

# ***Implementation of research data management***

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Summer 2023: DFG Hearing

„Data will be made available on request“

UDE-internal CRC initiative: Get the RDM done experimentally!

Discussions within our DFG-Fachkollegium



**My take (July/August 2024):**  
I want to get this done.

**Rationalize:** WHY is DRM important and a question of survival (~fall 2023/spring 2024)

Summer/Fall 2024

- My decision: we do it **now**
- Team decision: we make an IT-week

Our **week-concept** (so far: team week, lab week, IT week):

- A clearly set goal: Get the RDM done including ELN, hot data, data publication, cold data storage
- 2-3 PhDs, referred to *IT-team* in the following, being responsible and project leaders

Resources (**secured by me**):

- Closure of labs for 1 week, no excuses (except illness, death,...); to avoid conflicts with vacations, project meetings: fixation for 02/2025 early enough in ~10/2024
- Training of IT-team by **Research Data Services** (phone call between me and with Stefanie Rehwald)  
→ **train the trainers**

# How did we integrate RDS?

## Train the trainers (this is now „Hörensagen“ as I did not join these activities): IT team + RDS

*We had several meetings with team members of Research Data Services (RDS). Here is a brief summary:*

- *Starting with a **general introduction of different RDM platforms** where it was discussed what is required for our team. We also showed them some experimental softwares (eLabFTW and Gitlab) in the lab for them to get an idea about the raw data.*  
*Participants: Stephanie Rehwald (Lead), Michael Werger, Marlen Externbrink*
- *Second meeting involved the **introduction to eLab FTW**.*  
*Participants: Stephanie Rehwald (Lead), Michael Werger, Sarah Ann Stock (Presenter), Sonja Hendricks (Presenter), Marlen Externbrink (Presenter)*
- *Third meeting involved the **introduction to Coscine** (student of Karin Everschor-Sitte, Physics).*
- *Then we came up to implement it in IT week, Marlen Externbrink took the lead, and we decided to **invite RDS for the final day of IT week**. Participants: Marlen Externbrink (eLabFTW), Michael Werger (Coscine)*

*All the ZIM team members showed great interest in helping us with our RDM needs. They were actively involved in the discussions, open to adjusting the tools based on what we need, and worked with us in a very supportive and friendly way. **We really appreciated their efforts and cooperation.***

# What did we do with this input?

**Plan for the IT week (who is doing what and when) by the IT team, approval by me**

➤ **Day 1:**

- Introduction to eLab FTW: 10:00-12:00
- Lunch: 12:00-13:00
- Demonstration: 13:00-16:00

➤ **Day 2:**

- Creating templates for devices: 10:00-12:00
- Lunch: 12:00-13:00
- Introduction to Cosine: 13:00-16:00

➤ **Day 3 and 4:**

- Hands on application and discussion
- Group picture on Day 3
- Dinner on Day 3 or Day 4: We start at 17:30 from NETZ

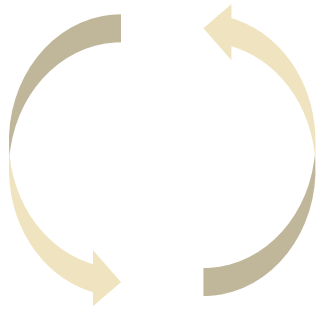
➤ **Day 5:**

- Summarizing and implementation
  - Outlook
- } 9:30-12:00

**My job:** Being reachable for questions/decisions; having interest what is going on; food/drinks, dinner

**Active data: Hot data**

**Long-term storage: Cold data**



**Publications**



**Data publication, codes,  
material properties (to come)**

(To be shifted to Nomad)



**Data of each thesis that is  
not otherwise accessible**

# From IT week to „day 0“ to today

## Follow-up

Mo, 17.2. (after completion of the IT-week): Final wrap-up between me :  
**Tue 18.2.:** Final wrap up with the whole team, finalization of RDM agree

## After-care

Ongoing, all six months:

- IT-team + each member: data check that everything is right, regular c

**RDM agreement** to be signed by everyone,  
inspected together with the annual safety and GSP-introduction:  
constant refinement, modifications where necessary

### RDM Agreement 2025

according to Day 0 – 20250218; to be reviewed constantly via the Moodboard.

Group	EMPI-PST
Group Leader	Prof. Dr.-Ing. Doris Segets
Type of instruction	Hybrid instruction
Presentator	Doris Segets on behalf of the IT team (Mohit Chatwani, Ahammed Suhail Odungat, Osama Anwar)
Agreed topics	Working hours Use of eLabFTW, Scibo, Zenodo and Coscine

With my signature on the next page, I confirm that I have read, listened to and understood the contents of the instruction. I confirm that:

- 1) I will not abuse eLab and the RDM infrastructure to assess the working hours/lab times of my colleagues and co-workers.
- 2) From 18.02.2025 onwards
  - a. I will execute all my experiments by using eLabFTW
  - b. I will install Sciebo on my work laptop (if not yet done, to be done ASAP), enable auto-sync, and store my data in agreement with the eLabFTW file that it is assignable and findable
  - c. I will use Zenodo and make a data publication file alongside all my peer review publications (in contrast to "data will be made available on request")
  - d. I will make a monthly hard copy of my data and follow the Kanban task
  - e. I will hand over my data before leaving PST/finishing my thesis by hard copy, on local drive and a Coscine-backup (project ending 2049 which is the current retirement age of DS, to be stored for 10 years)
  - f. I will save all PST-related files as follows:  
YYYYMMDD\_Given Name\_if needed first name\_description

In case of questions or in case I cannot follow this agreement, I will contact the IT-team, my postdoc (if applicable), and Doris Segets.



# What was important to make this happen?

## General attitude:

**Make:** We do it, we are not afraid of mistakes, having an 85 %-RDM is better than having no RDM,

**Trust:** Problems will be solved underway (vs. aiming for planning each and every eventuality),

**Team culture:** „genau, und...“ instead of „ja,... aber“,

*Regarding the RDM impletentation:*

*From my opinion, the way we did was very efficient. All the time we spent on it and all the discussions with the group during the IT week and team meeting were highly valuable to form the infrastucture that we have.*

*IT week: Having a dedicated week/days for this was a good idea. How else could we do that?. There is no other way we can train everyone, at the same time brainstrom on forming the infrastructure.*

*The RDS team was very helpful during our IT meeting. They answered all our RDM questions clearly and quickly. Without their support, we would have spent much more time figuring things out. Having RDS on board saved us time and gave us valuable information*

*I liked it very much that we had a structured and planned approach towards a transition into RDM. With this, everyone was on the same information level after the IT week and we had a "Day Zero" for the change. Also, appointing 1-2 responsible persons (Mohit and Suhail) for organization and, most importantly, for the after-care is the crucial aspect for a successful transition - in my opinion.*



# Thank you for listening...

## ... and I am looking forward to our discussion!

