

HeFDI Data Talk

Date	Topic	Presenter
09 February 2024	re3data – presentation of the service	Charlotte Neidiger (Karlsruhe Institute of Technology, KIT)



Abstract:

While the demand as well as interest for long-term preservation and open access to research data is growing, ensuring this is a challenge shared across the scientific community. Researchers find themselves often confronted with questions such as: Where can I find or publish research data? Which possibilities and responsibilities do I have if I want to make my own data available? And how do I find a repository that best fits my data and needs?

Charlotte Neidiger from the Karlsruhe Institute of Technology (KIT) will present one tool to tackle this challenge in the form of the "re3data" service, a global registry of research data repositories across all academic disciplines that promotes a culture of sharing, increased access and better visibility of research data.

The talk will highlight the service's foundational principles, functionality and usage, as well as provide tips and tricks for efficient utilization.

About the HeFDI Data Talks:

The HeFDI Data Talks are a bi-weekly open information and discussion event focused on data management in the context of science, in which relevant NFDI consortia as well as research data management services present themselves. The series discusses current topics and presents numerous – including local and regional – tools and services. The HeFDI Data Talks are an offer of the HeFDI Initiative (Landesinitiative HeFDI), which is funded by Hesse's Ministry for Science and Arts (HMWK).

DOI-Link: <https://doi.org/10.5281/zenodo.10639213>; Lizenzinformation: Creative Commons Attribution 4.0 International ([CC BY 4.0](https://creativecommons.org/licenses/by/4.0/))



re3data.org

REGISTRY OF RESEARCH DATA REPOSITORIES

HeFDI

🔍 2024

Agenda

Service introduction

Current activities

FAIR IMPACT
re3data COREF

Discussion

Please ask for our
Brunch menu!





Mission

global registry of research data repositories

covers all academic disciplines

presents repositories and portals for the permanent storage and access of research data sets to researchers, funding bodies, publishers and scholarly institutions.

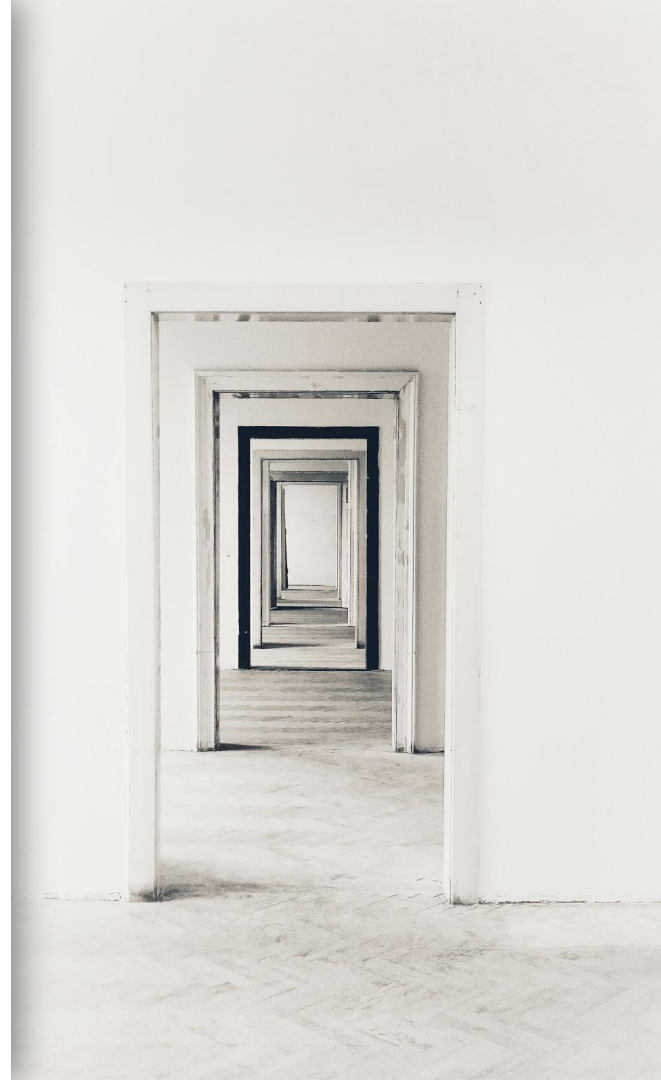
promotes a culture of sharing, increased access and better visibility of research data

Registration Policy

be **run by a legal entity**, such as a sustainable institution (e.g. library, university)

clarify **access conditions** to the data and repository as well as the **terms of use**

have **focus on research data**





Metadata

42 properties on



General information

Responsibilities

Policies

Legal aspects

Technical standards

Quality standards



Metadata

Tricky properties explained

Enhanced publication: connection of dataset and publication (via PIDs)

Metadata standards: DCC curated list / RDA MSC

Documentation: <http://doi.org/10.48440/re3.014>

Web

URL: <https://www.re3data.org/>

Search

Facettes & Filters

Widget & Badges

API





Editorial board

Co-lead: [Michael Witt](#) (Purdue)

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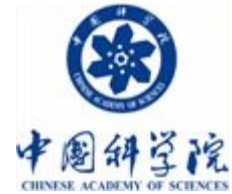
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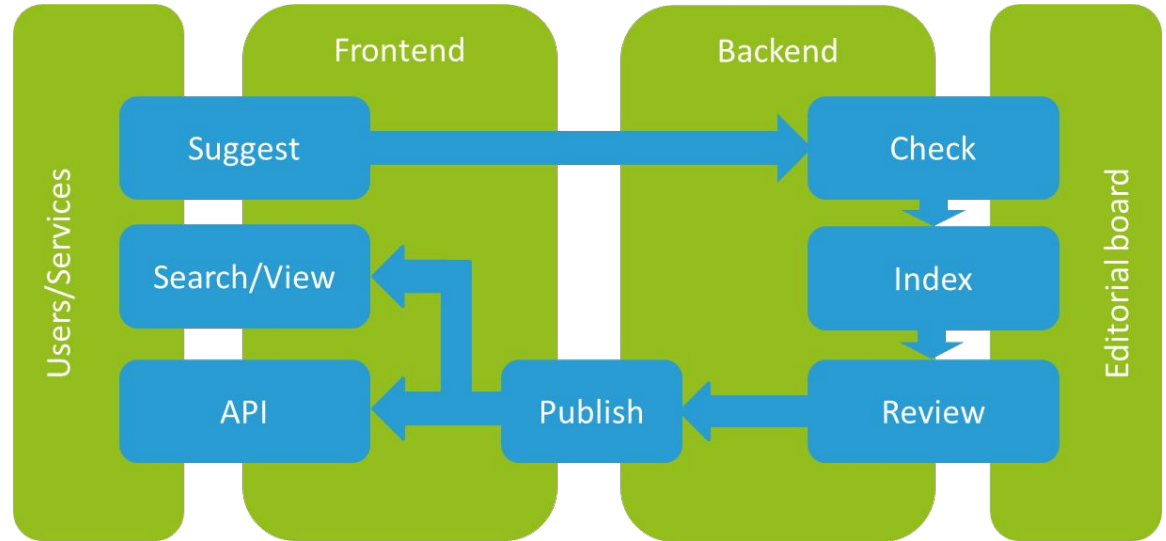
[Hui Wang](#) (Chinese Academy of Sciences)

Working Group



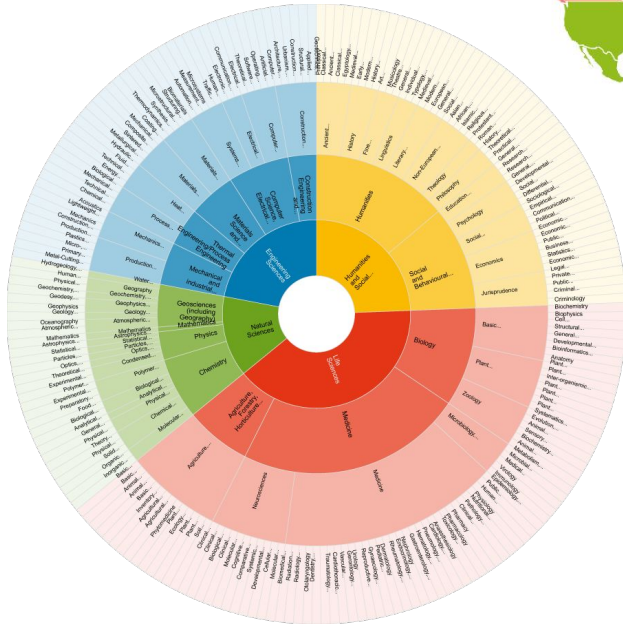
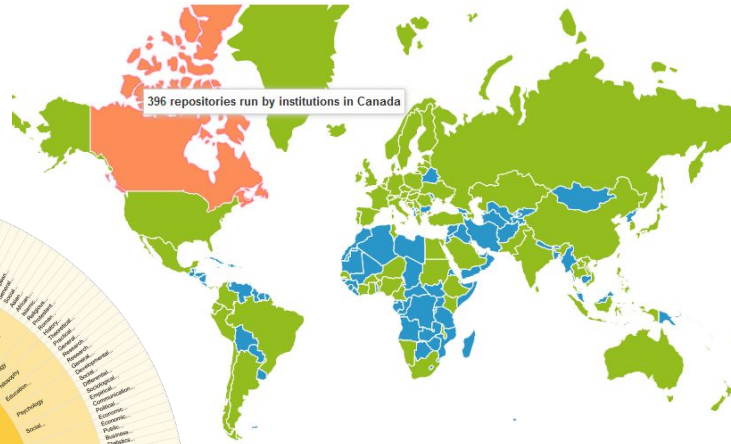


Suggests / Change requests



Editorial workflow for submitted requests

Browsing



"The Flat Earth society has members all around the globe"

Searching in re3data

re3data.org

Search Browse Suggest Resources Contact

Filter
Reset all

Subjects

Content Types

Archived data (8)
Audiovisual data (2)
Databases (13)
Images (7)
Networkbased data (1)
Plain text (5)
Raw data (6)
Scientific and statistical data formats (12)
Software applications (2)
Source code (2)
Standard office documents (5)
Structured graphics (5)
Structured text (3)
Other (5)

Countries

Belgium (1)
European Union (1)
France (1)
Germany (13)
International (3)
Switzerland (1)
United Kingdom (1)
United States (1)

AID systems

API

Certificates

Data access

Data access restrictions

Database access

Database access restrictions

Database licenses

Data licenses

Data upload

Data upload restrictions

Enhanced publication

Institution responsibility type

Institution name

climate

Search

Toggle short help

Previous 1 Next

Sort by

Found 13 result(s)

World Data Center for Climate

DKRZ long term archive

1 2 3 4 5 6

Subject(s)

Natural Sciences Geosciences (including Geography) Atmospheric Science Oceanography Geology and Palaeontology Atmospheric Science and Oceanography

Content type(s)

Databases Images Structured graphics Scientific and statistical data formats Plain text Structured text Archived data Standard office documents

Country

International Germany

The mission of World Data Center for Climate (WDCC) is to provide central support for the German and European climate research community. The WDCC is member of the ISC's World Data System. Emphasis is on development and implementation of best practice methods for Earth System data management. Data for and from climate research are collected, stored and disseminated. The WDCC is restricted to data products. Cooperations exist with thematically corresponding data centres of, e.g., earth observation, meteorology, oceanography, paleo climate and environmental sciences. The services of WDCC are also available to external users at cost price. A special service for the direct integration of research data in scientific publications has been developed. The editorial process at WDCC ensures the quality of metadata and research data in collaboration with the data producers. A citation code and a digital identifier (DOI) are provided and registered together with citation information at the DOI registration agency DataCite.

Data Publication Server Forschungszentrum Jülich

Data Server

1 2 3 4 5 6

Subject(s)

Atmospheric Science and Oceanography Natural Sciences Atmospheric Science Water Research Geosciences (including Geography)

Content type(s)

Databases Scientific and statistical data formats Images Standard office documents

Country

Germany

Data Publication Server Forschungszentrum Juelich is a web server for providing large data sets to the general public. It's main application is publishing data belonging to scientific publications.

WRMC-BSRN

Baseline Surface Radiation Network

1 2 3 4 5 6

Subject(s)

Astrophysics and Astronomy Atmospheric Science and Oceanography Geosciences (including Geography) Chemistry Natural Sciences Physics

Physical and Theoretical Chemistry Oceanography Atmospheric Science

Content type(s)

Standard office documents Databases Images Structured graphics Audiovisual data Scientific and statistical data formats Raw data Plain text Archived data



Repository View

Repository details



World Data Center for Climate

General Institutions Terms Standards

Name of repository	World Data Center for Climate
Additional name(s)	DKRZ long term archive
Repository URL	https://wdc-climate.de
Subject(s)	Natural Sciences Geosciences (including Geography) Atmospheric Science Oceanography Geology and Palaeontology Atmospheric Science and Oceanography
Description	The mission of World Data Center for Climate (WDCC) is to provide central support for the German and European climate research community. The WDCC is member of the ISC's World Data System. Emphasis is on development and implementation of best practice methods for Earth System data management. Data for and from climate research are collected, stored and disseminated. The WDCC is restricted to data products. Cooperations exist with thematically corresponding data centres of, e.g., earth observation, meteorology, oceanography, paleo climate and environmental sciences. The services of WDCC are also available to external users at cost price. A special service for the direct integration of research data in scientific publications has been developed. The editorial process at WDCC ensures the quality of metadata and research data in collaboration with the data producers. A citation code and a digital identifier (DOI) are provided and registered together with citation information at the DOI registration agency DataCite.
Contact	data@dkrz.de lanmart@dkrz.de
Content type(s)	Databases Images Structured graphics Scientific and statistical data formats Plain text Structured text Archived data Standard office documents
Certificates and Standards	CoreTrustSeal
Keyword(s)	CERA database FAIR climate climate simulation cryosphere data assimilation earth science earth system sciences
Persistent identifier(s) of the repository	FAIRsharing_doi:10.25504/FAIRsharing.x3hgaw
Repository type(s)	disciplinary
Mission statement for designated community	https://www.wdc-climate.de/ui/info?site=fairness
Research data repository language(s)	English German
Data and/or service provider	data provider service provider

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Cite this re3data.org record:

re3data.org: World Data Center for Climate; editing status 2022-08-25; re3data.org - Registry of Research Data Repositories. <http://doi.org/10.17616/R3989R> last accessed: 2024-02-05



Repository View

Repository details



World Data Center for Climate

General Institutions Terms Standards

Institution name	Deutsches Klimarechenzentrum GmbH
Additional name(s)	DKRZ
Identifier(s)	ROR:03ztgj037
Contact(s)	https://www.dkrz.de/about-en/contact?set_language=en
Country	Germany
Type(s) of responsibility	general technical funding
Type of institution	non-profit
Start date of responsibility	2010

Institution name	World Data System
Additional name(s)	WDS
Country	International
Type(s) of responsibility	general
Type of institution	non-profit

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Repository View

Repository details



World Data Center for Climate

[General](#) [Institutions](#) [Terms](#) [Standards](#)

Policies (4)

Policy Name [Data Sharing Principles](#)

Policy Name [WDCC Database - Terms of use](#)

Policy Name [DKRZ1 Long Term Archive2: Preservation and Storage Policy](#)

Policy Name [CoreTrustSealAssessment](#)

Database access

Type of access to research data repository [open](#)

Data access (2)

Type of access to data [open](#)

Type of access to data [restricted](#)

Data access restriction type(s) [registration](#)

Data licenses (2)

DataLicense [other](#)

DataLicense [CC](#)

Data upload (1)

Type of data upload [restricted](#)

Data upload restriction type(s) [registration](#)

Data upload license (1)

Data upload license name [Data Submission Preparation Guide](#)

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Repository View

Repository details



World Data Center for Climate

General Institutions Terms **Standards**

Persistent identifier system(s)	DOI hdl
Name of the repository software	other
Data citation guideline	https://www.wdo-climate.de/ui/info?site=termsofuse
Enhanced Publication	unknown
Quality management	yes

Application programming interfaces (2)

API type	REST
API type	OAI-PMH

Metadata standards (4)

Metadata standard name	Repository-Developed Metadata Schemas
Metadata standard scheme	DCC
Metadata standard name	ISO 19115
Metadata standard scheme	DCC
Metadata standard name	DIF - Directory Interchange Format
Metadata standard scheme	DCC
Metadata standard name	DataCite Metadata Schema
Metadata standard scheme	DCC

Remarks

Remarks	is covered by Elsevier. WDC-Climate at DKRZ is covered by Thomson Reuters Data Citation Index. For German climate research, the domain-specific high performance computing centre DKRZ is an indispensable service provider. DKRZ offers in addition to the operation of the supercomputer and storage systems many services relating to climate modelling. WDC is part of ICSU World Data System.
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Entry date	2013-03-04
Last update	2022-08-25

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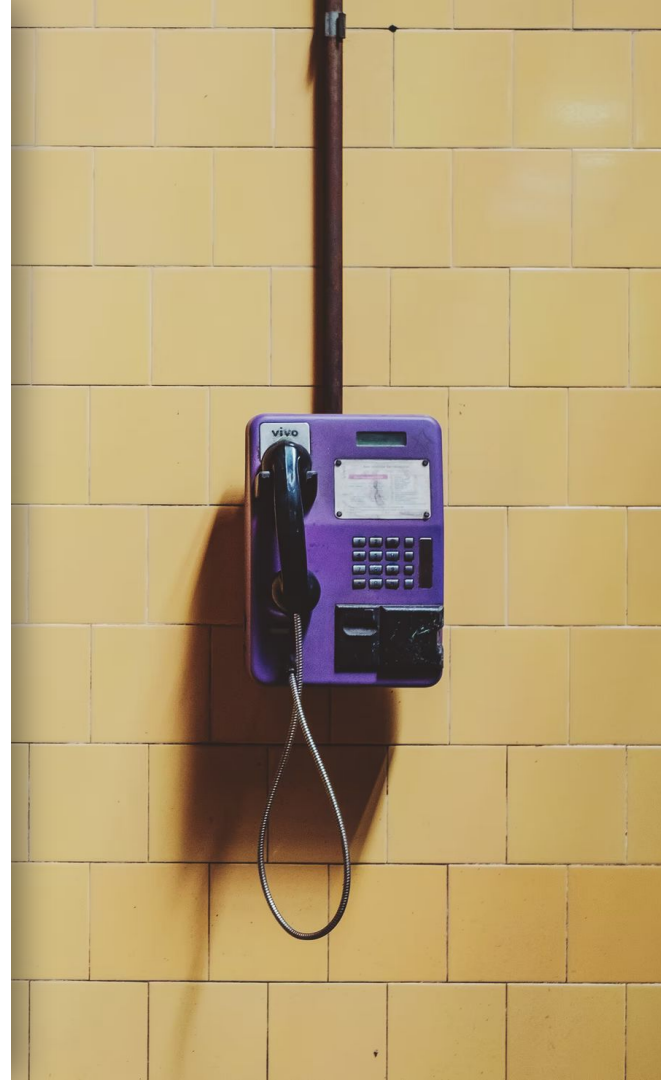
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Web: www.re3data.org

Mail: info@re3data.org

Mastodon: [re3data@openbiblio.social](https://openbiblio.social/@re3data)

X: [@re3data](https://twitter.com/re3data)





FAIR-IMPACT

Expanding FAIR solutions across EOSC

With the ambitious goal to realise an EOSC of FAIR data and services, the FAIR-IMPACT project responds to these needs by supporting the implementation of FAIR-enabling practices, tools and services across scientific communities at a European, national and institutional level



PIDs

More coherent implementation of PIDs and more exact data citation to support better data quality



Metadata & Ontologies

Greater and more harmonised use of semantic artefacts, leading to semantic interoperability between disciplines



Metrics

Metrics, assessment tools and Trustworthy Digital Repository requirements extended to a wider range of digital research objects

Funder: European Union

Duration: 36 Month

Partners: 29

Kick-off: June 27th / 28th 2022 in Amsterdam



Exposing repository trustworthiness & FAIR data assessments

Transparency & Standards

Data regarding FAIRness shall be provided following open technical standards and community recommendations such as RDF and RDA outputs as to digital objects, (meta)data services & registries to foster interoperability and harmonization.

Evidence & Assessment

(Meta)data services providing information about their functions and activities should include evidence and links to authoritative third parties, such as CoreTrustSeal, enabling validation and assessment by human and automated processes.

Linking & Aggregation

As information varies in terms of level of detail, contexts, and time, it should be linked across different services and data providers to foster discovery and aggregation by registries, assessment tools etc. to provide additional value and insights to users.

FAIR-IMPACT

Expanding FAIR solutions across EOSC

eOSC

Data Archiving and Networked Services
DANS

DICIC

Software Sustainability Institute

CSC

INRAE

DeiC

Trust-IT Services
communicating to markets

COMMPla
Communication Platforms
and Online Solutions

Inria
Institute for Research in
Computer Science and
Technology

SURF

Universität Bremen

UNIVERSIDAD POLITÉCNICA DE MADRID
POLITECNICA

CNRS

Observatoire | PSL

Aix-Marseille Université
Sociétélement engagée

DataCite
COMMUNICATIONS PLATFORMS
AND ONLINE SOLUTIONS

KIT
Karlsruhe Institute of Technology

escience data
FACTORY

CESSDA

UK Data Service

Sikt

LifeWatch
ERIC

Comptex Nazionale
della Ricerca

EMBL-EBI

UK Research and Innovation

RDA
RESEARCH DATA ALLIANCE

U&Fischi

CODATA
COMMITTEE OF EUROPEAN
RESEARCH SCIENCE COUNCILS

MANCHESTER
1824
The University of Manchester

<https://fair-impact.eu/>

re3data coref

COMMUNITY DRIVEN OPEN REFERENCE FOR
RESEARCH DATA REPOSITORIES

DFG funded



HELMHOLTZ
Open Science



Work Packages

1. Service Model
2. Metadata schema
3. Technical infrastructure
4. Quality measures
5. Community integration



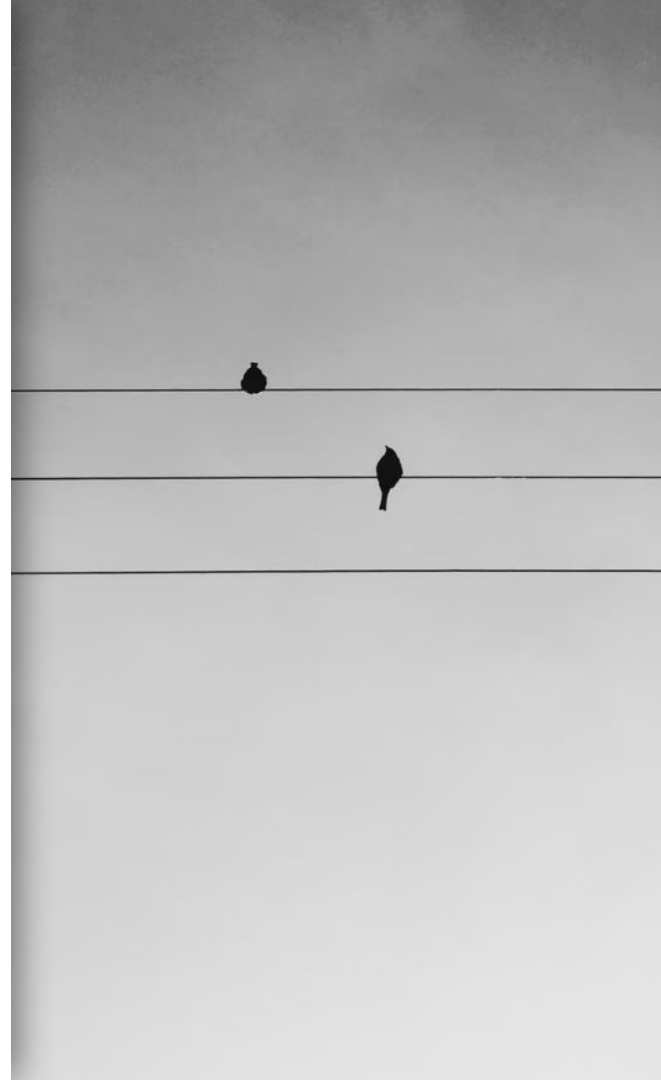
Kater vom Telegraphenberg

Lebte im Wissenschaftspark auf dem
Telegraphenberg und besuchte gerne Mitarbeiter in
den Forschungseinrichtungen (z.B. GFZ)

https://www.instagram.com/einstein_telegraphenberg/

Feedback & Contribution

We are analyzing and incorporating feedback into our service, so get in touch with the team.





Discussion

So Long, and **Thanks** for All the
Fish

