More Connections, Less Effort Laying the Foundation for Research Management Reporting via ORCID

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Engagement Manager
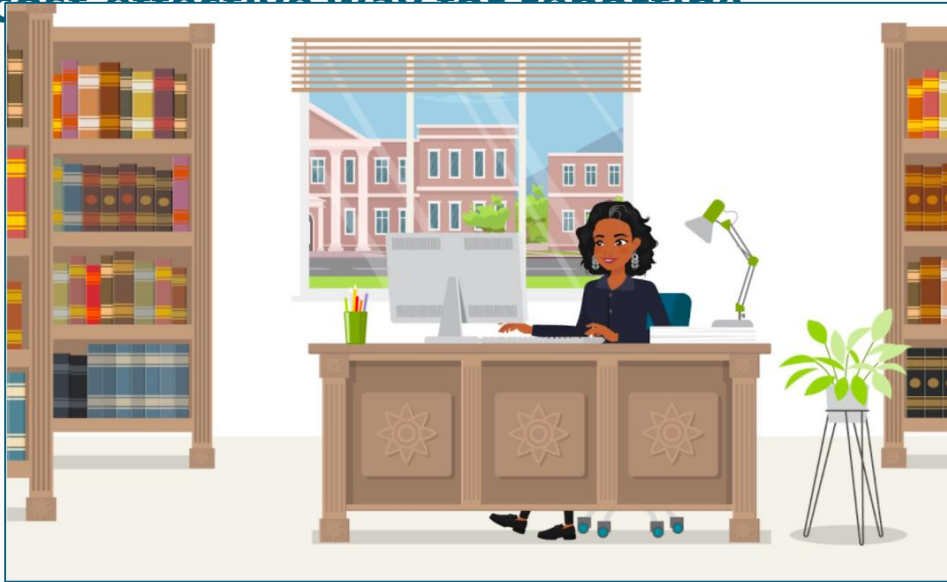**https://orcid.org/0000-0002-3207-0527**

Getting to know you first..

Who is here:

- Research Manager/Administrator
- Representing a university (or research organisation)?
- As a researcher
- Librarian
- Other

Who has an ORCID iD already?

Stay up to date with the research that comes from your scholars and reduce the burden of administering, track impact in a cost-effective way for reporting

✓	**Trustworthy recognition of researchers and research.**
	Better research connections.
	Responsible Reporting
	Improved visibility of outputs.
	Reduced administrative burden and costs
iD	**Interconnected infrastructure.**

To enhance reporting, transparent connections among researchers, organizations and research outputs is the key to metadata quality, reliability and interoperability

- The foundation for responsible reporting is **trustworthy information.**
- The use of open and standardized PIDs infrastructures and services drives principles to practices

Persistent identifiers — what is a PID?

Globally unique

Each PID resolves to one entity, be it a dataset, person, journal article, project or book.

They uniquely identify things

Persistent

The 'P' in PID. Persistent identifiers stick around. They're not reassigned, they're well governed, and technically resilient.

They're stable and reliable

Resolvable by humans and machines

PIDs are easily made into URLs, with landing pages and underlying metadata.

They're Findable, Accessible, Reusable and Interoperable

iD P

Persistent identifiers — why is a PID?

PIDs provide clarity

Exactly which book, person, article do you mean? PIDs prevent confusion and solve this problem well.

They disambiguate

PIDs facilitate sharing, reuse and attribution

Making it easier for researchers to discover and give attribution to authors, organisations and funders in publication & reporting.

They provide a more accurate picture of activity

PIDs enable automation and interoperability

Automation saves time, disseminates information, facilitates trusted exchanges, enables aggregation and removes transcription errors

They save money.

There are PIDs for many entities

In the early days, we talked of "People, Places, Things":

People (authors, editors, curators etc)	ORCID, Scopus ID, ISNI etc	
Places (universities, funders etc)	RINGGOLD, ROR, GRID etc	
Things (articles, datasets, books etc)	DOI, ISSN, ISBN, PMCID etc	

Now we include:

Grants	Crossref Grant IDs	
Projects	RAID	

(and there's a lot more where those came from - shown here are the 'priority PID' entities)

ORCID is a PID

A Few ORCID Facts

- Independent not-for-profit open to participation by all

- Registry launched in 2012

- Sustained by fees from our member organizations

- Guided by our [values and founding principles](#)

- Community-governed by a Board of Directors elected by our members

ORCID (Open Researcher and Contributor Identifier) provides three main services

1. The **ORCID iD**
   A unique, persistent identifier free of charge to researchers
   https://orcid.org/0000-0002-6103-5034

2. An **ORCID record/profile**
   Connected to the ORCID iD, that can include employment, education and research output metadata

1. **Application Programming Interfaces (APIs)**
   To enable the data exchange between ORCID records and member organizations

Your ORCID record can contain..

Researchers & Members can add:

- **Employment affiliations**
- Educational affiliations
- **Funding information**
- **Publications & outputs (works)**
- **Professional activities**
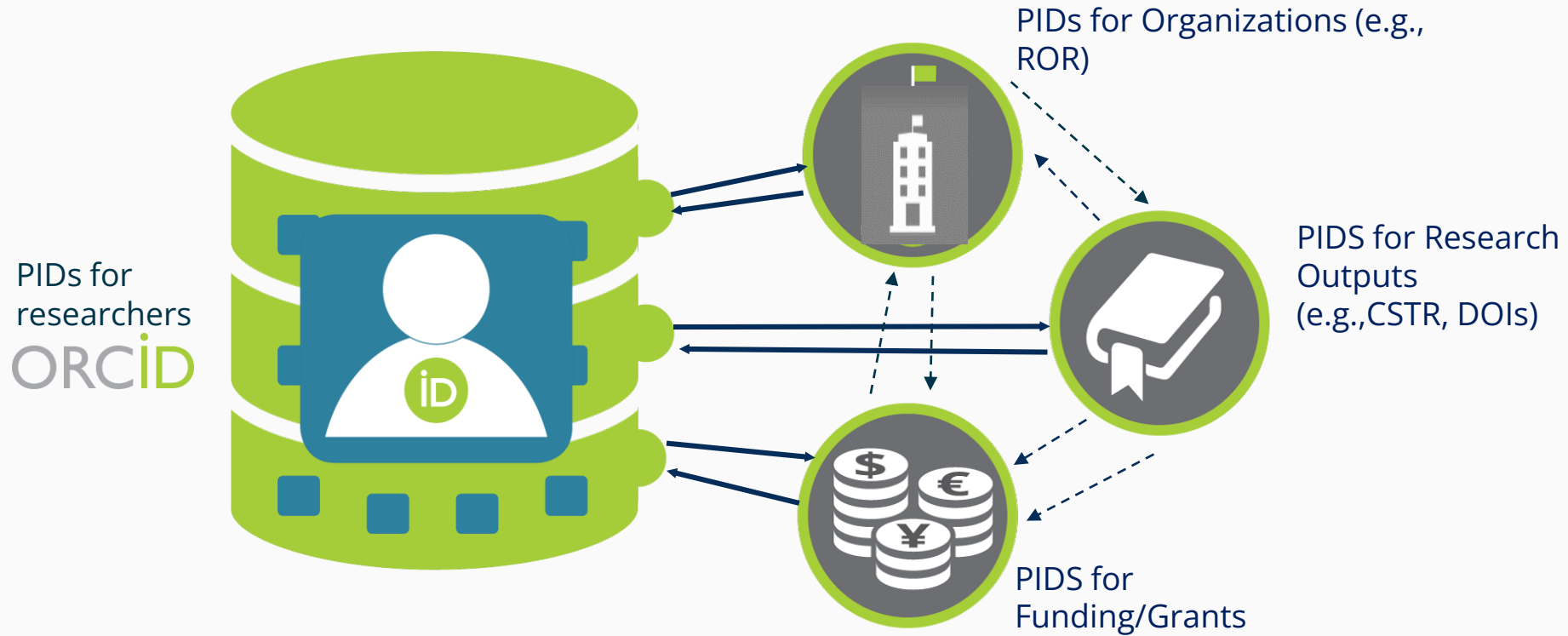- Non-sensitive personal information: keywords, countries and other IDs

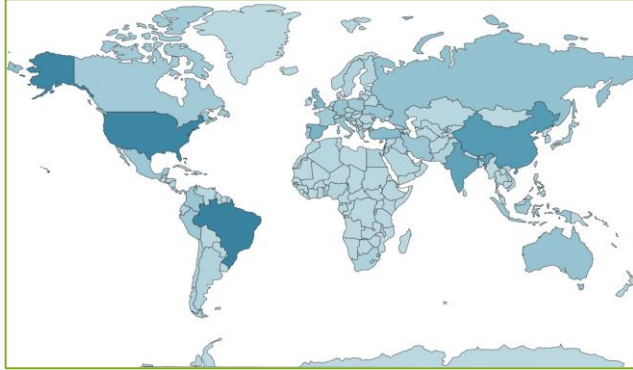**Members can add:**

- Peer Review
- Research Resources

ORCID associates researchers with institutions and research outputs through links to other PIDS

PIDs for Organizations (e.g., ROR)

PIDS for Research Outputs (e.g.,CSTR, DOIs)

PIDs for researchers

ORCID

PIDS for Funding/Grants

We have broad adoption around the world

Users in 250 countries
(That's every country on the planet apart from Niue, Norfolk Island, and Saint Pierre and Miquelon)

Yearly Active Researchers

7.92M

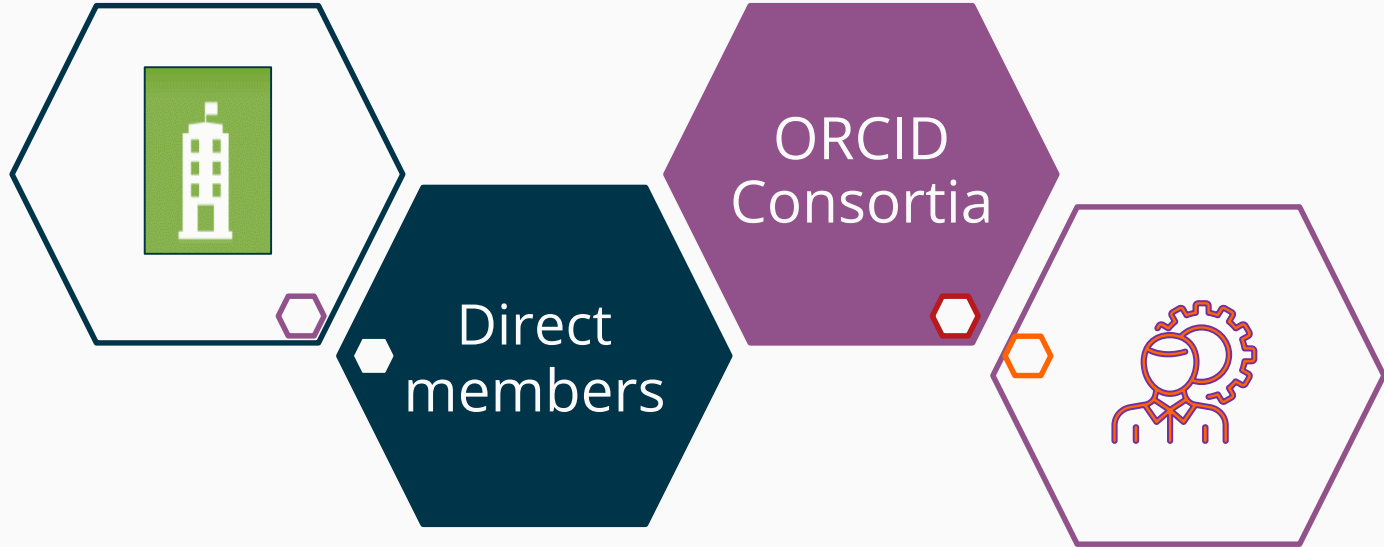**Member organizations in 57 countries**

Organizational Members

1,358

Active Integrated Member Systems

5,349

ORCID member community

Academy of Sciences Malaysia is an ORCID member!

Direct members

ORCID Consortia

ORCID Consortia

- An ORCID consortium is a group of not-for-profit organizations that work together to accelerate integration of ORCID services and resources in national contexts.

- ORCID consortia form communities of practice that share knowledge and resources in a cost effective way across the research ecosystem.
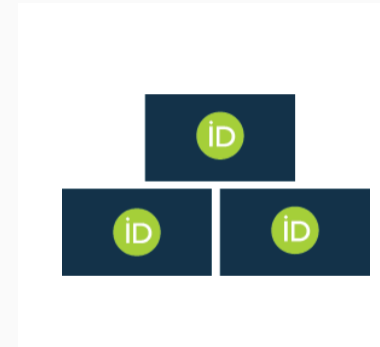
Supporting Reporting in practices via PIDs

How ORCID can help

The **vision**

- Trustworthy recognition of researchers and research.
- Better research connections.
- Responsible Reporting
- Improved visibility of outputs.
- Reduced administrative burden and costs
- Interconnected infrastructure.

The **solution**

- **Disambiguate your researchers with ORCID and relating research information**

- **Use ORCID and other PIDs and their respective APIs to contribute and obtain authoritative metadata about people, places, and outputs so to connect multiple systems**

Implementations

Best practices for organizations when adopting ORCID

✓ Researchers register and connect their **ORCID iDs** in any research workflow

✓ Display authenticated ORCID iDS

✓ **connect (write) data to ORCID records**

✓ **Collect (read) data from ORCID records**

✓ Ensure your system **synchronised** with ORCID

ORCID member organizations add validated information

When an ORCID member updates an ORCID record, the source (provenance) of that update is captured for re-use:

- Research organizations add affiliations

- Publishers add outputs and reviews

- Funders add funding items

These provide **'trust markers'** that can be used to help in decision making.

University of Oxford: Oxford, Oxfordshire, GB

(Said Business School)
Employment

Source: ORCID Integration at the University of Oxford

∨ Review activity for **British journal of Cancer** (1)

Journal, British journal of Cancer
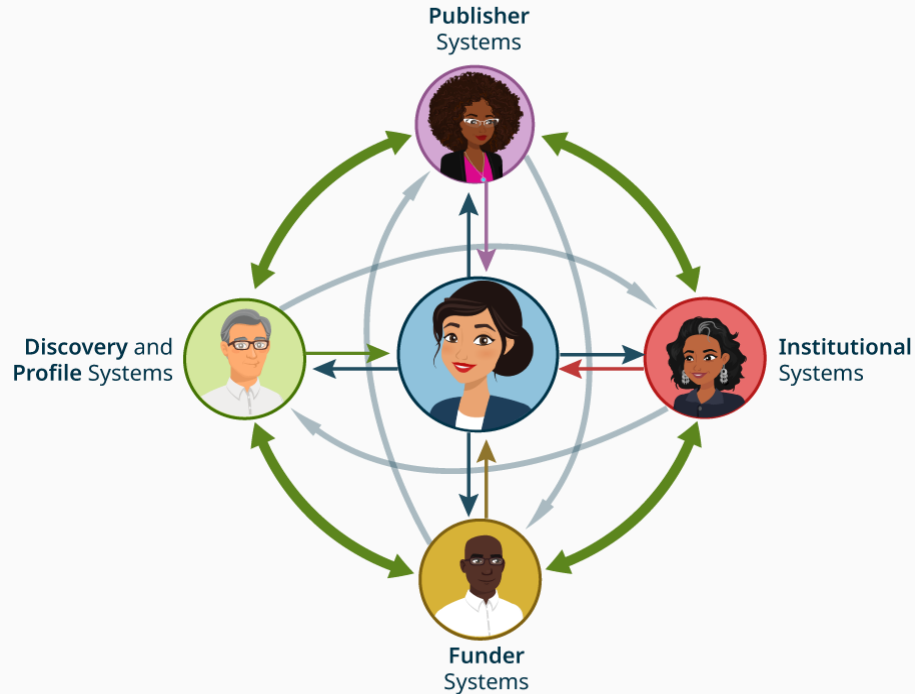ISSN: 1532-1827

Review date: 2020-11-16   **Type:** Review   **Role:** Reviewer

Source: Nature Publishing Group

How it works across different research workflows

For example:

1. Researchers sign into their university's CRIS/RIM system, which adds affiliation data to the ORCID records and reads publication data from ORCID profiles to populate their local profile page

2. Repository systems add research outputs to researchers' ORCID records.

3. Institutional systems adds professional activities to research managers' ORCID records.

Case Studies

Researchers connect ORCID iDs with CRIS

Case study from Imperial College London:

Validated employment added by CRIS system to the ORCID record

Case study from University of Manchester

And also your local profile links!

ORCID iD
https://orcid.org/
0000-0002-9182-291X

Websites & social links >

The University of Manchester profile page
Imperial College London

Other IDs >

Is this you? Sign in to start editing

Name
Daniel Davis

Activities

∨ **Employment** (3)

The University of Manchester: Manchester, GB

Employment

Source: ✓ University of Manchester - PURE

Asserted source - increases trust

iD

Validated research outputs added by CRIS system to the ORCID record

Riding the decarbonisation wave: BHP and its LNG-fuelled vessels

2023-03-28 | Other
OTHER-ID: 945e464a-a25c-4f1e-8aa0-29af779b255f

Show more detail

Source: ✅ Singapore Management University

Building the Keppel Seghers Tuas WTE plant to support sustainable waste management

2022-12-22 | Other
OTHER-ID: 713729b6-a269-45b4-ac51-f0ebb5193ca5

Show more detail

Source: ✅ Singapore Management University

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Researchers connect ORCID iDs with repository

Validated research outputs information are added by repository workflow

Comparison of Single-Session, Neoadjuvant, and Adjuvant Embolization Gamma Knife Radiosurgery for Arteriovenous Malformation

NEUROSURGERY
2023-05 | Journal article
DOI: 10.1227/neu.0000000000002308
URI: 22282913/194262
PMID: 36700732
CONTRIBUTORS: Myung Ji Kim; Hyun Ho Jung; Yong Bae Kim; Jong Hee Chang; Jin Woo Chang; Keun Young Park; Won Seok Chang

Show more detail

Source: ✅ Yonsei University Medical Library

Long-lasting restoration of memory function and hippocampal synaptic plasticity by focused ultrasound in Alzheimer&apos;s disease

BRAIN STIMULATION
2023-05 | Journal article
DOI: 10.1016/j.brs.2023.05.014
URI: 22282913/195426
PMID: 37211337
CONTRIBUTORS: Chanho Kong; Ji Woong Ahn; Sohyun Kim; Ji Young Park; Young Cheol Na; Jin Woo Chang; Seungsoo Chung; Won Seok Chang

Show more detail

Source: ✅ Yonsei University Medical Library

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CONTRIBUTORS: Chanho Kong; Ji Woong Ahn; Sohyun Kim; Ji Young Park; Young Cheol Na; Jin Woo Chang; Seungsoo Chung; Won Seok Chang

Source: ✅ Yonsei University Medical Library

Synchronize research information between your repository and researchers' ORCID records

Yonsei University Health System Space

🏠 YUHSpace

❯ Browsing by Yonsei Author : Chang, Jin Woo
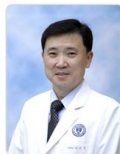
Name: Chang, Jin Woo [장진우]
🆔 http://orcid.org/0000-0002-2717-0101
Department : College of Medicine (의과대학) - Dept. of Neurosurgery (신경외과학교실)
Scopus ID : Scopus (7403975226)

Articles (284)	Thesis & Dissertation (2)

Issue Date	Title	Journal Title
2023	Long-lasting restoration of memory function and hippocampal synaptic plasticity by focused ultrasound in Alzheimer's disease 📄	BRAIN STIMULATION
2023	Comparison of Single-Session, Neoadjuvant, and Adjuvant Embolization Gamma Knife Radiosurgery for Arteriovenous Malformation	NEUROSURGERY

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Validated professional services are added

Case study from Royal Society Te Apārangi - a professional association in New Zealand

The promise of PIDs — less cost, more benefits

It's estimated that ubiquitous use of priority PIDs to provide automation and remove the need to re-key data could save the UK higher education sector £45 million over a five-year period, and Australia A$24m dollars a year.
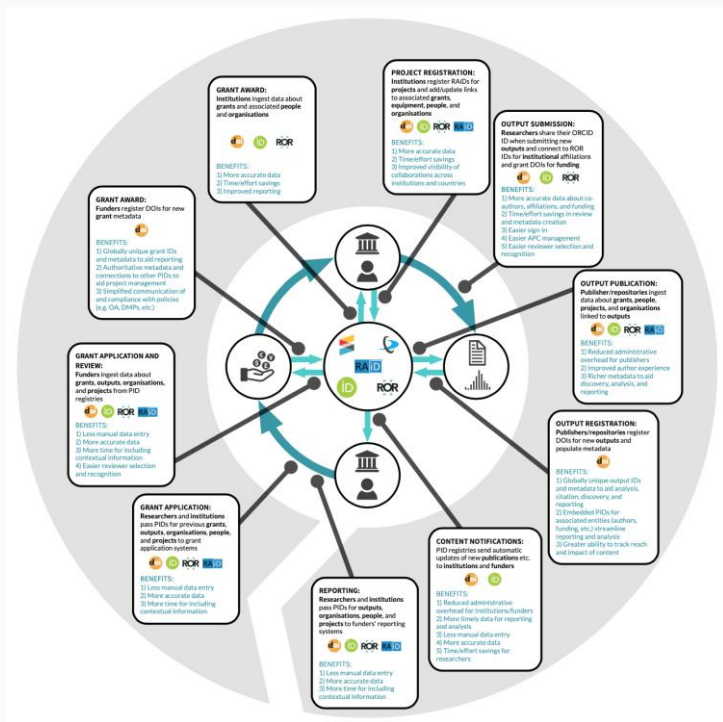
Check the CSP program to know systems you can adopt ORCID immediately!

- ORCID Certified Service Providers provide products and services that meet the ORCID best practices for our members to easily integrate with ORCID, while some non-certified ones also provide ORCID built-in functions.
- **Some certified research management systems**
  - 4Science: DSpace-CRIS
  - Digital Science: Symplectic Elements
  - InfoEd Global
- A few already support ORCID going to be certified
  - Elsevier: Pure
  - Watermark: Faculty Success

iD CERTIFIED Service Provider

- Full list ORCID Certified Service Providers List

Policies

Funders's PID Policies

- Globally, funders started to implementation PID policies in partiaces to foster Open Science
  - Open Access
  - Open Scientific workflows (in funding and review)
  - Open Research Data management

NWO	Netherlands	ORCID is recommended in our Persistent Identifier Strategy	ews/nwo-persistent-identifier-strategy-will-lead-increased-efficiency-and-insight
Senacyt	Panama	Senacyt ORCID endorsement (2020)	https://www.senacyt.gob.pa/la-senacyt-se-convierte-en-miembro-de-la-organizacion-orcid/
SFI	Ireland	ORCID referenced in SFI Calls for proposals – sample provided	https://www.sfi.ie/funding/sfi-policies-and-guidance/open-research/SFI-Open-Access-Policy.V.4-2022.pdf
SNSF	Switzerland	ORCID required for all applicants	https://www.snf.ch/en/IF5X97oZvhzZrgDu/news/you-can-now-create-your-cv-in-the-new-format https://www.snf.ch/en/Zi65otScMDqzyALN/page/funding/documents-downloads/regulations-general-implementation-regulations
UKRI	UK	ORCID is cited in our plans to reduce bureaucracy	https://www.ukri.org/news/ukri-reducing-unnecessary-bureaucracy/

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https://info.orcid.org/community-groups/funders-interest-group/funder-pid-policies/

National PID Strategies

RDA National PID Strategies Guide and Checklist
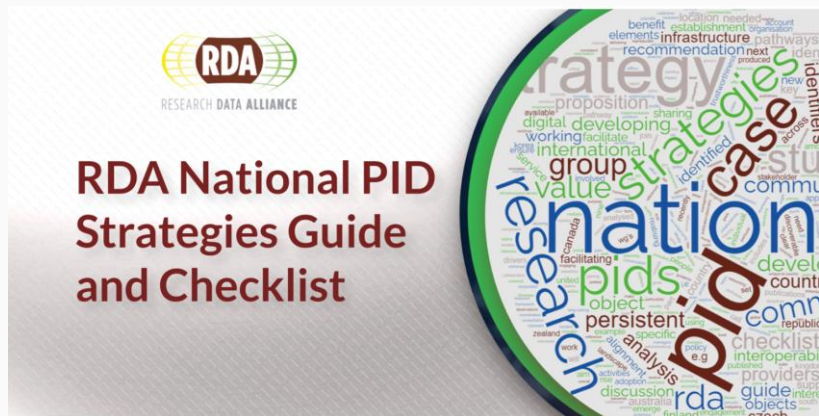
- *"Most countries/regions are in the early phases of developing a national PID strategy. A common feature is that they are not starting at ground zero. In many cases, **the development of a national strategy is evolving from pre-existing PID or research infrastructure governance groups**. They build on existing national PID services such as those offered via ORCID or DOI consortia or national PID providers."*
- At the establishment of the WG, ***National PID Strategies were beginning to emerge in the UK, Australia, the Netherlands, and Canada as a pathway to realising these benefits and an international conversation felt needed.***

Malaysia contexts

Number of records affiliated with ORCID
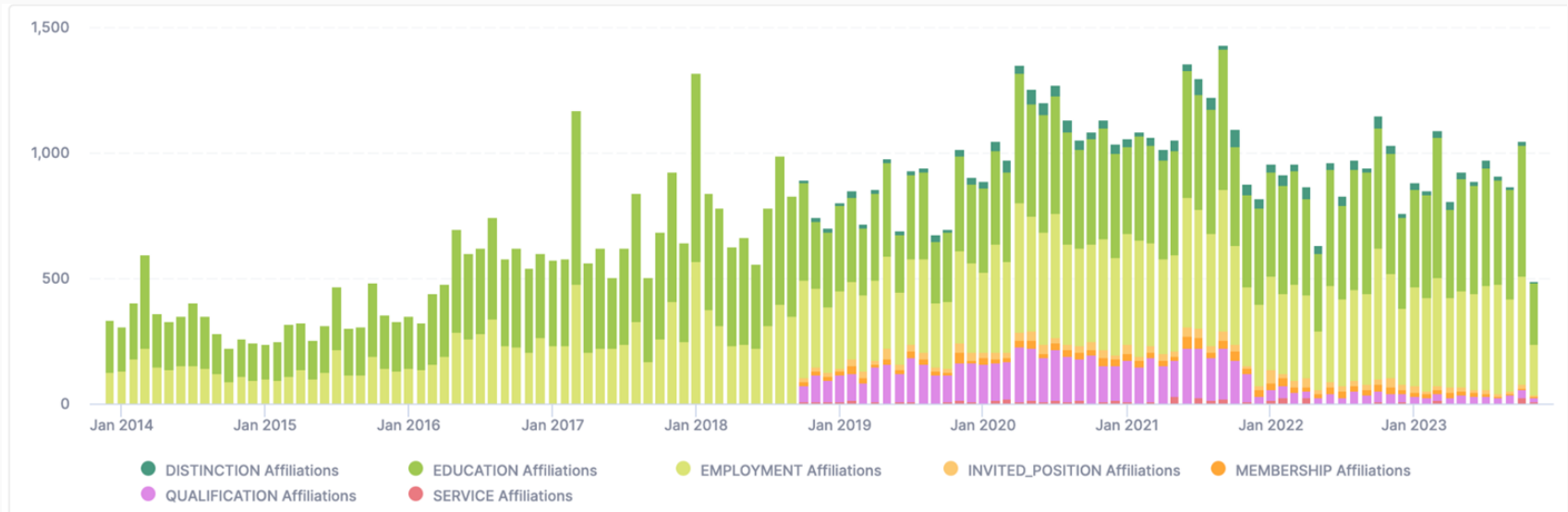
60,131 researchers connected to Malaysia

90,584 affiliations to Malaysia institutions

*Actual number could be higher

Most represented Malaysian institutions in the registry

	Name	Country	Researchers	Affiliations
1	Universiti Putra Malaysia	MY	5,587	7,801
2	Universiti Sains Malaysia	MY	4,834	6,774
3	University of Malaya	MY	4,627	6,612
4	Universiti Teknologi Malaysia	MY	4,279	6,151
5	Universiti Kebangsaan Malaysia	MY	4,160	5,570
6	Universiti Teknologi MARA	MY	3,869	5,466
7	International Islamic University Malaysia	MY	2,158	3,062
8	Universiti Utara Malaysia	MY	1,571	2,068
9	Universiti Malaya	MY	1,427	1,752
10	Universiti Tun Hussein Onn Malaysia	MY	1,029	1,375

As a start, please

- Let us know your organization and the workflow you're interested in adopting ORCID, so that we can we can send you follow up emails and more information about ORCID in your institutions - just fill in the [application form](#)

- Apply for FREE ORCID Sandbox testing to try out the APIs - just fill in this [sandbox application form](#)

Individuals and organizations both play a role

Register for an ORCID ID and connect it with any systems that encountered in the research workflow!

Integrate ORCID into your systems in any research workflow to help you and your researchers maximize the benefits of ORCID!

Individuals

Organizations

" PIDs alone do not provide much value. The value comes through embedding PIDs in other systems, connecting to them, visualizing connections, and leveraging relationships "

Thank you!

Find out more at https://orcid.org

Register at https://orcid.org/register

Email - e.cheng@orcid.org

Skype - j493520@hotmail.com

Twitter @ChihEstelle

WeChat ID j493520

Resources

- ORCID Use Case https://info.orcid.org/category/use-cases/
- ORCID on-demand https://info.orcid.org/orcid-on-demand/
- ORCID events https://info.orcid.org/events/
- ORCID Resources https://info.orcid.org/resources/
- ORCID membership https://info.orcid.org/membership/
- ORCID member directory https://orcid.org/members
- ORCID Blog https://info.orcid.org/category/blog/
- ORCID Statistics https://info.orcid.org/orcid-statistics/
- ORCID workflows https://info.orcid.org/documentation/workflows/

Discussion and Feedback