

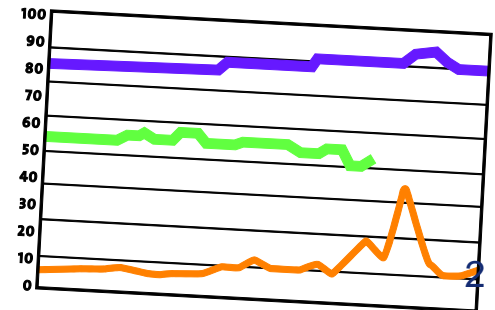
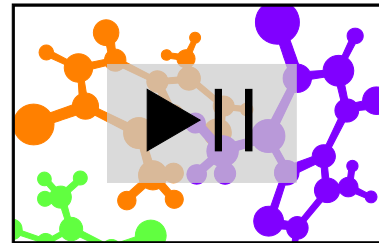
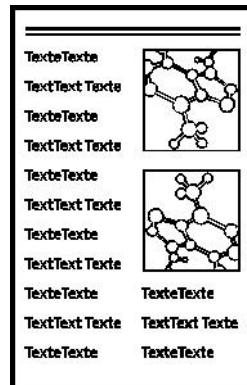
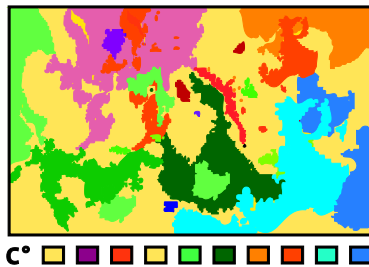
Research Data Management - Roles and Responsibilities

Dr. Janna Neumann
**5th International Symposium on Information Management in a
Changing World**
November 26, 2014, Antalya, Turkey



Research Data Definition

- No clear definition; depending on discipline
- everything that was created during scientific research and that can be used as a basis for scholarly output.
- Data as a result of research
- Data as a source for research



Research Data Management Definition

- all activities concerning processing, archiving and publication of data
- complete, accurate, well-documented data, compliant with ethical standards, open and in preservation-friendly formats
- How to do RDM?
 - give your data a structure, it makes it easier to find things



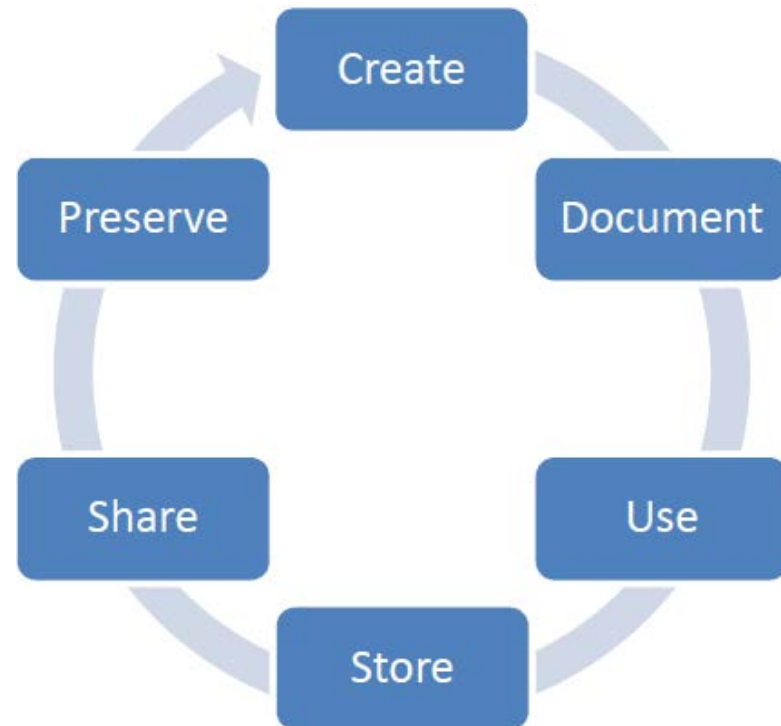
Anne (Flickr ID: I like):
"Voltaire & Rousseau"
CC BY-NC-ND 2.0



twechy (Flickr ID):
"Library Bookshelf"
CC BY 2.0

Research Data Management Lifecycle

- Data Management Planning
- Creating data
- Documenting data
- Using data
- Storage and backup
- Sharing data / Giving Access
- Preserving data



Research Data Management

Roles and Responsibilities

- Responsibilities for RDM distributed across several shoulders
 - Technical
 - Management
 - Data creation
- Stakeholders / Roles
 - Researchers / scientists
 - IT-Specialist
 - Informationmanager (Data Scientist?)
- Experts / Institutions
 - Libraries
 - IT Departments
 - Universities

Research Data Management

New tasks for libraries ?

- Archives and libraries
 - Know how to store and find things
- Information specialists
 - Providing information
 - Supporting researchers with RDM
- Provision of services
 - Information literacy
 - Data management

Research Data Management in Germany I

- University of Göttingen / Library
 - Policy
 - eResearch
 - Support Service
- University of Bielefeld
 - Policy
 - Infrastructure for archiving and publication
 - DMP support (online tool)
- Berlin / Humboldt University
 - Policy
 - DMP support manual
- University of Heidelberg
 - Policy
 - Support group located at library



UNIVERSITÄTS-
BIBLIOTHEK



Research Data Management in Germany II

- ZBW and GESIS
 - Online RDM training for social sciences
- Several working groups
 - Working on topics regarding RDM and long term preservation
 - e. g. DINI/nestor working group for research data
- Funders
 - DMP in proposals
 - Open Data Pilot (H2020)
 - DFG projects (optional)



Research Data Management at University of Hannover

- Short introduction to
 - Leibniz University of Hannover
 - Library for Leibniz University Hannover
- Research Data Management Support Service
 - Library Activities
 - Project Activities

Leibniz University of Hannover

Facts and figures



- 1831 founded as Higher Trade School of Hannover (64 students)
- 1st of July 2006 the "University of Hannover" is given the name "Gottfried Wilhelm Leibniz Universität Hannover"
- 90 subjects
- 23,900 students
- 3,400 graduates in 2013

German National Library of Science and Technology (TIB)

Two Libraries in one



- German National Library of Science and Technology (TIB) founded in 1959
 - world's largest specialized library for science and technology
 - funded by all the Länder and by the federal government
 - By now: 5 sites; open 95 h/week; 1700 seats in reading rooms
 - Responsible for provision of literature and information to university (1831)

TIB Hannover

Facts and Figures



- 5,600,000 books
- 3,370,000 micro-materials
- 103,000 individual digital documents (e.g. E-books, E-dissertations)
- 64,000 E-journals
- 16,800 specialized journals (print)
 - 1,700 Journals from Eastern Europe and
 - 2,800 Journals from Eastern Asia
- 4,100 specialized databases
- 17,040,000 patent documents, norms, standards
- 160 Million metadata-sets in GetInfo-Portal
 - Offering 18 Million pay per view

Research Data Management

Beginnings in Hannover

- 2005: DOI assignment for research data
- 2009: DataCite
- Projects
 - KomFor project (earth sciences) <http://www.komfor.net/>
 - Radar project (generic) <http://www.radar-projekt.org>
- University and Library
 - Established supporting service
 - Guidance DOI assignment for data (library)
 - Guidance for writing project proposal (university)
 - Starting in 2015: RDM project
 - In cooperation with Research Office and IT Services
 - Evaluation of needs
 - Development of support service for RDM



DataCite



KomFor



Research Data Management

Library Support Service

- Development of RDM support service covering different aspects of RDM
 - Data management plan (DMP)
 - Metadata
 - Repositories
 - Publication and citation
 - ...
- Starting Activities:
 - 1. Workshop for Researchers of University (Nov. 2014)
 - Why and How to do RDM?
 - Focus on Data Management Plans
 - Discussion and interactive parts

1. RDM - Workshop

Roadmap

- **Short introduction**
 - Participants / disciplines
 - Expectations
- **Research Data Management**
 - Basic information
 - Benefits
 - Metadata
 - Short exercises: research data and metadata
- **Data Management Plans**
 - Why and How
 - Checklists
 - Short exercise: writing a DMP
- **Repositories**
 - Where to store
 - How to find
 - Live demonstration: re3data.org
- **Feedback**

1. RDM - Workshop

Lessons learned

- Raising researchers awareness
- Giving basic information
 - focus in future events
 - Educating less topics
- More profound information in future
 - e. g. in disciplinary events
- Professionalizing workshop event
 - Workshops on regular basis

Library Support Service

Further Developments

- Workshops covering other RDM-topics
 - Copyright
 - Licensing
 - ...
- Webinars (*planned*)
 - Data management plans
 - Metadata
 - Repositories
 - ...
- Other ideas
 - Workshops for Libraries
 - How to develop RDM service
 - Workshops for students

RDM support service

Further Developments

- RDM Project in cooperation with university and IT services
- Kick-off January 2015
- Conception of RDM Service at University of Hannover
 - Policy
 - Support Service
 - Infrastructure
- ***Project plan***
 - Survey to retrieve researchers needs
 - Development of official university policy
 - Development of support service
 - Infrastructure set-up (internal/external)

Conclusion

- Research data and its management
 - highly complex issue
 - various responsibilities
 - various stakeholders
- Establishment of support services
 - Involvement of researchers
 - Work in cooperation
- Many activities already happening
 - Workshops
 - Training material
 - Documents / Manuals
- Raising awareness
- Data as recognized scholarly output

Thank you for your attention!

