

# Building ORCID Collaboration Networks Using PID Graph

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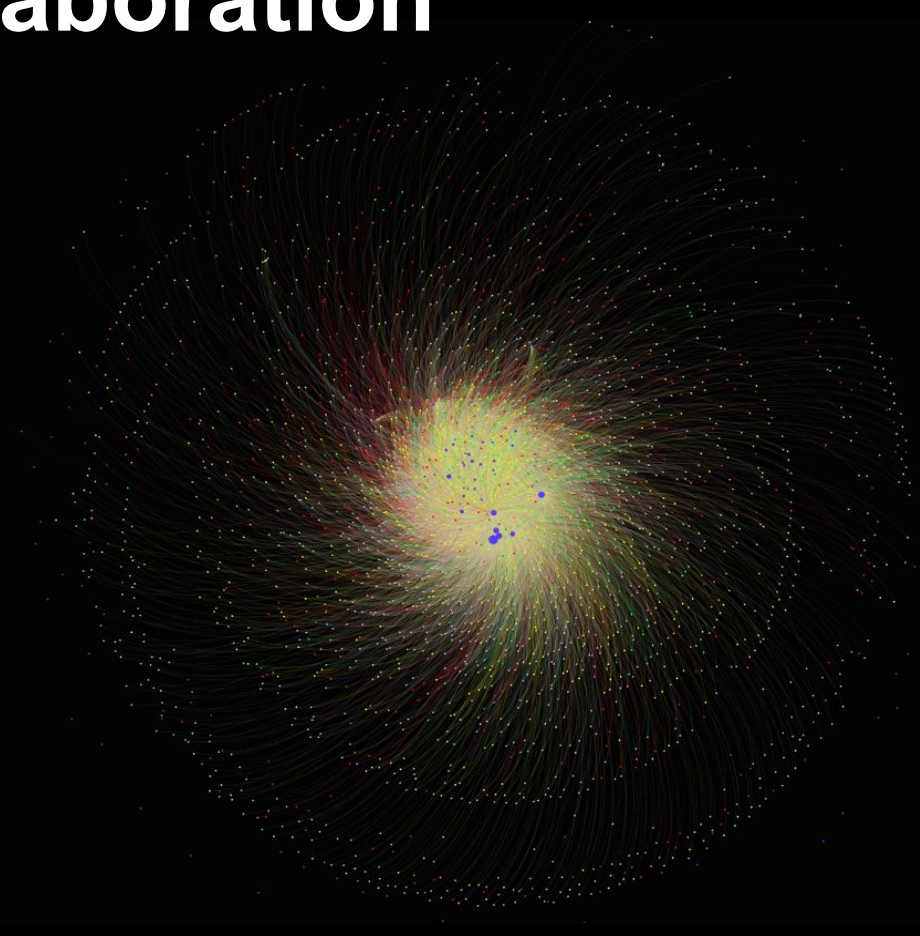
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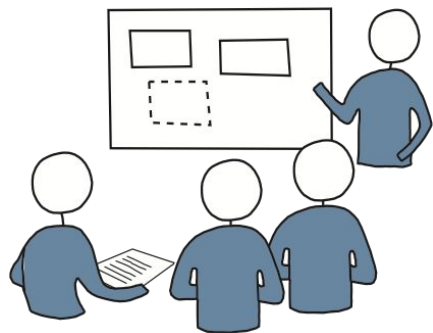
# Agenda

Collaboration Network

PID Graph and Research Graph Augment API

ORCID: National and International Connections

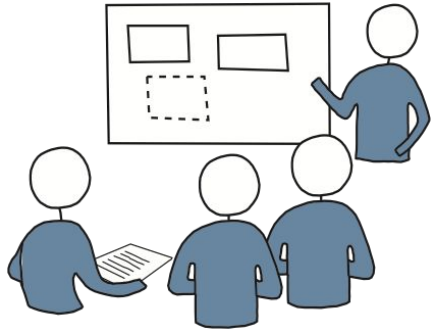
# Questions that we are already asking



Research Team

- What is the list of all publications produced by this group?
- What is the number and \$ value of the grants?
- Number of PhD Students? Staff? Graduates?
- NTRO

# Other questions we also need to ask



Research Team

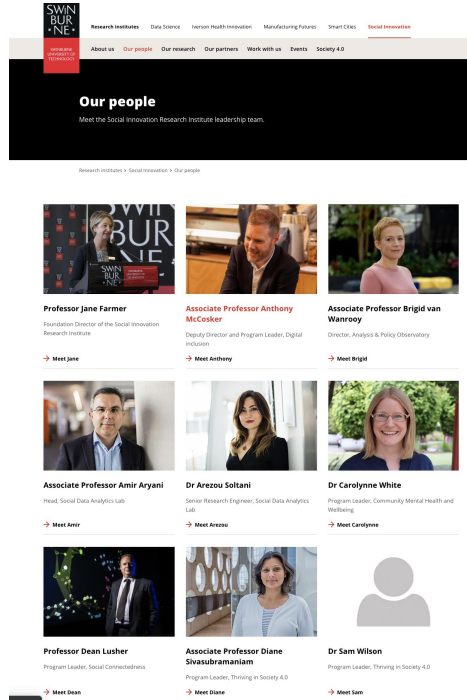
- What are the funding opportunities, that they are missing?
- Who are the potential collaborators, that they are missing?
- What are the industry engagements, that they are missing?

# Impact of Networking

- Define Your Network
  - To build a robust network, you have to start by understanding its current state.
- Break Down Your Network
  - Strategic Network
  - Operational Network
  - Developmental Network
- Examine Your Network
  - Which networks are strongest?
  - Which networks need development?
  - Are any key relationships missing?
- Cultivate Relationships



# How do we define the network?



Universities



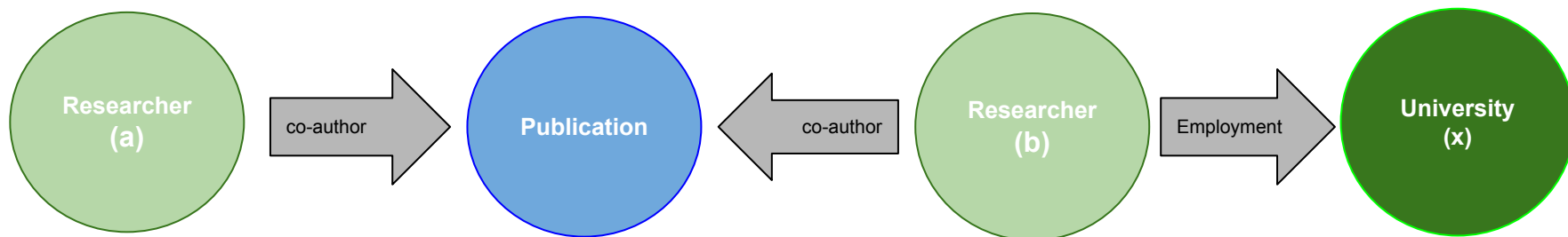
Industry



Country



# Collaboration



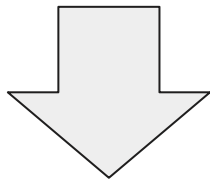
# 2 Degrees of separation

**Researcher** - [:author] - **Paper** - [:author] - **Researcher** - [:Employee] - **Institution\***

**Researcher** - [:co-creator] - **Dataset** - [:co-creator] - **Researcher** - [:Education] - **Institution**

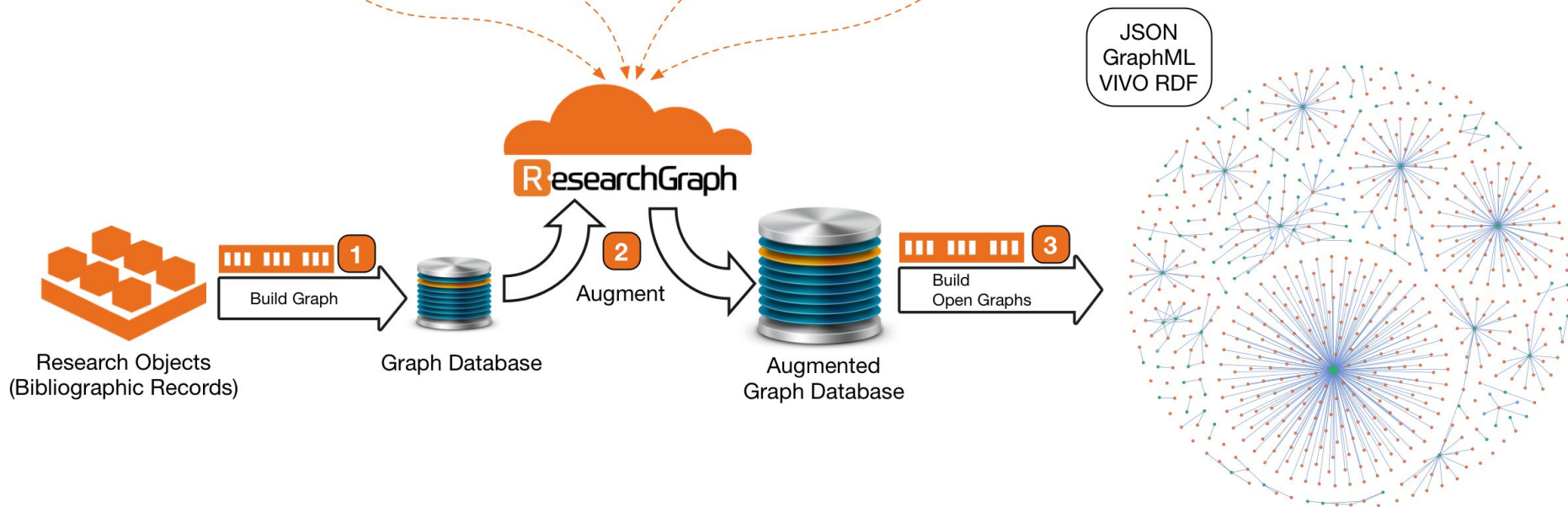
**Researcher** - [:CI] - **Grant** - [:CI] - **Researcher** - [:Employee] - **Institution**

**\*Institution** → **Country**



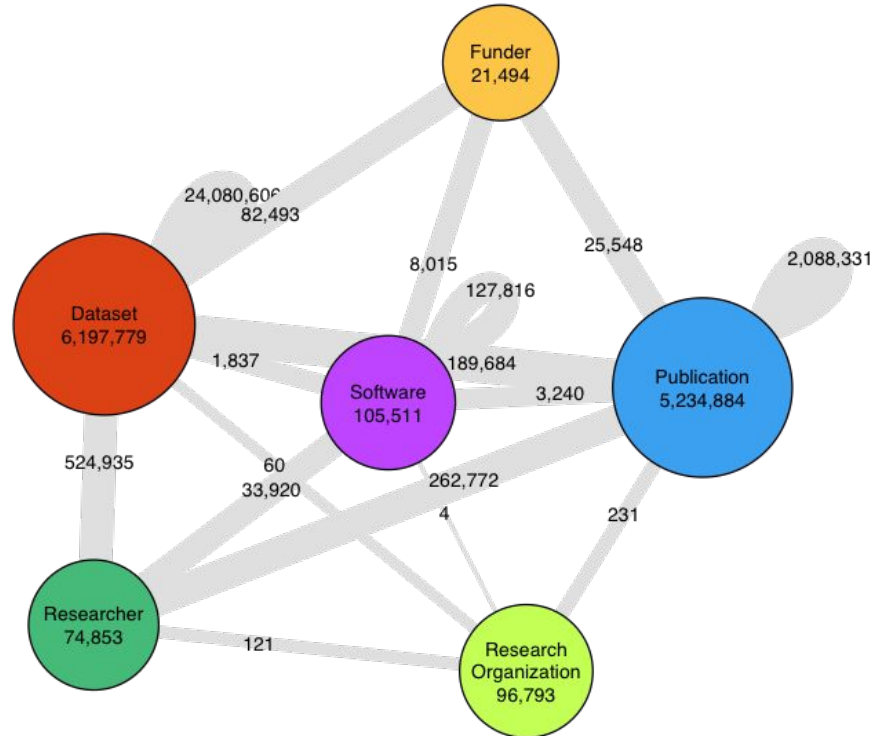
**Researcher** → **Researcher** → **Institution** → **Country**





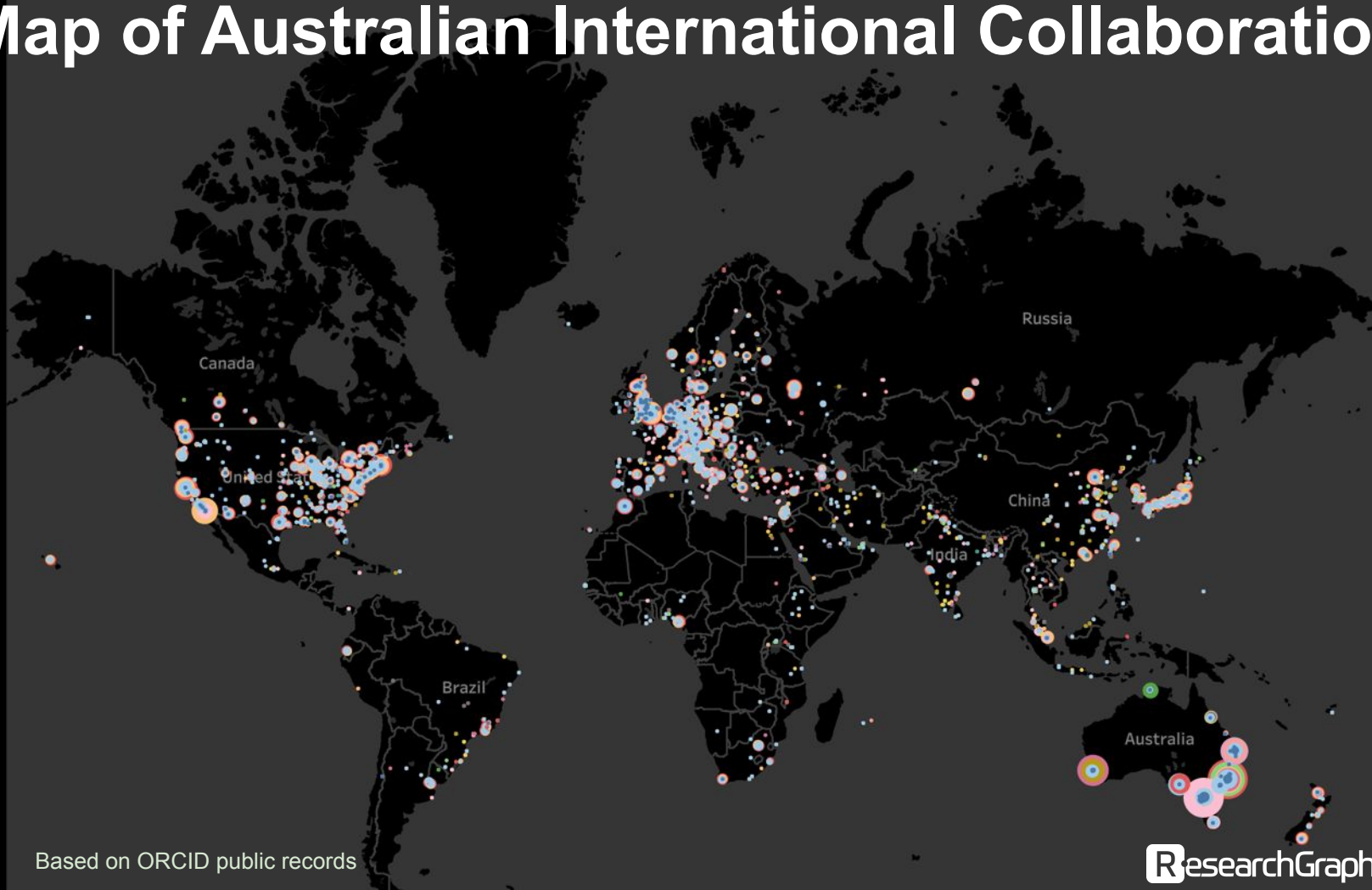
# PID Graph

## Number of nodes and connections (17 September 2019)



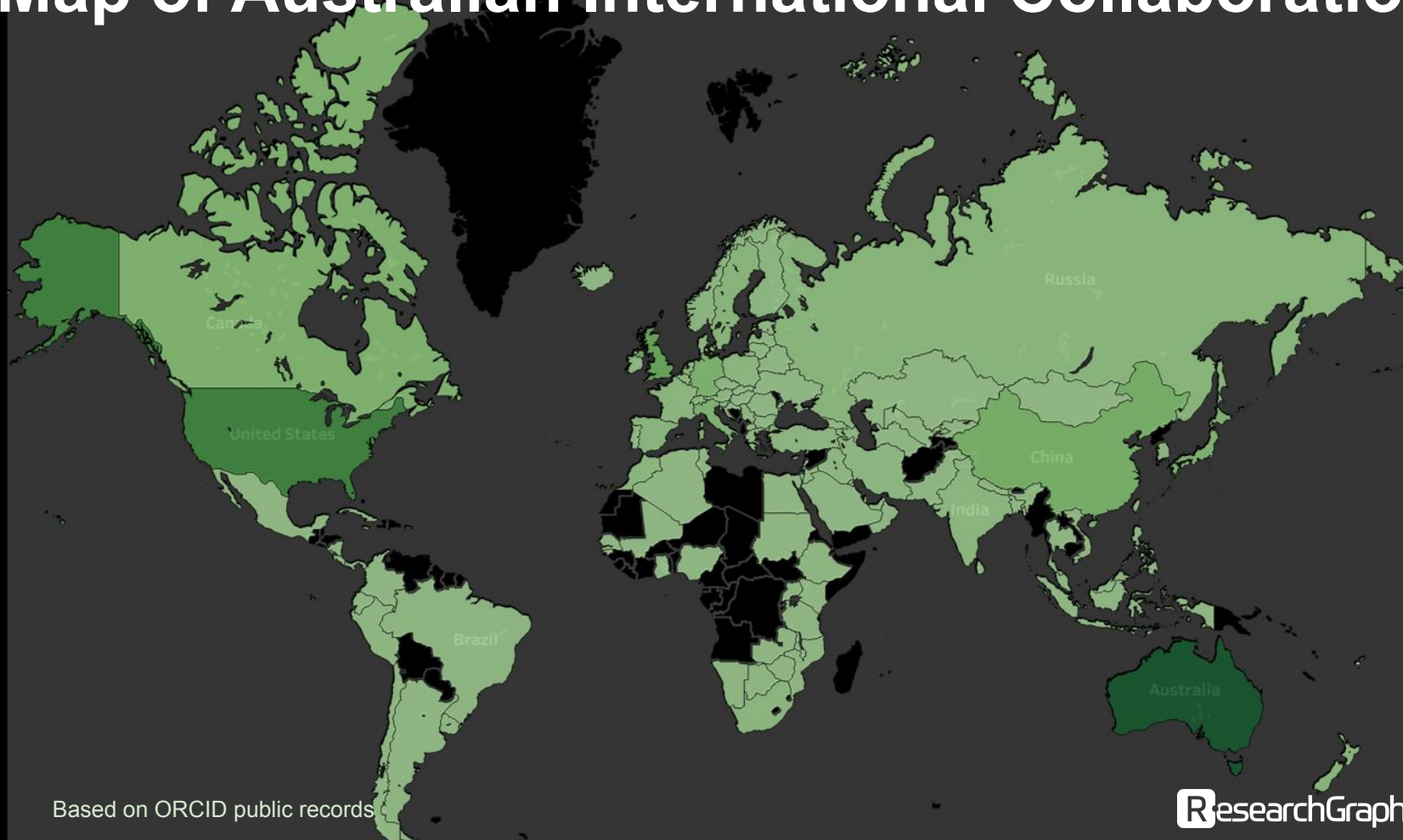
JSON

# Map of Australian International Collaboration



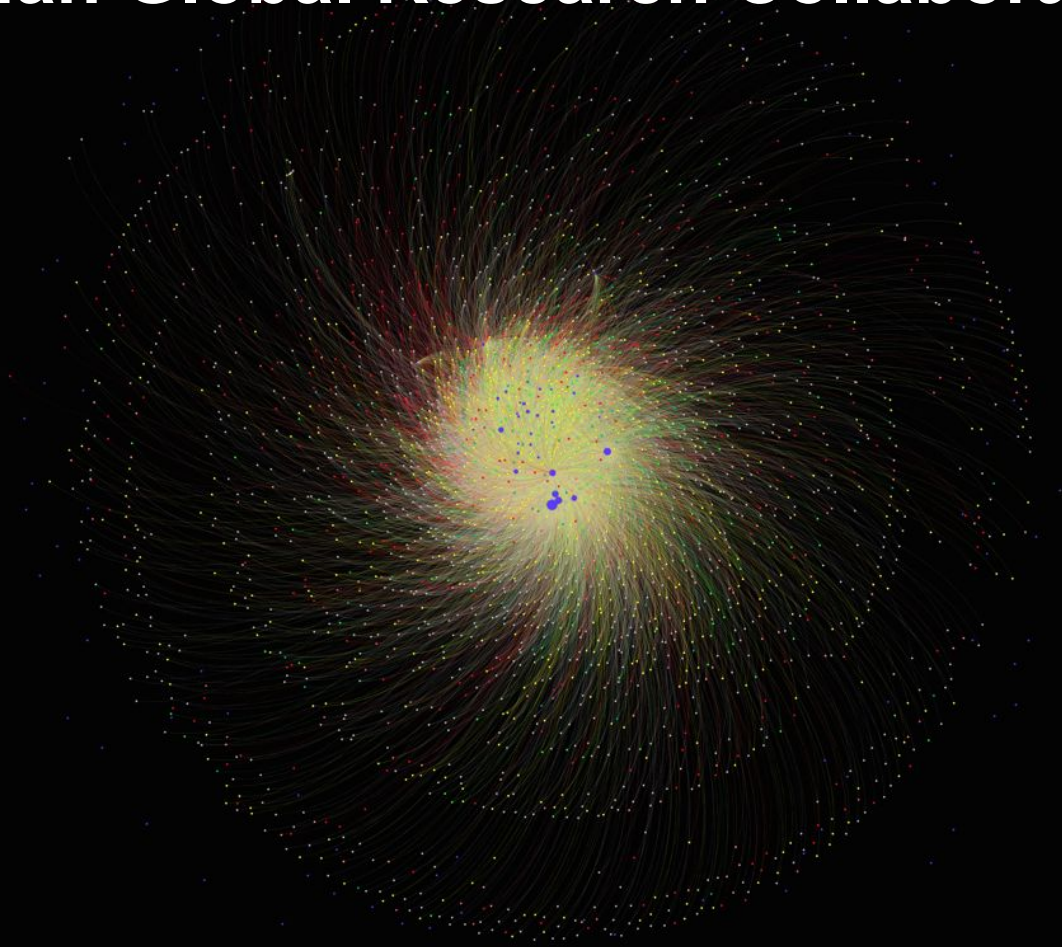
Based on ORCID public records

# Map of Australian International Collaboration



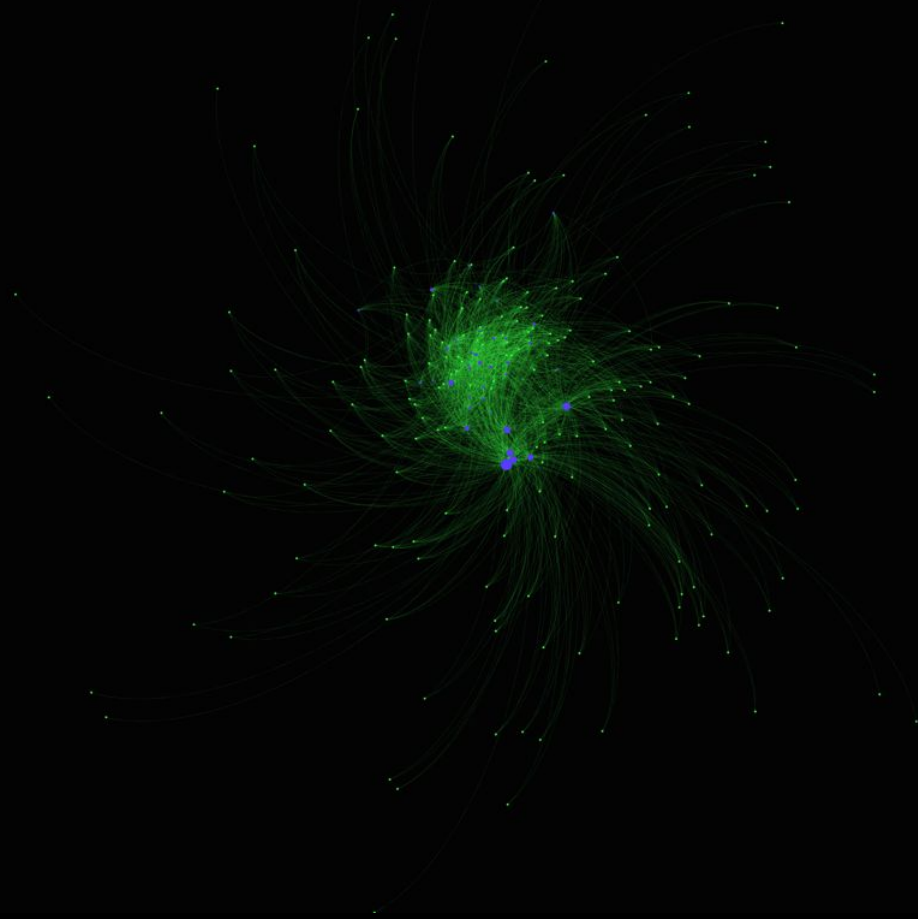
Based on ORCID public records

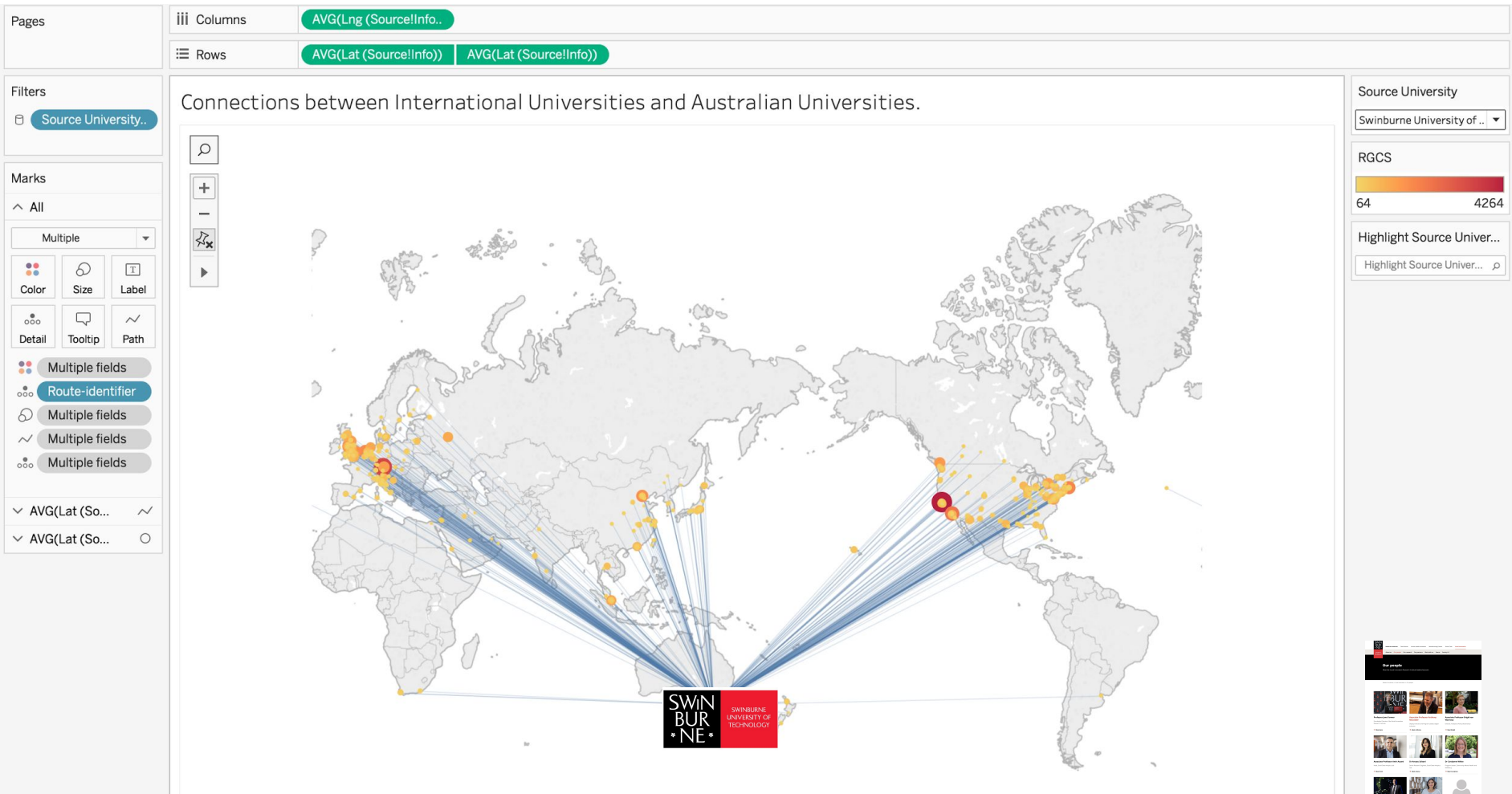
# All Australian Global Research Collaboration





# Collaboration with United Kingdom







# How about our research group?

SWINBURNE

UNIVERSITY OF TECHNOLOGY

Research Institutes

Data Science

Iverson Health Innovation

Manufacturing Futures

Smart Cities

Social Innovation

About us

Our people

Our research

Our partners

Work with us


Events

Society 4.0


## Our people

Meet the Social Innovation Research Institute leadership team.


Research Institutes > Social Innovation > Our people




**Professor Jane Farmer**  
Foundation Director of the Social Innovation Research Institute  
[→ Meet Jane](#)




**Associate Professor Anthony McCosker**  
Deputy Director and Program Leader, Digital Inclusion  
[→ Meet Anthony](#)




**Associate Professor Brigid van Wanrooy**  
Director, Analysis & Policy Observatory  
[→ Meet Brigid](#)



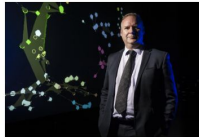
**Associate Professor Amir Aryani**  
Head, Social Data Analytics Lab  
[→ Meet Amir](#)




**Dr Arezou Soltani**  
Senior Research Engineer, Social Data Analytics Lab  
[→ Meet Arezou](#)




**Dr Carolynne White**  
Program Leader, Community Mental Health and Wellbeing  
[→ Meet Carolynne](#)



**Professor Dean Lusher**  
Program Leader, Social Connectedness  
[→ Meet Dean](#)



**Associate Professor Diane Sivasubramaniam**  
Program Leader, Thriving in Society 4.0  
[→ Meet Diane](#)

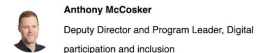
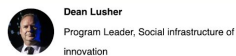


**Dr Sam Wilson**  
Program Leader, Thriving in Society 4.0  
[→ Meet Sam](#)

# Live Demo



## SIRI Members



## Top overall collaborators

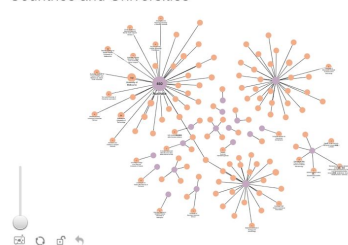


## ORCID Collaboration Network



Collaborator universities	Count
Abdelhamid Mahri University	1
Alfred Hospital	1
American Cleft Palate-Craniofacial Association	1
Argonne National Laboratory- West	1
Arts & Humanities Data Service	1
Austin Health	6
Australian Institute of Company Directors	4
Australian Institute of Tropical Health and Medicine at James Cook University	11
Australian National Data Service	2
Australian Tropical Herbarium, James Cook University Cairns Campus	1
Avantica	1
Barwon Health	2
<b>Total</b>	<b>671</b>

## Countries and Universities



## Collaboration Network



# Next Step: Co-Design



# Interested?

## Ask Melroy

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