

Workshop: National PID Strategy

20 February 2023

PRESENTED BY

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Accelerating Research and Innovation

Increased focus on

- accelerating world class research
- reducing administrative burden
- increasing the impact of research and its contribution to areas of national

Review of the Australian Research Council

Consultation paper

The Australian Research Council (ARC) is a statutory agency within the Australian Government, it was established as an independent body under the Australian Research Council Act 2001 Bhe ARC Act). It reports to the Australian Minister for Education.

The ARC administers the National Competitive Grants Program, through which it assesses Australian university research and provides advice and support to the Minister on research matters, including the funding of research grants. The ARC Act has not been reviewed since it was established in 2001 and does not reflect the range of activities currently undertaken

On 30 August 2022, the Non-Jason Clare NP; Minister for Education, amnounced an independent coview of the ARC Act to consider the role and purpose of the ARC within the Australian research system so it can meet current and future areas and maintain the trust

Review Panel members

- Professor Margaret Shed AO (Char), Vice-Charcefor and President, Queensland
- Professor Susan Dodds, Senior Deputy Vice-Chancellar and Vice-Prosident (Research and industry Engagement), La Trobe University
- Professor Mark Hutchinson, Director, ARC Centre of Excellence for Nanoscale BioPhotonics, University of Adidwide

importance

Revitalising Australia's science priorities

The Hon Ed Husic MP Media Releases

27 September 2022

The Hon Jason Clare MP

of purpose of the ARC as set out in the legislation remains prolideration of the contribution the ARC can make to identifying arns to actively shope the research landscape in Australia and reparable research agencies:

model and management functions and structures to ensure ry, fit for purpose, and meet the needs of stakeholders,

 apportunities to improve the legislation to better facilitate globally competitive research and partnerships, reduce unnecessary administrative and legislative burden

Future ERA Directions

The ARC is prioritising development of a modern data driven approach for Excellence in Research for Australia (ERA) informed by expert review, for implementation from 2024-25.





A Data Driven Society by 2030: The Australian Data Strategy

 By 2025 the volume of data created in that year will be 4 times the amount of data in existence in 2020

 Data is the building block to create new value, streamline processes and optimise value chains

 The data deluge means we need to manage data for machine readability



Maximising the value of data

Summary: Describes why data is important, its economic and social value, its use in responding to priority issues, and the benefit that can be gained through using and safely sharing data.



Trust and protection

Summary: Describes the settings that can be adopted in the private and public sectors to keep data safe and secure, and the frameworks available to protect Australians' data and ensure its ethical use through the entire data lifecycle.



Enabling data use

Summary: Sets out approaches and requirements to leverage the value of data, such as capabilities, legislation, management and integration of data, and engaging internationally.





Strategic Value Proposition

Managing data across the research and innovation ecosystem can

- Fuel research excellence
- Drive innovation
- Increase impact and
- Deliver greater agility, transparency and administrative efficiency

Persistent Identifiers are a critical component of a world-leading national information infrastructure





What are the cost-benefits of PID investment?



Report found that use of PID investment could save:

- Nearly 38,000 person days per year (total time cost of rekeying metadata about grants, publications and projects)
- Nearly \$24 million per year (direct financial cost of this wasted effort).
- Accounting for the opportunity cost associated with technology transfer and innovation-led growth suggests a far higher figure of \$84 million per year.

Summarised recommendation:

 Develop a national PID strategy for Australia based on 'priority PIDs'





I'd love to be able to evidence the value of this research equipment to research and innovation If we could better evaluate the impact of our different grants we could invest in ones that are the most impactful?

If only we could be sure if four different plant samples in different Herbaria were from the same plant - it would help us be more aware of vulnerable species

How many time do I have to provide the same information?

If we had a helicopter view of how research and the sector interact - we keep throwing money but don't seem to get the outcomes we are seeking. We have siloed views. How do we better understand the health ecosystem to drive research-led innovation?

We upload details of all our funded industry research projects via Excel twice a year. It would be great if we could use APIs.

Imagine if we could link researchers with potential sources of industry grant funding when their ARC or NHMRC grant failed? They are often great proposals.

What if we could use PIDs to auto-populate grant reporting. Imagine the time it would save!

History of ORCID in Australia

2015

Working Group

2014 National

Forum

ANDS & CAUL hosted a national forum to address the challenge of identifying researchers & their research

ORCID Working Group formed & two joint statements were released

- UA DVC-R's supportive of this approach Consortium model developed
- AAF appointed Consortium Lead
- Agreement signed with 40 members

2016

Working Group

ORCID Consortium commenced with AAF as Consortium Lead 2018

ORCID Growth

- 80 000+ ORCID IDs
- 40 members
- 70% integrated
- ARC use of ORCID in grant applications

2020

ORCID Growth

- 136 000+ ORCID IDs
- 42 members
- 83% integrated
- Maturity Assessment launched

2022

ORCID Growth

- 176 000+ ORCID IDs
- 43 members
- 90% integrated
- PID Cost Benefit Analysis released









Annual ORCID cost savings for members

SAVING OF

\$4.5M

FOR MEMBERS 2016-2022



- 43 members across Australia
- Lowers the barrier to entry
- Cost to members to join ORCID reduces by well over 50%
- In Country Support available from AAF





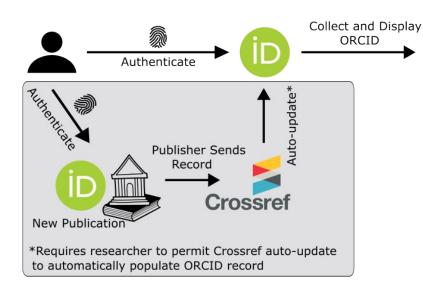
Case study: ARC ORCID integration

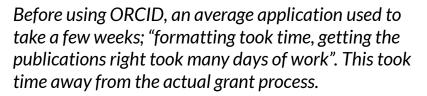
Prior to 2018, applications for grants from ARC required a hand-formatted list of publications. But then...

RMS

Collect

"Works"





Populate Application

Form

This [ORCID integration with RMS] saved me 3-4 days per grant application

- the difference in workload was staggering!"

- Joe Shapter Pro-vice-Chancellor, University of Queensland







PIDs and the Cambrian Explosion















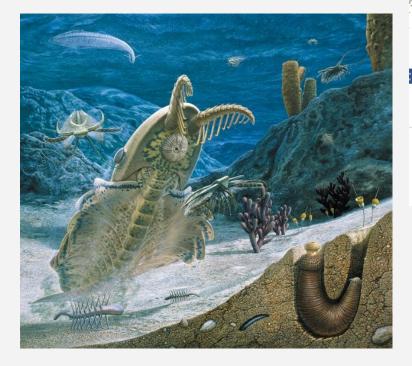








Complexity of PIDs on earth





Map of ORCID membership & Consortia worldwide







PIDs as national infrastructure - a good foundation

Identifier for	Identifier type	Offered by	In collaboration with international PID provider
People	ORCID	AAF led Australian ORCID Consortium	ORCID
Data, software, instruments, samples, 'grey literature'	Handle/DOI/IGSN	ARDC (DataCite Consortium lead)	DataCite IGSN Organisation
Projects	RAiD	ARDC	Handle system
Grants	PURL or DOI	ARDC or CrossRef	Internet Archive / CrossRef
Publications	DOI	Publishers or CrossRef	CrossRef
Organisations	ROR / GRID	ROR or Digital Science	ROR / Digital Science





A national conversation to create

A Strategy that delivers shared value for all stakeholders, and

A Roadmap built upon shared action and accountability







National PID Strategy and Five year Roadmap

Taskforce

- Provide strategic advice to the sector on the development of the National PID Strategy and a five year Roadmap
- 2. Advocate for the engagement and commitment of key stakeholders to the development and implementation of the Strategy and Roadmap
- 3. Provide advice on a suitable governance structure to oversee the implementation of the Strategy and Roadmap

Working Groups

- Advise on how best to advance the development and implementation of PID(s) in this area including by considering relevant international initiatives and global trends
- WG Focus area ideas to date: Grants, Instruments, Organisation and Facilities, Projects, HERDC, Observations and Environmental Impact Assessments









Some questions for you to

- Gonsider of Specific order of the specific information, which information? What could you achieve?
- How would you describe or measure the value of this?
- What are the immediate opportunities you can leverage? What are the barriers?
- How will approaching this as a national strategy and roadmap assist you?
- What can you do to support the success of this Strategy?
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