



Australian National Graph: Levering PIDs to animate the national level network of research collaborations

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Australian Access Federation

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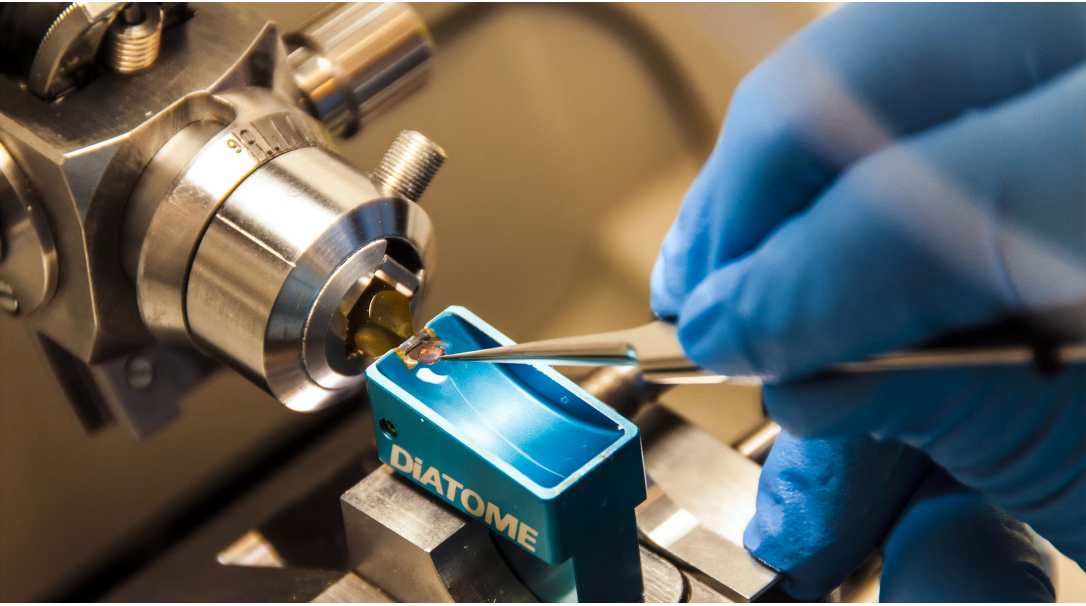
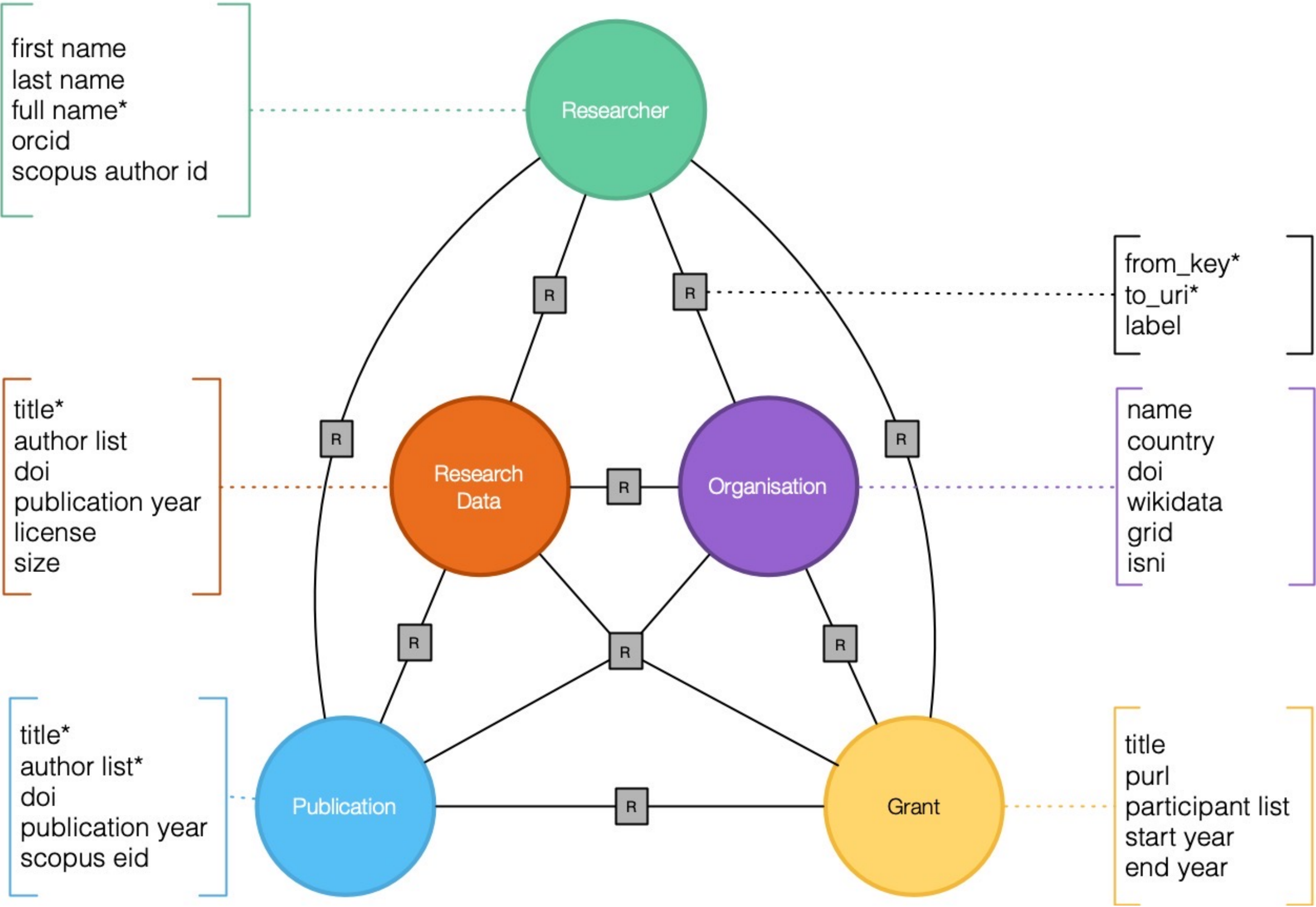


Co-funded by
the European Union



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What is Research Graph?





Persistent Identifier (PID)

- Open Researcher and Contributor Identifier (ORCID iD)



- Digital Object Identifier (DOI)



- PubMed ID 

- International Standard Name Identifier (ISNI) 

- ROR 

- Funder ID 

- WikiData ID 

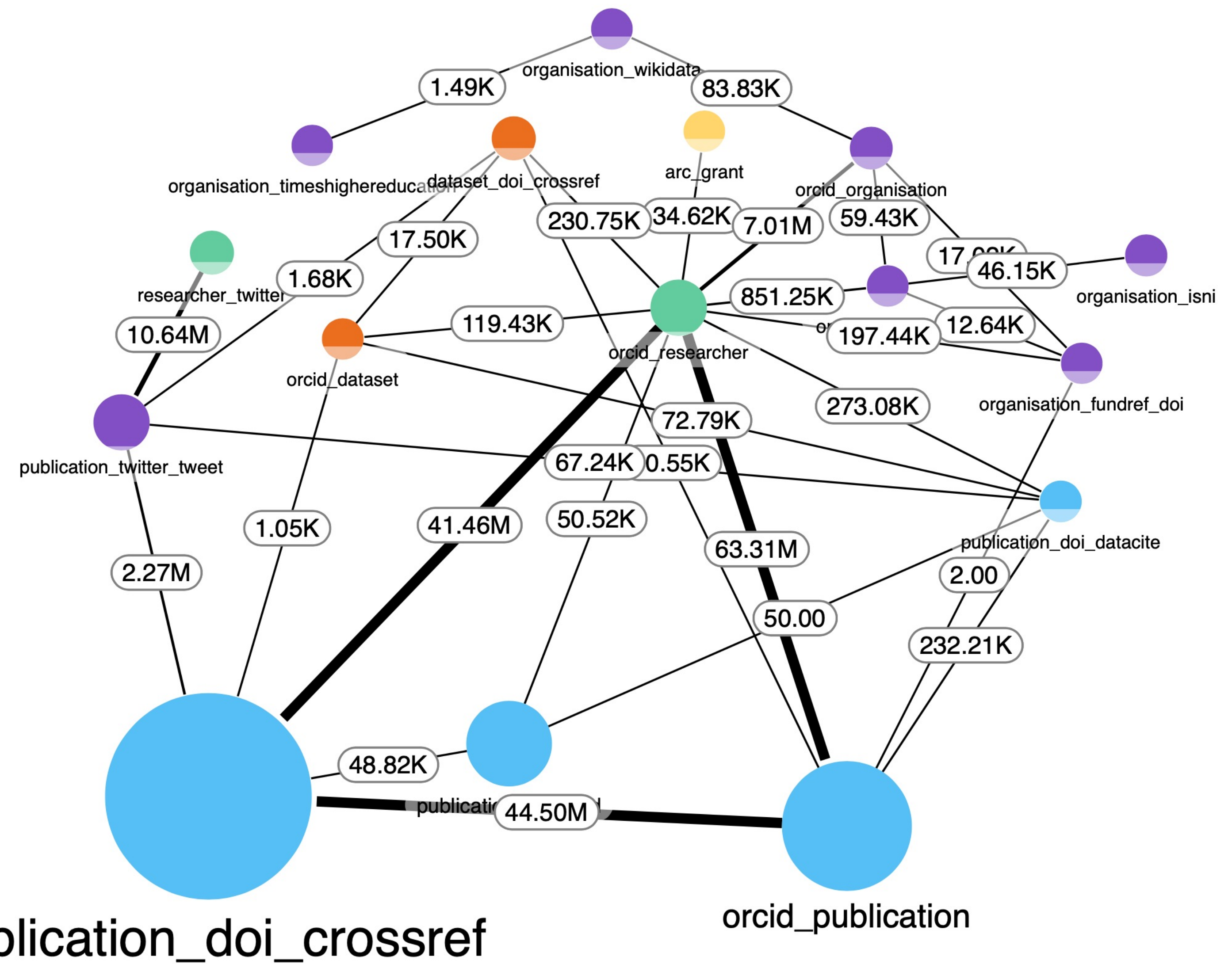
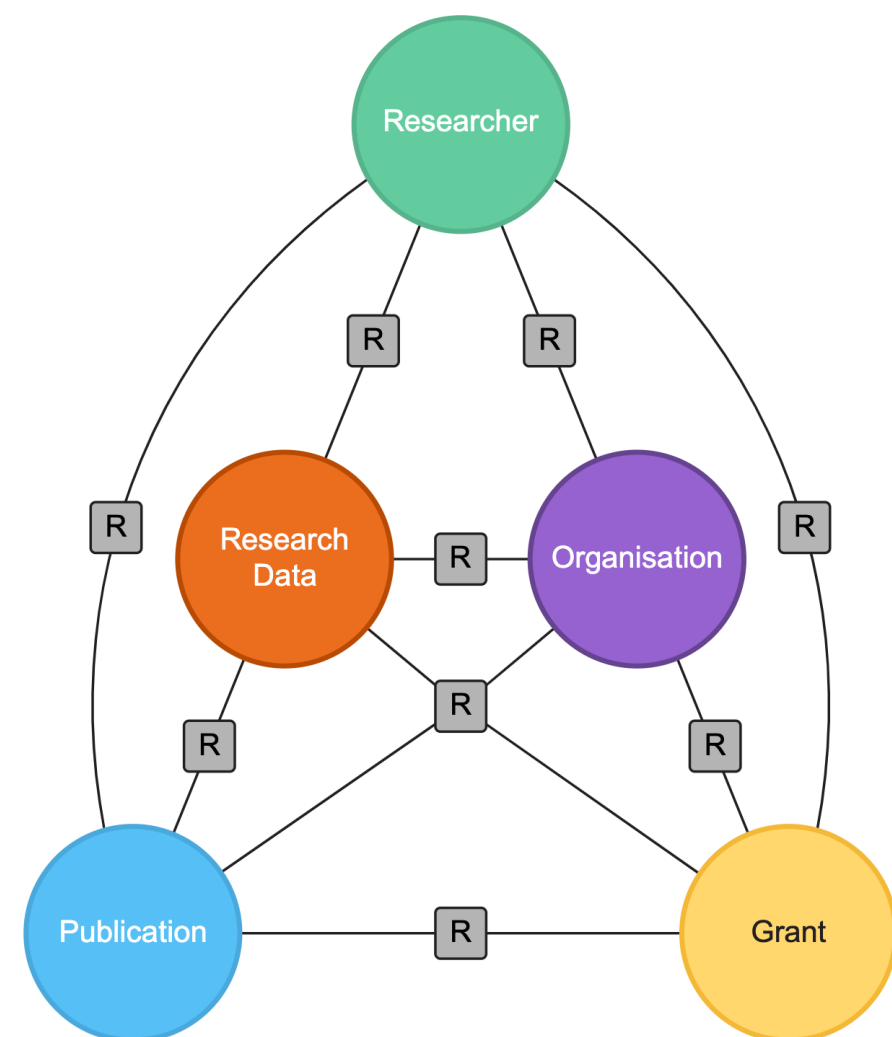


PID Graph

Nodes: **435** million

Relations: 893 million

Last updated: May 2024





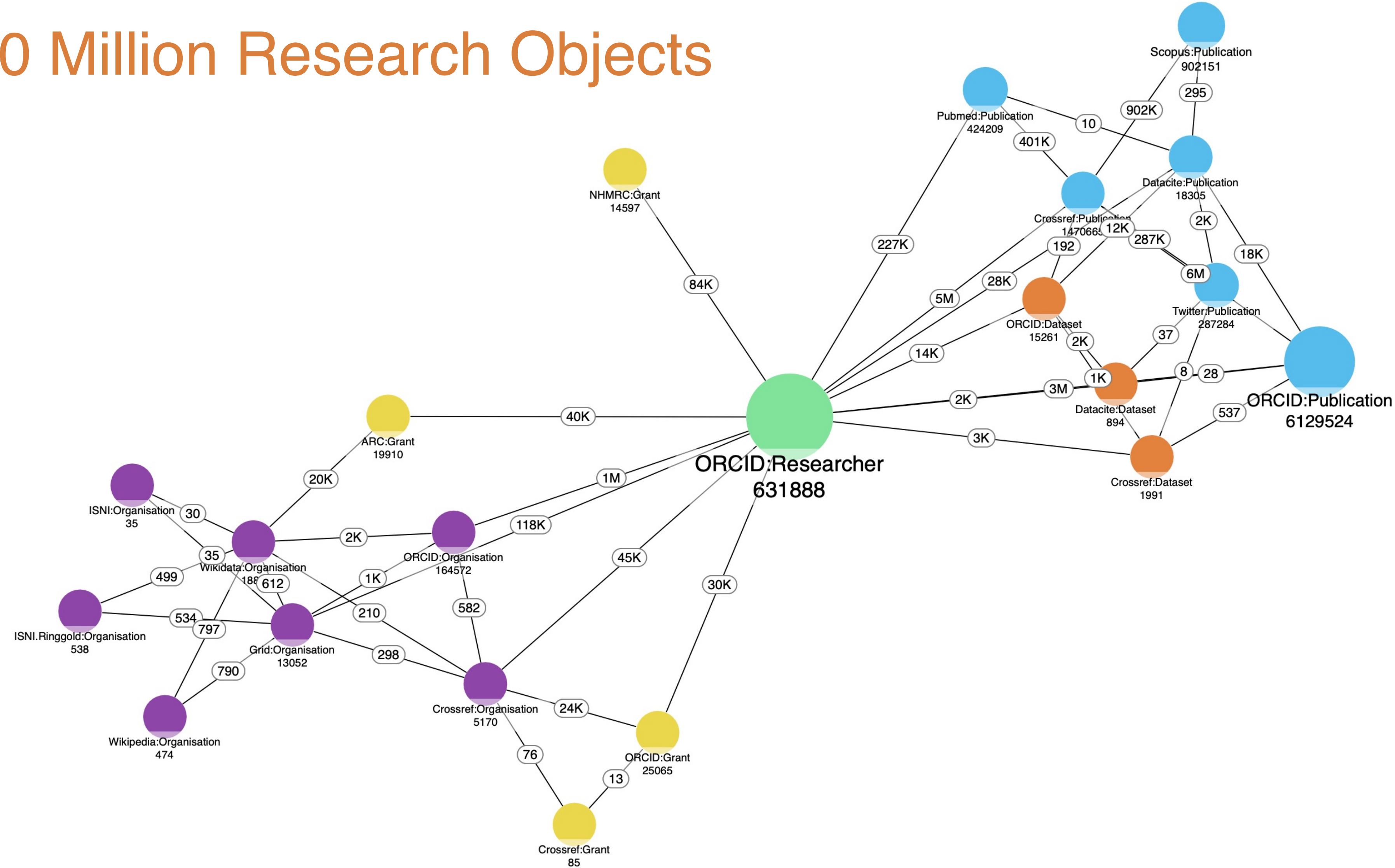


Why Australian PID Graph?

- Gaining insights into Australian research impact
- Tracing digital foot print of research
- Discovery of research and industry collaboration opportunities
- Enabling researchers to explore their collaboration network



10 Million Research Objects



Australian Nodes

117,845
Australian
Researchers

26,937
Datasets

10,027,055
Publications

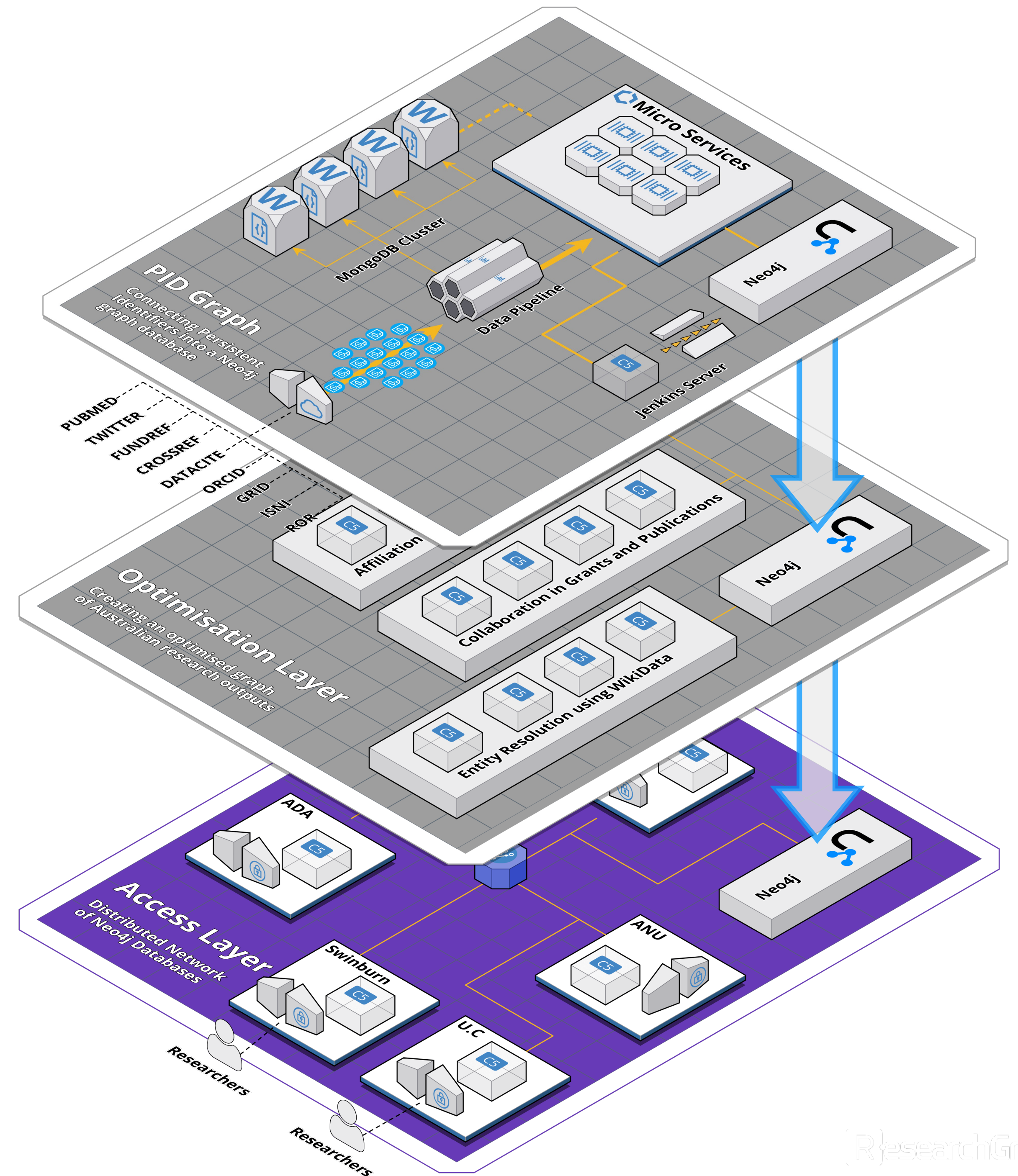
61,391
Grants

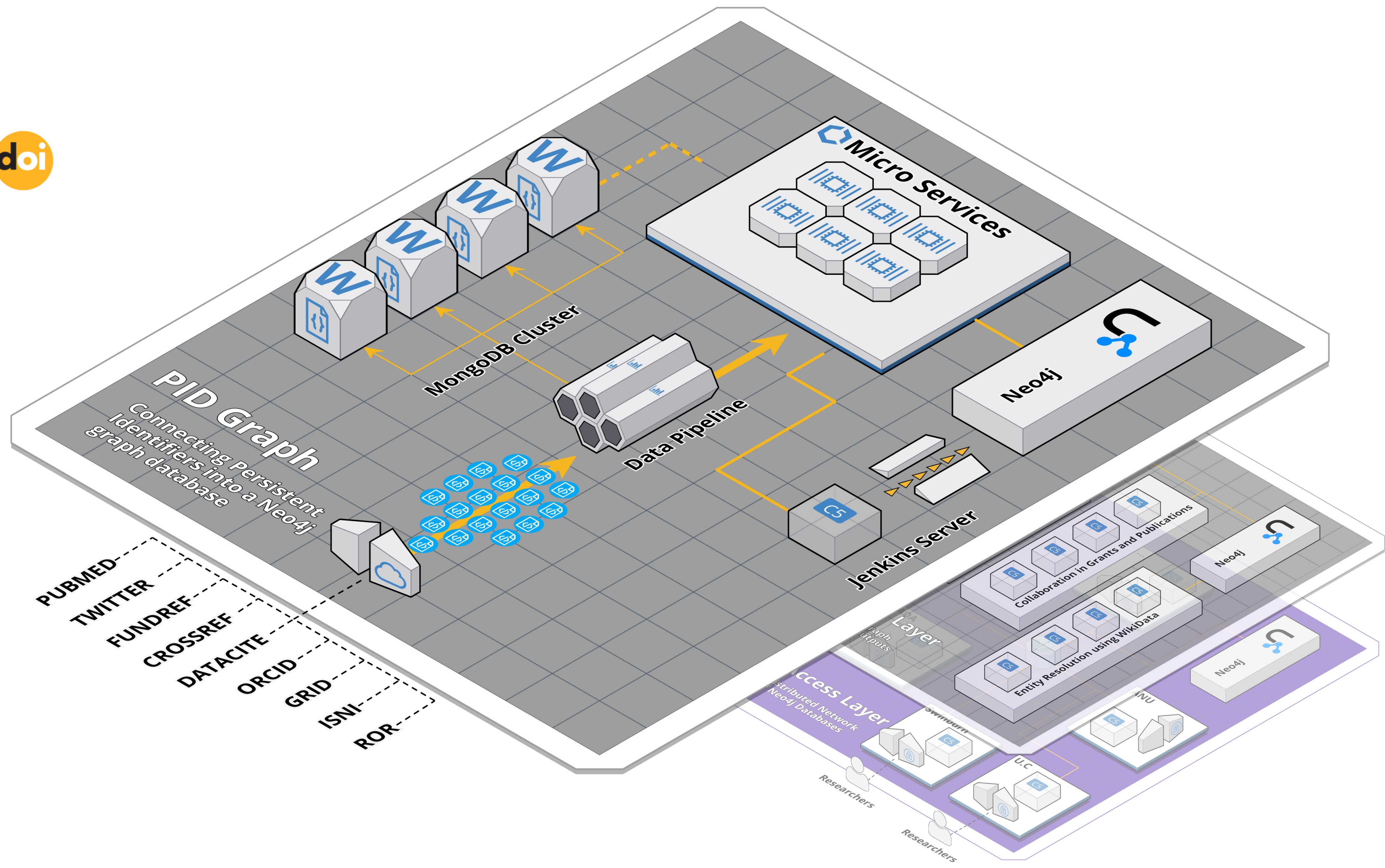
Version 1.1.0
Last update: 25 April 2023



Multilayer Data Infrastructure

Simplifying the infrastructure using separation of concerns.







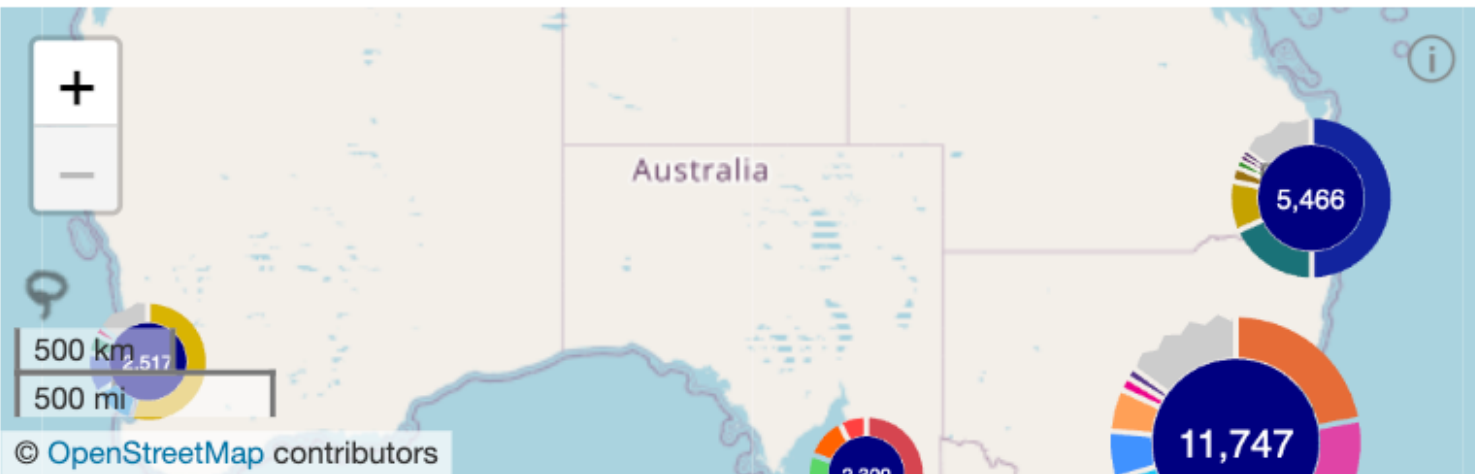
Missing ORCID links to Grants (Australian Research Council)

43% of Investigators have missing links to ORCID



From 2001 to 2023, there are 20,352 ARC grants linked to 8,679 ORCID records.

Number of CIs with ORCID per Admin Organisation



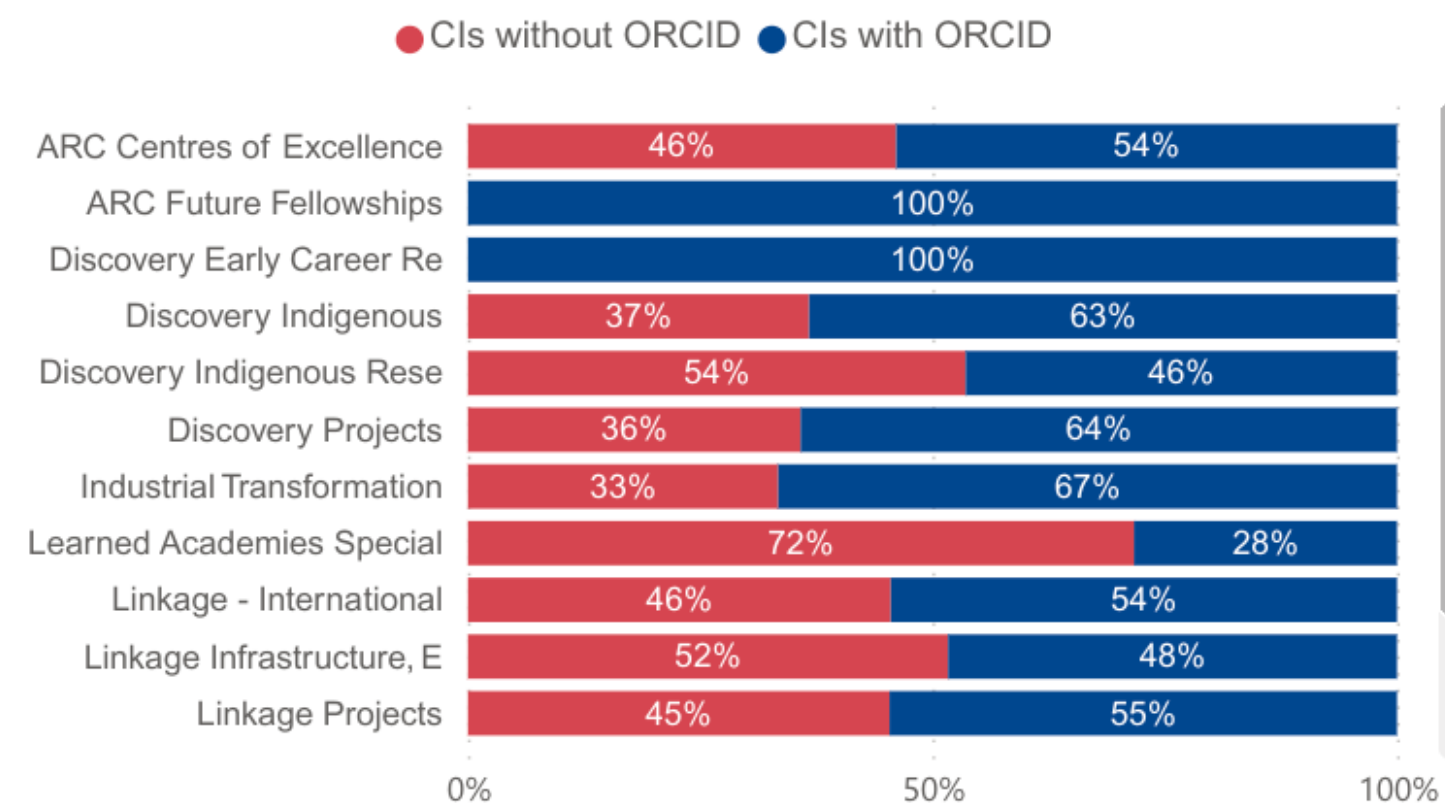
20,352
Grants

54,932
CIs

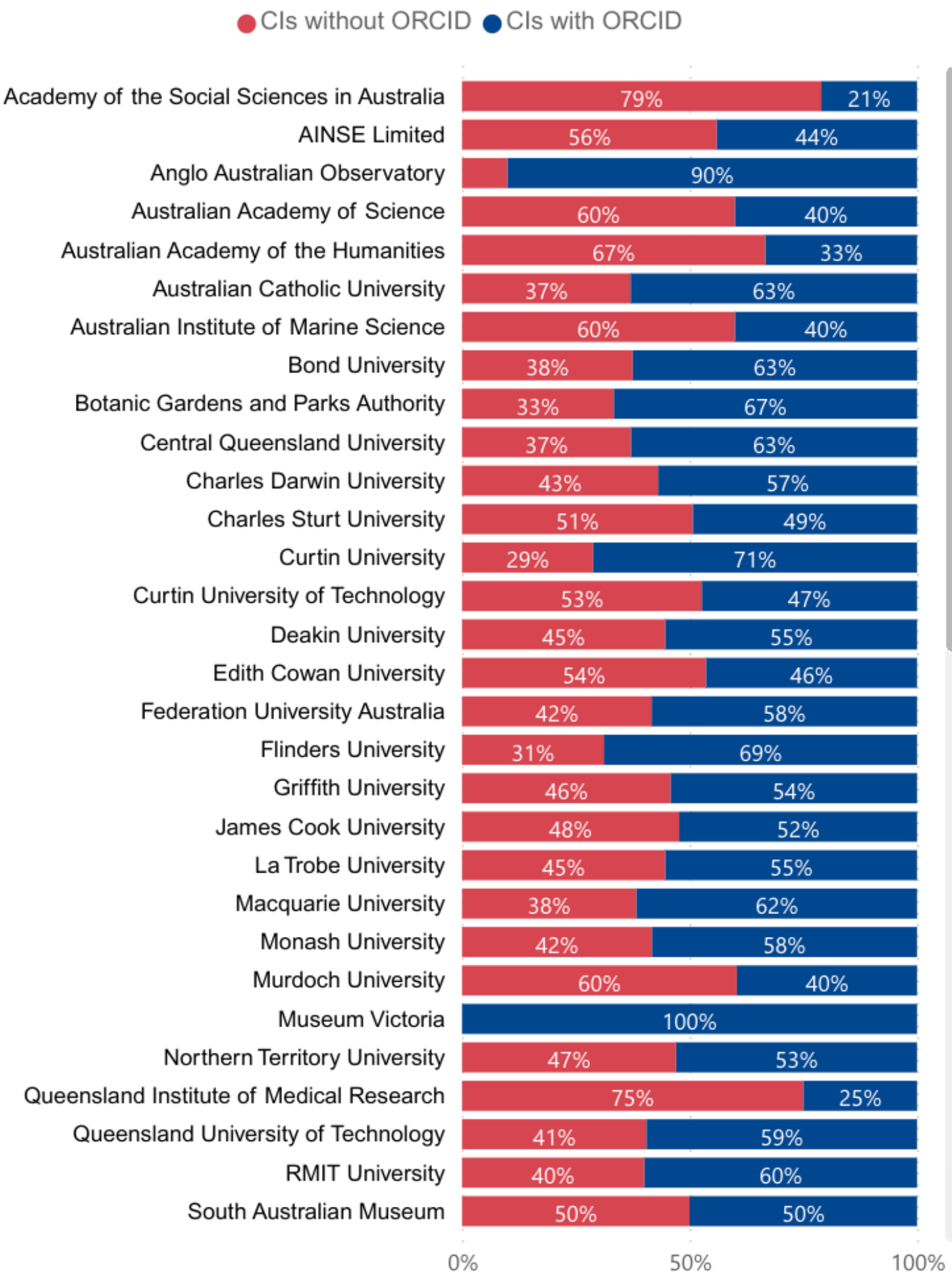
23,459
CIs without ORCID

31,473
CIs with ORCID

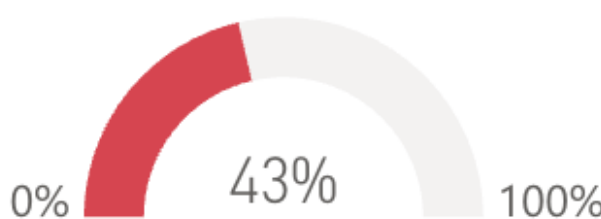
CIs with/without ORCID by Scheme



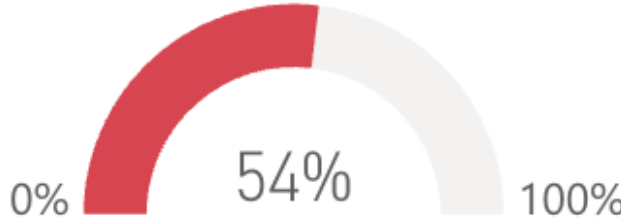
CIs with/without ORCID by Admin Organisation



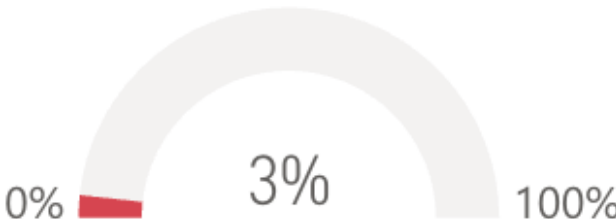
CI without ORCID (%)



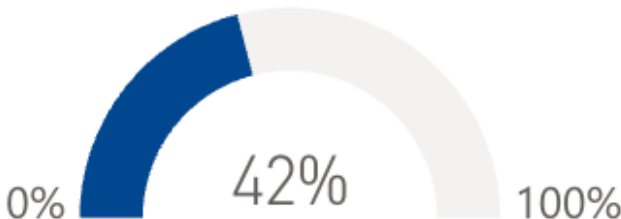
Grants with at least one CI without ORCID



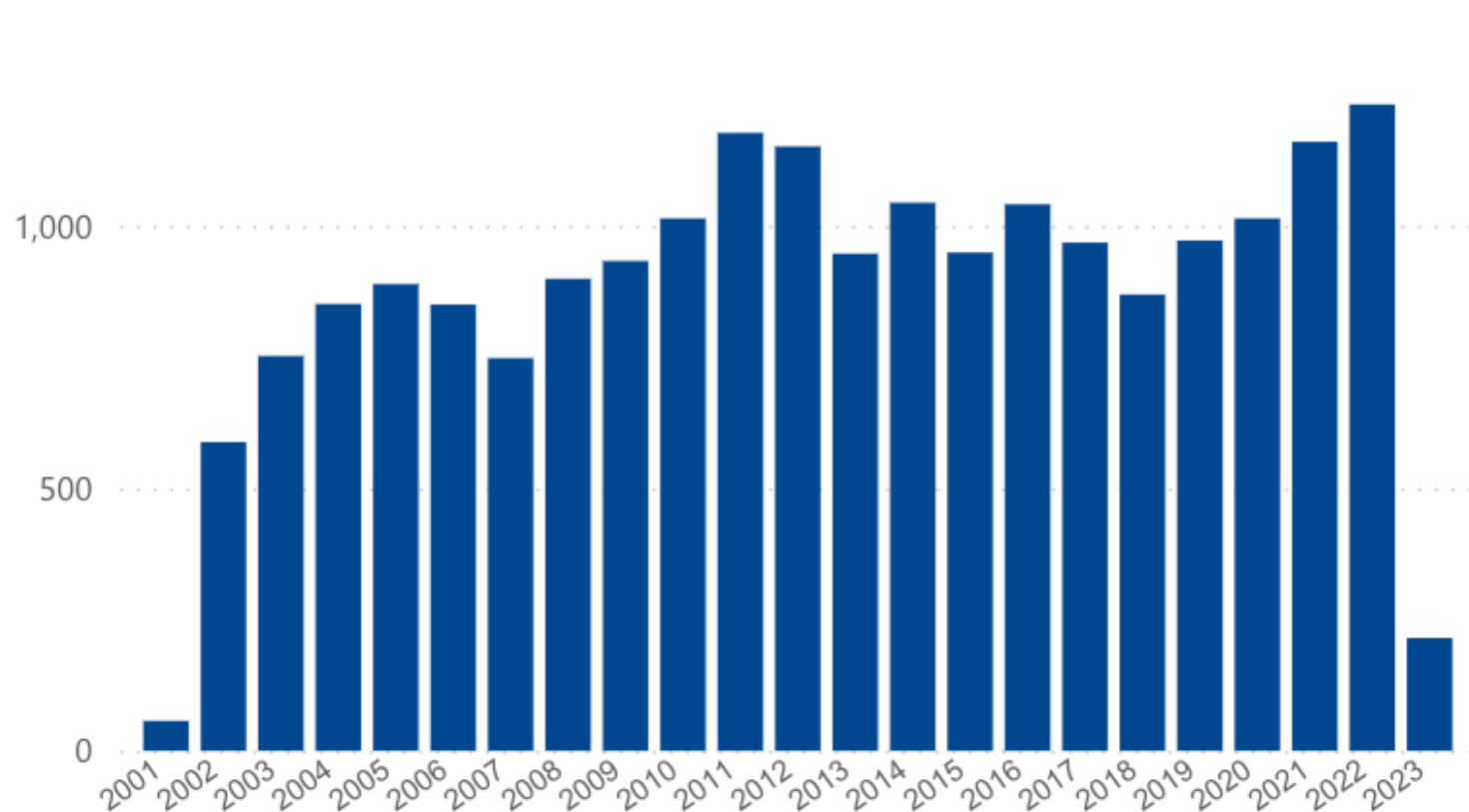
Grants that all CIs are missing ORCID links



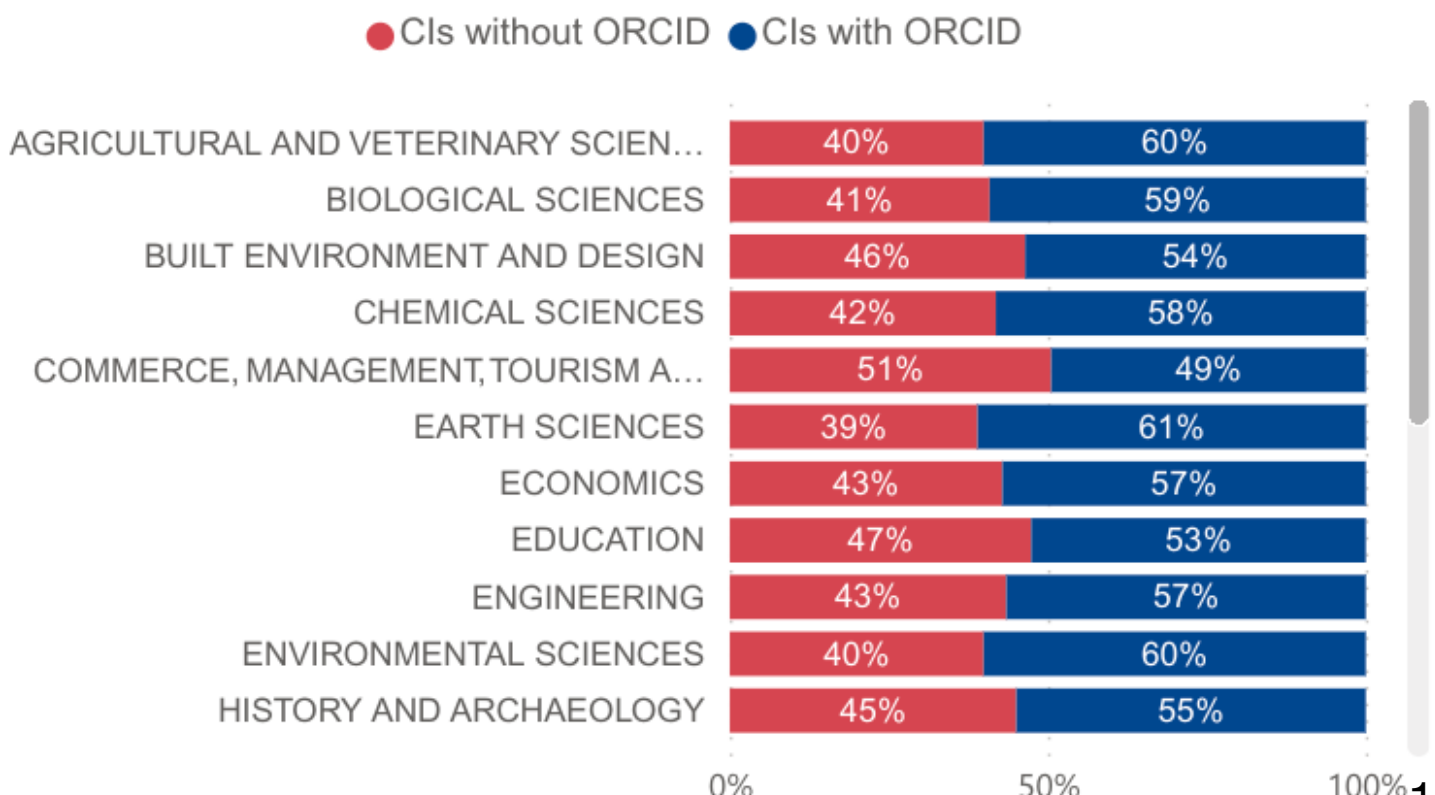
Grants with more than half CIs with ORCID



Number of grants by start year



CIs with/without ORCID by Primary FoR



43% of Investigators have missing links to ORCID



From 2001 to 2023, there are 20,352 ARC grants linked to 8,679 ORCID records.

Number of CIs with ORCID per Admin Organisation



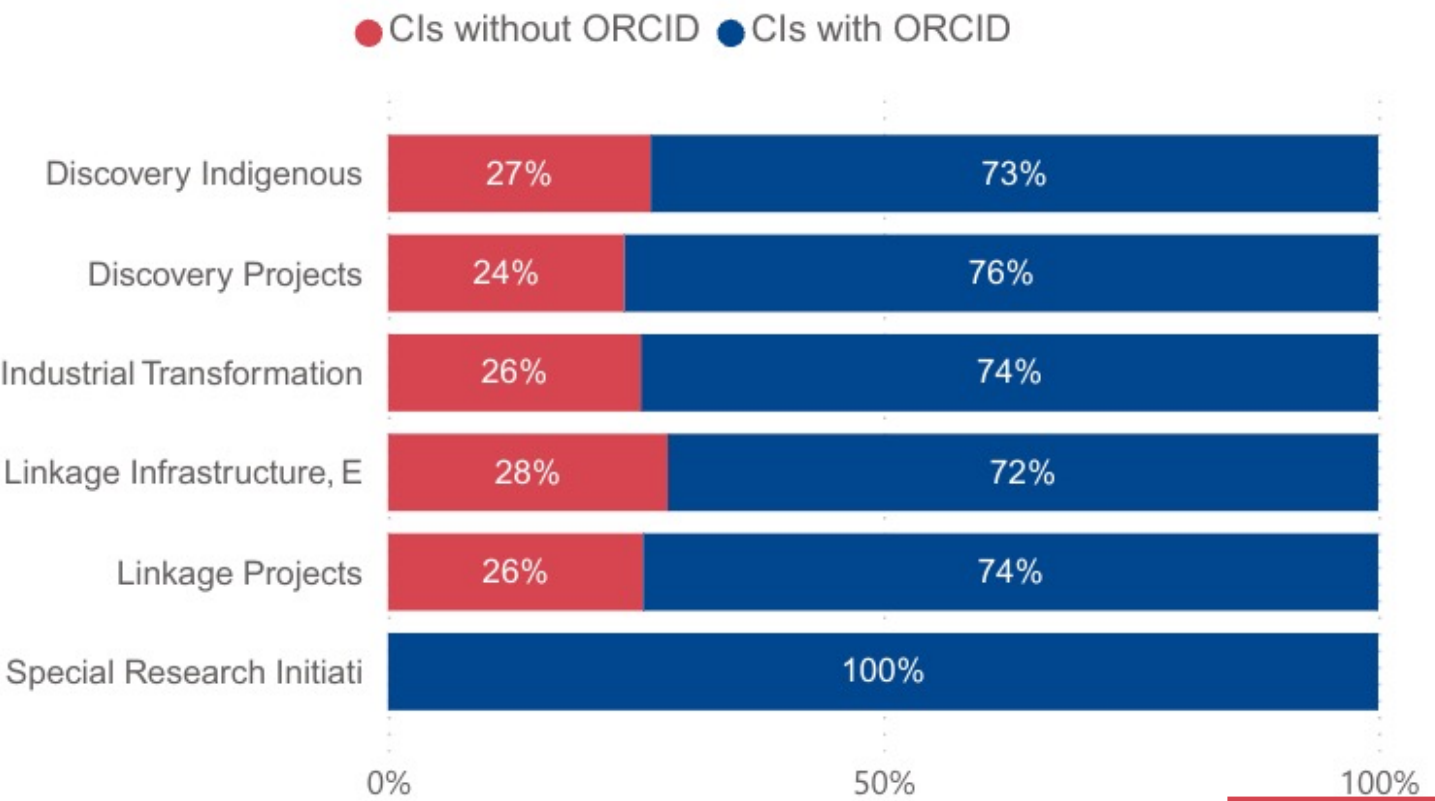
1,231
Grants

3,192
CIs

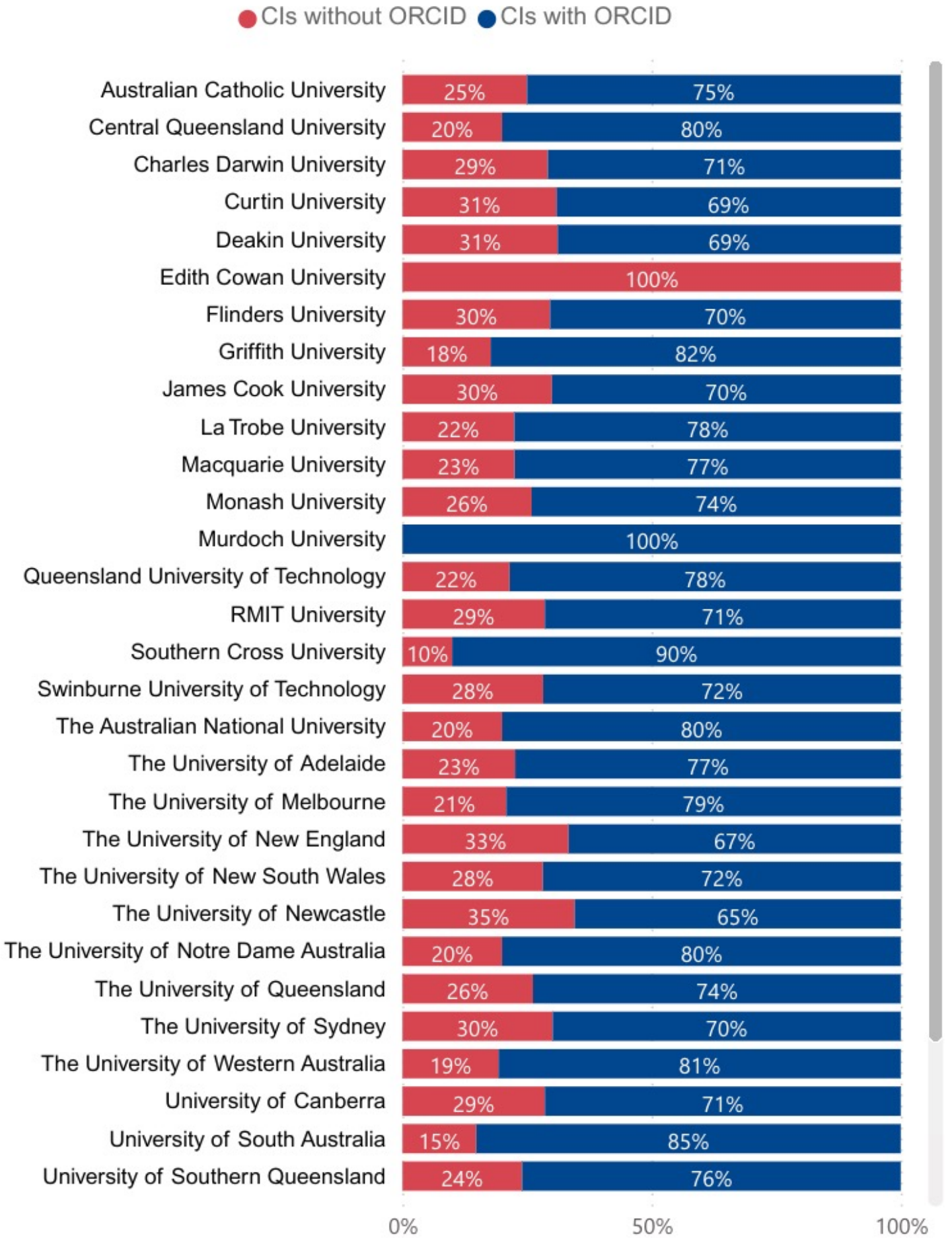
806
CIs without ORCID

2,386
CIs with ORCID

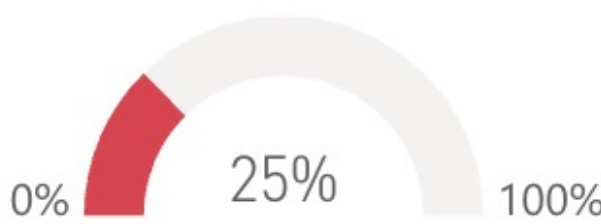
CIs with/without ORCID by Scheme



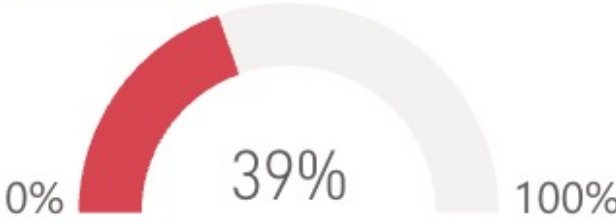
CIs with/without ORCID by Admin Organisation



CI without ORCID (%)



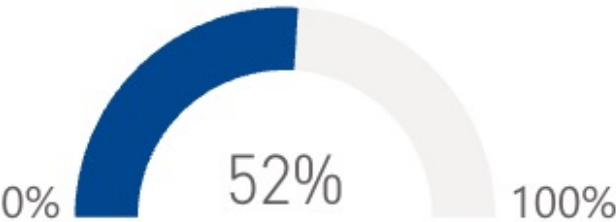
Grants with at least one CI without ORCID



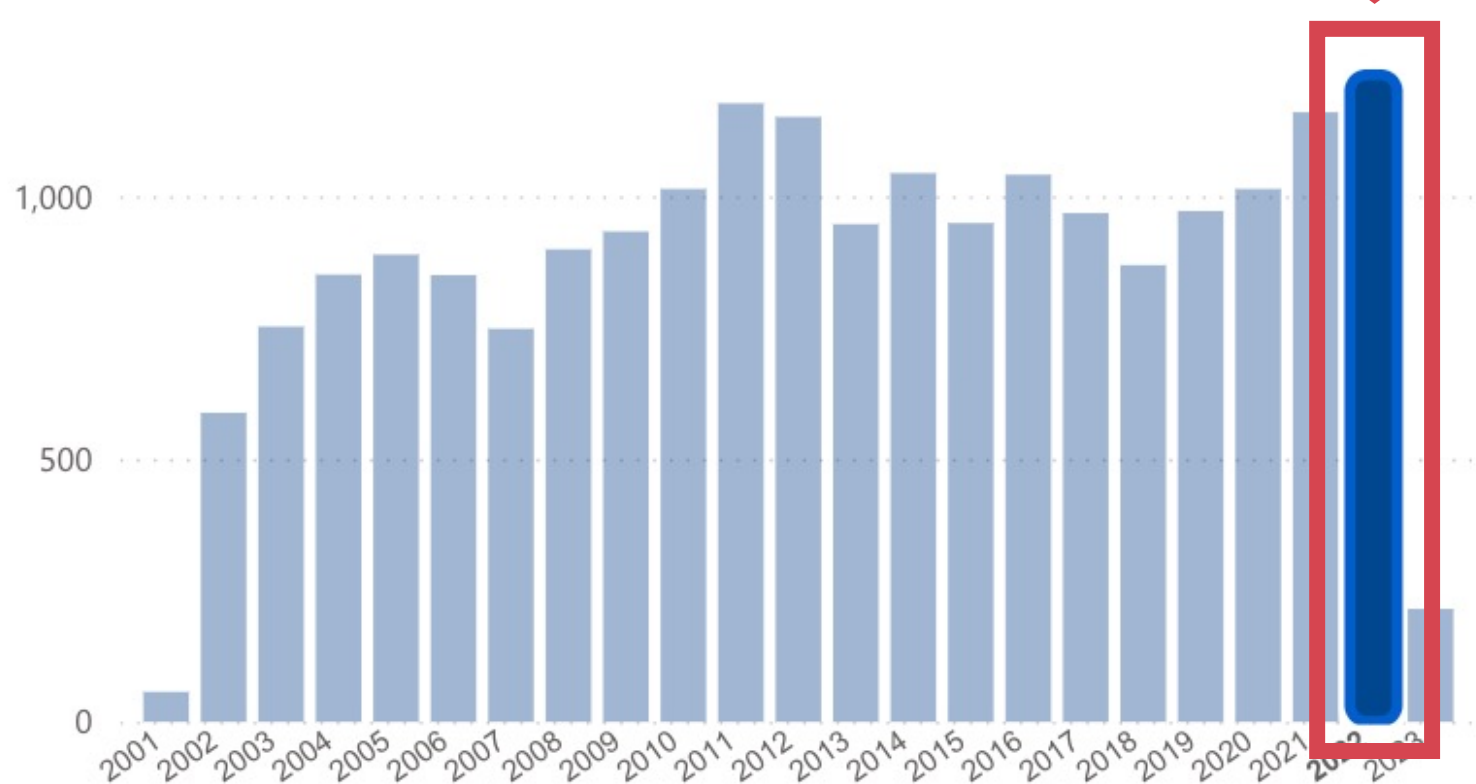
Grants that all CIs are missing ORCID links



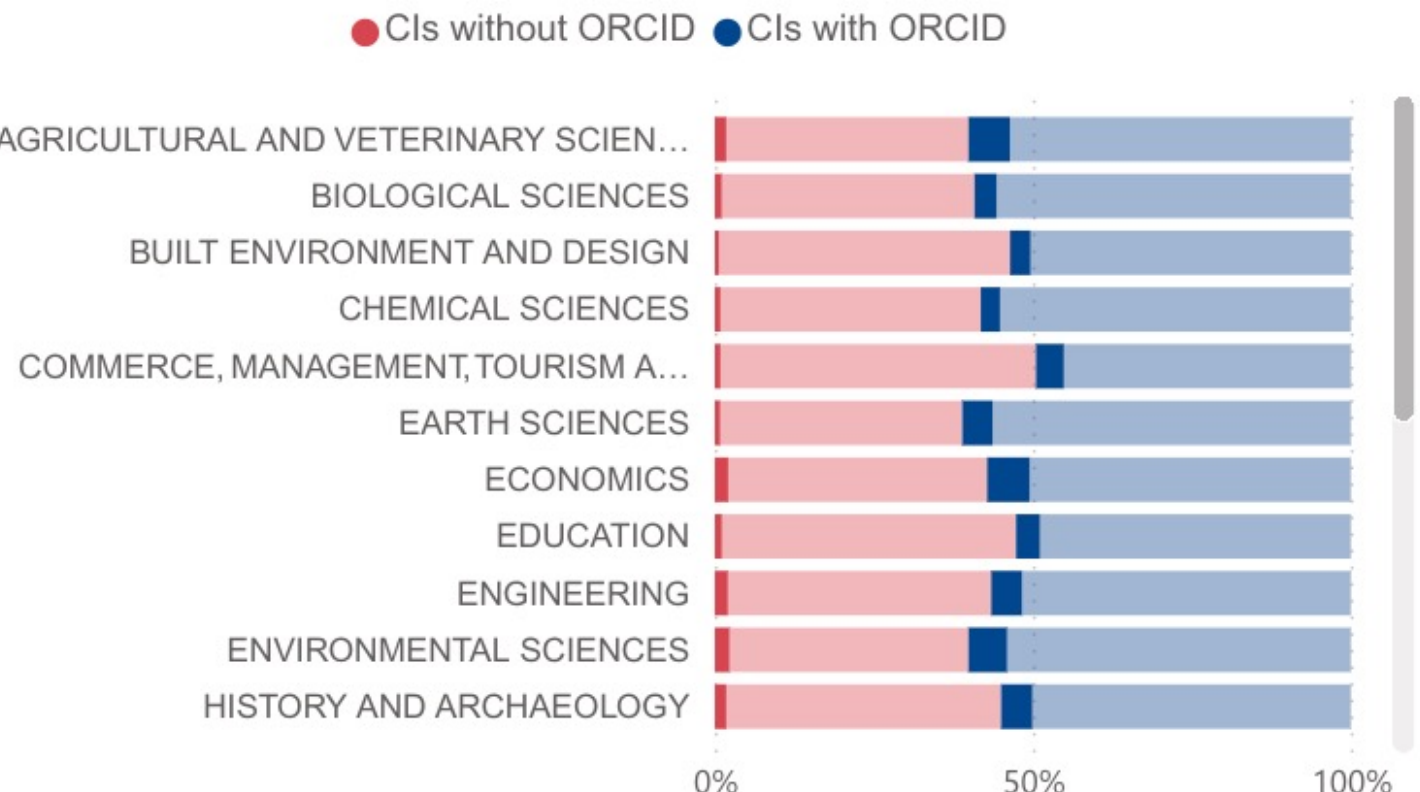
Grants with more than half CIs with ORCID



Number of grants by start year



CIs with/without ORCID by Primary FoR





ROR Connected to ARC Grants

19% of organisations participated in ARC grants can be linked to ROR identifiers



From 30,088 projects between 2000 and 2023

Search organisation name

Search

30,088

Number of projects

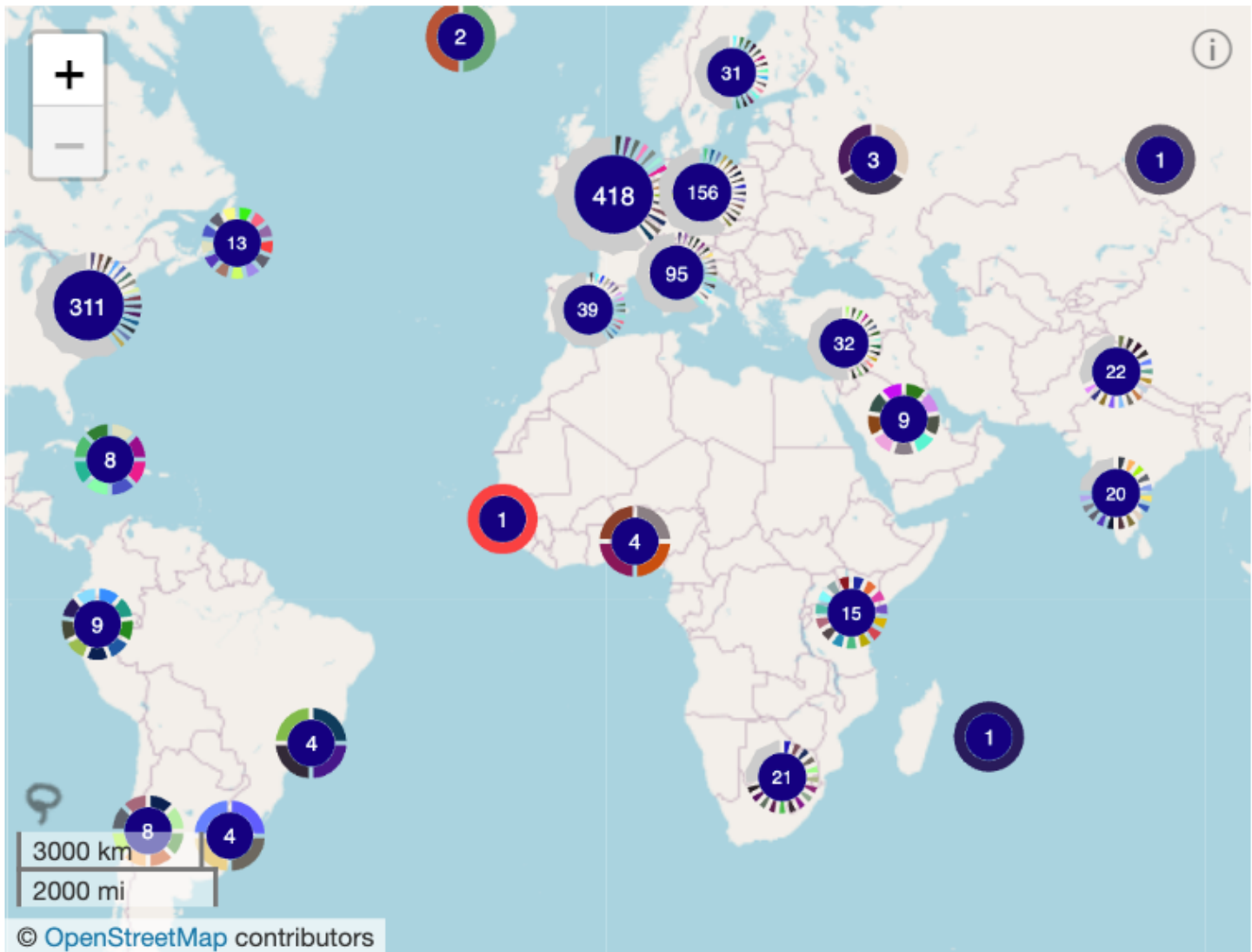
14,153

Organisations

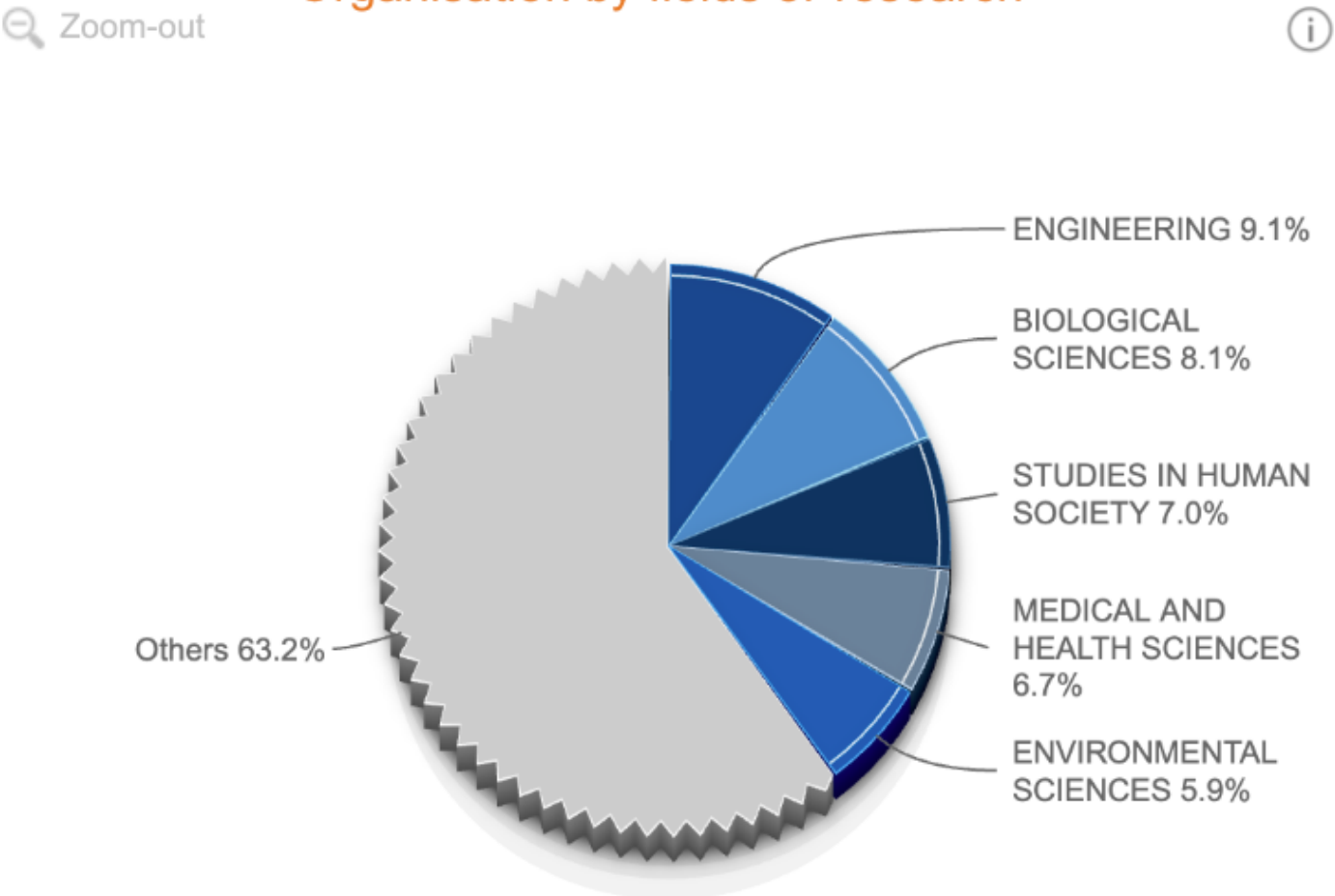
2,663

Organisations with ROR

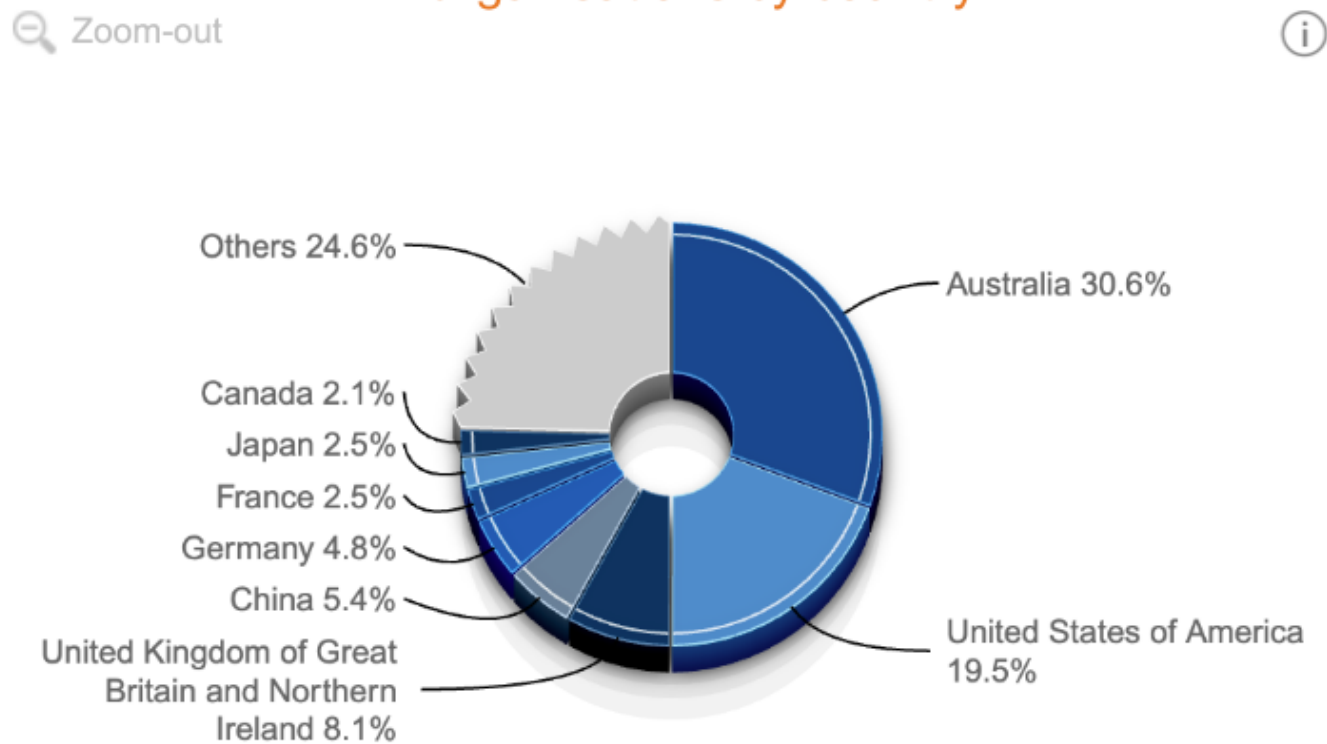
Organisations with ROR identifier



Organisation by fields of research

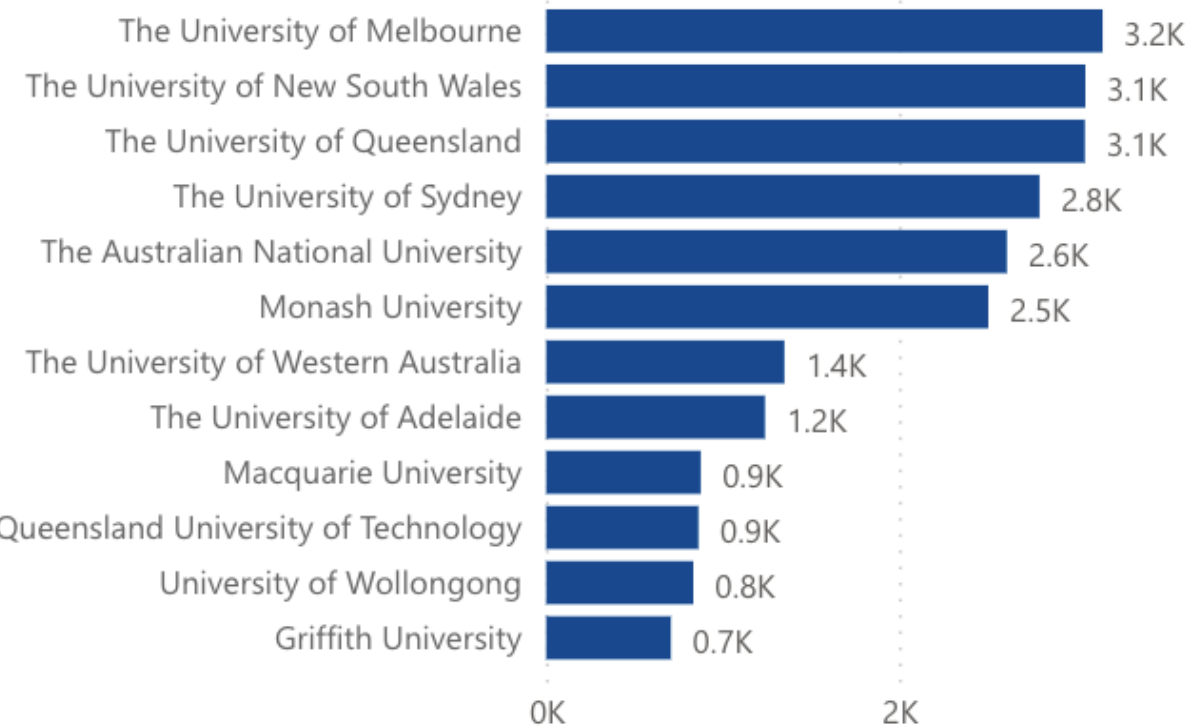


Organisations by country



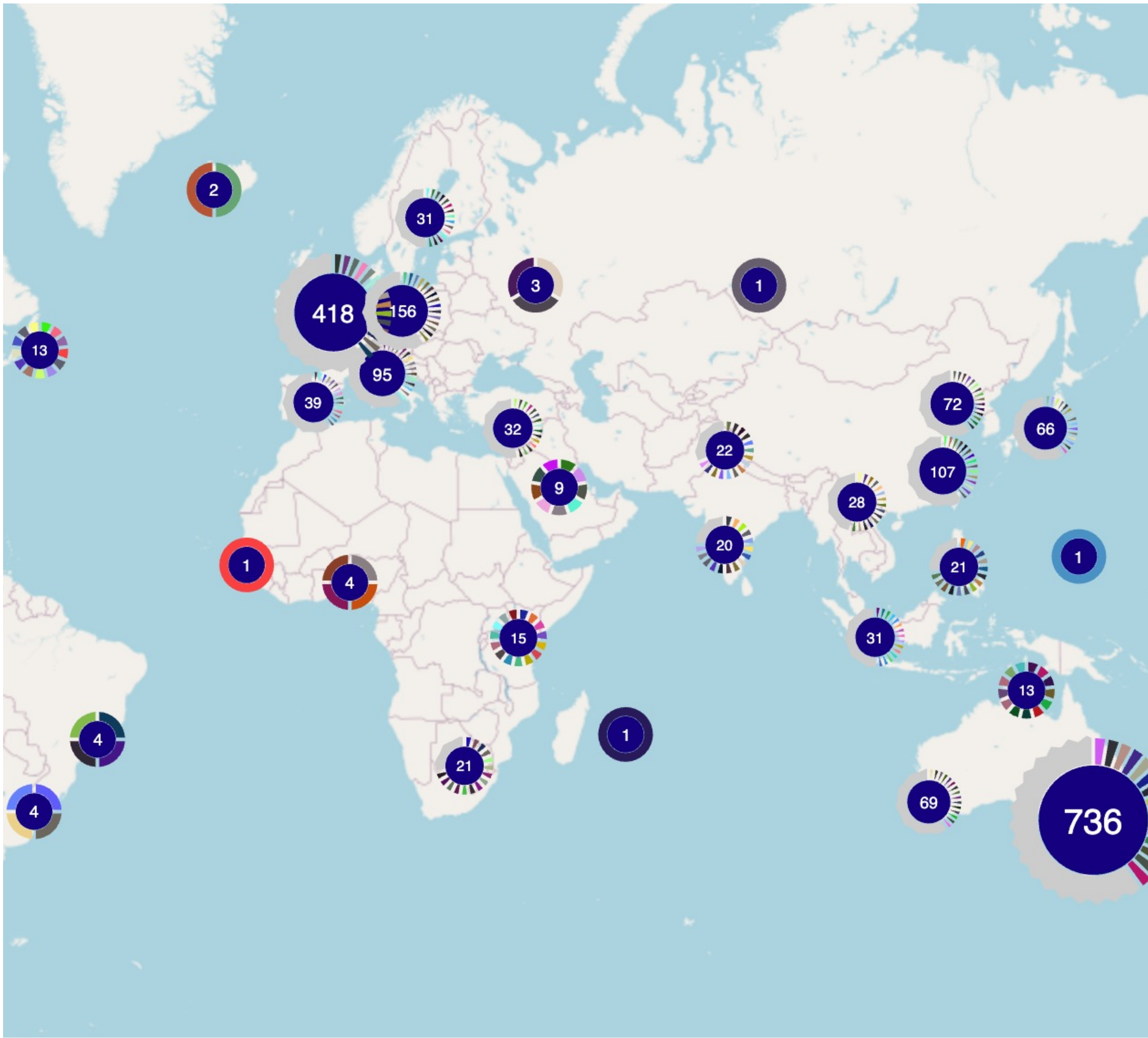
Projects by admin organisations

State view



Country/City/Organisations	ROR Identifier
Albania	
Tirana	
Polytechnic University of Tirana	05aec4025
Argentina	
Buenos Aires	
National Scientific and Technical Research Council	03cqe8w59
United Nations Development Programme	02rz8v083
University of Buenos Aires	0081fs513
Córdoba	
Universidad Nacional de Córdoba	056tb7j80
Santa Fe	
National University of the Littoral	00pt8r998
Armenia	

Project code	Status	Start	End	Title
AR04/00252	Closed			Anglo-Australian Observatory Research Fellowship.
CE0348155	Closed	2003	2011	Centre for Advanced Silicon Photovoltaics and Photonics.
CE0348177	Closed	2003	2007	ARC Centre for Perceptive & Intelligent Machines in Complex Environments.
CE0348178	Closed	2003	2011	Australian Centre for Quantum-Atom Optics.
CE0348193	Closed	2003	2005	ARC Centre for Structural & Functional Microbial Genomics.
CE0348198	Closed	2003	2012	ARC Centre for Solar Energy Systems.
CE0348205	Closed	2003	2010	ARC Centre for Kangaroo Genome.
CE0348212	Closed	2003	2011	CENTRE for INTEGRATIVE LEGUME RESEARCH.
CE0348217	Closed	2003	2012	Centre for Mathematical and Statistical Modelling of Complex Systems.
CE0348224	Closed	2003	2010	ARC Centre for Biological Modelling.



Country/City/Organisations	ROR Identifier
Albania	
Tirana Polytechnic University of Tirana	05aec4025
Argentina	
Buenos Aires National Scientific and Technical Research Council United Nations Development Programme University of Buenos Aires	03cqe8w59 02rz8v083 0081fs513
Córdoba Universidad Nacional de Córdoba	056tb7j80
Santa Fe National University of the Littoral	00pt8r998
Armenia	
Yerevan National Institute of Health	02qwkrw10
Australia	
Acton National Computational Infrastructure	04yx6dh41
Adelaide Aboriginal Health Council of South Australia Alzheimer's Australia Australian Centre for Plant Functional Genomics Australian Institute of Business Australian Plant Phenomics Facility Australian Water Quality Centre Australian Wine Research Institute Cancer Council SA Department for Education and Child Development Department of Environment Water and Natural Resources Department of the Premier and Cabinet Flinders University Government of South Australia Hanson Institute	02mpkkr38 05bcgfn72 00xwvfm64 01wf5jq34 02zj7b759 04mwphf10 0569vjj73 01e399z24 03bc44j62 053gv9453 0381t6379 01kpzv902 04g3scy39 047kx5j58



ORCID Consortium

103,963 ORCID[®]s are affiliated with the consortium members

Search Institute/Campus

Search

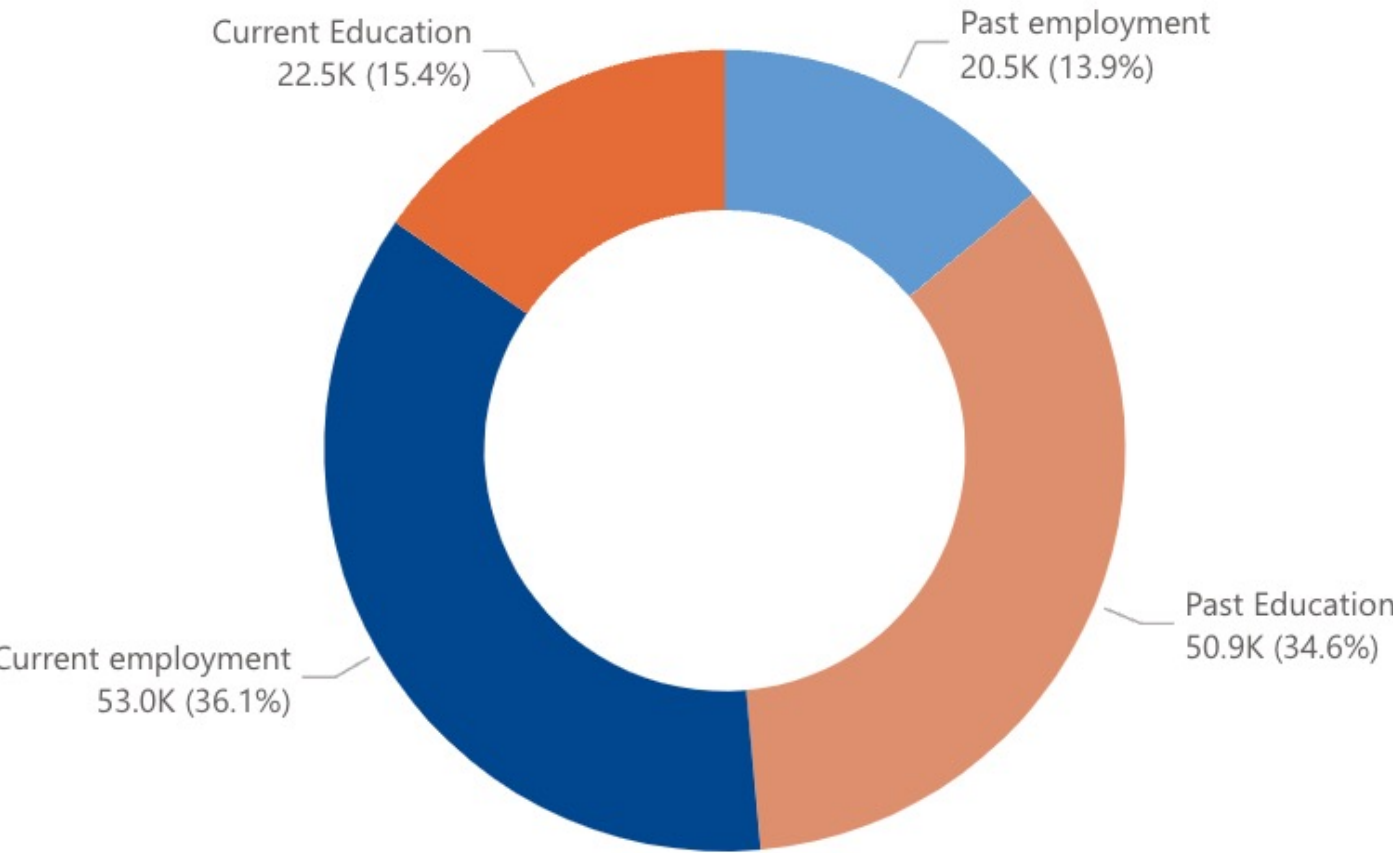


Consortium Members
43

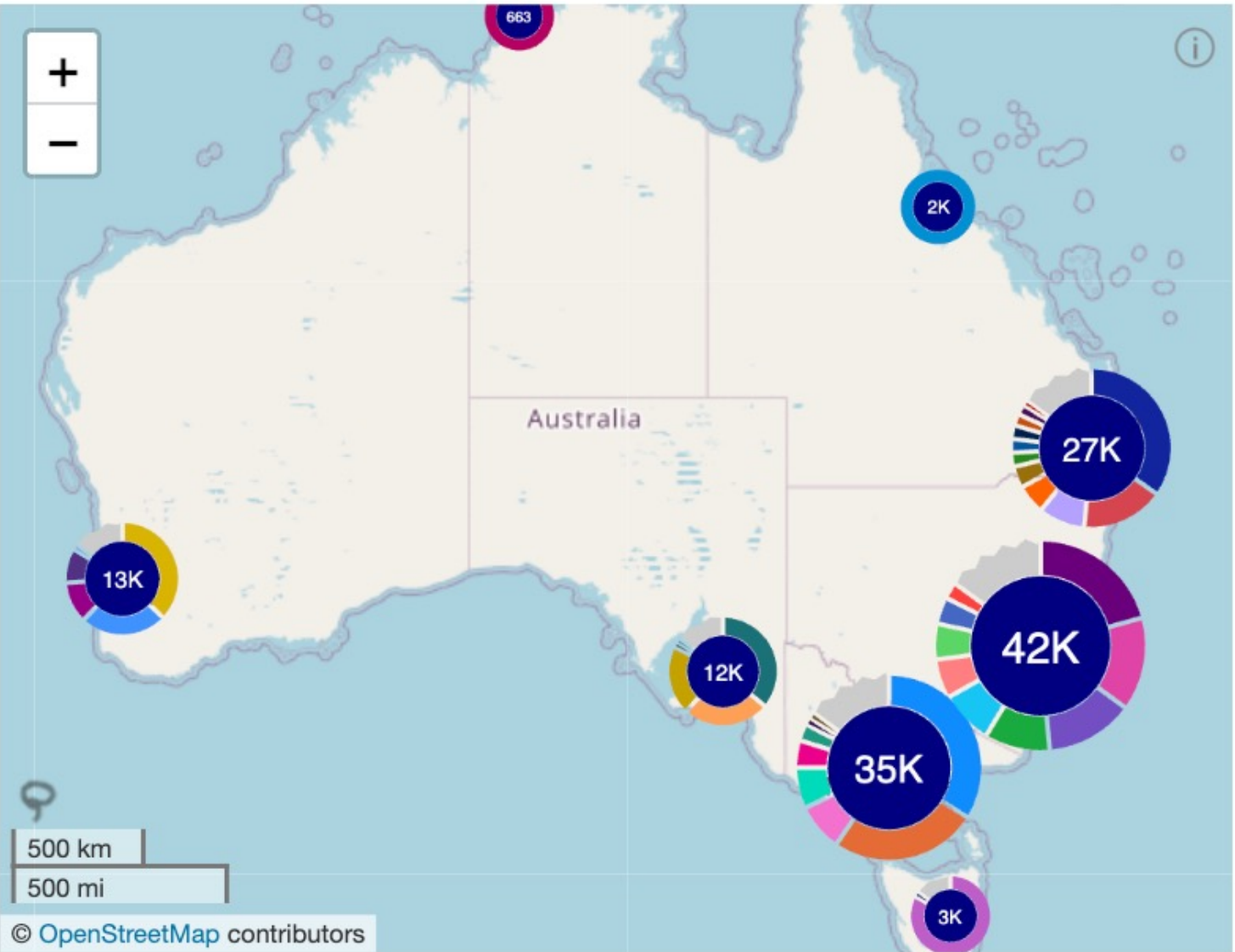
Institutes/Campuses
185

ORCID
103,963

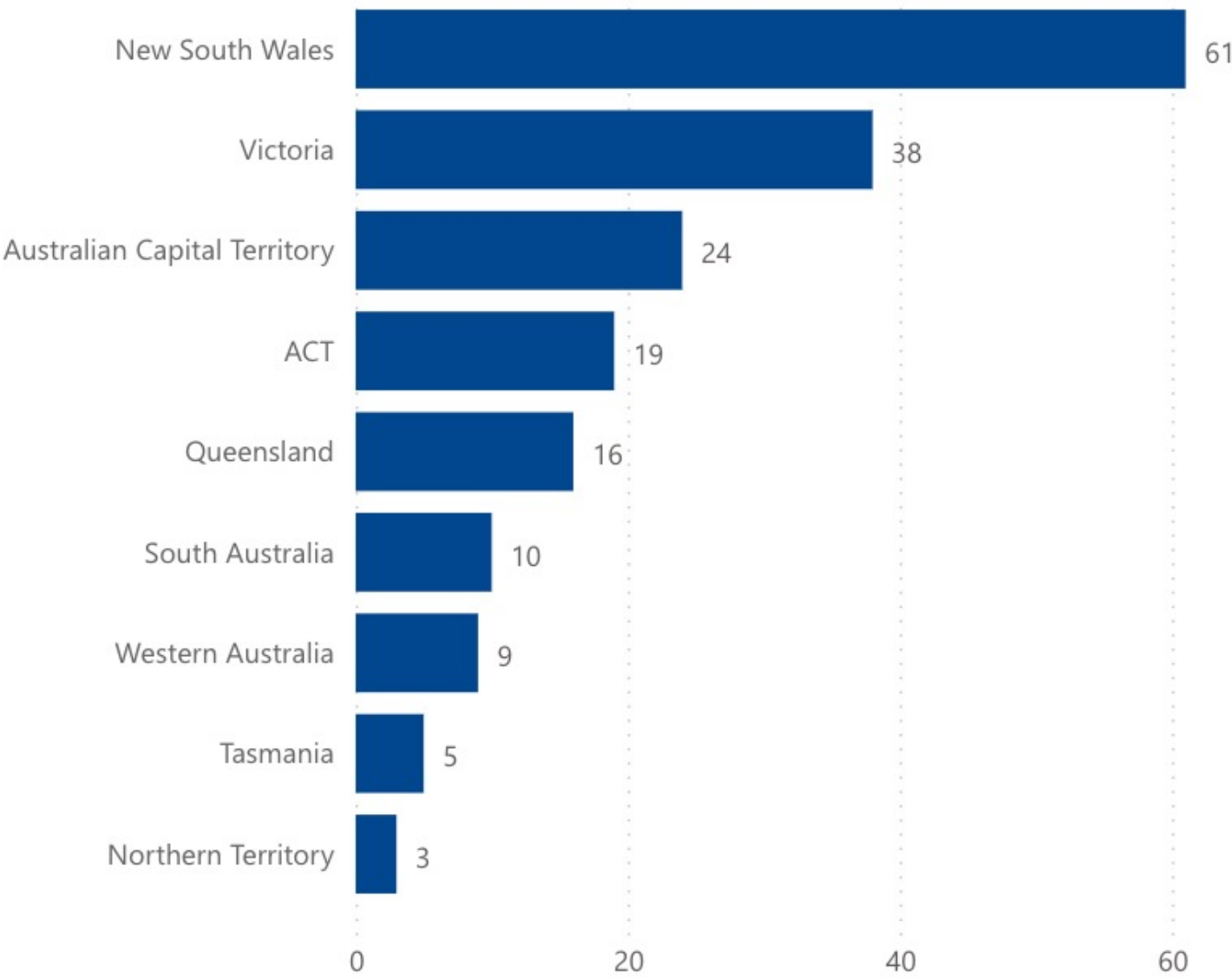
ORCID by Status



ORCID by Institute/Campus



Institute/Campus by State and Territory



Consortium Member	Institute/Campus	Wikidata ID	WikiURL	Past Education	Current Education	Past Employment	Current Employment	ORCID
Australian Catholic University	Australian Catholic University	Q781371	https://www.wikidata.org/wiki/Q781371	260	67	182	434	870
Australian Catholic University	Sydney College of Divinity	Q7659877	https://www.wikidata.org/wiki/Q7659877	14	4	4	1	22
Australian Catholic University	University of Queensland	Q866012	https://www.wikidata.org/wiki/Q866012	5645	1901	1984	3368	10,919
Australian National Data Service	Australian National Data Service	Q4824459	https://www.wikidata.org/wiki/Q4824459			11	4	15
Australian National University	Australian National University	Q127990	https://www.wikidata.org/wiki/Q127990	3077	918	1177	2208	6,388
Australian National University	Canberra Hospital	Q5031265	https://www.wikidata.org/wiki/Q5031265	1		26	48	74
Australian National University	Goulburn Base Hospital	Q16891798	https://www.wikidata.org/wiki/Q16891798				2	2
Australian National University	Mount Stromlo Observatory	Q1310548	https://www.wikidata.org/wiki/Q1310548	1				1
Australian Nuclear Science and Technology Organisation	Australian Nuclear Science and Technology Organisation	Q781606	https://www.wikidata.org/wiki/Q781606	5	1	70	117	193
Australian Nuclear Science and Technology Organisation	Department of Industry, Innovation and Science	Q19872849	https://www.wikidata.org/wiki/Q19872849			1	2	3
Australian Research Council	ARC Centre of Excellence for Electromaterials Science	Q30273556	https://www.wikidata.org/wiki/Q30273556			3		3
Australian Research Council	Australian Research Council	Q4824612	https://www.wikidata.org/wiki/Q4824612			20	14	34
Australian Research Council	Australian Research Council Centre of Excellence For Engineered Quantum Systems	Q54833696	https://www.wikidata.org/wiki/Q54833696	1			3	4



Access to Australian National PID Graph

Email: NationalGraph@ResearchGraph.ORG

Web: <https://researchgraph.org/national-graph>