

Göttingen/ **/eResearch Alliance**

Institutional support for developing data strategies on the campus

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Supporting and reviewing Data Management Plans @ IDCC 2016 – 25.02.2016

Overview

1. Requirements on data management
2. The Göttingen Campus and the eResearch Alliance
3. Specific support for data management
4. Outlook

Policies, requirements

- RDM guidelines
- Quite unspecific

Subject-Specific Recommendations for the Handling of Research Data

→ Information for Researchers No. 66/2015: DFG adopts Guidelines on the Handling of Research Data (available in German only)

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→ Information for Researchers No. 36/2015: Guidelines on the Handling of Research Data in Biodiversity Research

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• <http://goo.gl/NixeOU>

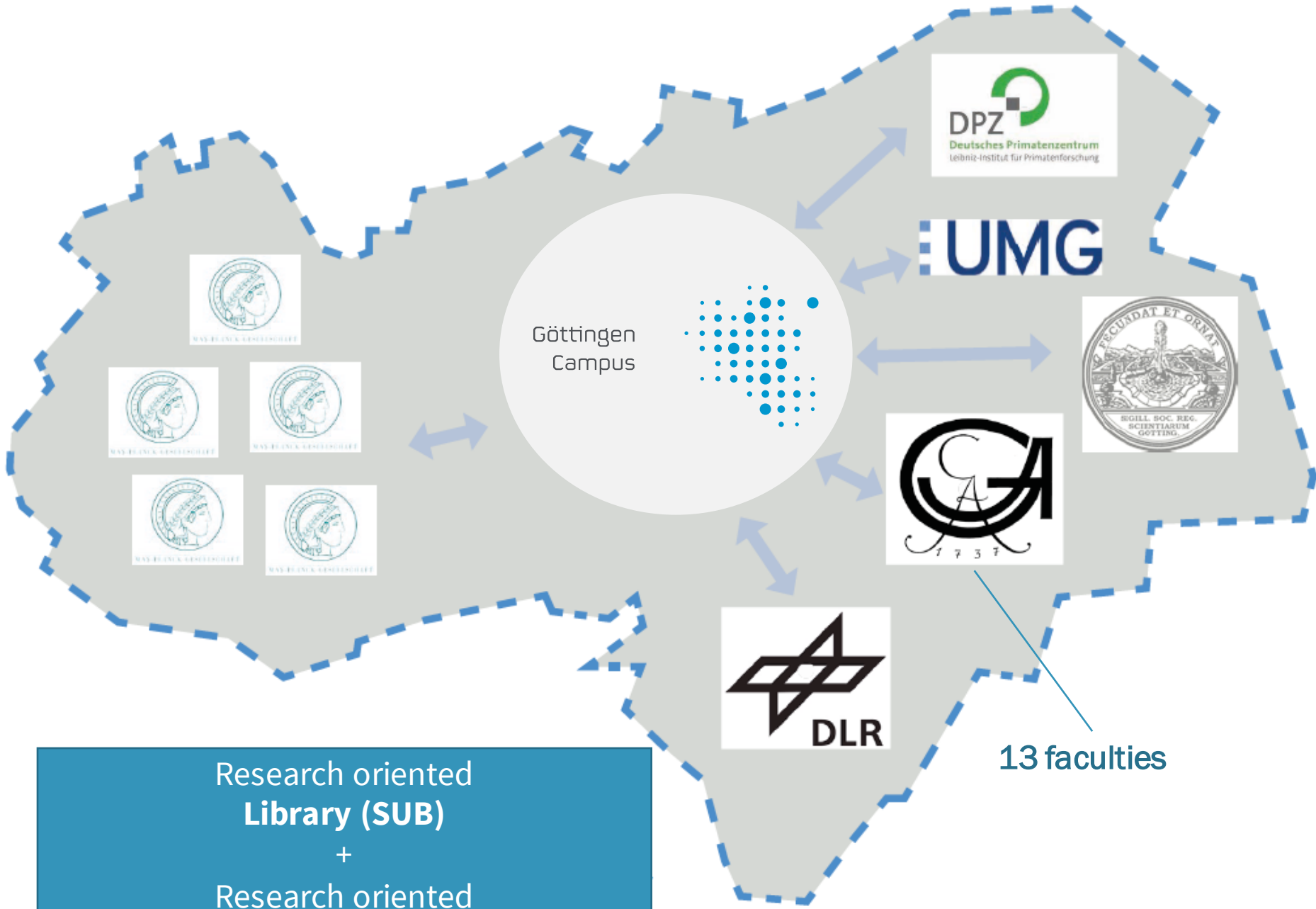
• http://www.dfg.de/download/pdf/dfg_im_profil/reden_stellungnahmen/download/empfehlung_wiss_praxis_1310.pdf

The Georg-August-University Goettingen is committed to diligently preserve results of scholarship, to produce novel results through research, and to make results accessible and reusable for academia and the wider society, now and for future generations. The management, protection, preservation and sustainable provision of research data must therefore be carried out in accordance with recognized standards, meet high expectations and fulfil legal and ethical obligations. The University acknowledges that the implementation of this guideline will depend on the settings and requirements of each subject area.

1. The University promotes and supports open access to research data.
2. Research data are those data collected, observed, simulated, derived, or generated during the course of research.
3. Management of research data includes their planning, collection, processing, and preservation. It ensures the access to, and the reuse, reproducibility, and quality assurance of all research data underpinning research results.
4. Research data management is generally the responsibility of the person leading a project and the researcher who is acting in an individual capacity. A particular responsibility is the adherence to good practices of research as well as standards in their subject area.
5. Research projects with research data require a data management plan that includes but is not restricted to the topics of access rights to research data and necessary precautions for handling them.
6. The University provides support and advice for research data management in the preparatory stages of research projects, during their conduct and after their completion, and provides appropriate training.
7. The University implements and maintains essential services for research data infrastructure that ensures adequate storage and technical availability of digital research data. Specific requirements have to be aligned among all stakeholders and may involve additional funding.
8. Storage and archiving of digital research data is carried out within the technological and informational infrastructure of the University or in acknowledged external or internal subject repositories.
9. The University and its researchers adhere in their research data management to given conditions of ethics, data protection, intellectual property, privacy and disclosure. This leaves regulations untouched that relate to an assessment of research data according to the German employee invention act and specific contractual agreements.
10. If exploitation or publication rights of data were transferred to third parties, it should be a precondition that research data remain openly and freely available for research purposes.



July 2014:
Research data policy of the
Georg-August University Goettingen
(incl. UMG)



Göttingen
Campus



UMG



13 faculties

Research oriented
Library (SUB)
+
Research oriented
Computing Center (GWDG)

eResearch Alliance: Basics

- All services for eResearch from one hand
- Co-chaired by Library and IT
 - GWDG: ~ 120 people, 30 in eResearch
 - SUB: ~ 450 people, 40 in eResearch
- **Brokering-Office** with c. 5 people (since 10/2014)
 - Team from different disciplines w/ eResearch expertise
 - Actual services and projects in individual organisations
- Participatory Design
 - e.g. Research Office in Steering Committee
 - eResearch Council with official Campus delegates

Göttingen
Campus



Göttingen/ **/eResearch Alliance**

Consulting

Brokering

Training

Projects

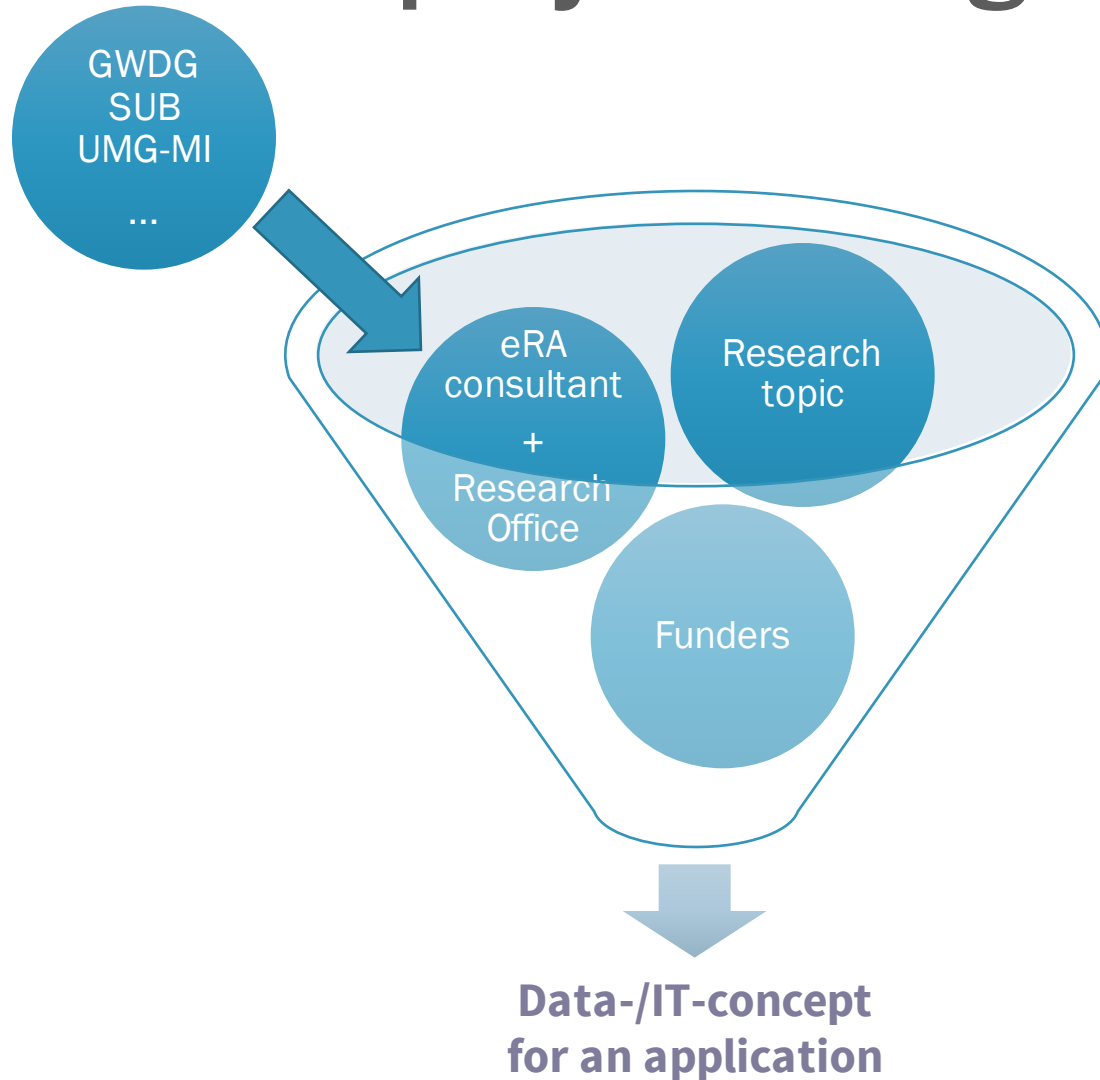
SUB

NIEDERSÄCHSISCHE STAATS- UND
UNIVERSITÄTSBIBLIOTHEK GÖTTINGEN



GWDG

New projects: Together



Funder's requirements

- *Local (Uni Göttingen)*
- *National (DFG)*
- *International (EU)*

Funding programs (#cases)

- AdW (1)
- DFG
 - SFB+TRR (9, 3 w/ INF)
 - GRK (7)
 - FOR (4)
 - 4 newly funded projects

Data strategy

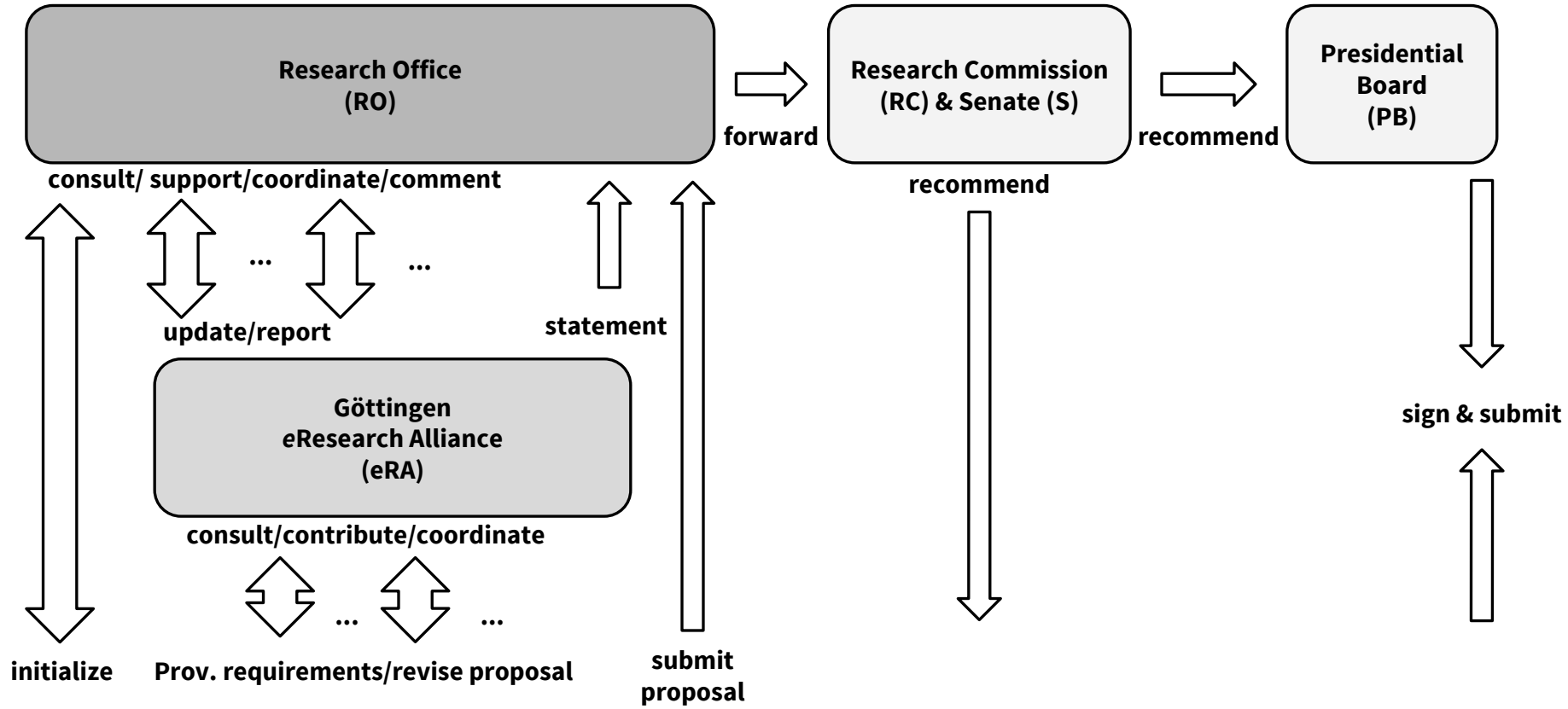
- Data management
 - Technical
 - Policy
- Infrastructure/Organization
 - Reuse
 - New developments
- Training
 - Young researchers

→ Evolving process

In cooperation with the university research commission

- Good scientific practice
- Data strategy
- Resuse of data
- Roles
- Use of local infrastructure
- Development of specific tools for data management
- Sustainability
- Development of infrastrucure and/or software
- Human resources for RDM
- RDM positioned within the local infrastructure & subject community
- Training on RDM
- Reuse of local or (inter)national components
- RDM in sub-projects and overall RDM
- Use of external repositories
- Costs for archival and publication
- Publication of data
- Publications strategy (article and data)

E.g., <http://www.dcc.ac.uk/resources/data-management-plans/checklist>,
http://www.wissgrid.de/publikationen/Leitfaden_Data-Management-WissGrid.pdf



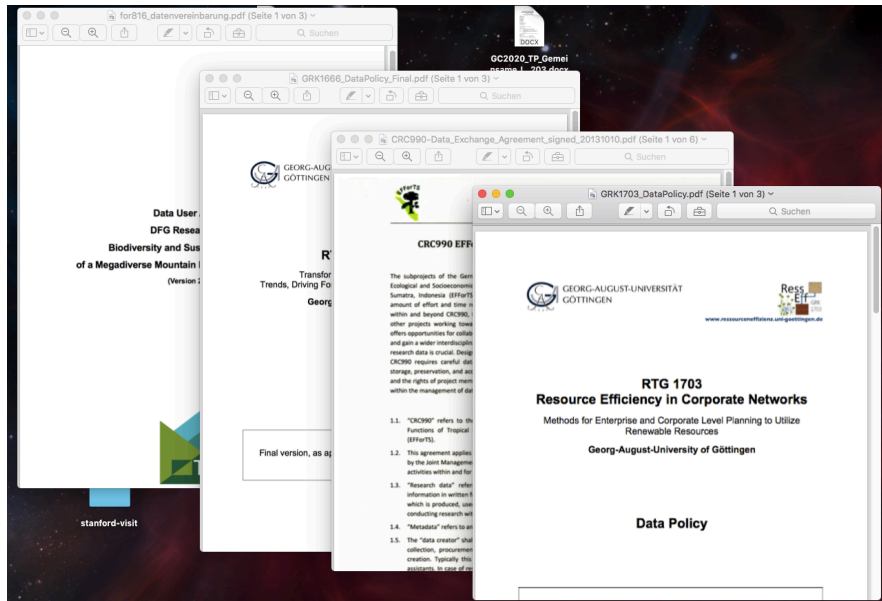
Policies

- Templates available
 - Format of the project
 - Starting to collect discipline specific templates

- Defining roles within research cooperation
 - Principle Investigator
 - Researchers
 - PhD students
 - Coordinator
 - Publication board

- Management of data
 - Ownership
 - Storage
 - Metadata description
 - Distribution
 - Sharing of data

- Publication
 - Articles (based on data within the consortium)
 - Research data





CRC 990 EFForTS: INF-Project

- Large interdisciplinary research project (CRC) with integrated service project for information & infrastructure (INF)
- **100+ researchers**, field work: Indonesian Rainforest
- Lots of different data require management
- Provide an information system for research data, write an Excel transformation script, moderate **sharing agreements**, ...
- **Embedded Data Managers** know: IT Basics, data modelling, concepts of metadata, ... and how to: analyse requirements, moderate discussions, search information, learn new things rapidly ...

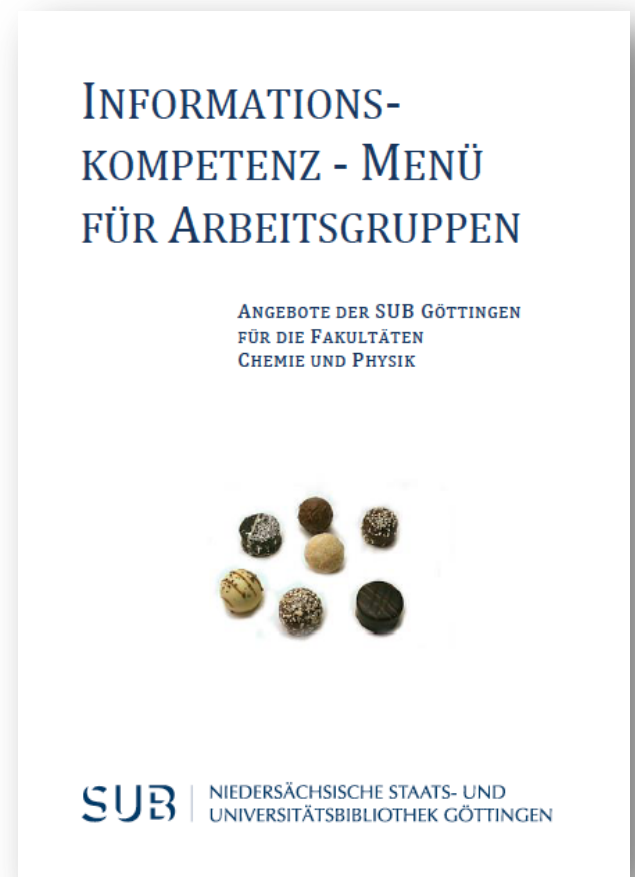


... and are fearless.

Datamanager Fabian Cremer in Indonesia, photo taken by Heike Neuroth

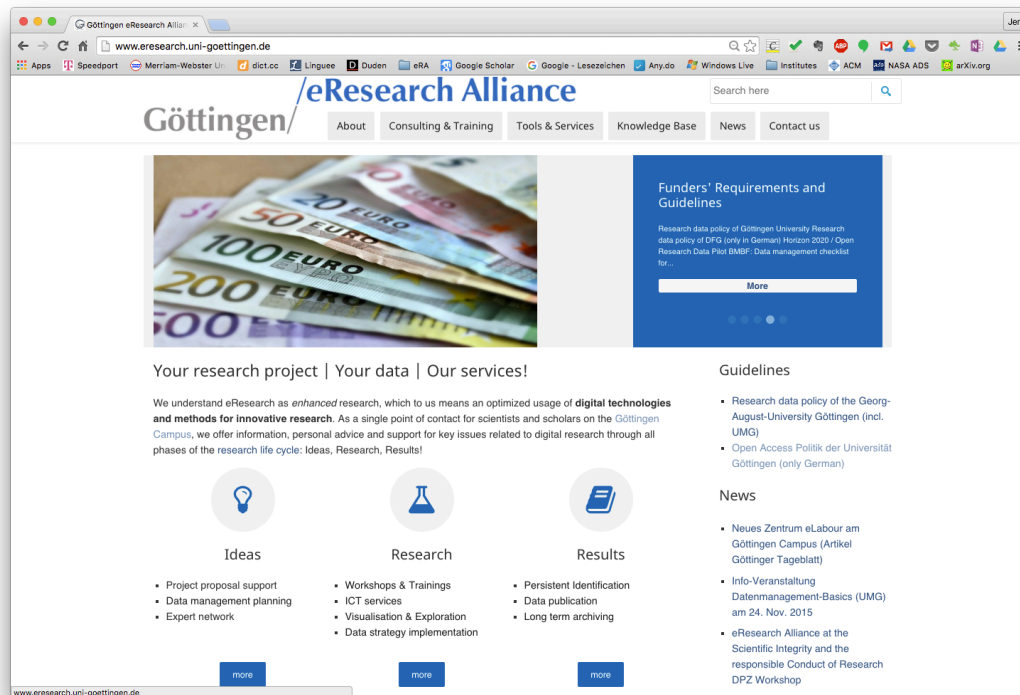
RDM - Training

- Offerings
 - Tailored courses
 - Research training groups
 - Librarians, national
 - Individual institutions and central administration
- Cooperation w/ university didactics
- Together w/ subject librarians offerings on digital literacy and RDM
- Integration of „data science“ into the curriculum

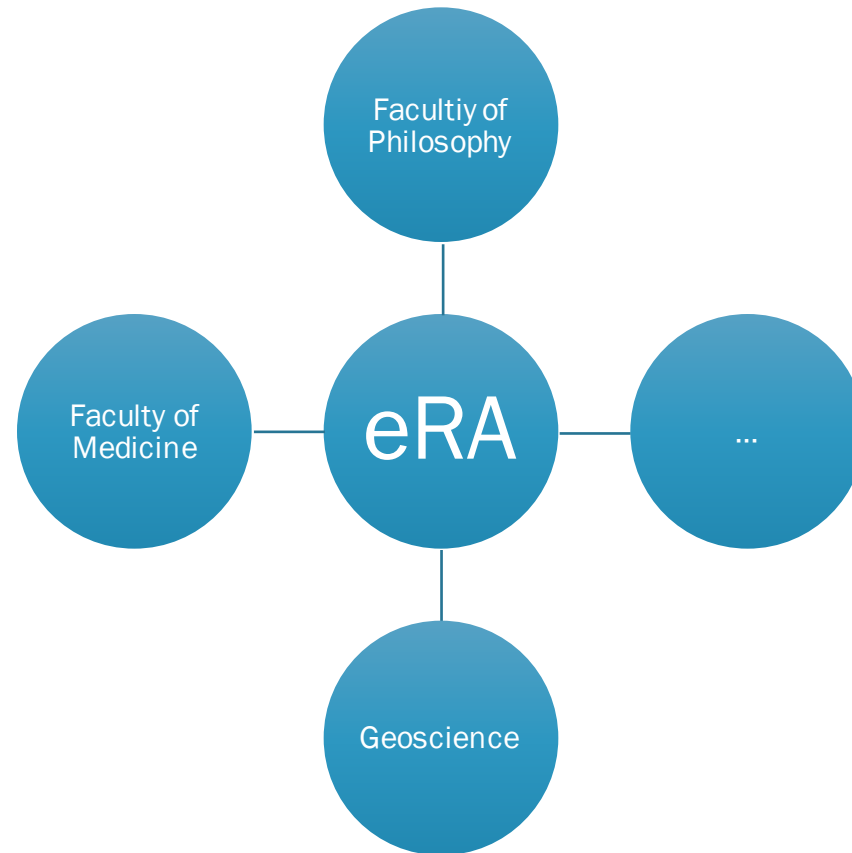


4. Outlook

- Working on supporting the implementation – eRA consultant
- Fill web page with more information
- Searchable knowledge base



Discipline-specific data-management experts



DMPWerkzeug

- <https://dmpwerkzeug.github.io/>
- Project 2015-2017
- Community participation
- Highly customizable to include local requirements
- Göttingen will be one site for tests

Thank You!

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Publication of research data

- Establishing workflows and interfaces to provide PIDs
 - SUB member of DataCite
 - GWDG member of ePIC
- Developing a local institutional repository
- Pooling of resources

Summary and prospects

- Research-oriented infrastructure providers team up
 - Central point of contact
 - Pooling of existing offerings, resources, and know how
 - Collect eResearch requirements
- Better networking
 - Nationally

Guidelines

The following general guidelines apply for applicants submitting proposals to the DFG:

1. Project planning and submission of proposals

Applicants should consider during the planning stage whether and how much of the research data resulting from a project could be relevant for other research contexts and how this data can be made available to other researchers for reuse. Applicants should therefore detail in the proposal what research data will be generated or evaluated during a scientific research project. Concepts and considerations appropriate to the specific discipline for quality assurance and the handling and long-term archiving of research data should be taken as a basis. The relevant explanations must contain information about data types, discipline-specific standards (if applicable) and the choice of suitable repositories, if these are available for a given research area or particular data types. Details should also be provided on any third-party rights affected and preliminary planning for the data publication schedule.

2. Accessibility

Assuming that the publication of research data from a DFG-funded project does not conflict with the rights of third parties (in particular data protection or copyright), research data should be made available as soon as possible. Data should be made accessible at a stage of processing that allows it to be usefully reused by third parties (raw data or structured data). To make sure this is the case, it must be ensured that access to the data is still guaranteed when, through publication, the rights of use relating to research data are transferred to a third party, usually a publishing house.

3. Long-term archiving

In accordance with the rules of good scientific practice, research data should be archived in the researcher's own institution or an appropriate nationwide infrastructure for at least 10 years.

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