

# Case Study Template - RDA National PID Strategies Working Group

Title	Case Study: Germany
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## Features of National PID Approach and/or Strategy

### Lead organisation(s)

*List the lead organisation(s) and governance structure responsible for developing and/or maintaining the PID approach and/or strategy*

DataCite,  
the German National Library (DNB),

the Helmholtz Open Science Office, Helmholtz Association,  
the German National Library of Science and Technology (TIB)  
the Bielefeld University Library

## **Scope**

*Define the scope of the the PID approach and/or strategy (i.e. who it applies to)*

The creation and publication of a national PID roadmap for Germany will be a main outcome of the project "PID Network Germany – Network for fostering persistent identifiers in science and culture" that is funded by the German Research Foundation (DFG) and scheduled to run for 36 months. The project officially started on March 01, 2023 and aims to establish a network of already existing and currently forming actors around the persistent identification of persons, organizations, publications, resources, and infrastructures in the field of digital communication in science and culture in Germany. PID Network Germany pursues an overarching approach across the boundaries of individual scientific institutions and research disciplines. The project description provides further insight into the objectives of the project: <https://doi.org/10.48440/os.helmholtz.059> (only in German).

The scope of the roadmap is to present a perspective for a networked PID landscape in Germany. The focus is on a strategic approach to the topic in a cooperatively operating information infrastructure that on the one hand provides individual institutions with a framework for local PID applications and on the other hand the systemic advantages of a widespread and consistent implementation of PID systems in Germany.

## **Drivers**

*Describe the drivers behind the PID approach and/or strategy development e.g. wanting to improve accuracy of research information, better track research impact, reduce administrative burden, etc.*

In Germany, the need to use Persistent Identifiers (PIDs) for the permanently reliable identification of the resources associated with research processes, the actors involved, and their research products is recognized as a fundamental principle both on a national and on a local level, for example in academic organizations.

However, this is also accompanied by new requirements for the efficient usage of PIDs in the research process and their dissemination. At the same time, users are confronted with a large variety of very different offerings with different focal points serving different needs. In addition to international approaches, such as DataCite and Crossref, there are more nationally oriented systems, such as the German National Library's "urn:nbn:de" namespace using the Uniform Resource Name (URN). Beyond this, a broad landscape of specific and locally oriented PID systems contributes to the PID landscape. These are often geared to the needs of the specific domain and implemented via the Handle system and the associated Handle.Net Registry (HNR). Initiatives such as the PIDForum ([pidforum.org](http://pidforum.org)), help with internationally significant

issues, but a void remains at the national level. A coordinated networking and promotion of PID systems in Germany is a desideratum. This includes the need to support the application of PIDs. However, in order to exploit the full benefits in science and culture, the exchange between and thus the interoperability of PID systems in Germany must also be promoted.

### **Strategy development**

*Describe the process and timeline through which the PID approach and/or strategy was developed e.g. Advisory Group was formed led by a government agency, there was a consultation period in which xx people and organisations were involved, the process by which agreement was achieved etc. Another e.g. ORCID OR DOI Consortium formed.*

The publication of the national PID roadmap for Germany is planned for the end of the project, which means by the beginning of the year 2026.

In a first step, all findings of the project will be consolidated and expanded by impulses from international efforts and developments. Based on this a draft of the PID roadmap for Germany will be prepared by the project partners.

In a next step, the draft of the PID Roadmap will be revised during a public comment period. This will ensure the visibility of the document and foster participation of a broad audience. In this way, further suggestions for the PID roadmap can be obtained and incorporated, thereby increasing the acceptance of the roadmap.

The PID Roadmap for Germany will be published as a stand-alone Open Access publication in digital and printed form.

### **Key features**

*Describe the key features of the PID approach and/or strategy*

In the course of the project, the organization of workshops and webinars with a focus on 10 different PID use cases (see section "PIDs"), the conduct of a quantitative and qualitative survey on the PID's landscape in Germany and the creation of use cases and guidelines for the optimization of PID metadata in identifier and aggregation systems are planned. All those findings will result in recommendations and suggestions for the further development of PID systems in the national PID roadmap of Germany. Furthermore, impulses from international efforts, such as the "PID Policy" of the EOSC, the "PID Strategy of Dutch Research Council (NWO)" in the Netherlands, the work of the "Research Identifier National Coordinating Committee (RINCC)" of the "UK PID consortium" in the United Kingdom and of the RDA working group on „National PID Strategies" will be included.

### **Key infrastructure**

*List and describe the key infrastructure (platforms, systems, services) that will activate this national PID approach and/or strategy*

Name of infrastructure	Key purpose	List of integrated PIDs
<a href="#">German national bibliography</a>	The aim is to offer stable and reliable bridges for the construction of a knowledge graph of culture and science.	Crossref & DataCite DOIs, URN:NBN, ORCID iDs, ROR iDs
<a href="#">Bielefeld Academic Search Engine (BASE)</a>	Since 2004, Bielefeld University Library has been productively developing and operating the scientific search engine BASE with the aim of indexing OA content from publication infrastructures, especially repositories, as comprehensively as possible.	Crossref & DataCite DOIs, URN:NBN, ORCID iDs, ROR iDs
DataCite Consortium & ORCID Germany Consortium	TIB is the lead organisation for both services. This will definitely take into account when creating the PID roadmap for Germany	DOIs, ORCID IDs

## PIDs

List which functions and PIDs are identified in the strategy e.g. identification of research grants is a function and the PID recommended in the PID approach and/or strategy is CrossRef DOI

Function	PID type (Examples:)	Recommended or required?
Research data	DataCite DOI, URN	Not yet defined
Instruments	DataCite DOI	Not yet defined
Academic Conferences	DataCite DOI GND (The Integrated Authority File) ID	Not yet defined
The persistent identification of cultural objects, holdings and collections and their contexts (associated events, actors, concepts) in the context of Humanities	GND ID	Not yet defined
Organizations & Projects	ROR GND ID <a href="#">Gepiris</a> Crossref Funder Registry	Not yet defined

	RAiD	
Persons	ORCID GND ID	Not yet defined
Physical Objects	RRID IGSN	Not yet defined
PIDs for open access publication services and research information systems	No standard established at the moment	Not yet defined
Software	No standard established at the moment	Not yet defined
Text publication	Crossref & DataCite DOI URN	Not yet defined

### **Impact and monitoring**

*Summarise any work to describe or track impact of the approach/strategy, including review and/or monitoring processes*

The progress and impact of the project will be measured and monitored through the collection of quantitative indicators. The different systems of the project partners as well as ORCID Inc. and ROR will be queried. If possible, indicators for all 10 PID use cases should be measured. These include for example the following indicators:

- Number of registered DataCite DOIs by scientific institutions in Germany.
- Number of registered DataCite-DOIs that have a link to further resources via a related-Identifier relationship.
- Number of ROR implementations at scientific institutions in Germany.
- Number of GND records that have an ORCID iD or a ROR ID.
- Etc.

How the impact of the roadmap can be measured and tracked is still up for discussion.

### **Links**

*Include any links to relevant documents*

Project proposal: <https://doi.org/10.48440/os.helmholtz.059> (only in German)

Project website (will be launched by June 2023): <https://www.pid-network.de>

### **Additional**

*Include any other relevant information*