON view for full record data](#)

Record last modified 2024-05-13. Is there an issue with the data on this record? [Suggest a change](#)

The ability to search and track research outputs and activities should be freely and openly available for everyone.



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Jonathan Clark
DOI Foundation



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A not-for-profit organisation

Runs the Digital Object Identifier (DOI) System

On behalf of the agencies who manage DOI registries and provide services to their respective communities

Registration authority for the ISO standard (ISO 26324)

We are governed by our Registration Agencies





Runs Handle System



Runs DOI System



Provides DOI services
(& more)



Registers DOIs
(& much more)



Does research



DOI Resolutions per month

April 2000: 60,000

April 2024: 1,700,000,000

Registered DOIs

April 2000: 3 million

April 2024: 352 million

Technical people

April 2000: 4 (FTE ~ 2)

April 2024: 4 (FTE ~ 2)

Managing people

April 2000: 1 (FTE ~ 1)

April 2024: 3 (FTE ~ 1)

Operating Costs

2014: USD 924k

2024: USD 989k

**How do we do this?**

Architecture: scalable, distributed, restricted functionality

Externalities: Network service advances, e.g., AWS, Cloudflare

Experience: Kaizen / continuous improvement



Thank you!
j.clark@doi.org

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Helena Cousijn
DataCite



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About DataCite



We are a global community that shares a common interest: to ensure that research outputs and resources are openly available and connected so that their reuse can advance knowledge across and between disciplines, now and in the future.

As a global non-profit membership organization, we work with 3100+ repositories in the world to provide DOIs for research outputs and resources.

Our community



1406

Organizations



3100

Repositories



55

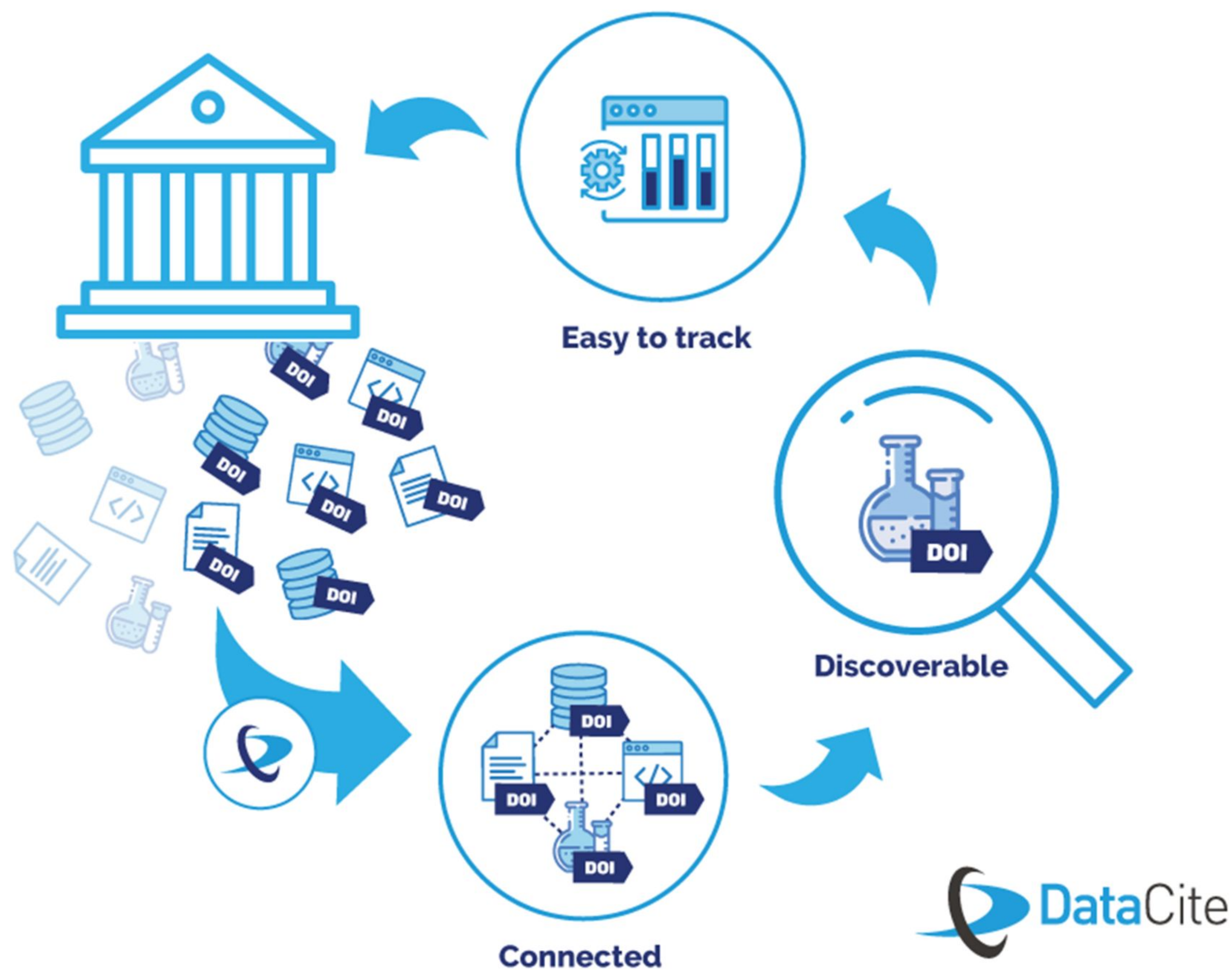
Countries



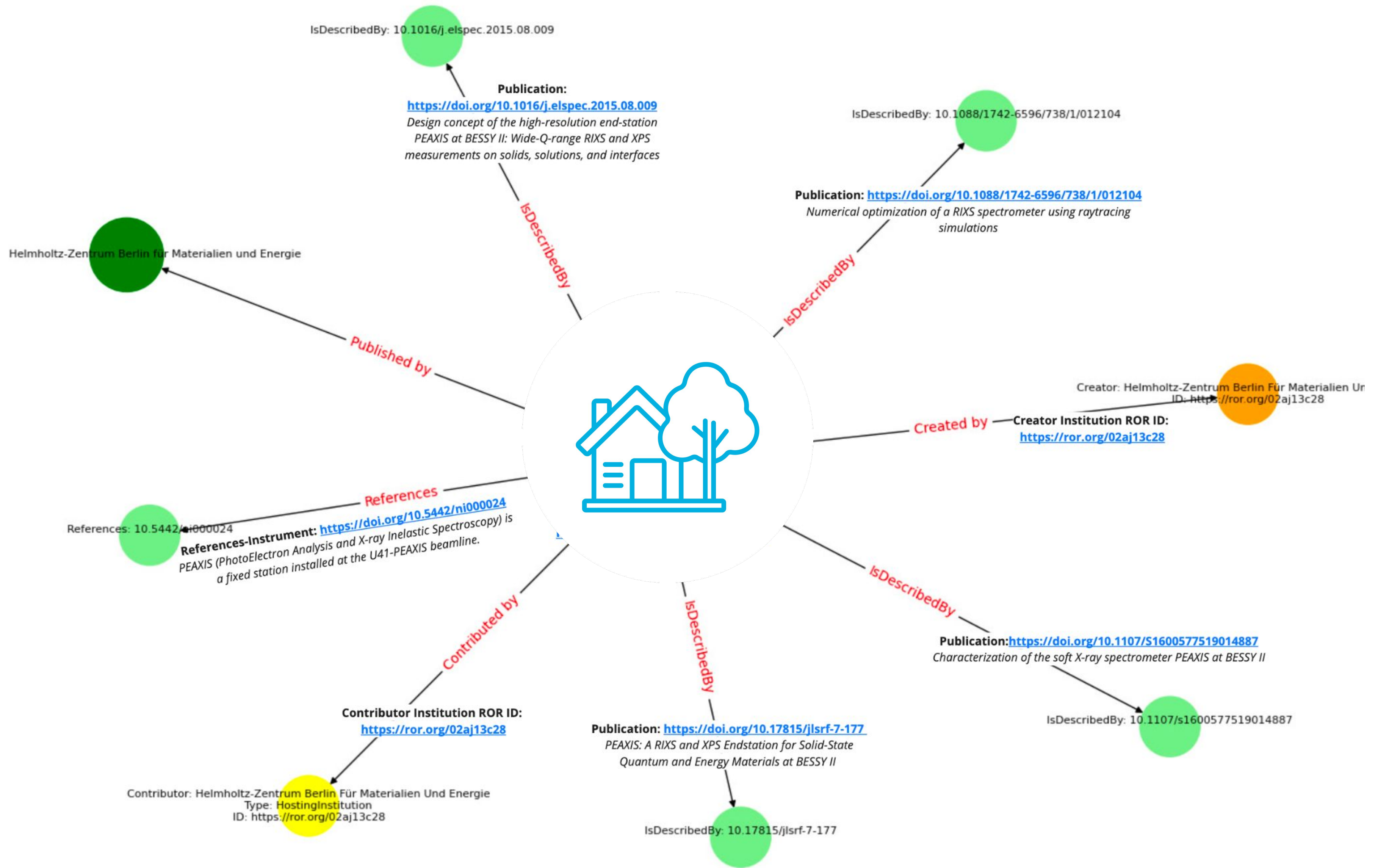
61m+

DOIs

What we do & why



How? By being the home for all your metadata



Where this team of cooks prepares the recipes



openly available, and shared with the whole community

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Shawn Ross
RAiD



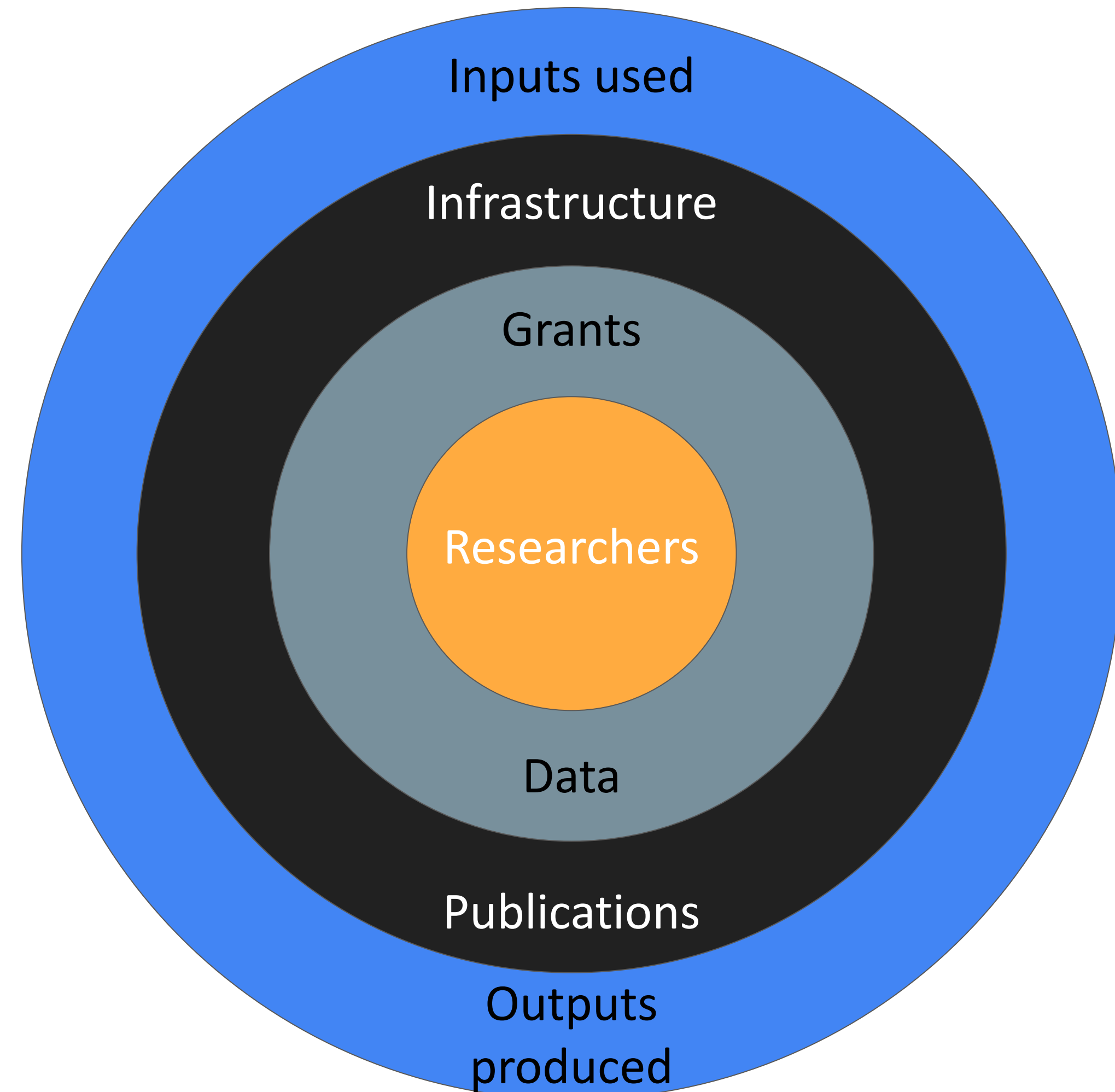
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RAiD purpose and audience

Purpose: RAiD provides a container for other PIDs, describing the components of a project plus other key information as they evolve, allowing the mapping of resources to outcomes, exposing how research works.

Audience: researchers, research support staff, research organisations, funders, infrastructure providers, other PIDs, broader research community.



RAiD facts

- Potentially large volume: **~1.5M projects** active **each year** in the OECD
- Significant efficiency gain: Across those projects, could save **207k person-days / year** - or 2.7M when combined with other PIDs
- **Fourth-most-mentioned PID** in National PID Strategies
- Built with (DataCite) **DOI infrastructure** with an **independent metadata schema** and a **dedicated system** run by RAiD Registration Agencies
- **Ready for use now**
- Top accomplishment in past year: **All major components deployed**
- Top goal for the next year: **Drive uptake** (onboard RAs and users)

RAiD team

RAiD is an ISO Standard with the Australian Research Data Commons (ARDC) as the RAiD Registration Authority globally:

- Shawn Ross, Rald Product Manager
- Natasha Simons, Director National Coordination
- Rob Lenny, Developer
- Steffen Weidenhaus, Developer
- Matthias Liffers, PID Services Product Manager
- Siobhann McCafferty, Project Coordinator
- And others at the ARDC who have contributed time and expertise

With significant contributions from members of the **RAiD Advisory Group**, **RAiD RA Leaders' Forum**, and **SURF**

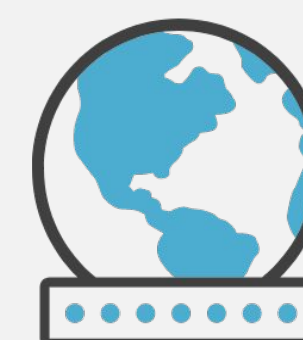
ARDC Identifier Services



Digital Object
Identifier Service



Handle
Service



International Generic
Sample Number



Research Activity
Identifier