

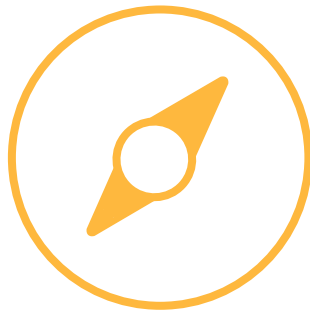
# Open Access, Open Data, Open Science

## The perspective of funding organisations



Mareike Schmitt  
KoWi

## KoWi – EU Liaison Office of the German Research Organisations



**information,  
consulting &  
training on EU  
research &  
innovation funding**

“one-stop-shop” for  
Horizon 2020



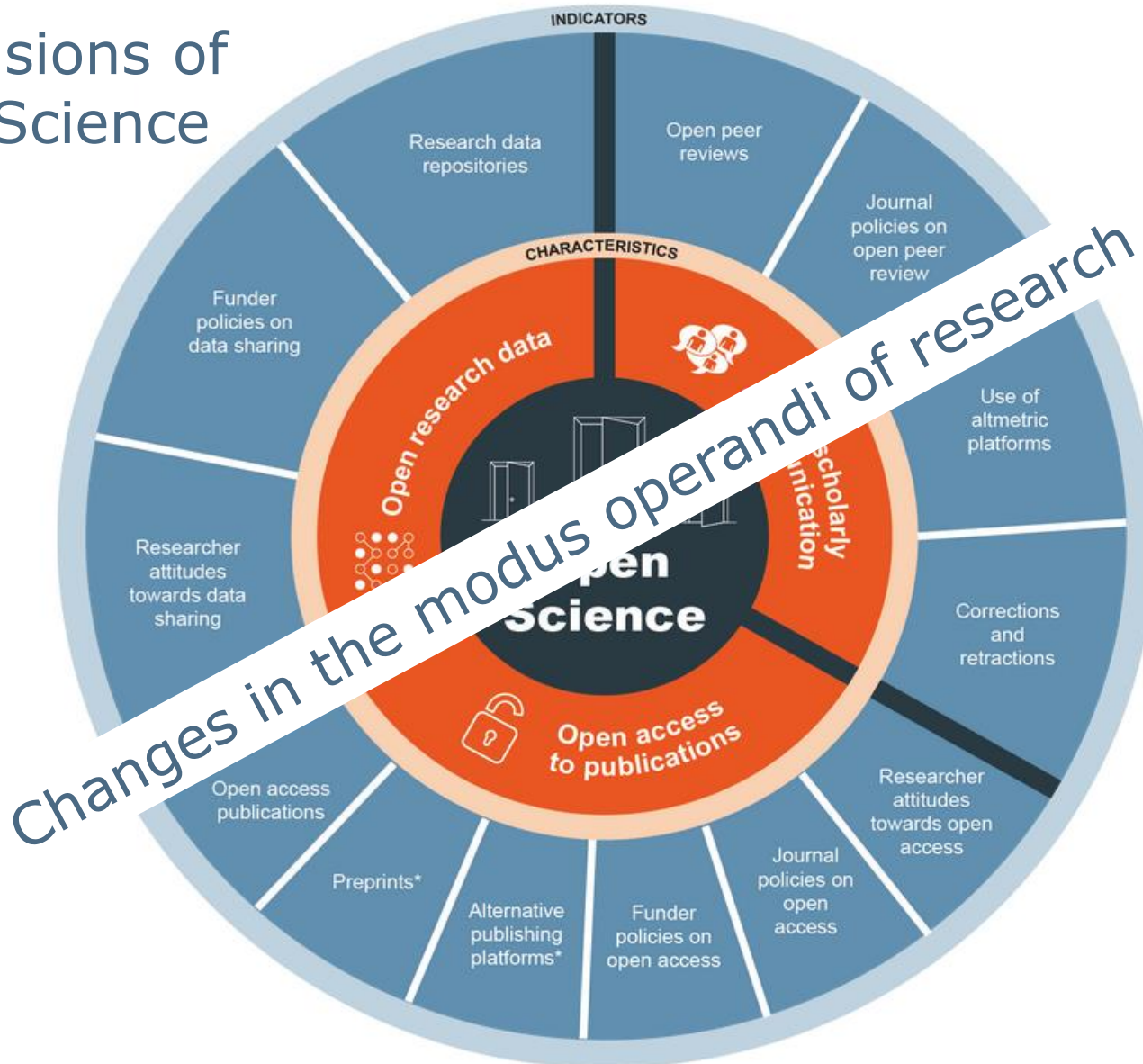
**service platform for  
our supporting  
association\*  
focussing on  
universities**

financed by the German  
Research Foundation  
(DFG)



**connected on  
European level**  
offices in Bonn &  
Brussels

## Dimensions of Open Science



\* These indicators are for both open access to publications and open scholarly communication.

## Open Access in Deutschland

Die Strategie des Bundesministeriums für Bildung und Forschung

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public funds & widest possible impa

## FAQ: Open Access



Häufig gestellte Fragen

- ▶ Warum ist Open Access ein Thema für die DFG?
- ▼ **Hat die DFG eine Open Access-Policy?**

Im Januar 2006 hat der Hauptausschuss der DFG Richtlinien für die Bereitstellung von Ergebnissen aus DFG-geförderten Projekten im Open Access verabschiedet. Demnach sollen die Sachbeihilfeempfänger der DFG ihre Forschungsergebnisse nach Möglichkeit (auch) digital und für Nutzer entgeltfrei über das Internet bereitstellen. Dazu wird die Veröffentlichung in geeigneten Open-Access-Zeitschriften oder die nachträgliche Bereitstellung bereits publizierter Aufsätze über Open-Access-Repositorien empfohlen (s. DFG-Vordruck 2.00 – 12/15, S. 44).
- Muss ich Ergebnisse aus DFG-geförderten Projekten im Open Access veröffentlichen?
- Was tut die DFG, um Open Access zu unterstützen?
- Zahlt die DFG die für Open-Access-Veröffentlichungen anfallenden Gebühren?
- Wo finde ich weitere Informationen zu Open Access?



- HOME
- RESEARCH AREAS
- FUNDING
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- DOCUMENT LIBRARY
- NEWS
- ABOUT NSF

## PUBLIC ACCESS

To Results of NSF-funded research and corresponding provision of infrastructure and funding

- Funding
- What we do**
- About us
- News

### BILL & MELINDA GATES FOUNDATION OPEN ACCESS POLICY

The Bill & Melinda Gates Foundation is committed to information sharing and transparency. We believe that published research resulting from our funding should be promptly and broadly disseminated. We have adopted an Open Access policy that enables the unrestricted access and reuse of all peer-reviewed published research funded, in whole or in part, by the foundation, including any underlying data sets.

*Related*  
[OPEN ACCESS POLICY FAQ](#)

## Open research

We want the research we fund to have the greatest possible impact



## RESEARCH & INNOVATION

Open Science

European Commission > Research & Innovation > Open Science

- Home
- Open Access
- European Open Science Cloud
- Open Science Policy Platform
- Expert Group on Altmetrics
- Open Science Monitor

# Open Access (Open Science) in Germany

- Priority Initiative "Digital Information" of the **Alliance of Science Organisations in Germany**: equipping scientists and scholars with the information infrastructure best suited to meeting their research needs
  - "guarantee the broadest possible access to digital publications, research data and other source materials and thus ensure that they can be used in other research contexts"
- All major research organisations as well as research funders (DFG, AvH) have signed the **Berlin declaration on Open Access** as well as the follow-up **initiative OA2020**
- **Copyright** legislation in Germany: Inalienable second publication right for scientific journal publications (since 01/2014)
- **Project DEAL** – conclude nationwide licensing agreements for the entire portfolio of electronic journals from major academic publishers, including OA provision for papers from Germany-based authors

# Deutsche Forschungsgemeinschaft

- Since January 2006: guidelines for the publication of results from DFG-funded projects on an open-access basis:
  - if possible, recipients of DFG research grants should make their results available online in digital format and free of charge; publication in suitable open-access journals or the retroactive provision of previously published papers in open-access repositories
  - publication allowances in grants can be used for OA processing fees
- Open-Access Publishing Programme: helps research universities to set up publication funds to pay fees required for articles in open-access journals
- Funding for "Infrastructure for Electronic Publications and Digital Science Communicatio" for projects that
  - establish and develop open-access journals or open-access repositories
  - support transformation in open access by testing and implementing innovative approaches towards the technology, organisation or business models behind science communication in the digital sphere (e.g. linking of articles to research data, trialling of open peer review, transformation of subscription-only journals into open-access publications)

# Bundesministerium für Bildung und Forschung (BMBF)



- September 2016: **Strategy „Open Access in Germany“** defining framework conditions and supporting the implementation
- **Open Access provision** in funding principles: publications generated in funded projects should be made available OA, either in an OA journal or by green OA after publication, with an embargo period of not more than 12 months. Green OA publication of scientific monographies is explicitly encouraged
- **Publication costs** incl. OA fees can be financed through project budget
- Call for proposals 1.9.2017: funding of OA publications resulting from concluded BMBF-funded projects (**Post-Grant-Fund**)

# Open Science in the EU



- One of the main priorities of the current research commissioner and part of the Digital Single Market Initiative
- Activities:
  - Creating favourable (legal) conditions, e.g. for Text & Data Mining
  - Support for adequate infrastructure, e.g. European Open Science Cloud
  - Integrating OA principles in funding provisions (Horizon 2020)
  - Creating incentives for Open Science activities
  - Initiating discussion and expert reports on Open Science aspects
  - Bringing (Open) Science closer to society, e.g. looking at Citizen Science
  - Open Science Policy Platform (OSPP) – Expert Group with all relevant stakeholders to provide advice and co-design an Open Science Policy Agenda for Europe
- Also: bottom-up initiatives, e.g.





# Open Access / Open Research Data in Horizon 2020

- Any **peer-reviewed publication** (primarily journal articles but also monographies, etc.) generated within a funded project must be made openly accessible, free of charge (embargo periods possible: 6/12 months)
- Pilot on *Open access to research data*:
  - Improve and maximise access to and re-use of research data generated by projects
  - Targeted primarily towards **data underlying publications**
  - **Opt out** is possible at any stage for reasons of IPR, confidentiality/privacy and security reasons
  - General approach: **as open as possible, as closed as needed**
  - **Data Management** according to the **FAIR principles** becomes part of projects
- **Costs** for OA publications and data management/sharing are fully eligible within the project duration (must be included in project budget plan!)

# Useful EU Commission resources on Open Science

Expert reports:

- [Providing researchers with the skills and competencies they need to practice Open Science](#)
- [Evaluation of Research Careers fully acknowledging Open Science Practices](#)
- [Next-generation metrics: Responsible metrics and evaluation for open science](#)
- Coming up: report from the Expert Group on the Future of Scholarly Publishing and scholarly Communication

[Open Science Monitor](#) – “Open science occurs across the research process and there are many different activities that can be considered part of this evolution in science. The open science monitor tracks trends in areas that have consistent and reliable data.”

# Research Data Infrastructures

- **European Open Science Cloud (EOSC)**: virtual environment to store, share and re-use data across disciplines and borders; cloud-based services and world-class data infrastructure
- **German Council for information infrastructures (RfII)**: strategic development of a contemporary and sustainable infrastructure for access to scientific Information.
- **Generic Research Data Infrastructure (GeRDI)**:
  - Pilot data centre for a Germany-wide system for the management of/ access to research data, via research data repositories, especially at universities
  - Central access to distributed repositories
  - Model for a possible future German Research Data Infrastructure (recommendations of the RfII)
  - Connectivity of the German science system with a future EOSC

## A funder supporting new ways of publishing

- Supports reproducibility and transparency.
- Uses an open research publishing model: immediate publication followed by open invited peer review.
- Includes all supporting data, enabling reanalysis, replication and reuse.
- Implemented by “F1000Research”, an Open Research publishing platform (commercial, founded by a publishing entrepreneur)



## Wellcome Open Research

A new way for Wellcome-funded researchers to rapidly publish any results they think are worth sharing.

# Links

- German information platform <http://open-access.net>
- **Allianz der Wissenschaftsorganisationen** Schwerpunktinitiative "Digitale Information" (<http://www.allianzinitiative.de>)
- **DFG and OA:** [http://www.dfg.de/foerderung/faq/open\\_access\\_faq/index.html](http://www.dfg.de/foerderung/faq/open_access_faq/index.html)  
[http://www.dfg.de/en/research\\_funding/programmes/infrastructure/lis/open\\_access\\_funding\\_open\\_access/index.html](http://www.dfg.de/en/research_funding/programmes/infrastructure/lis/open_access_funding_open_access/index.html)
- **BMBF** Open Access strategy <https://www.bmbf.de/de/open-access-das-urheberrecht-muss-der-wissenschaft-dienen-846.html>
- **OA2020** - an initiative building on the [Berlin Declaration on Open Access to Knowledge in the Sciences and Humanities](https://www.berlin.de/berlin-declaration-on-open-access-to-knowledge-in-the-sciences-and-humanities): <https://oa2020.org>
- **EU Commission Open Science** website  
<https://ec.europa.eu/research/openscience/index.cfm>
  - EC Open Access Guidelines:  
[http://ec.europa.eu/research/participants/data/ref/h2020/grants\\_manual/hi/oa\\_pilot/h2020-hi-oa-pilot-guide\\_en.pdf](http://ec.europa.eu/research/participants/data/ref/h2020/grants_manual/hi/oa_pilot/h2020-hi-oa-pilot-guide_en.pdf)
  - EC Data Management Guidelines:  
[http://ec.europa.eu/research/participants/data/ref/h2020/grants\\_manual/hi/oa\\_pilot/h2020-hi-oa-data-mgt\\_en.pdf](http://ec.europa.eu/research/participants/data/ref/h2020/grants_manual/hi/oa_pilot/h2020-hi-oa-data-mgt_en.pdf)
- **OpenAIRE** - OA infrastructure for Research in Europe: [www.openaire.eu](http://www.openaire.eu)

## Kontakt



**Mareike Schmitt**

[mareike.schmitt@kowi.de](mailto:mareike.schmitt@kowi.de)

+32-(0)2-548 02 22

KoWi Open Access Team

<http://www.kowi.de/kowi/antrag-projekt/vertragsmanagement/regeln-geistiges-eigentum/open-access/open-access.aspx>



**kowi.de**



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# EC funded projects for Open Access support

**OpenAIRE:** OA infrastructure for Research in Europe. Links zu 5800 Repositorien, Zenodo, Helpdesks. [www.openaire.eu](http://www.openaire.eu)

**EUDAT:** Pan-European infrastructure providing research data services [eudat.eu](http://eudat.eu)

**FOSTER:** Facilitate Open Science Training for European Research [www.fosteropenscience.eu](http://www.fosteropenscience.eu)

**PASTEUR4OA:** Open Access Policy Alignment Strategies for European Union Research [www.pasteur4oa.eu](http://www.pasteur4oa.eu)

**RECODE:** Policy Recommendations for Open Access to Research Data in Europe [recodproject.eu](http://recodproject.eu)