

# Recognizing research contributions with ORCID

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Connecting Research  
and Researchers



@gabioshka  
@ORCID\_Org

# What is ORCID?

- ORCID is an open, not-for-profit organization run by and for the research community
- We provide researchers with a unique identifier, an ORCID iD, that reliably and clearly connects them with their research contributions, affiliations, funding & facilities
- We provide open tools ([ORCID Registry & API](#)) that enable transparent connections between researchers, and identifiers for their activities & contributions.



**ORCID'S VISION** IS A WORLD WHERE ALL WHO  
PARTICIPATE IN RESEARCH, SCHOLARSHIP, AND  
INNOVATION ARE UNIQUELY IDENTIFIED AND CONNECTED  
TO THEIR CONTRIBUTIONS AND AFFILIATIONS ACROSS TIME,  
DISCIPLINES, AND BORDERS.

*Together, we can make this vision a reality*

# Why ORCID?

ORCID ID	First Name	Last Name
0000-0002-7296-8243	Anna	Nowak
0000-0002-7593-8277	Anna	Nowak
0000-0002-1830-5983	Anna	Nowak
0000-0002-4660-7356	Anna	Nowak
0000-0002-5392-7681	Anna	Nowak
0000-0001-7166-251X	Anna	Nowak
0000-0001-8752-8630	Anna	Nowak
0000-0003-1281-0441	Anna	Nowak
0000-0003-1741-8692	Anna	Nowak
0000-0003-2952-904X	Anna	Nowak
0000-0003-4048-7610	Anna	Nowak
0000-0001-9158-1055	Anna	Nowak
0000-0001-5408-2089	Anna	Nowak
0000-0002-3294-0342	Anna	Nowak
0000-0002-4287-6751	Anna	Nowak

- Names are not unique
- Researchers are mobile
- Institutions must increasingly recognize and demonstrate the impact of all types of research contributions
- Research increasingly global and collaborative

## Evidence of Institutional Value

Examples of time/staff savings achieved by implementing ORCID from around the world



**UK:** 0.2 – 0.4 FTEs per institution<sup>1</sup>

**Portugal:** 100,000 researcher hours per year<sup>2</sup>

**Australia:** 15-30 minutes per grant application<sup>3</sup>

1. Jisc/ARMA Institutional ORCID Implementation and Cost Benefit Analysis Report 2016  
2. Célia Laranjeira, FCT - Fundação para a Ciência e a Tecnologia 2017  
3. Australian Research Council governance meeting, September 2016

*"Having ORCID IDs for most of our researchers has helped in providing authoritative accounts in our various databases, ensuring accuracy in reviewer identities, and helping editors find reviewers and check expertise."*

*—Brooks Hanson, Executive Vice President, Science, American Geophysical Union*

# Open Infrastructure in Europe

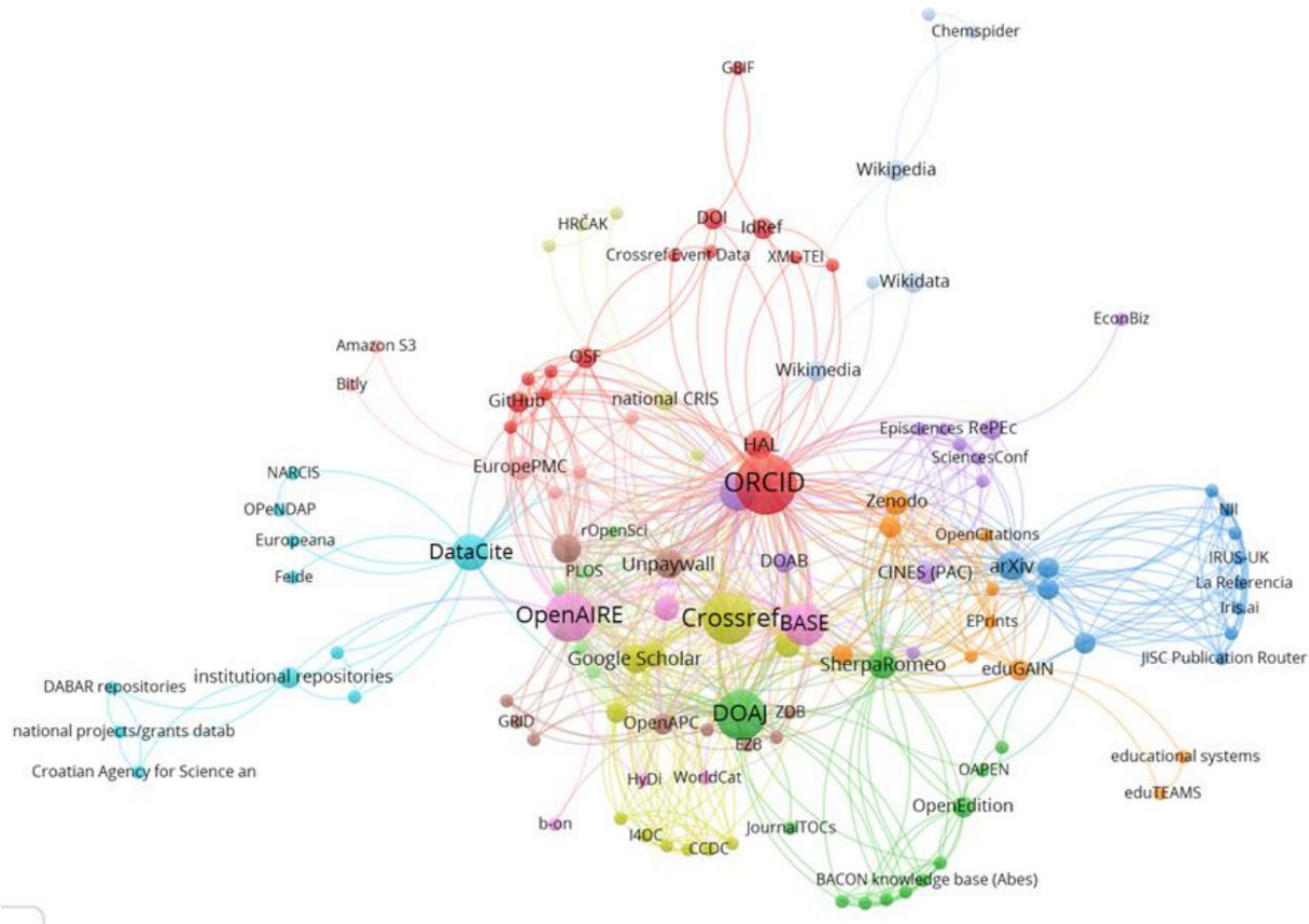


Figure30. Network visualization of tools and services that OSIs interoperate with



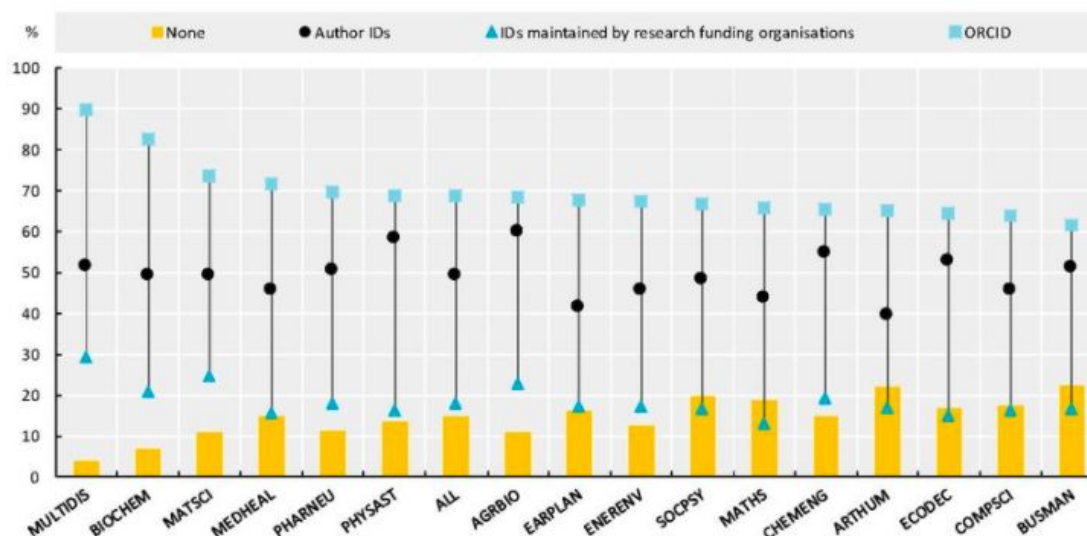
Ficarra, Victoria, Fosci, Mattia, Chiarelli, Andrea, Kramer, Bianca, & Proudman, Vanessa. (2020, October 30). Scoping the Open Science Infrastructure Landscape in Europe. Zenodo.

<http://doi.org/10.5281/zenodo.4153809>



# Digital identity on a global scale

- OECD reports that over 60% of researchers in each field reported using their ORCID iD as a digital identity in their research
- Over 50% of researchers in each country reported using ORCID IDs

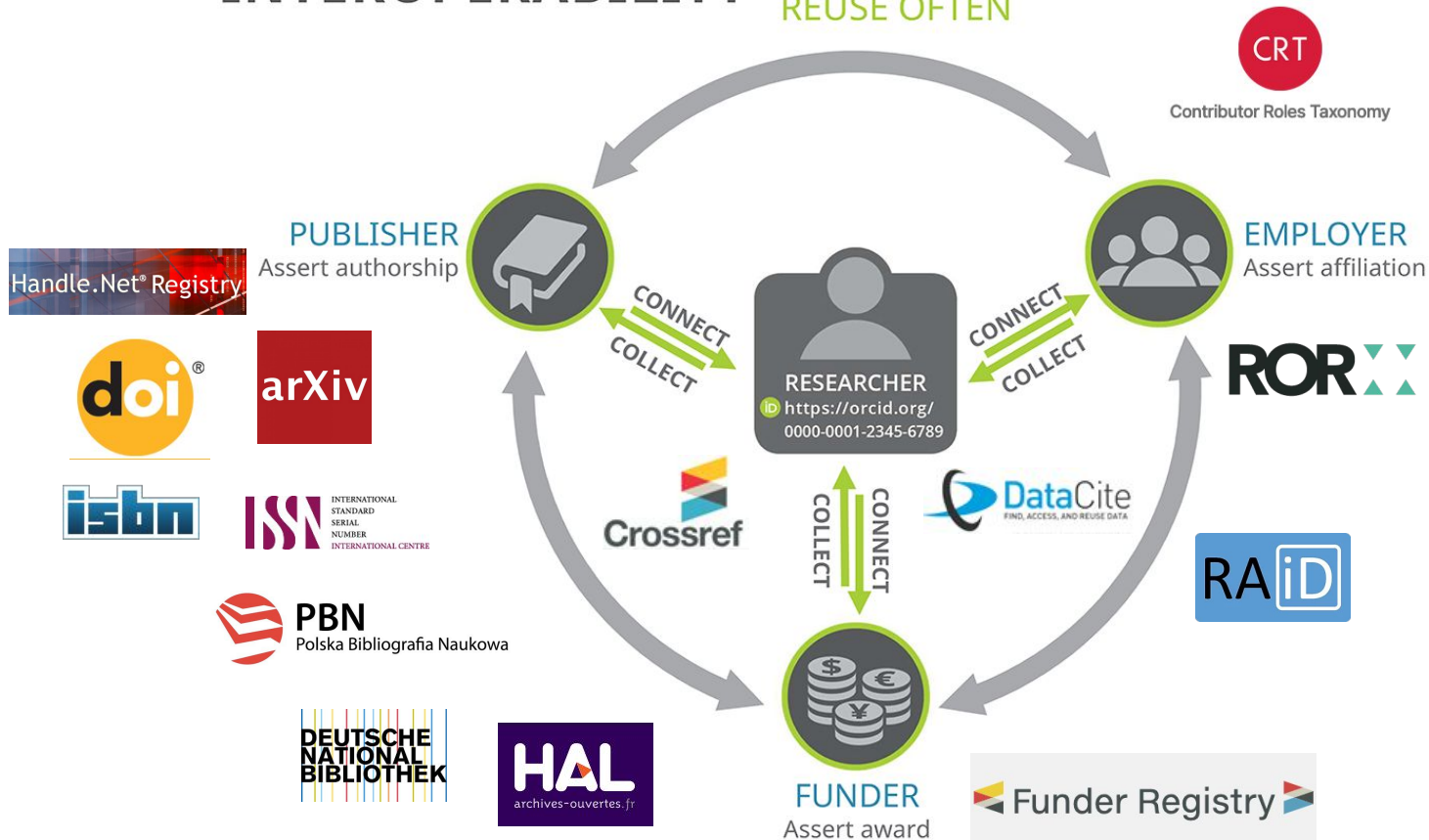


*Note:* Weighted estimates based on sampling weights adjusted for nonresponse. Less than 2.5 percent of authors in each field reported using other types of identifiers.

*Source:* OECD International Survey of Scientific Authors (ISSA), 2018. <http://oe.cd/issa>.

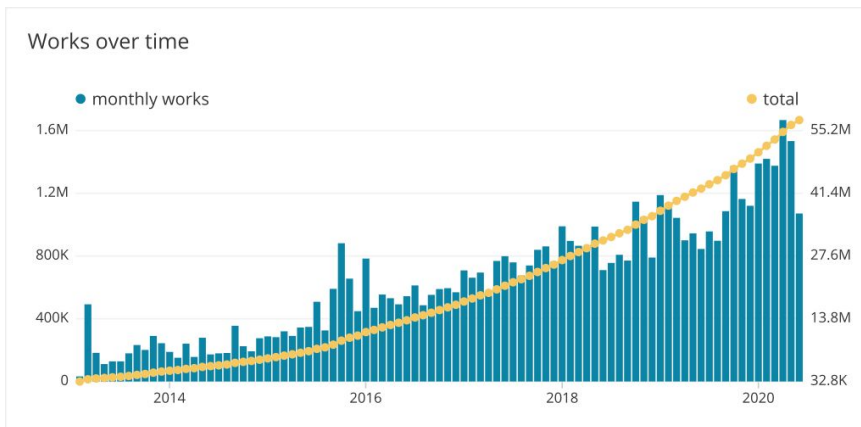
# Our interoperability vision

**INTEROPERABILITY** ENTER ONCE  
REUSE OFTEN



# Our community

- 10M+ iDs
  - 1000+ institutional members
  - 24 regional consortia (12 in Europe)
  - 900+ member integrations
  - More than 50 countries
- ORCID iDs 10,508,481
  - # of affiliation items 11,186,893
  - # of works 66,757,788
  - # of funding items 962,703
  - # of peer-review items 3,194,953
  - # of person identifiers 1,877,700



<https://orcid.org/members>  
<https://orcid.org/statistics>



# ORCID adoption in Poland

Records with email domain

152,498

## Institutional members

[Cracow University of Economics](#)

[Medical University of Gdansk](#)

[Medical University of Lodz](#)

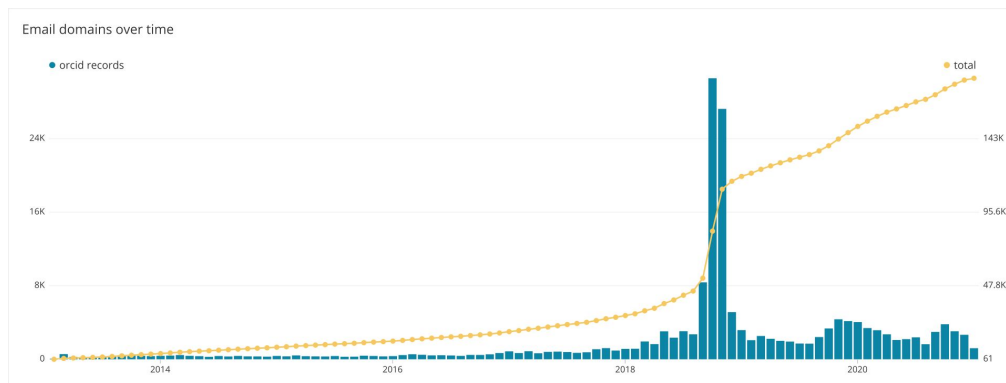
[Medical University of Lublin](#)

[Medical University of Silesia](#)

[National Information Processing Institute](#)

[West Pomeranian University of Technology](#)

[Wroclaw Medical University](#)

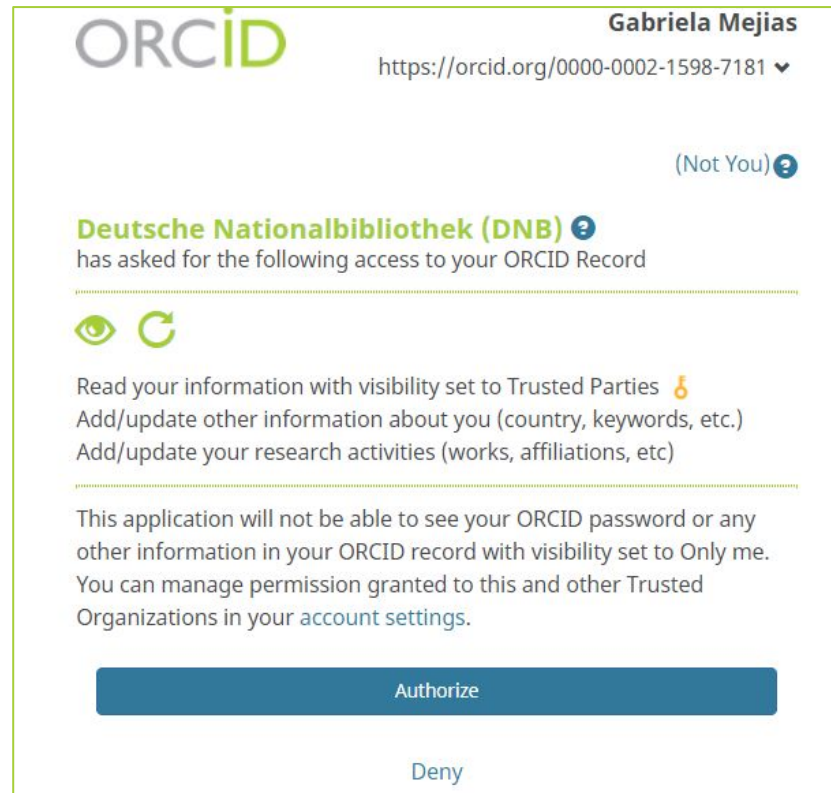


## Member integrations

Polish Scholar Bibliography (PBN)

Medical University of Lodz - PublicUM



# User consent = authentication



- Ensuring that the iD is transmitted correctly
- Avoid errors when inserting the iD in the metadata (typographical errors, reconciliation errors, etc.)
- Be aware of what use permissions are granted

# ORCID privacy

By default, who should be able to see information added to your ORCID Record?






- ☒  **Everyone** (87% of users choose this)
- ☐  **Trusted parties** (5% of users choose this)
- ☐  **Only me** (8% of users choose this)

- Email addresses are private by default



- Privacy control of the registry for each entry individually
- In accordance with GDPR and privacy acts
- Public Data File: released annually during OA Week (CC0)

## Trusted organizations

Trusted organization	Approval date	Access type	
CAPES <a href="https://sadmin.capes.gov.br">https://sadmin.capes.gov.br</a>	2019-08-14	Read your information with visibility set to Trusted Parties Add/update your research activities (works, affiliations, etc) Get your ORCID iD	
Clarivate <a href="https://www.clarivate.com/">https://www.clarivate.com/</a>	2019-07-09	Read your information with visibility set to Trusted Parties	
CNPq - Conselho Nacional de Desenvolvimento Científico e Tecnológico (The National Council for Scientific and Technological Development) <a href="http://www.cnpq.br/">http://www.cnpq.br/</a>	2019-07-24	Read your information with visibility set to Trusted Parties Add/update your research activities (works, affiliations, etc) Get your ORCID iD	
Copernicus.org <a href="http://www.copernicus.org">http://www.copernicus.org</a>	2019-01-23	Get your ORCID iD	
Crossref <a href="https://doi.crossref.org/">https://doi.crossref.org/</a>	2019-04-12	Read your information with visibility set to Trusted Parties Add/update your research activities (works, affiliations, etc)	

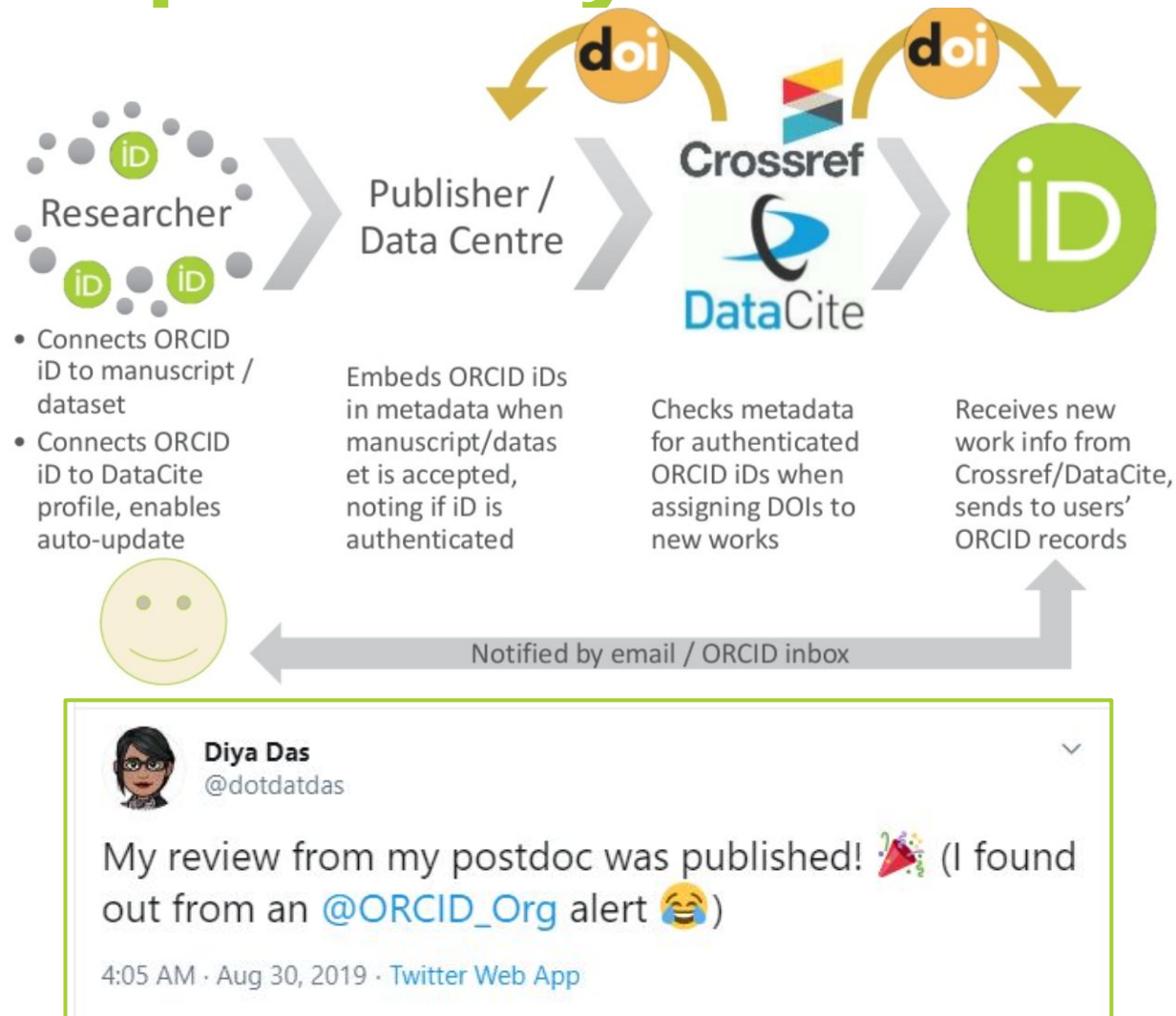


Trusted organizations: <https://support.orcid.org/hc/en-us/articles/360006973893-Trusted-organizations>

GDPR and ORCID: <https://support.orcid.org/hc/en-us/articles/360006895834-ORCID-GDPR-and-your-rights-as-a-user>

Public Data File: <https://orcid.org/content/orcid-public-data-file-use-policy>

# Interoperability in action






# ORCID APIs

→ Sandbox (Testing)

<https://orcid.org/content/register-client-application-sandbox>

→ Production (Live Registry)

<https://orcid.org/content/register-client-application-production-trusted-party>

	<a href="#">Public API</a> Freely available	<ul style="list-style-type: none"><li>•Authenticate: Get a user's authenticated ORCID iD</li><li>•Read (Public): Search/retrieve public data</li><li>•Create: Facilitate creation of new ORCID records (via on-demand process)</li></ul>
	Member API - Basic Basic membership	<ul style="list-style-type: none"><li>•Read (Limited): Search/retrieve limited-access data</li><li>•Add: Post new items to a record</li><li>•Update: Edit or delete items you previously added</li></ul>
	Member API - Premium Premium & Consortium membership	<ul style="list-style-type: none"><li>•Webhooks: Receive notifications of updates</li><li>•Monthly reports (including email stats)</li><li>•Access to monthly public data file</li></ul>



<https://members.orcid.org/api>

<https://orcid.org/about/membership/comparison>

# Contributions and their identifiers

```
<xs:restriction base="xs:string">
  <xs:enumeration value="artistic-performance" />
  <xs:enumeration value="book-chapter" />
  <xs:enumeration value="book-review" />
  <xs:enumeration value="book" />
  <xs:enumeration value="conference-abstract" />
  <xs:enumeration value="conference-paper" />
  <xs:enumeration value="conference-poster" />
  <xs:enumeration value="data-set" />
  <xs:enumeration value="dictionary-entry" />
  <xs:enumeration value="disclosure" />
  <xs:enumeration value="dissertation" />
  <xs:enumeration value="edited-book" />
  <xs:enumeration value="encyclopedia-entry" />
  <xs:enumeration value="invention" />
  <xs:enumeration value="journal-article" />
  <xs:enumeration value="journal-issue" />
  <xs:enumeration value="lecture-speech" />
  <xs:enumeration value="license" />
  <xs:enumeration value="magazine-article" />
  <xs:enumeration value="manual" />
  <xs:enumeration value="newsletter-article" />
  <xs:enumeration value="newspaper-article" />
  <xs:enumeration value="online-resource" />
  <xs:enumeration value="other" />
  <xs:enumeration value="patent" />
  <xs:enumeration value="registered-copyright" />
  <xs:enumeration value="report" />
  <xs:enumeration value="research-technique" />
  <xs:enumeration value="research-tool" />
  <xs:enumeration value="spin-off-company" />
  <xs:enumeration value="standards-and-policy" />
  <xs:enumeration value="supervised-student-publication" />
  <xs:enumeration value="technical-standard" />
  <xs:enumeration value="test" />
  <xs:enumeration value="translation" />
  <xs:enumeration value="trademark" />
  <xs:enumeration value="website" />
  <xs:enumeration value="working-paper" />
```

## ORCID identifier types

Name	Description
agr	agr: Agricola
ark	ark: Archival Resource Key Identifier
arxiv	arxiv: ArXiv
asin	asin: Amazon Standard Identification Number
asin-tld	asin-tld: ASIN top-level domain
authenticusid	authenticusid: AuthenticusID
bibcode	Bibcode
cha	cha: Chinese Biological Abstracts
cienciaiul	cienciaiul: Ciência-IUL Identifier
cit	cit: CiteSeer
ctx	ctx: CiteExplore submission
dnb	dnb: German National Library identifier
doi	doi: Digital object identifier
eid	Scopus Identifier
ethos	ethos: ETHOS Persistent ID
grant_number	grant number
hal	hal: Hyper Articles en Ligne
handle	handle: Handle
hir	hir: NHS Evidence
isbn	isbn: International Standard Book Number
issn	issn: International Standard Serial Number. Includes print and electronic ISSN.
jfm	jfm: Jahrbuch über die Fortschritte der Mathematik
jstor	jstor: JSTOR abstract
kuid	kuid: KoreaMed Unique Identifier
lccn	lccn: Library of Congress Control Number
lensid	lensid: Lens ID
mr	mr: Mathematical Reviews
oclc	oclc: Online Computer Library Center
ol	ol: Open Library
osti	osti: Office of Scientific and Technical Information
other-id	Other identifier type
pat	Patent number
pdb	pdb: Protein Data Bank identifier
pmc	pmc: PubMed Central article number
pmid	pmid: PubMed Unique Identifier
proposal-id	proposal-id
rfe	rfe: Request for Comments
rrid	rrid: Research Resource Identifier
source-work-id	Non-standard ID from work data source

work type	count of all work type	percentage
JOURNAL_ARTICLE	46,740,361	81.36
CONFERENCE_PAPER	4,763,039	8.29
BOOK_CHAPTER	1,512,046	2.63
BOOK	1,354,504	2.36
OTHER	1,180,979	2.06
CONFERENCE_ABSTRACT	319,828	0.56

*View all 43 rows*



<https://members.orcid.org/api/resources/work-types>  
<https://pub.orcid.org/v2.0/identifiers>



# Interoperability in action: affiliations

▼ Employment (1)	▼ Employment (5) <span>Sort</span>
<p>Technical University of Denmark: Kgs. Lyngby, DK Employment</p> <hr/> <p><b>Organization identifiers</b> GRID: <a href="#">grid.5170.3</a> Technical University of Denmark: Kongens Lyngby, Hovedstaden, DK <a href="http://www.dtu.dk/english">http://www.dtu.dk/english</a> <b>Other organization identifiers provided by GRID</b> FUNDREF: 501100005192 (preferred), 501100005191, 501100006262 ISNI: 0000 0001 2181 8870 ORGRF: 144200 ROR: <a href="https://ror.org/04qtj9h94">https://ror.org/04qtj9h94</a> (preferred) WIKIDATA: Q1269766 (preferred), Q2118480, Q2570097, Q56612529 WIKIPEDIA_URL: <a href="http://en.wikipedia.org/wiki/Technical_University_of_Denmark">http://en.wikipedia.org/wiki/Technical_University_of_Denmark</a> (preferred)</p> <p><b>Added</b> 2017-06-29</p> <p><b>Last modified</b> 2018-04-04</p> <p><b>Source:</b> Technical University of Denmark Orbit</p>	<p>TU Wien: Vienna, AT Employment</p> <hr/> <p><b>Organization identifiers</b> Ringgold: 27259 Technische Universität Wien: Wien, Wien, AT <b>Other organization identifiers provided by Ringgold</b> ISNI: 0000000419370669 OFR: <a href="http://dx.doi.org/10.13039/501100004729">http://dx.doi.org/10.13039/501100004729</a></p> <p><b>Added</b> 2019-10-02</p> <p><b>Last modified</b> 2019-10-11</p> <p><b>Source:</b> TU Wien <span>★ Preferred source</span></p>
▼ Employment (6) <span>Sort</span>	
<p>Tel Aviv University: Tel Aviv, IL 2017-12-05 to present   (Information Technology and Computing Division) Employment</p> <hr/> <p><b>Organization identifiers</b> GRID: <a href="#">grid.12136.37</a> Tel Aviv University: Tel Aviv, IL <a href="http://english.tau.ac.il/">http://english.tau.ac.il/</a> <b>Other organization identifiers provided by GRID</b> FUNDREF: 501100004375 (preferred), 501100004237, 501100005310, 501100006099, 501100007539 ISNI: 0000 0004 1937 0546 ORGRF: 161402 ROR: <a href="https://ror.org/04mhgzx49">https://ror.org/04mhgzx49</a> (preferred) WIKIDATA: Q319239 (preferred), Q56612885 WIKIPEDIA_URL: <a href="http://en.wikipedia.org/wiki/Tel_Aviv_University">http://en.wikipedia.org/wiki/Tel_Aviv_University</a> (preferred)</p> <p><b>Added</b> 2019-06-19</p> <p><b>Last modified</b> 2019-06-19</p> <p><b>Source:</b> Tel Aviv University <span>★ Preferred source</span></p>	

# Interoperability in action: works

Prevention of pea lodging by intercropping barley with peas at different nitrogen fertilization levels

Field Crops Research

2013 | journal-article

DOI: [10.1016/j.fcr.2013.04.023](https://doi.org/10.1016/j.fcr.2013.04.023)

EID: 2-s2.0-84878518506

**Source:** Piotr Sobkowicz *via* Scopus - Elsevier

★ Preferred source

Ciało i cielesność w świecie wirtualnym na przykładzie reklamy, sztuki i mediów społecznościowych (wybrane problemy)

Logos i Ethos

2020 | journal-article

SOURCE-WORK-ID: 5f8827952467f013ef7190c5

DOI: [10.15633/lie.3580](https://doi.org/10.15633/lie.3580)

**Source:** National Information Processing Institute

★ Preferred source

Biblioteczne przewodniki online - szansa na zwiększenie umiejętności użytkowników Biblioteki Uniwersytetu Medycznego w Łodzi

Forum Bibliotek Medycznych

2010 | journal-article

OTHER-ID: 0000034269

SOURCE-WORK-ID: AML114b0329eba2496294043df64f83c6d7

HANDLE: [umed-prod-2:AML114b0329eba2496294043df64f83c6d7](https://hdl.handle.net/umed-prod-2:AML114b0329eba2496294043df64f83c6d7)

**Source:** Medical University of Lodz, Poland. PublicUM

★ Preferred source

# Benefits for researchers

## RESEARCHERS

- Improve recognition and discoverability of their research
- Spend more time doing research, less time managing it
- Control and manage a trusted and easily shareable record of their research activities and affiliations – for free



Mike T@ylor + GB EU  
@MikeTaylor

Replying to @SV\_POW

I'm deeply impressed that my @ORCID\_Org record updated itself within an hour or so of the paper being published: [orcid.org/my-orcid](https://orcid.org/my-orcid)

Fine collaboration there between @thePeerJ and ORCID!

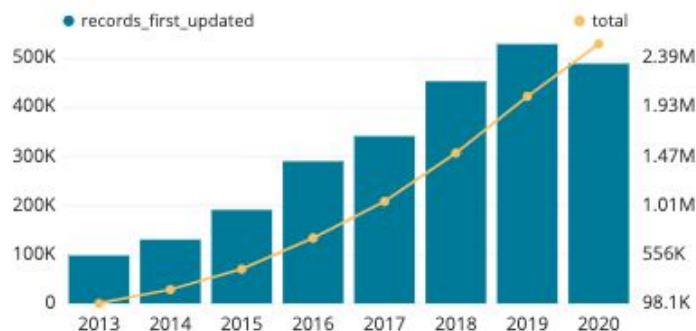
iDs updated by a member

**2,529,029**

iDs updated by a member

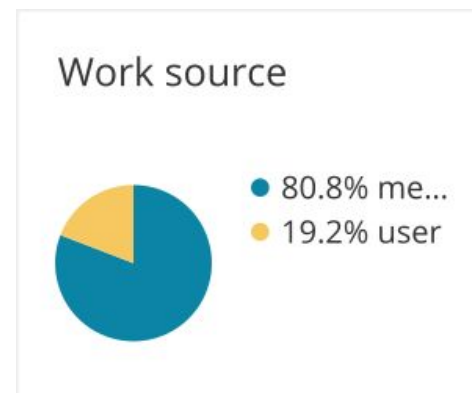
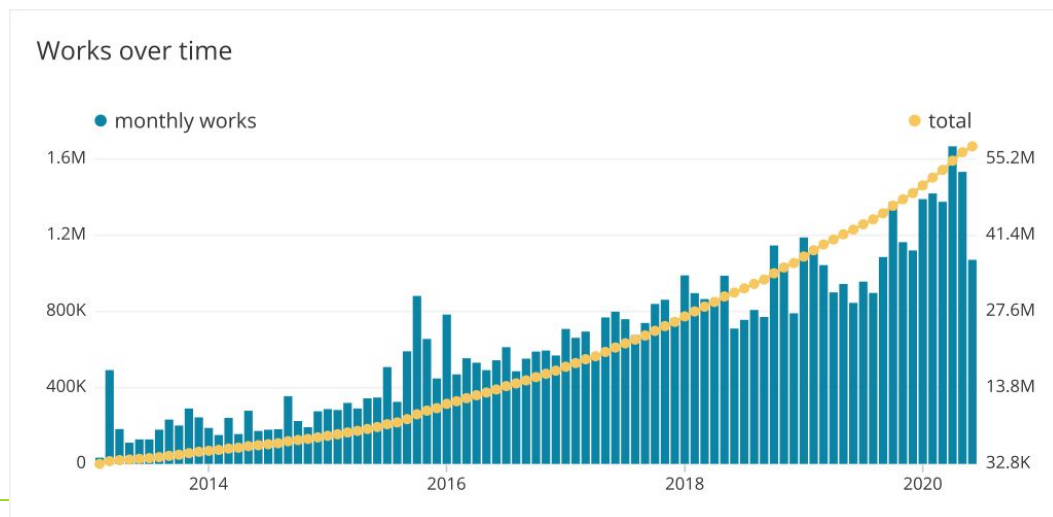
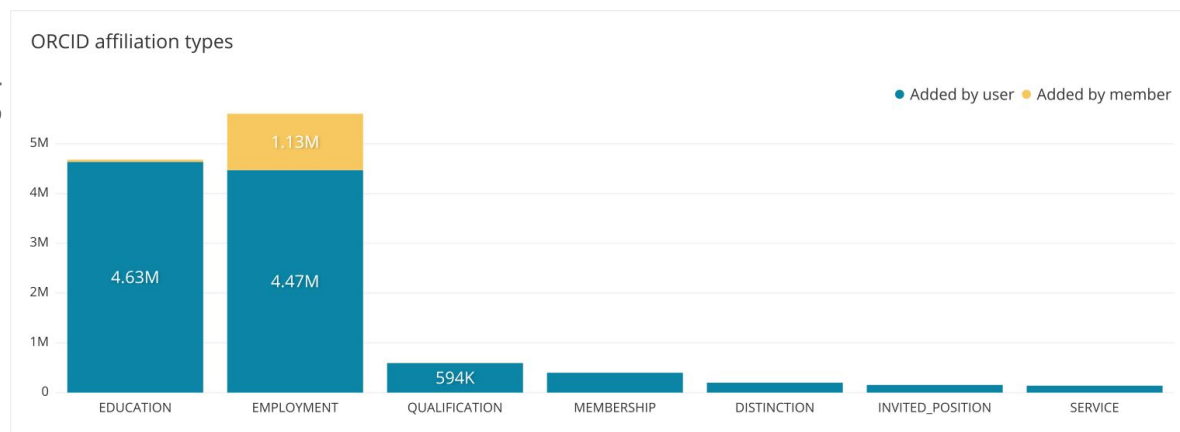
**24.8%**

iDs updated by members



# Benefits for institutions

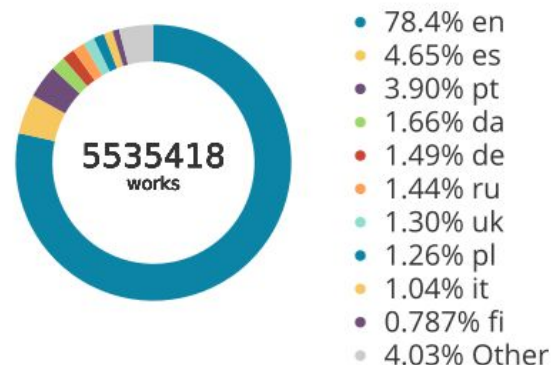
- Disambiguation
- Increased visibility (org as source name)
- Automate data exchange
- Better reporting
- Community of practice



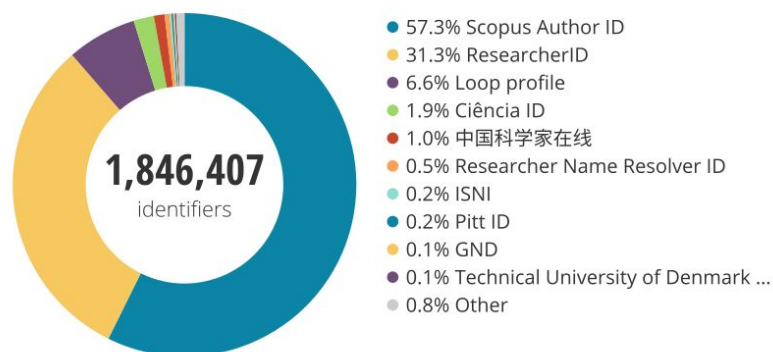
# Benefits for the community

- Increased transparency
- Better and reusable metadata
- Robust research infrastructure

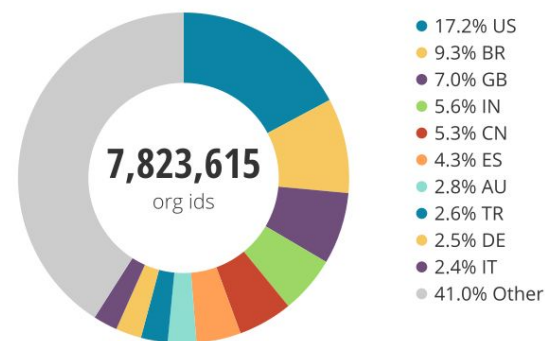
Metadata language



Person identifier types

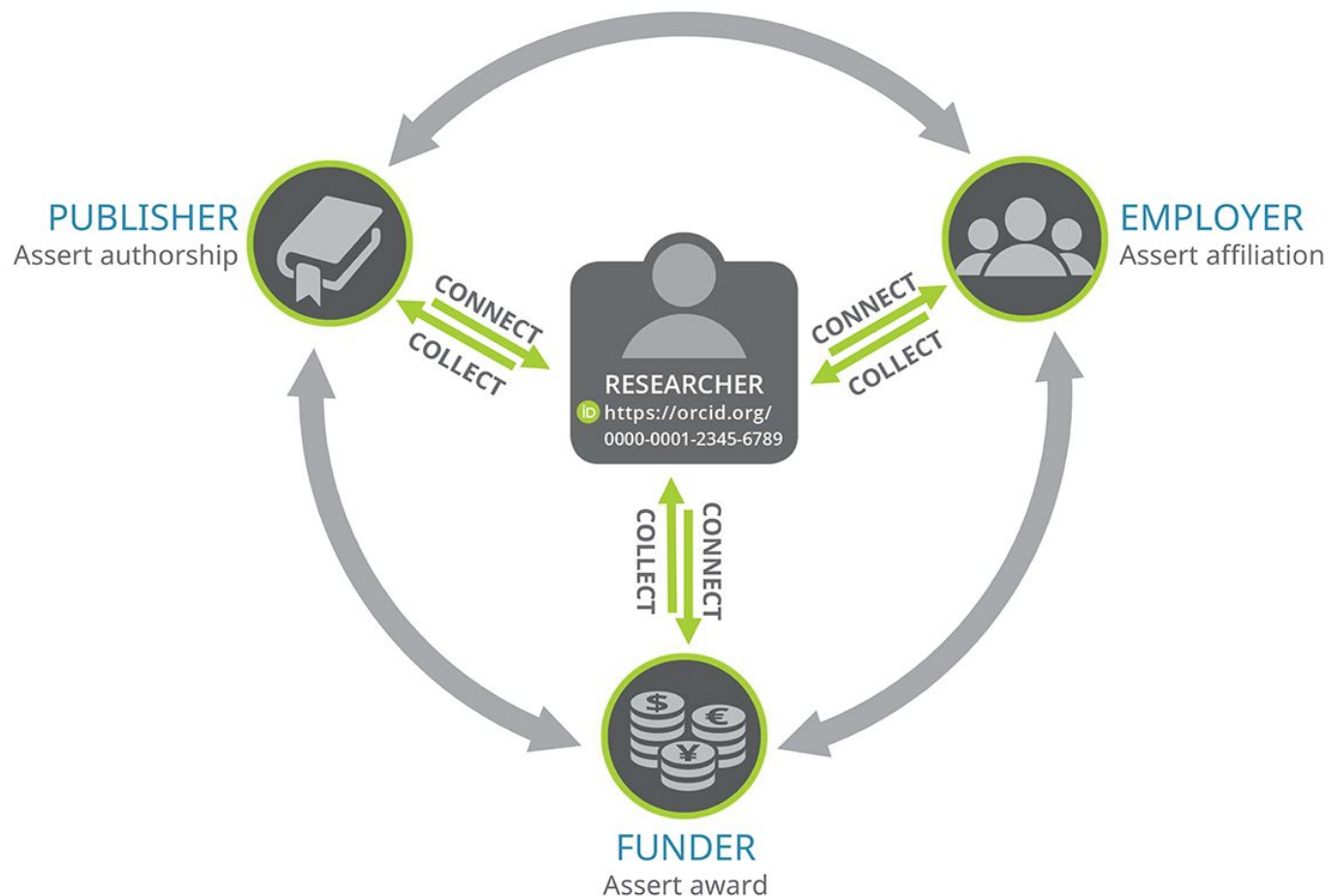


Affiliation countries



# Join us!

**INTEROPERABILITY** ENTER ONCE  
REUSE OFTEN



<https://orcid.org/about/membership>  
<https://orcid.org/content/orcid-consortia>



# Thank you!



Find out more at <https://members.orcid.org>

Support: <https://support.orcid.org/hc/en-us/requests/new>

Email [g.mejias@orcid.org](mailto:g.mejias@orcid.org)

Twitter [@gabioshka](#) / [@ORCID\\_org](#)



# THANK YOU!



(The ORCID Team engaging with persistence in Stonehenge)

Find out more at <https://members.orcid.org>

Email [g.mejias@orcid.org](mailto:g.mejias@orcid.org)

Twitter [@ORCID\\_Org](#) / [@gabioshka](#)