

Isn't a number and a URL enough?

Why PIDs matter and technical solutions alone are not sufficient.

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Helmholtz Open Science Office

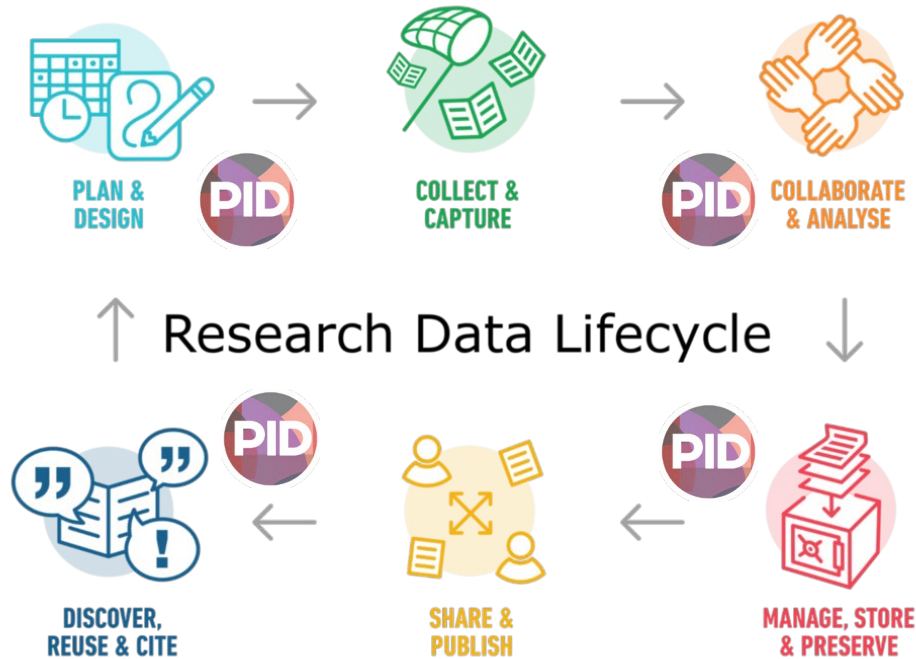
1st Conference on Research Data Infrastructure (CoRDI)

Karlsruhe, September 14, 2023

Agenda

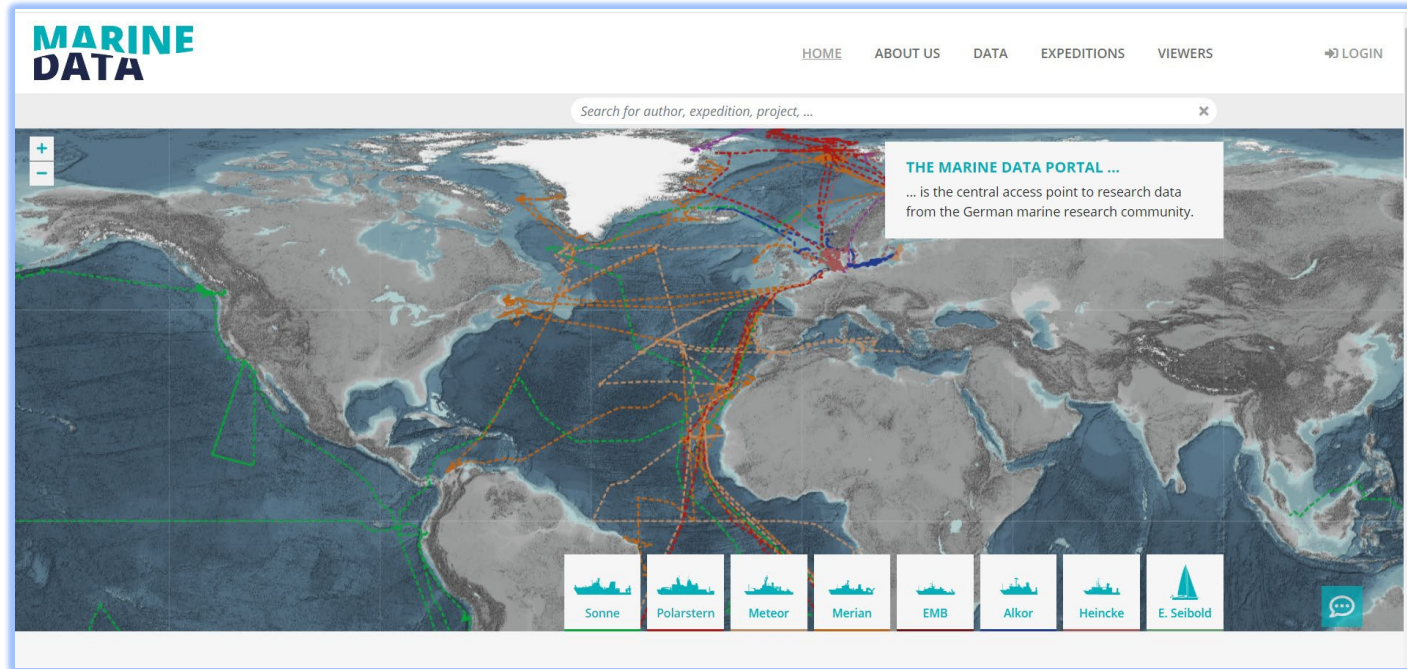
1. Persistent Identifiers (PIDs) and their role for FAIR Research Data Management
2. PID4NFDI
3. PID Network Germany

The backbone of FAIR RDM are PIDs



Source: Based on work by Gaelen Pinnock, <http://scarletstudio.net>, CC BY-SA,
<https://www.intcdc.uni-stuttgart.de/supporting-structures/research-data-management>

PIDs for research data

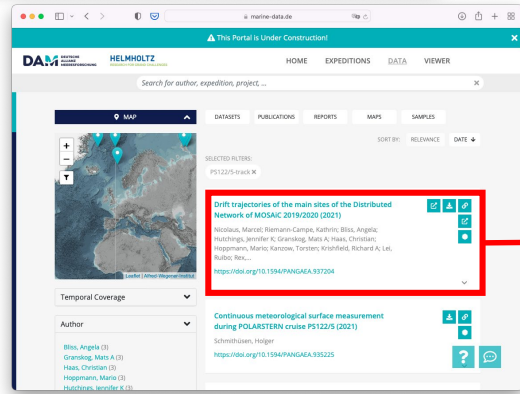
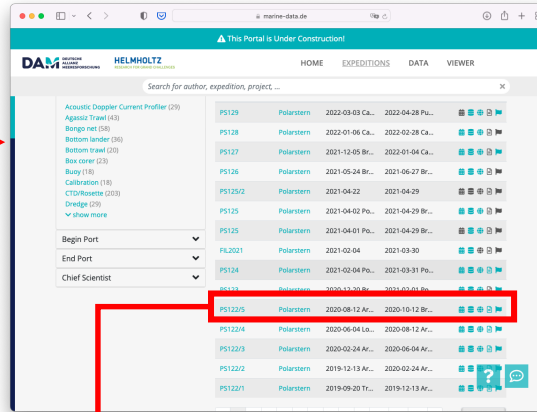
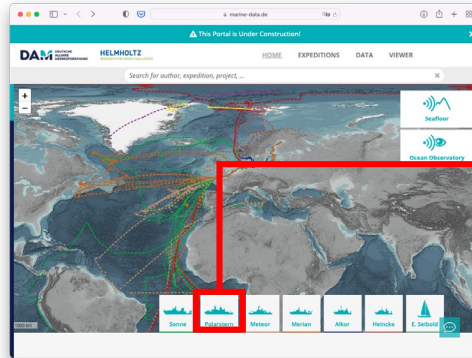


The Marine Data Portal: <https://marine-data.de>



PIDs for research data

<https://marine-data.de>



Interaction between DOI, ORCID & Data

<https://www.pangaea.de>

Best Practices Report of the ORCID integration in PANGAEA

<https://os.helmholtz.de>

PIDs reduce administrative overhead

DFG Deutsche Forschungsgemeinschaft

Registrierung Antragstellende Person

Staatsangehörigkeit: * Deutschland

Deutschsprachig: * Ja Nein

Webseite:

Mobiltelefon:

Meine ORCID ID: Mit meiner ORCID-ID verknüpfen oder neu anlegen

Erläuterung ORCID: Die Open Researcher and Contributor ID, kurz ORCID, ist eine Kennung für Wissenschaftlerinnen und Wissenschaftler. Jede Person, die im wissenschaftlichen Arbeitsprozess einen Beitrag leistet, kann ORCID nutzen, um eine eindeutige Beziehung zwischen sich und ihren Publikationen, Forschungsdaten und anderen Ergebnissen des Forschungsprozesses (zum Beispiel Software) herzustellen und nachzuweisen. Das internationale ORCID-Konsortium vernetzt weltweit Wissenschaftlerinnen und Wissenschaftler mit ihren Aufsätzen und Forschungsdaten über eine eindeutige ID; siehe auch >> <http://www.orcid.org> und >> <https://www.orcid-de.org>.

Abbrechen Zurück Weiter

ORCID integration in DFG application form

My NCBI » SciENcv » test 2

Profile name: test 2 [Edit] Download: PDF Word XML

Profile type: NIH BioSketch NIH Biographical Sketch Instructions (PDF)

Last Updated: 13 December 2016

Sharing: Private [Change]

NAME [Edit]
Pampel, Heinz
Click here to link eRA Commons account ORCID ID
<http://orcid.org/0000-0003-3334-2771>

EDUCATION/TRAINING [Edit entries]
(Begin with baccalaureate or other initial professional education, such as nursing)

INSTITUTION AND LOCATION DEGREE (if applicable)

Hochschule der Medien, Stuttgart, Baden-Württemberg, DE

add another degree/training

ORCID integration in NIH application form

PLOS ONE

Editorial Manager

Username: plos_email

What is ORCID? [help/change](#)

Alternate Contact Information

Institution Related Information

Position:

Institution: PLOS (max 300 characters)

Department: Outreach (max 450 characters)

Street Address: Carlyle Rd

City: Cambridge

State or Province:

Zip or Postal Code: CB4 3DN

ORCID integration in PLOS submission system

A variety of PIDs are used in Germany

International



RINGGOLD

National

`urn:nbn:de:101:1-2010080220` `urn:nbn:de:0275-2011011002` `urn:nbn:de:nbz:1-31377499d261-00000164-1842` `urn:nbn:de:urmel-1c6a6299-7819-4d`
`urn:nbn:de:hebis:04-z2018-01800` `urn:nbn:de:ib-10.1594/WDCRSAT/GOME.L3.VC1.MEAN.O3.20015` `urn:nbn:de:hebit-1-007041-36` `urn:nbn:de:hebz-6-15129670356` `urn:nbn:de:hebz-925-0-urn:nbn:de:01:1-200906652013` `urn:nbn:de:bsz:576-200819` `urn:nbn:de:hbz:570` `urn:nbn:de:bsz:15-15129670356` `urn:nbn:de:bsz:59-1-urn:nbn:de:hbz:6-15129670356` `urn:nbn:de:0815-2018041311340216`
`urn:nbn:de:de:bsz:21-dt-9929` `urn:nbn:de:mob-364-00121278` `urn:nbn:de:0-mchf7/20-5` `urn:nbn:de:101:1-2019031814464357325296` `urn:nbn:de:saardok-0020979a-0939-4fb3-9755-a20c4ddb821f7` `urn:nbn:de:bund-`



A variety of PIDs are used in Germany



Research Activity Identifier

Identifying and tracking of research projects and activities

<https://www.raid.org.au>



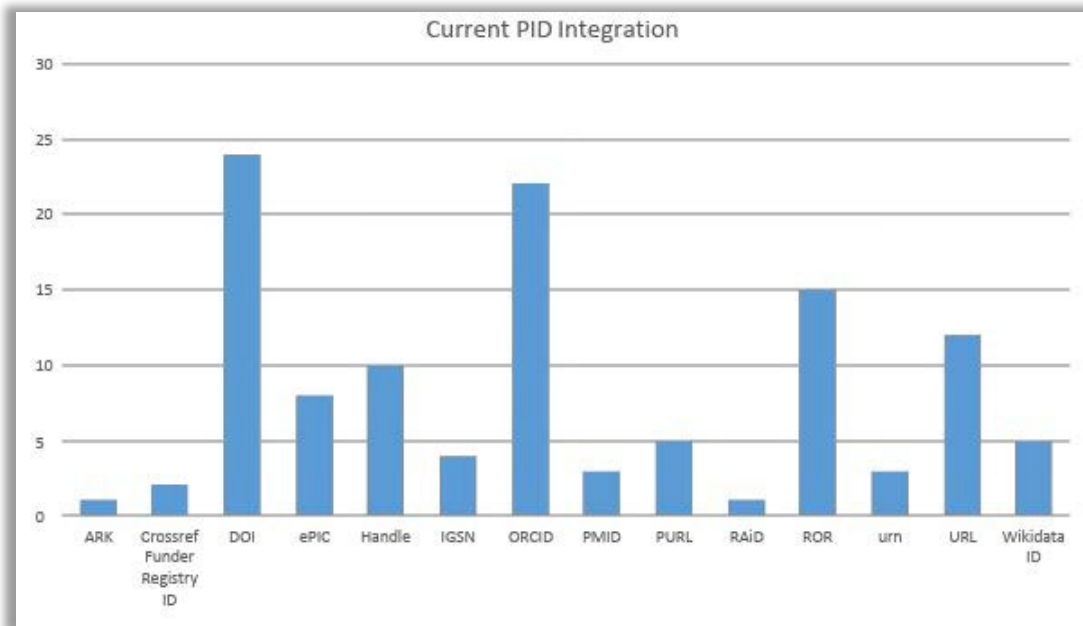
Research Resource Identifier

Identifying and cite key resources of biomedicine
(e.g. antibodies, model organisms and software projects)

<https://www.rrids.org>

A heterogenous PID landscape in NFDI, too

Which kind of identifier or PID do you integrate?



From 15 response options; Calculation based on number of all answers given:
no consolidation by consortium membership



Source: Hagemann-Wilholt, Stephanie. (2023). PID4NFDI: Survey on PID Practices. Main results. Zenodo.

<https://doi.org/10.5281/zenodo.7635791>. p 3.

A heterogenous PID landscape in NFDI, too

Metadata standards in consortia

Natural Sciences	Engineering and Technology	Medical and Health Sciences	Agricultural Sciences	Social Sciences	Humanities
Access to Biological Collection Data (ABCD) (Bio)Schema.org Climate and Forecast (CF) Metadata Conventions CERN Open Data EasyDAB – Atmodat IEEE (customized): Learning Objects Metadata (LOM) IVOA (Astronomy) Nexus (Photon/Neutron community) Optimade OWL-based ontologies	ISO	AIRR Data Schema Image Data Resource (IDR) OMR Quarep-LiMi REMBI	MCPD MIAPPE	DDI 3.2 LC <i>(planned)</i>	Mets/Mods TEI
DataCite, DCAT, Dublin Core, RDF, schema.org					
Own, based on existing standards					

Source: Hagemann-Wilholt, Stephanie. (2023). PID4NFDI: Survey on PID Practices. Main results. Zenodo. <https://doi.org/10.5281/zenodo.7635791>. p 8.

NFDI Working Group: Persistent Identifiers



- Founded in 2022
- Located in the Section [Common Infrastructures](#)
- Aim:
 - Develop a **common strategy** for the implementation and extension of community-based and broadly used PID services
 - Conducting technical & organisational measures as well as **training and education**, particularly around standardised and complete metadata
- Chairs: Philipp Wieder (GWDG) & Britta Dreyer (TIB/DataCite)
- Publications:
 - [Charta of the working group](#)
 - [PID4NFDI: Survey on PID Practices. Main results.](#)
 - [Workshop on PIDs within NFDI](#)

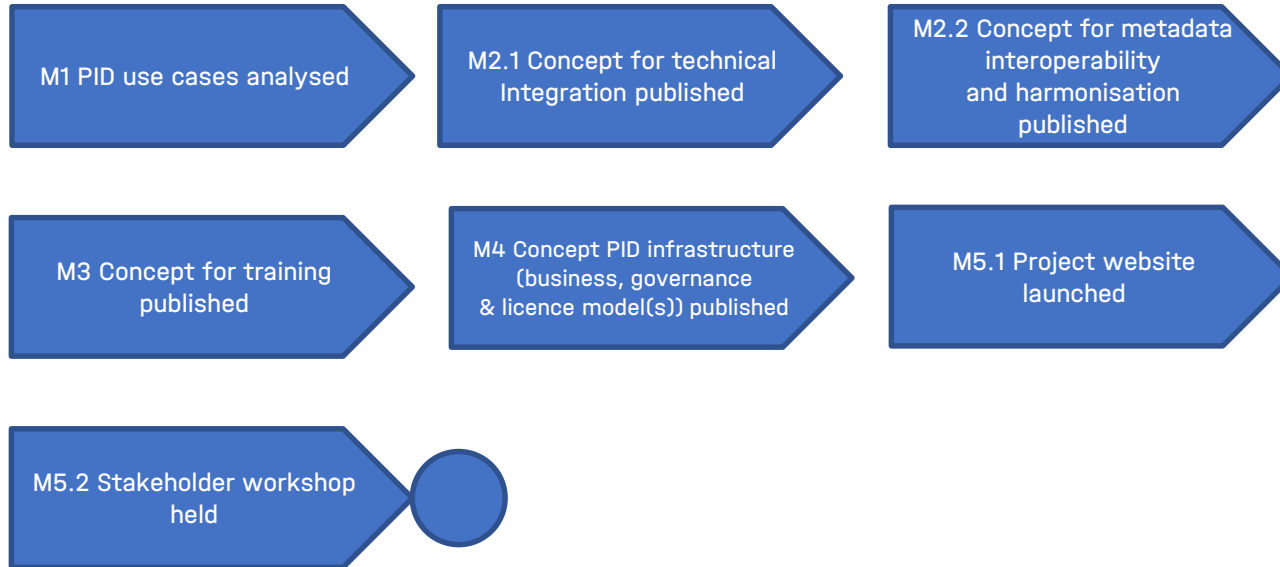
PID4NFDI

- Proposal of founding **Persistent Identifier Services** for the German National Research Data Infrastructure (NFDI)
- Project partners:



- The Consortia Assembly of the NFDI decided in its meeting on July, 07, 2023 to fund the initialization phase of "PID4NFDI".

PID4NFDI: Initialization phase



PID Network Germany



- Funded by the German Research Foundation (DFG)
- The project proposal is published (only in German): <https://doi.org/10.48440/os.helmholtz.059>
- Website (only in German): <https://www.pid-network.de>
- Projects aim:
 - Establishment of a **network** of already existing and currently forming actors around **persistent identifier in science and culture**
 - Promotion of the usage, implementation, standardization and compatibility to international PID systems on local, national and international levels
 - Development of a **PID roadmap for Germany**
- Project partner institutions:



Close Collaboration



PID4NFDI will complement PID Network Germany -

Both projects agreed to closely collaborate.

Keep in touch

Website: www.pid-network.de

Email: info.pidnetwork@listserv.dfn.de

Email: section-infra-wg-pid@lists.nfdi.de

Please feel free to follow us on Social Media:

Mastodon ([@PIDNetworkDE@openbiblio.social](https://openbiblio.social/@PIDNetworkDE))

Twitter ([@PIDNetworkDE](https://twitter.com/PIDNetworkDE))

Thank you for your Attention!

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Technology - TIB)



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