

INCREASE OF RESEARCH DATA REPOSITORIES IN re3data 2012-2020

Re3data is an internationally recognized reference tool for research data repositories that currently records more than 2,400 repositories. The openly accessible service was developed in two projects funded by the German Research Foundation (2012-2016) and is used by researchers and services worldwide for research purposes. Scientific communities, funding organisations, research institutions and services rely on the current and exact descriptions and refer to re3data as a trustworthy source.

The main goal of the project re3data COREF (Community Driven Open Reference for Research Data Repositories) is the further professionalization of re3data and the provision of reliable and individualizable descriptions of research data repositories. re3data will provide the core descriptions of the repositories which can be reasonably referenced and cited by the users and which are permanently usable for identification. This includes in particular the unique identification for the automated exchange between services (M2M) that is currently not yet possible. For this purpose, the existing technical platform will be further developed in order to facilitate the subsequent use of the information via research data repositories on a high qualitative level. Within the scope of the project, funding agencies and publishers are especially addressed in order to integrate re3data in their respective guidelines and to promote the use of suitable, trustworthy repositories that follow the FAIR principles.

2457

research data repositories indexed as of Jan 2020. re3data COREF starts.

92

RESEARCH DATA REPOSITORIES ARE AFFILIATED WITH HELMHOLTZ

2000

Research data repositories indexed as of Feb 2018

HERBI

the Helmholtz Repository of Bioparts was added to re3data in Apr 2018.

GFZ DATA SERVICES

was added to re3data in Oct 2017.

CONTINUATION

of re3data beyond the DFG-funded project phase in early 2016

DataCite

takes over re3data in late 2016

TERENO

the Terrestrial Environmental Observatories Data Discovery Portal was added to re3data in May 2015.

GRACE ISDC

was added to re3data in Aug 2014. This portal is responsible for the distribution of the data and documentation for the GRACE project.

1000

research data repositories indexed as of Nov 2013

DATABIB

merges with re3data in Mar 2013

PANGAEA

was added to re3data in Jul 2012. The Data Publisher for Earth & Environmental Science is certified by World Data System, WMO Information System and Core Trust Seal

START

of re3data in Jan 2012

HELMHOLTZ Open Science

SHAPING THE PID LANDSCAPE IN GERMANY AND BEYOND

HELMHOLTZ OPEN SCIENCE OFFICE

Since 2005 the Helmholtz Open Science Office is supporting scientists as well as their respective Helmholtz Centres in the implementation of open science. Services such as the Helmholtz Open Science Newsletter and the Helmholtz Open Science Workshops are only two examples of how the Helmholtz Open Science Office is providing information and advice about new developments, strategies, and ideas.

One example of the successful work is successful fostering policies for the institutional and research data repositories that most Helmholtz Centres are running. These information infrastructures contain a significant and steadily growing share of the scientific works of the Helmholtz Association that will generate a considerable added value to science.

Complementing this informational approach the Helmholtz Open Science Office is an active partner in several research projects that aim at building and establishing open science services and standards such as re3data and ORCID.

HELMHOLTZ METADATA COLLABORATION

Data are produced in huge quantities at the Helmholtz Association. This frequently involves unique data sets that take considerable time and effort to prepare. It is therefore very important that these data are processed in such a way that they can be used by researchers and all interested parties now and in the future. This involves carefully documenting research data and making them available, particularly through metadata. It is the Helmholtz Metadata Collaboration's (HMC) task to promote the qualitative enrichment of research data by means of metadata – and implement this approach across the whole organization.

The platform pools the scientific expertise on metadata from the domains in special metadata hubs for the research fields. Association-wide services offer advice and provide infrastructure services for storing, reusing, and exchanging metadata. The work is always embedded in the national and international context and partnered by the Helmholtz Open Science Office. In order to establish discipline-specific and Association-wide services in a way that is both broad and at the same time tailor-made, the platform will comprise hubs in each research field as well as centralized services. The research fields introduce expertise, ideas, and demands from their own subject areas through the metadata hubs. Generically applicable processes, technical solutions, and training and consultancy services are centrally organized. These are made available Association-wide to all hubs and can be customized and utilized according to the specific subject.

ONE THIRD OF ALL HELMHOLTZ CENTRES ARE MEMBERS OF THE ORCID GERMANY CONSORTIUM

EOSC, FAIR & NFDI

Beyond their services for the Helmholtz Association the Helmholtz Open Science Office contributes to national and international initiatives and projects such as the European Open Science Cloud (EOSC), the FAIRification of research data and the National Research Data Infrastructure (NFDI).

With projects such as EcoDM (Ecosystem Data Management) the Helmholtz Open Science Office addresses the issue of how to use the constantly increasing amount of data from various sectors systematically and sustainably according to the FAIR principles (Findable, Accessible, Interoperable, and Reusable).

All Helmholtz Centres are involved in NFDI projects. The Helmholtz Open Science Office seeks to support provision of researchers with FAIR, simple, coherent, efficient, open and - whenever possible - unrestricted access to all relevant data as well as scientific data management and data analysis services in a user-driven process.

GEOMAR HELMHOLTZ CENTRE FOR OCEAN RESEARCH KIEL

joined in May 2018

ALFRED WEGENER INSTITUTE, HELMHOLTZ CENTRE FOR POLAR AND MARINE RESEARCH (AWI)

joined in May 2018

46

members as of Jan 2019

56

members as of Jan 2020

35

members as of Jan 2018

HELMHOLTZ CENTRE FOR INFECTION RESEARCH (HZI)

joined in Sep 2017

GERMAN AEROSPACE CENTER (DLR)

joined in Mar 2017

18

foundation members as of Jan 2017



To promote the implementation of the ORCID at German universities and non-university research institutions, the project "ORCID DE - Förderung der Open Researcher and Contributor ID in Deutschland" (ORCID DE - Promotion of Open Researcher and Contributor ID in Germany) was launched. This project was initiated by the German Initiative for Network Information (DINI) and was funded by the German Research Foundation (DFG) from 2016 to 2019. The project created a central contact point for universities and research institutions. Furthermore the use of the ORCID ID in the context of the Bielefeld Academic Search Engine (BASE) as well as the linkage between ORCID and the Integrated Authority File (GND) was implemented.

At the end of 2019, the DFG approved the project ORCID DE for a second funding period. The follow-up project ("ORCID DE 2 - Konsolidierung der ORCID-Infrastruktur in Deutschland") will continue to support the implementation of the ORCID at universities and non-university research institutions through an overarching approach and to generate synergies by intensifying coordination of local activities. The project also aims to extend and consolidate the existing network of scientific institutions that have already integrated ORCID into their infrastructures. The focus is both on expansion of the support for institutions and target groups (e.g. publishers or funders) interested in or using the ORCID ID. One work package deals with the usage of identifiers for organisations that shall perspective be linked to ORCID. The project partners would like to participate in this development on behalf of the German scientific community from the beginning.

INCREASE OF ORCID GERMANY CONSORTIUM MEMBERS 2016-2020

AUTHORS AND LICENSE

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INITIAL MEMBERS FROM THE HELMHOLTZ ASSOCIATION

Forschungszentrum Jülich, Helmholtz-Zentrum Berlin für Materialien und Energie (HZB), Helmholtz Centre Potsdam – GFZ German Research Centre for Geosciences joined in Oct 2016