

TIB

GERMAN NATIONAL LIBRARY OF
SCIENCE AND TECHNOLOGY

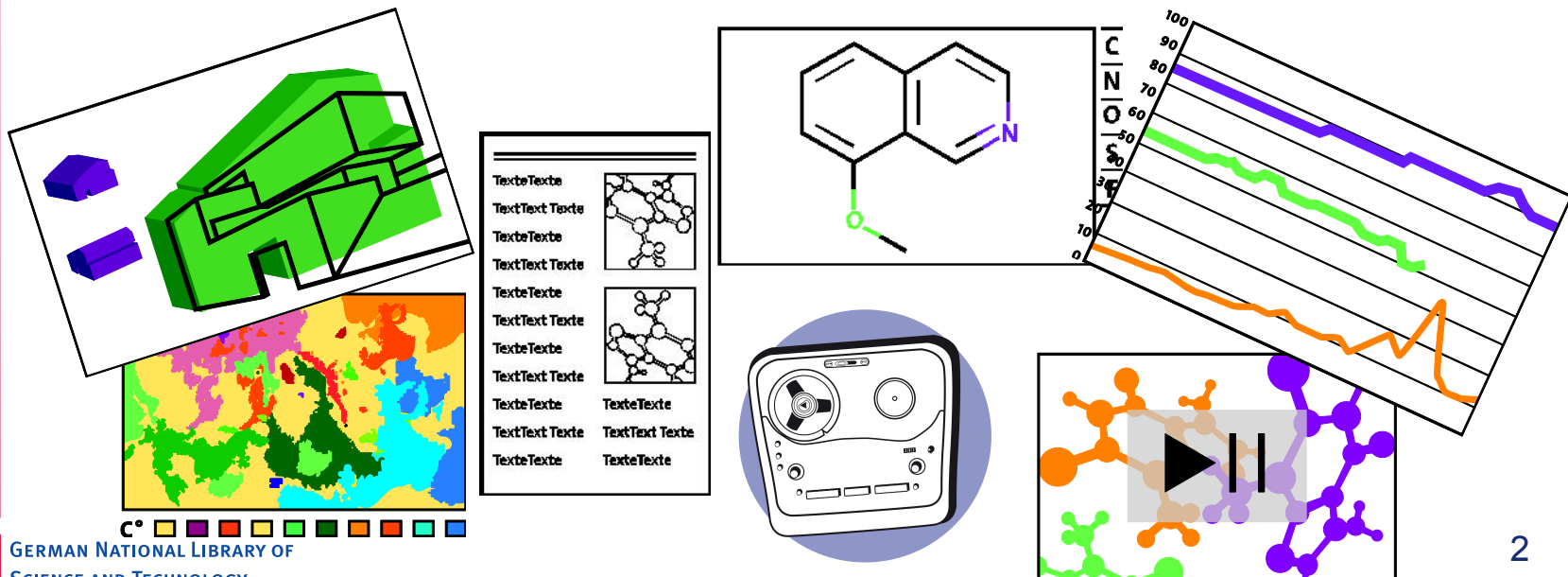
Research Data Management - Activities at University of Hannover

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Research Data Definition

- everything that was created during scientific research and that can be used as a basis for scholarly output.
- a reinterpretable representation of information in a formalized manner suitable for communication, interpretation, or processing



Research Data Management

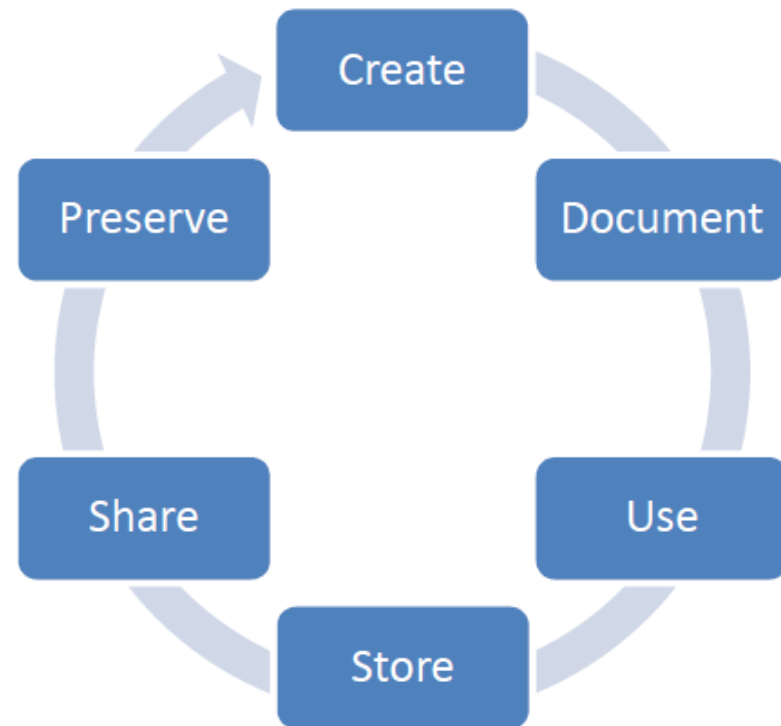
Definition

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



Research Data Management Lifecycle

- Data Management Planning
- Creating data
- Documenting data
- Accessing / using data
- Storage and backup
- Sharing data
- Preserving data



Research Data Management at University of Hannover

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

Leibniz University of Hannover

History



- 1831 founded as Higher Trade School of Hannover (64 students)
- 1879 becomes the "Royal College of Technology" and moves to the Welfenschloss
- 1968 The "College of Technology" becomes the "Technical University,,
- 1978 The "Technical University" is given the name "University of Hannover,,
- 1991 Student numbers exceed 30,000 for the first time
- 2005 The departments are grouped into 9 different faculties
- 1st of Juli 2006 the "University of Hannover" is given the name "Gottfried Wilhelm Leibniz Universität Hannover"

Leibniz University of Hannover

Facts and Figures

- **Courses**

- 90 subjects
- in 180 full and part degree courses
- from 7 subject groups
- grouped into 9 faculties

- **Students**

- ~ 23,900
- ~ 9,800 (41%) women
- ~ 2,000 (8 %) international students (from > 125 countries)

- **Alumni/Graduate**

- 3,400 alumni in 2013
 - 42 % humanities and social sciences
 - 29 % natural sciences
 - 29 % engineering sciences

- **Research**

- 2 Excellence Clusters (in cooperation)
- 4 Selected Research Areas (2 in cooperation)
- 3 Transregios (2 in cooperation)
- 5 Research Training Groups
- 12 Research Groups (8 in cooperation)



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 specialised journals (print)
 - 1,700 Journals from Eastern Europe and
 - 2,800 Journals from Eastern Asia
- 4,100 specialised databases
- 17,040,000 patent documents, norms, standards
- 160 Million metadata-sets in GetInfo
- 18 Million pay per view



Research Data Management

Beginnings

- 2005: DOI assignment for research data
- 2009: DataCite was founded
- Projects
 - Until 2013: KomFor project (earth sciences)
 - Since 2013: Radar project (generic infrastructure)
- University and Library
 - Established supporting service
 - Guidance DOI assignment for data
 - Guidance for writing project proposal (University)
 - Starting 2015: RDM project
 - Evaluation of needs
 - Support Service for RDM

Research Data Management

Library Support Service

- RDM Project Team
 - Library
 - Research and EU Liaison Office
 - IT Services
- Development of RDM support service covering different aspects of RDM
 - Data management plan (DMP)
 - Metadata
 - Repositories
 - Publication and citation
- 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***

Library Support Service

Further Developments

- Workshops on regular basis
 - Covering further topics
 - Copyright
 - Licensing
 - ...
- Webinars
 - Data management plans
 - Metadata
 - Repositories
 - ...
- Workshops for Libraries
 - How to develop RDM service

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
 - Support service conception
 - Infrastructure conception (internal/external)

