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

* “Association for the Promotion of European and International Cooperation in Science e.V.”
Dimensions of Open Science

Changes in the modus operandi of research

* These indicators are for both open access to publications and open scholarly communication.
The funders’ perspective

- Funders are concerned with responsible management of (public) funds & maximum impact of their funding
- Funders generally stress that sharing and exchange makes for better science
- → Funders support the Open Science development by policies and corresponding provisions (rules and incentives), infrastructure and funding
The funders' perspective

- Funders are concerned with responsible management of public funds and widest possible impact.
- Funders generally stress sharing and exchange, making for better science.
- Funders support the Open Science development by policies and corresponding provisions (rules and incentives), infrastructure, and funding.
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
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 Communication“ 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)
Links

- German information platform [http://open-access.net](http://open-access.net)
- **Allianz der Wissenschaftsorganisationen** Schwerpunktinitiative "Digitale Information“ ([http://www.allianzinitiative.de](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)
- **BMBF Open Access strategy** [https://www.bmbf.de/de/open-access-das-urheberrecht-muss-der-wissenschaft-dienen-846.html](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://oa2020.org](https://oa2020.org)
- **EU Commission Open Science** website [https://ec.europa.eu/research/opencourse/index.cfm](https://ec.europa.eu/research/opencourse/index.cfm)
- **OpenAIRE** - OA infrastructure for Research in Europe: [www.openaire.eu](http://www.openaire.eu)
Kontakt

Mareike Schmitt
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
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 [recodeproject.eu](http://recodeproject.eu)