

A PID for everything

Helena Cousijn 21-10-2019

What is a persistent identifier?

persistent identifier

an organization made a promise to keep it alive globally unique string

(known as PIDs to their friends)

How PIDs work (in a nutshell)

PIDs are typically backed by a **registry** that indicates what item is being identified. Different kinds of PIDs have varying degrees of descriptive metadata.

PIDs today are often expressed as **URLs**, and the registry indicates where that URL should ultimately resolve. That PID will always point to the correct item even if the item's location changes.

What kind of stuff gets a PID?

Journal articles. via Crossref (https://crossref.org)

People. via ORCID. (https://orcid.org)

Data, software, and other stuff. via DataCite. (https://datacite.org)

Research organizations. via ROR. (https://ror.org)

And others.

For the real answer see FREYA deliverable 3.1 : https://www.project-freya.eu/en/deliverables/freya_d3-1.pdf

... but what can PIDs *do*?

PIDs Disambiguate

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🚔 Print view 🕑

Also known as RH Dasler, RL Dasler, RL Howard, Robin Howard

Other IDs ResearcherID: N-9035-2013

PIDs Link

References

Abd Ellah and Abouelmagd, 2016 N.H. Abd Ellah, S.A. Abouelmagd Surface functionalization of polymeric nanoparticles for tumor drug delivery: approaches and challenges Expert Opin. Drug Deliv., 1–14 (2016), <u>10.1080/17425247.2016.1213238</u> Google Scholar

Abouelmagd et al., 2016 S.A. Abouelmagd, F. Meng, B.-K. Kim, H. Hyun, Y. Yeo Tannic acid-mediated surface functionalization of polymeric nanoparticles ACS Biomater. Sci. Eng. (2016), p. 6b00497, 10.1021/acsbiomaterials.6b004 Google Scholar

Ahmed et al., 2016 S. Ahmed, S. Annu, S.S. Yudha Biosynthesis of gold nanoparticles: a green approach J. Photochem. Photobiol. B: Biol., 161 (2016), pp. 141-153, 10.1016/j.jphotobiol.2016.04.034 Article Download PDF View Record in Scopus Google Scholar

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PIDs make research FAIR



• (meta)data are assigned a globally unique and persistent identifier



(meta)data are retrievable via an identifier using a standardized protocol
metadata are accessible, even when the data are no longer available



- (meta)data use a formal, accessible, shared, and broadly applicable language knowledge representation.
- (meta)data include qualified references to other (meta)data

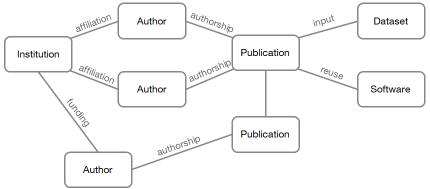


- meta(data) are described with a plurality of accurate & relevant attributes
- (meta)data are associated with detailed provenance

Good start, but we want more

By connecting everything, you can see the true power of PIDs

Researchers, institutions, publications, datasets, and more are already interconnected in real life, and this can be reflected and tracked through PIDs



And what can you do?

Step 1: Give PIDs to your stuff

It's hard to connect things when we don't know they exist.

So get an ORCID iD for yourself \rightarrow <u>https://orcid.org</u>

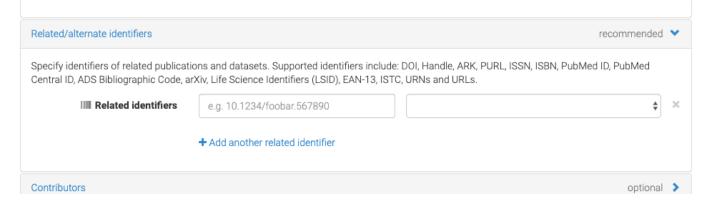
Give DOIs to your data and software \rightarrow <u>https://datacite.org</u>, <u>https://guides.github.com/activities/citable-code/</u>

Put your reports and white papers into a repository that gives out PIDs \rightarrow <u>https://repositoryfinder.datacite.org</u> or your institutional repository

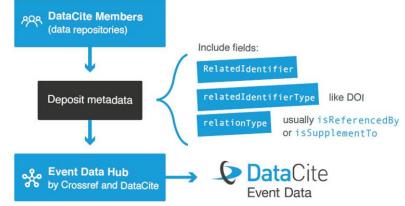
Step 2: Tell your PIDs about your other PIDs

Include relevant related PIDs in the metadata for your software, dataset, and paper PIDs, even if your repository says they're optional.

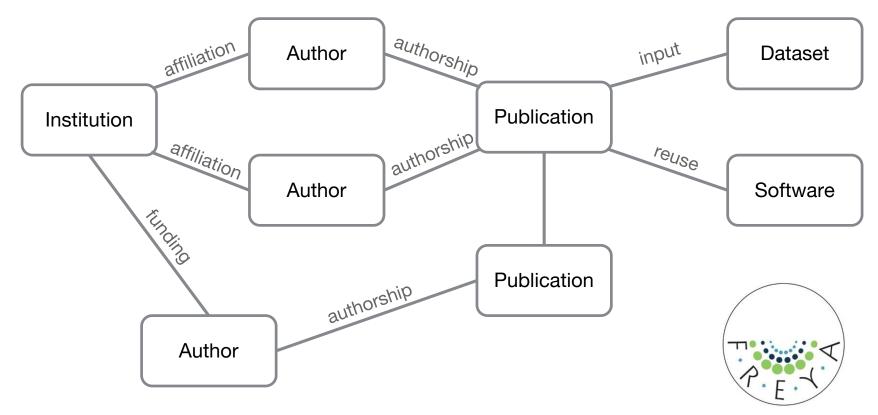
In Zenodo (for example), it looks like this:



Step 3: Share these connections with the community



Interested in using this information? Find out more at: https://support.datacite.org/docs/eventdata-guide



This all feeds into project FREYA

And allows you to answer new questions today!