Willkommen zum 2. Meeting des RDM4MDR

Dr. rer. nat. Aliće Grünig, M.Sc. Jenifer Kriebel
Forschungsdatenmanagement UMMD

Kontakt: fdm@med.ovgu.de

Mehr Infos?
Besuchen Sie unsere FDM Homepage

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DIZ DATENINTEGRATIONSZENTRUM

MEDIZIN INFORMATIK INITIATIVE

Das UMMD-FDM-Team

IBMI

DIZ

FDM

Alićе Grünig
Koordination

Jenifer Kriebel
Data Steward

Anni Heckert
Data Manager

Christian Grabowski
Data Manager

Demo der FMD-UMMD Homepage

Jeder UMMD-Struktureinheit stehen auf Anfrage 10 TB Speicherquota zur Verfügung. Konkrete Anfragen sind über das Antragsformular auf der UMMD-FDM-Homepage zu stellen.

https://wms.diz-ag.med.ovgu.de/display/FDMHOME/FDM+Home+Startseite

RDM Updates: NFDI Membership

OVGU is now NFDI member

New members are:

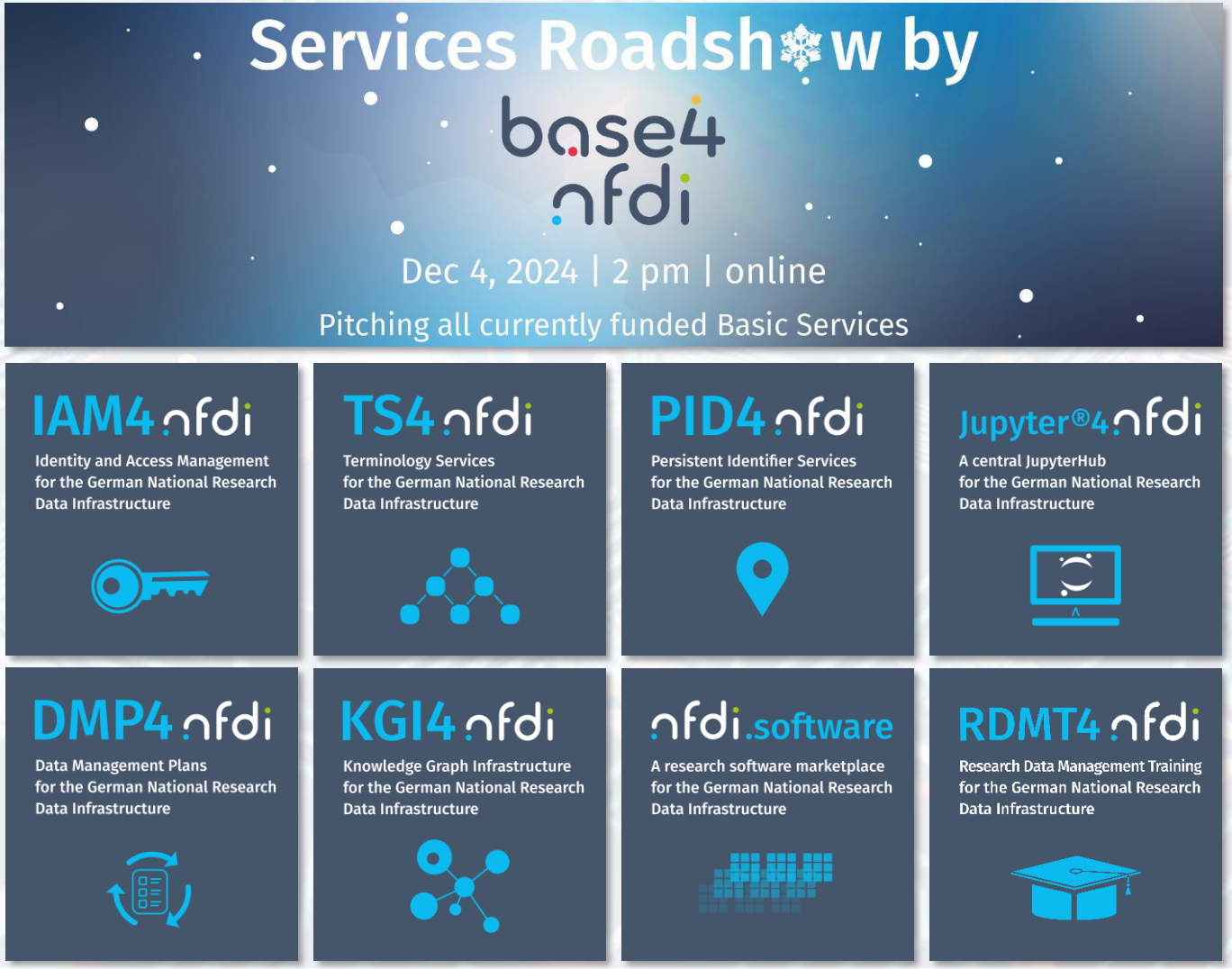
- FH Aachen
- Hochschule Bremen
- Hochschule Düsseldorf
- Hochschule Nordhausen
- Hochschule Rhein-Waal
- Interessengemeinschaft für Semantische Datenverarbeitung
- Otto-von-Guericke-Universität Magdeburg
- Schleswig-Holsteinische Landesbibliothek
- Statistisches Bundesamt
- Universität Ulm
- Vereinigung der Denkmalfachämter in den Ländern (VDL)

Members in total: 306

Active participation in cross-topic sections

https://www.nfdi.de/registration-for-participation-in-the-sections

RDM Updates: Base4NFDI Services Roadshow



https://base4nfdi.de/news-events/events/services-roadshow-by-base4nfdi-12-2024

RDM Updates: EOSC EU Node Services

European Commission

https://open-science-cloud.ec.europa.eu/services

Log in

European Open Science Cloud - EU Node

Home | About | Services | Resource Hub | Support | Contributors | News & Events | User Space

Home > Available Services

Available Services

The EOSC EU Node offers the following services:

File Sync and Share
Enable automatic file syncing and secure sharing across locations and teams.

Interactive Notebooks
Create and share documents with real-time code execution.

Large File Transfer
Streamline large file transfers online with added security and integrity.

Virtual Machines
Design and conduct experiments with flexibility while ensuring reproducibility.

Cloud Container Platform
Deploy cloud-native containerised applications that can easily scale.

Bulk Data Transfer
Move data effortlessly to data-intensive execution environments.

To begin using the services, please log in with your home institutional credentials to gain automatic access. Please consult the User Access Policy for further information.

https://www.zbw.eu/de/eosc-coffee-lectures

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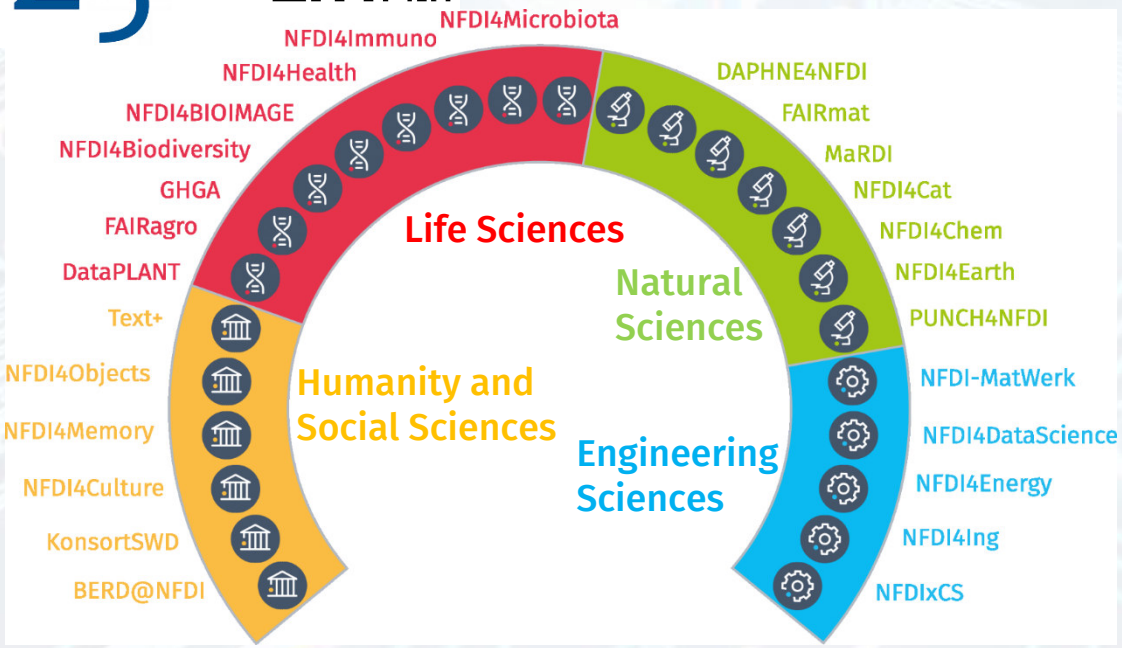
RDM Plans

LOVE DATA Week 2025

10. – 14. February 2025
https://forschungsdaten.info/fdm-im-deutschsprachigen-raum/love-data-week-2025



- Love Data Week Event?
- Promote Participation in NFDI Consortia
- Regular RDM4MDR Community Meetings
  - Focus topics
  - External guests
- OpenProject coming Q1 (?)
- RDM Survey

Focus on Electronic Lab Notebooks (ELN)

Illustration by Connie Clare
https://openworking.wordpress.com/2019/07/05/keep-calm-and-go-paperless-electronic-lab-notebooks-can-improve-your-research

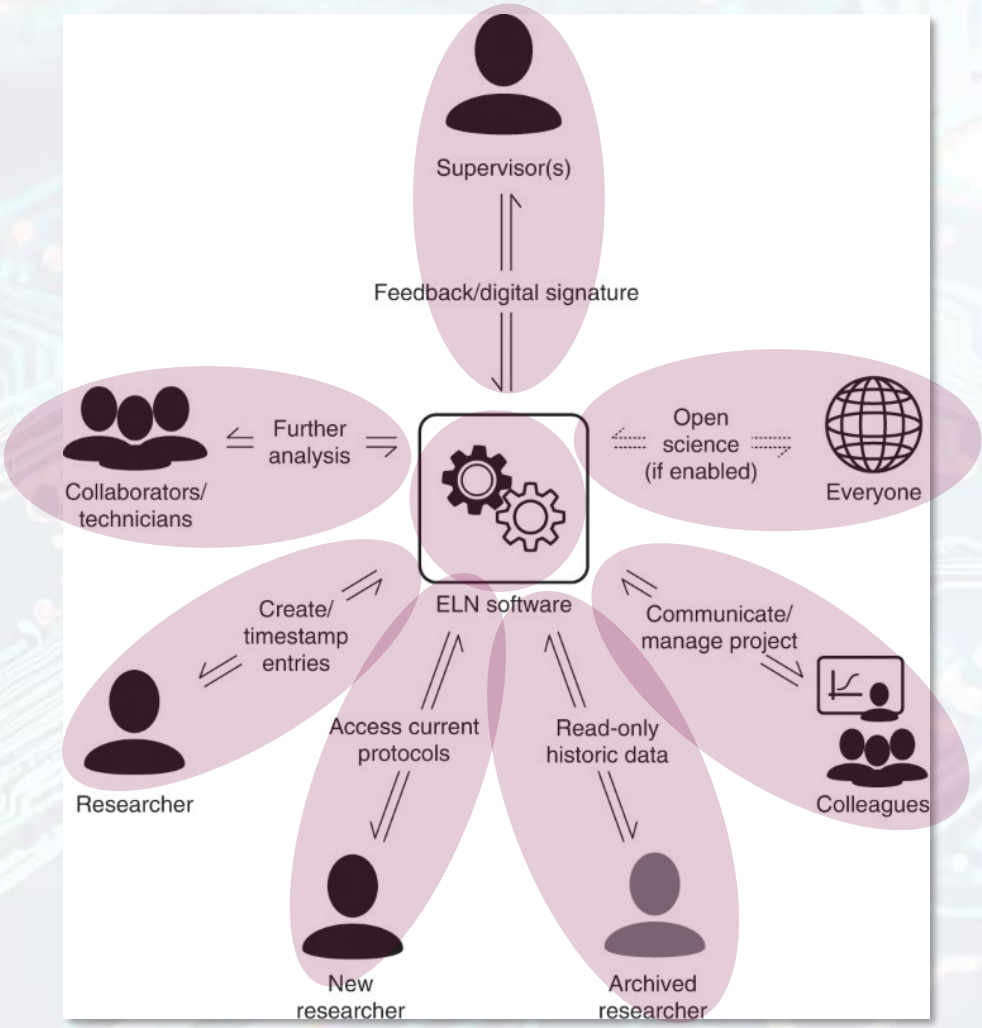
ELN as solution for DFG requirement of documentation

DFG Code of Conduct – Guideline 12: Documentation

- **Documenting all relevant information:**
  "Researchers **document all information** relevant to the **production of a research result** as clearly as is required by and is appropriate for the relevant subject area to allow the result to be reviewed and assessed."
- **Including results that don't support the hypothesis:**
  "In general, this also includes documenting individual **results that do not support the research hypothesis**."
- **Protecting against manipulation:**
  "Documentation and research **results must not be manipulated**; they are protected as effectively as possible against manipulation."
- **Following field-specific standards:**
  "Where subject-specific recommendations exist for review and assessment, researchers create **documentation in accordance with these guidelines**."

04. & 11.02.25:
Introduction to good scientific practice
https://www.wi.ovgu.de/en/Workshops+_+Courses/Introduction+to+good+scientific+practice.html

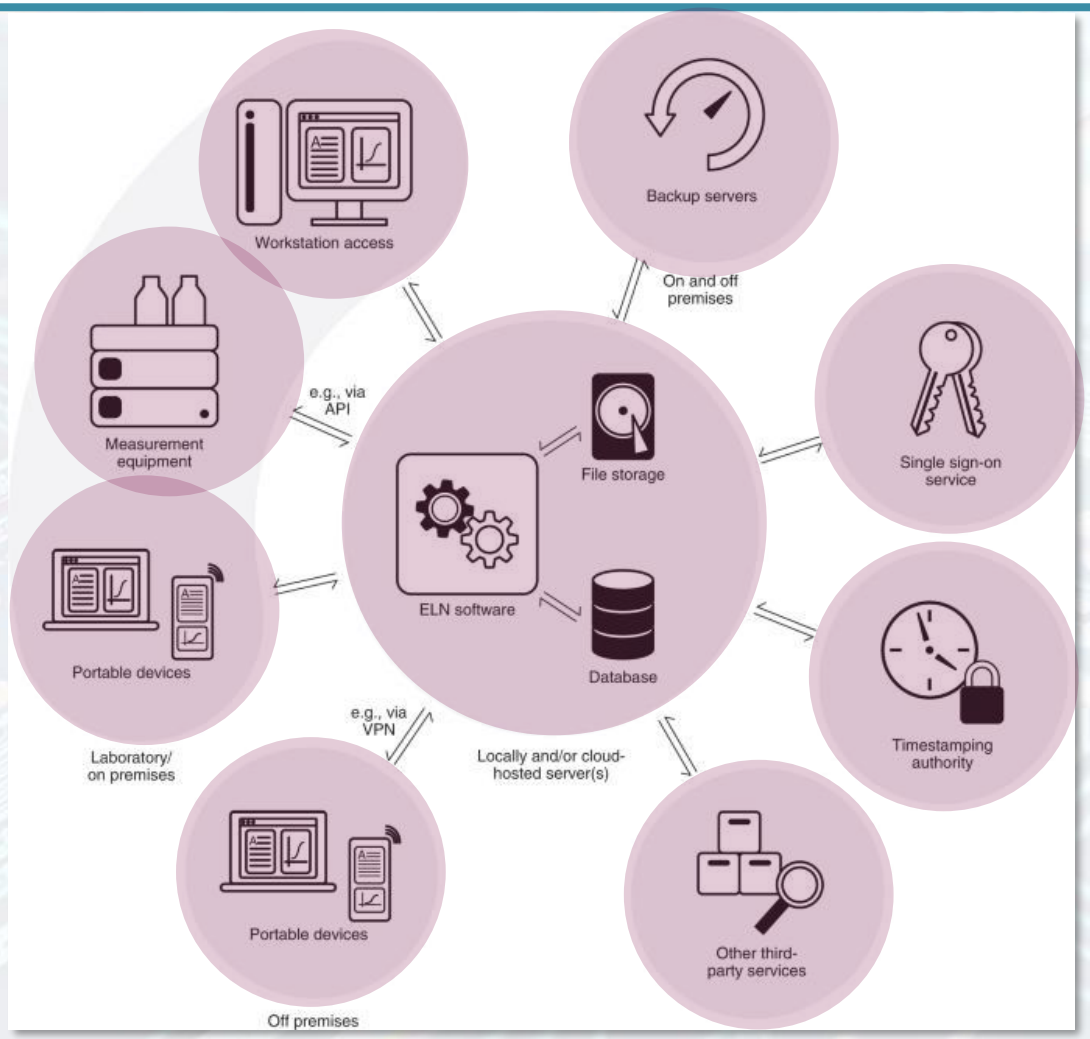
ELNs facilitate research projects



https://www.nature.com/articles/s41596-021-00645-8

- Increase efficiency
- Ensure standards and integrity
- Increase transparency
- Facilitate collaboration
- Facilitate sharing
- Secure documentation
- Long term access

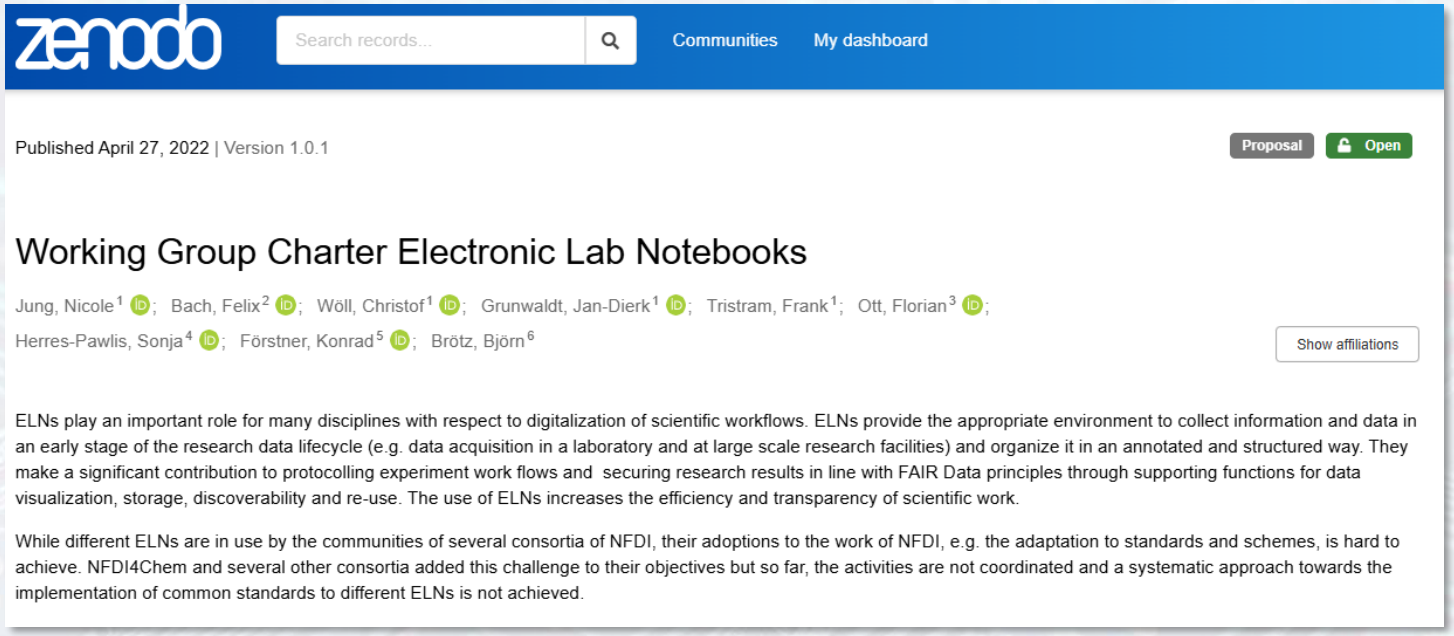
ELNs provide easy and secure access to documentation



https://www.nature.com/articles/s41596-021-00645-8

- central service (URZ, external provider)
- easy access with any input device
  - in lab area
  - outside the lab space
- interoperability with DAQ devices
- back-up
- authorization and access control
- audit, log activity and task time
- Share protocols

ELN: towards central services



zenodo

Search records... Communities My dashboard

Published April 27, 2022 | Version 1.0.1

Proposal Open

Working Group Charter Electronic Lab Notebooks

Jung, Nicole[1]; Bach, Felix[2]; Wöll, Christof[1]; Grunwaldt, Jan-Dierk[1]; Tristram, Frank[1]; Ott, Florian[3]; Herres-Pawlis, Sonja[4]; Förstner, Konrad[5]; Brötz, Björn[6]

Show affiliations

ELNs play an important role for many disciplines with respect to digitalization of scientific workflows. ELNs provide the appropriate environment to collect information and data in an early stage of the research data lifecycle (e.g. data acquisition in a laboratory and at large scale research facilities) and organize it in an annotated and structured way. They make a significant contribution to protocolling experiment work flows and securing research results in line with FAIR Data principles through supporting functions for data visualization, storage, discoverability and re-use. The use of ELNs increases the efficiency and transparency of scientific work.

While different ELNs are in use by the communities of several consortia of NFDI, their adoptions to the work of NFDI, e.g. the adaptation to standards and schemes, is hard to achieve. NFDI4Chem and several other consortia added this challenge to their objectives but so far, the activities are not coordinated and a systematic approach towards the implementation of common standards to different ELNs is not achieved.

- highly valuable tool for NFDI since ELNs could be used to embed the results of the NFDI consortia for **standardization, metadata schemes, ontologies/taxonomies** and different other topics.
- the use of ELNs for scientific documentation can lead to a **direct adoption of the standardization efforts of the NFDI** at a very early stage of the scientific work.
- A systematic use of ELNs could **contribute to the success** of the NFDI. Nevertheless, this requires the **awareness** of scientists to select **suitable ELNs**.

ZB MED-Publikationsportal Lebenswissenschaften

PUBLISSO

ELN-Wegweiser

https://www.publisso.de/forschungsdatenmanagement/fd-dokumentieren

ELN Finder

https://eln-finder.ulb.tu-darmstadt.de

THE ELN CONSORTIUM

https://github.com/theelnconsortium

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ELNs used in MD‘s Research Institutions

eLab Journals

Technische Eigenschaften von eLabFTW:

- Open-source, kostenlos (zusätzlicher bezahlter Support möglich)
- LDAP Authentifizierung
- On prem, Datenhoheit
- Systemunabhängig, läuft in jedem Browser
- Es werden 17 Sprachen unterstützt
- Eignet sich für Anzeige auf Tablet

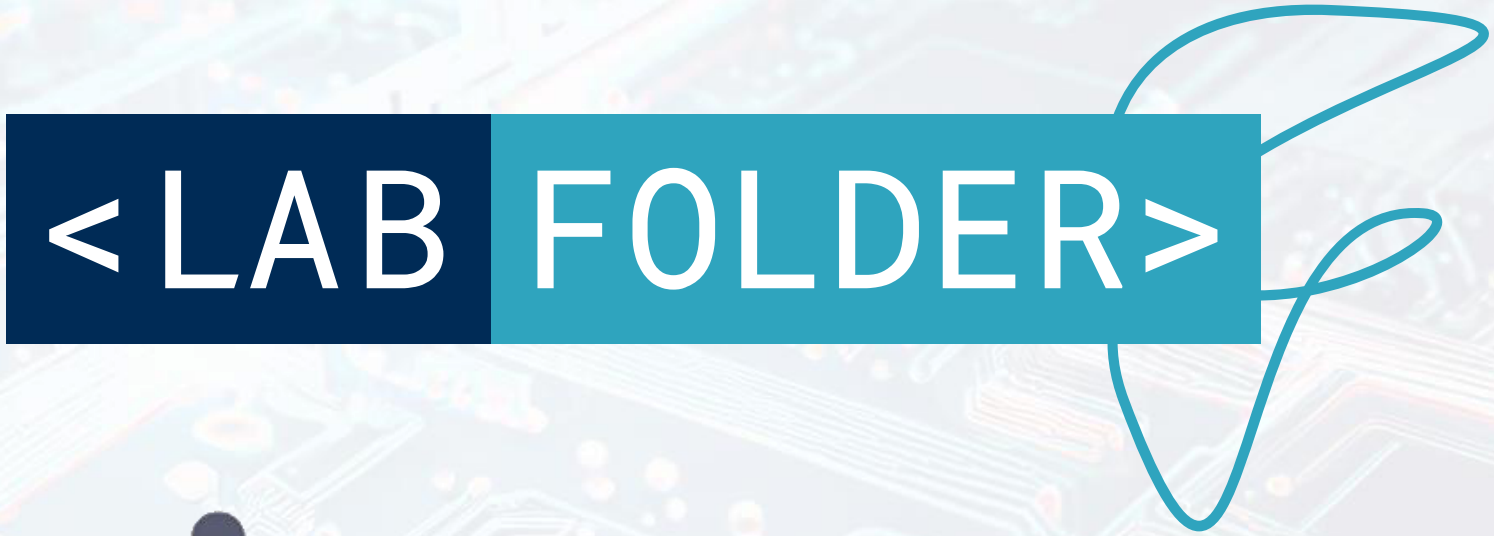
eLab Journals

Nutzungs-Eigenschaften von eLabFTW:

- Generisch, aber dadurch vielseitig
- Templates für Experimente
- Nutzung von Timestamp
- Export in verschiedenen Formaten
- Molekül-Editor
- Zeichenfunktion
- To-do-list
- Große Community

21.01.2025 4pm:
Community Meeting V
https://github.com/elabftw/elabftw/discussions/5396
https://zoom.us/j/96322325182

ELN: Labfolder & RSpace



RSpace

MAX-PLANCK-INSTITUT
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MAGDEBURG

Labfolder @ MPI DCTS

...until 2024

MPI's local Labfolder instance

Local support was difficult (updates etc.)

Grass roots movement

<LAB FORWARD>
CONNECTING LABORATORIES

... restart in 2025

Goal 2025: No more paper-based labbooks

Task Force (Scientific Coordination + 2 Phd Students)

Decision to move to MPDL instance

Export of excising projects only via Pdf

MAX PLANCK digital library

MPG community

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TECHNISCHER SYSTEME
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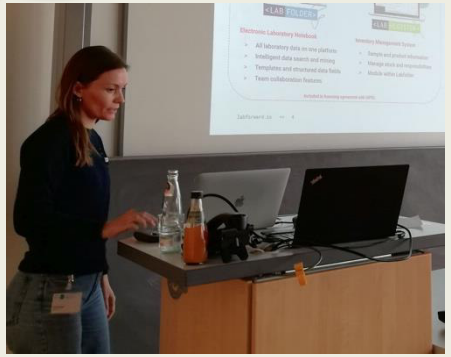
Labfolder @ MPI DCTS

Set-Up

Goal 2025: No more paper-based labbooks

Labfolder Kick-off Training, March 13, 2024



Process owners for each research group

BPE	Daniel Rüdier
ARB	Daniela Bauer
PSE	Markus Ikert
EEC	Monisha Sivasankaran
PCF	Axel Schultheis
PSD	Stephanie Duvigneu

Measures

1. **~ 25 MS Surface Tablets + keyboards + pencils**

2. **Clear folder and group concept**

MPG-external partners can get accounts

3. **Trainings and consultations**

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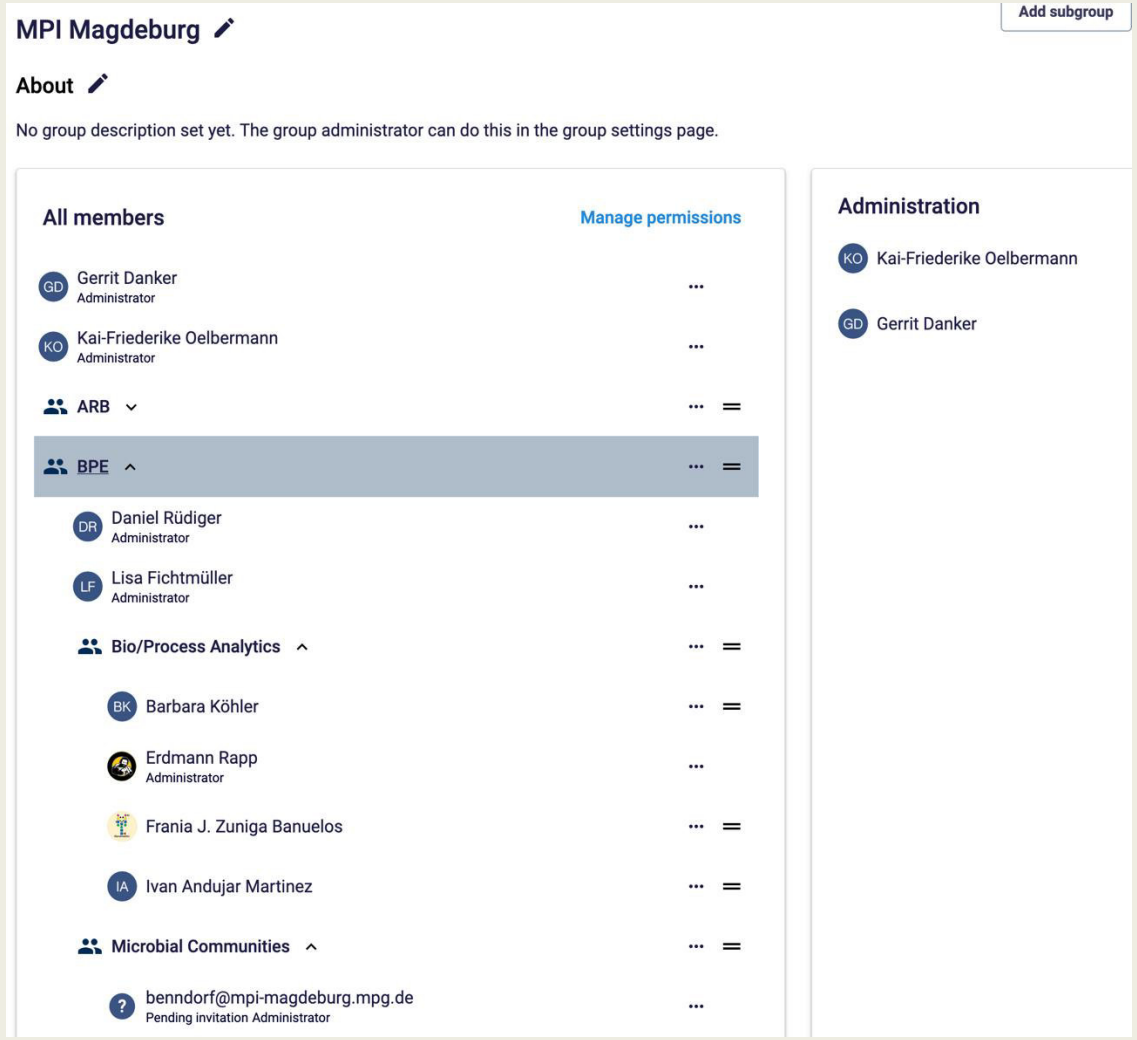
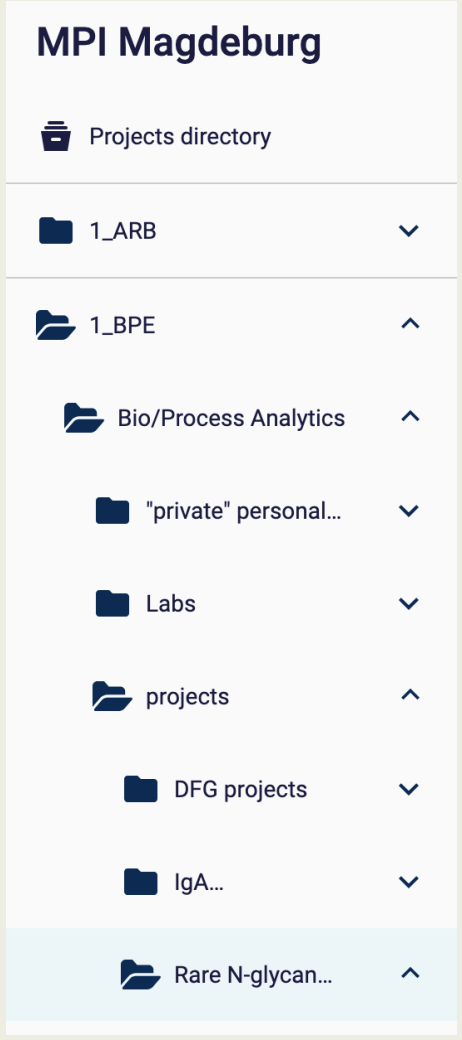
Labfolder @ MPI DCTS

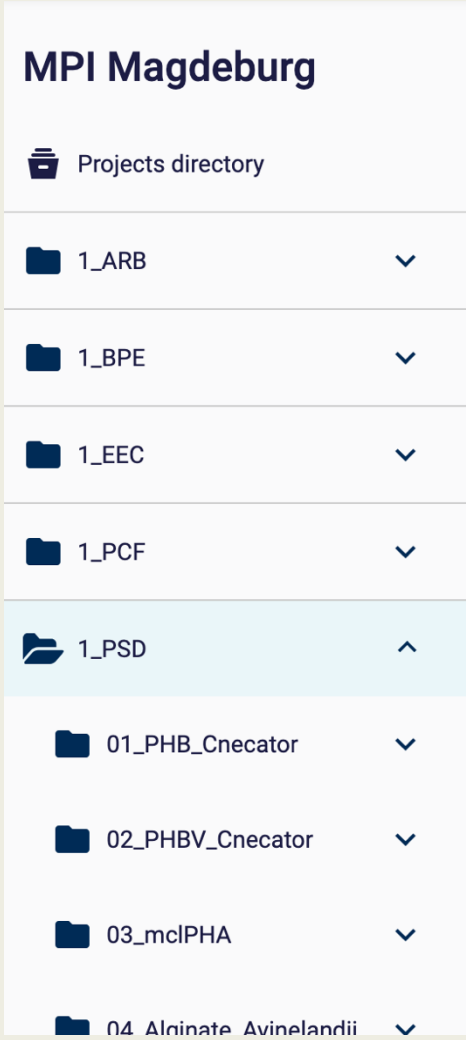
2

Clear group concept



Clear Project concept





3 Trainings and consultations

Monthly online meeting

VERÄNDERT VOR EIN PAAR SEKUNDEN
OWNED THIS NOTE
FREELY

Labfolder Q&A 8.1.2025

- **Thema/Topic**:
  - Kai erzaehlt ueber Netzwerktreffen im Uniklinikum
  - Admin account problem --> Kai wrote labforward for solution ideas
  -

Labfolder Q&A 11.12.2024

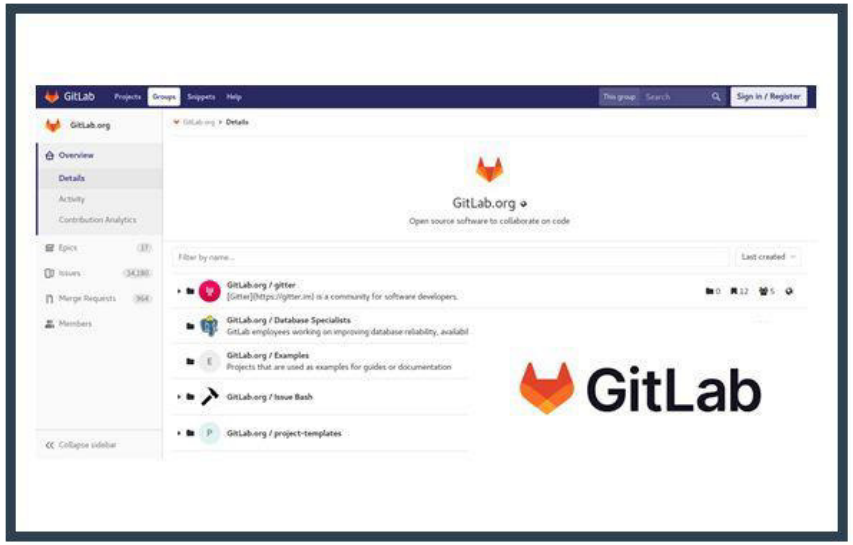
- **Ansprechpartner oder Verantwortlicher von IT/Contact or responsible person from IT** bitte dabei bei Q&A
  *
- admin-accounts für Forschungsgruppen in Labfolder - best practice von Axel und Markus
- **Findable sample names/Probenamen finden in Labfolder** via search function
  - use tags in Labfolder to find samples (Ruben)
  - better ideas?
- **Status about new tablets and equipment**
  - New orders possible starting from January
- **Admin accounts**
  - Separation of user and admin accounts
  - Axel is in contact with IT -> Kai writes labforward for ideas

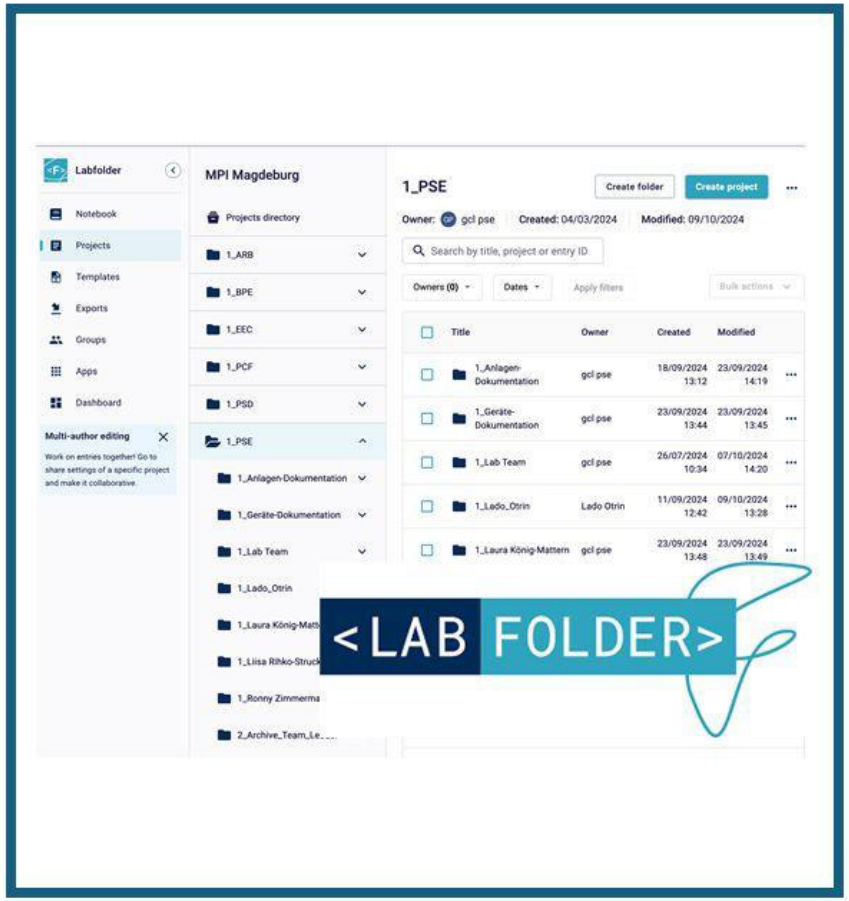
Labfolder Q&A 13.11.2024

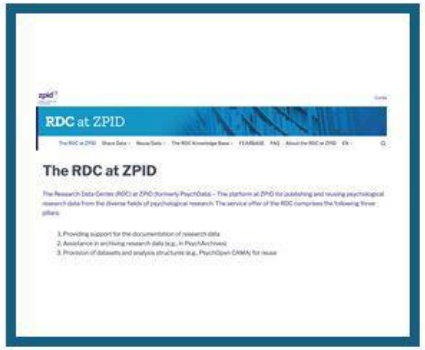
- **smoothening login procedure/Login vereinfachen**:

Lafolder Q&A

ELNs in SmartProSys







ELNs in SmartProSys (EXC Decision on May 22, 2025)

- **Process Labs (PL): LabFolder ELN** (Labforward) for streamlined data capture and sharing in experimental workflows.
- **Molecular Labs (ML): eLabFTW** for precise documentation and collaboration in chemistry-focused research.
- **System Level** studies & questionnaires **(SL):** Leibniz-Institut für Psychologie (**ZPID**)'s Research Data Center supports psychological data management.
- **Computational and Mathematical Programming (CMA): GitLab** for secure, versioned code and model development.