Nationale Forschungsdaten Infrastruktur

Sections Onboarding Event

Section Training & Education

Online, 10.12.2025

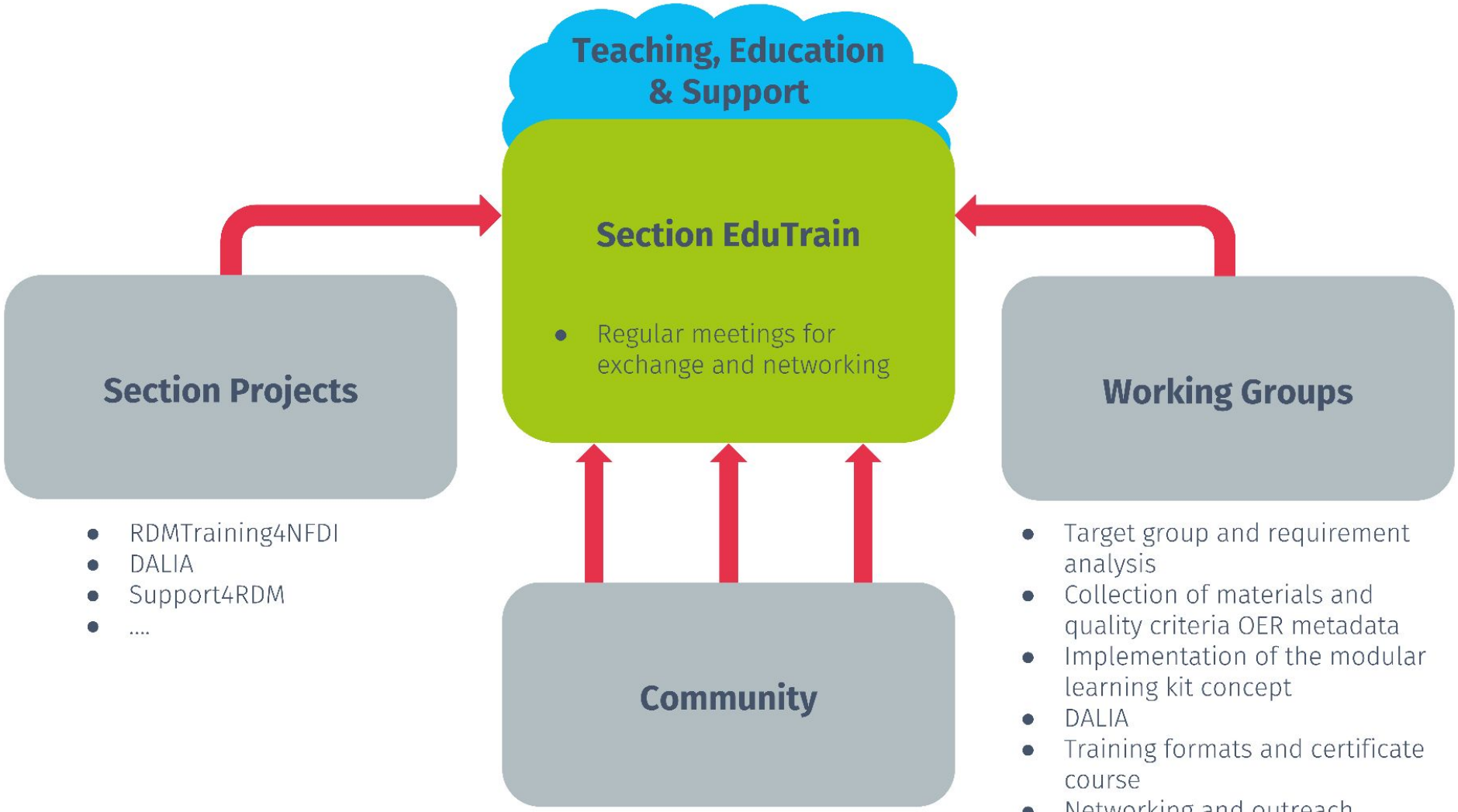
Overview

Nationale Forschungsdaten Infrastruktur

- Break-Out-Room 1: Section Industry Engagement
  - Presenting working groups: overview of all three working groups
- Break-Out-Room 2: Section ELSA
  - Presenting working groups: Ethics
- **Break-Out-Room 3: Section Training & Education**
  - **Presenting working groups: RDM-Helpdesk Network, Training Formats and Certification, Collection of Materials, DALIA**
- Break-Out-Room 4: Section (Meta)daten, Terminologien, Provenienz
  - Presenting working groups: Research Software Metadata, Knowledge Graphs
- Break-Out-Room 5: Section Common Infrastructure
  - Presenting working groups: RSE, DMP

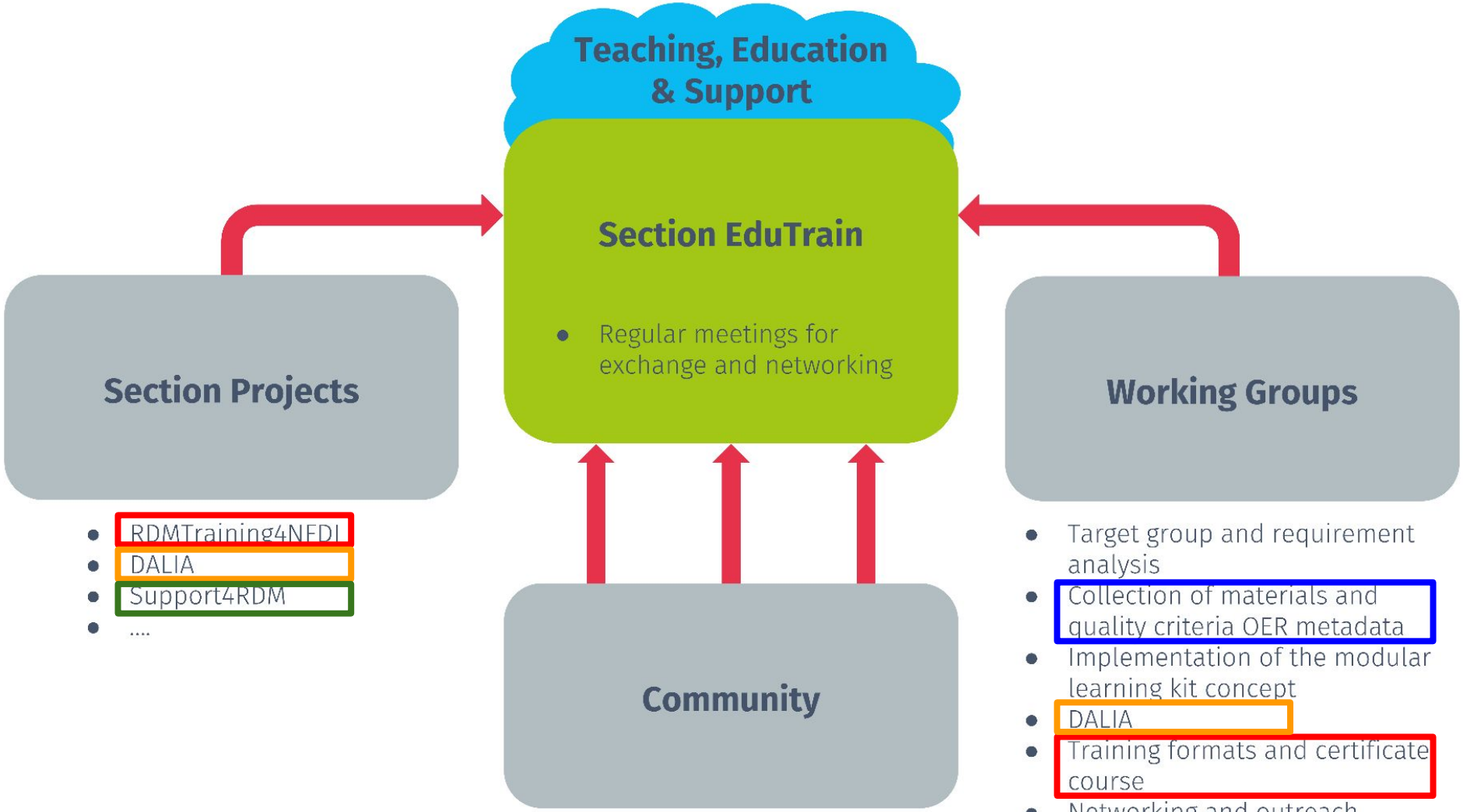
Structure of the Section EduTrain

Nationale Forschungsdaten Infrastruktur



Today's contributions

Nationale Forschungsdaten Infrastruktur



Working Group
RDM Helpdesk Network
&
Support4RDM

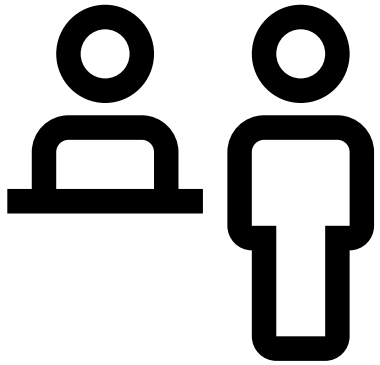
Connecting Research Data Management Support in Germany

CC BY

Our main objective is to connect helpdesk teams of NFDI consortia, institutional helpdesks and RDM federal state initiatives to provide optimal support for RDM needs.

What do we mean by “helpdesk”?

We understand the term *helpdesk* in a broad sense comprising the helpdesk infrastructure as well as any kind of support and consulting services regarding RDM.



Adapted from the Charta of the WG RDM Helpdesk Network: https://doi.org/10.5281/zenodo.14035822

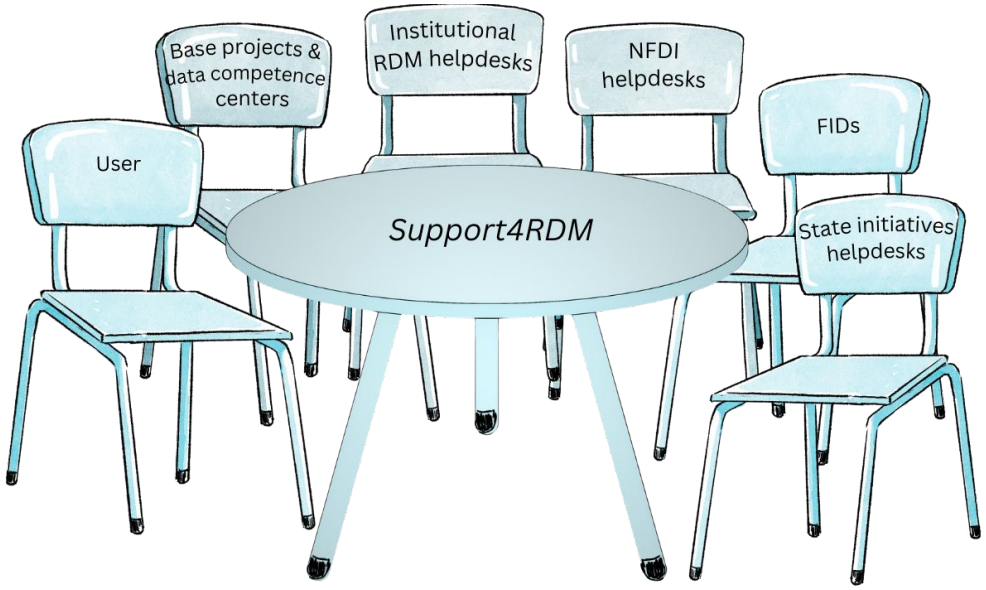
Activities of the Working Group

- ➔ Establish a community of RDM helpdesk staff
- ➔ Provide a ticketing system platform
- ➔ Update and maintain a directory of existing RDM helpdesks (Helpdesk Catalogue)
- ➔ Create a shared knowledge base
- ➔ Develop standards and best practices for RDM support processes
- ➔ Establish common documentation standards
- ➔ ...

Engel, Judith, Patrick Helling, Robert Herrenbrück, Marina Lemaire, Hela Mehrtens, Marcus Schmidt, Martha Stellmacher, Lukas Weimer, Cord Wiljes, und Wolf Zinke. 2024. ***„Working Group Charter. RDM Helpdesk Network“***, November. https://doi.org/10.5281/zenodo.14035822 .

Support4RDM

A Federated Helpdesk Network and RDM Support Infrastructure



Applicants

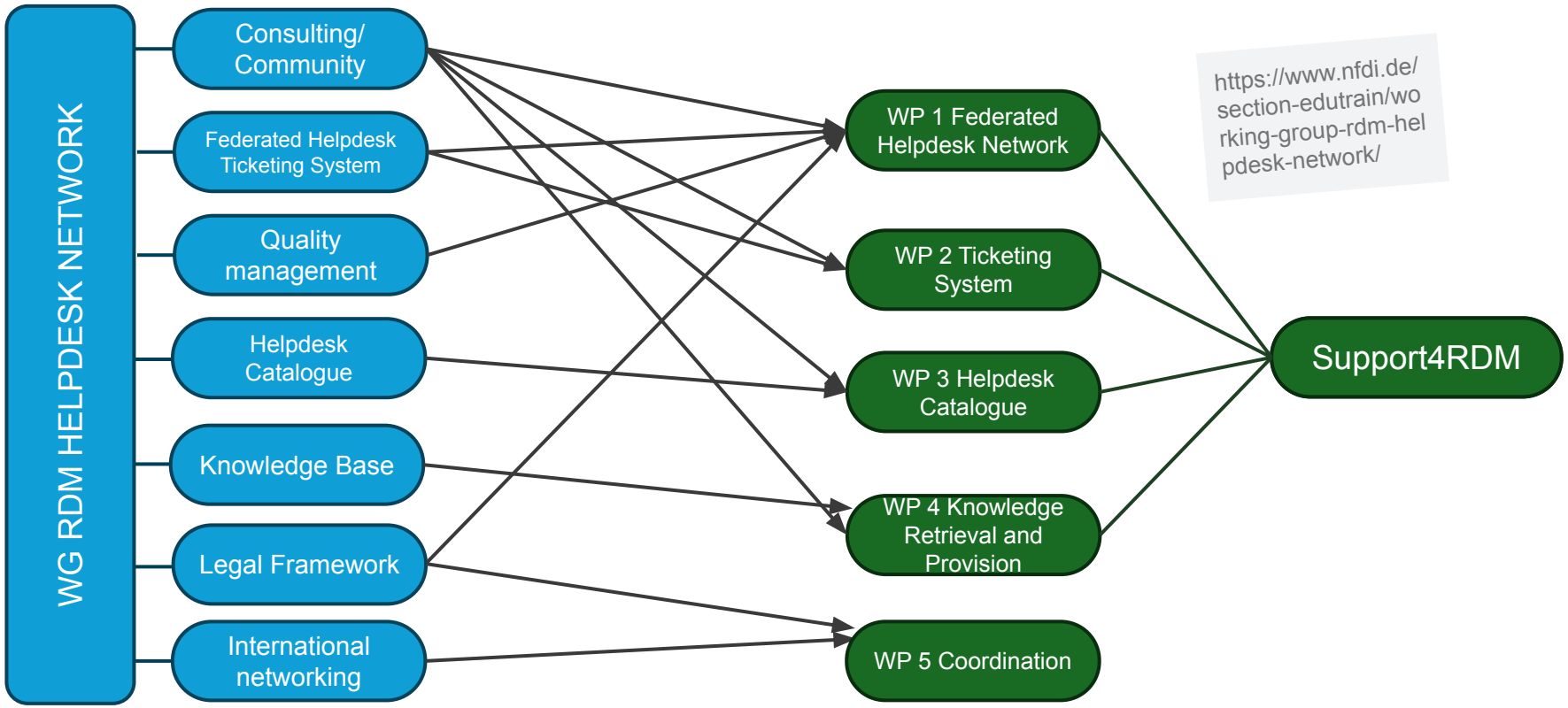
ZALF, SLUB Dresden, GFBio, GEOMAR, AWK NRW, Uni Trier, TU Dresden

Involved Consortia

FAIRagro, NFDI4Culture, NFDI4Biodiversity, NFDI4Earth, NFDI4Memory, Text+

Nationale Forschungsdaten Infrastruktur

Connection of WG RDM Helpdesk Network and Support4RDM



https://www.nfdi.de/section-edutrain/working-group-rdm-helpdesk-network/

Next steps

- Include your feedback into the growing proposal
- Support our proposal: Please sign: https://support4rdm.uni-trier.de/2025/12/01/endorsement_support4rdm/
- Survey RDM support/helpdesks: https://www.soscisurvey.de/fdm-helpdesk-netzwerk/. Läuft bis 15.12.2025
- Collecting Letter of commitments (LoCs)
- Propose! (28th January ‘26)

Application team

Hela Mehrtens:
hmehrtens@geomar.de

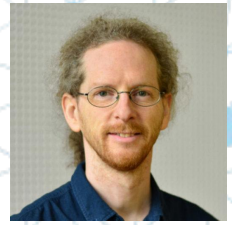
Judith Engel:
Judith.Engel@uni-bremen.de

Kilian Hensen:
Kilian.Hensen@uni-koeln.de

Marina Lemaire:
marina.lemaire@uni-trier.de

Marcus Schmidt:
Marcus.Schmidt@zalf.de

Martha Stellmacher:
martha.stellmacher@slub-dresden.de



Ralph Müller-Pfefferkorn:
ralph.mueller-pfefferkorn@tu-dresden.de

Institutions, Initiatives & consortia involved:

FAIRagro

NFDI4Earth

nationale Forschungsdaten Infrastruktur for CULTURE

NFDI 4 BIODIVERSITY

NFDI formemory

Text+

SLUB
Wir führen Wissen.

zalf Leibniz Centre for Agricultural Landscape Research (ZALF)

UNIVERSITÄT TRIER
SERVICEZENTRUM eSCIENCES

gfbio
GERMAN FEDERATION FOR BIOLOGICAL DATA

GEOMAR
Helmholtz Centre for Ocean Research Kiel

CC eH

SaxFDM
FORSCHUNGSDATENMANAGEMENT IN SACHSEN

AKADEMIE WISSENSCHAFTEN UND KÜNSTE NORDRHEIN-WESTFALEN

TECHNISCHE UNIVERSITÄT DRESDEN

Information & Contact

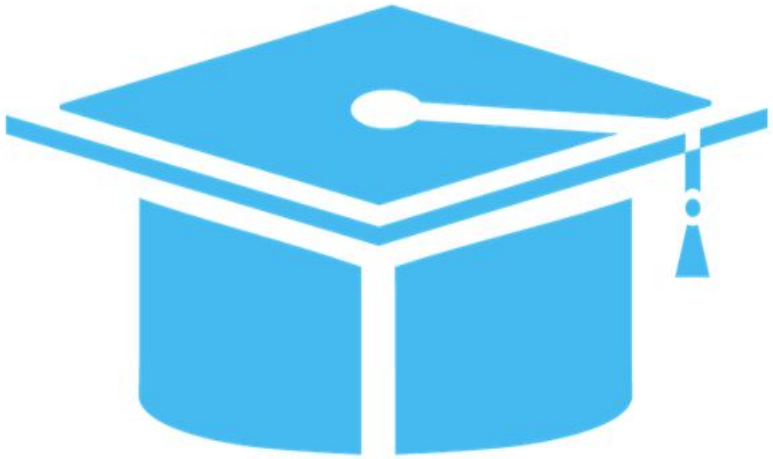
Website:	https://www.nfdi.de/section-edutrain/working-group-rdm-helpdesk-network/
NFDI-Rocketchat:	https://all-chat.nfdi.de/channel/wg-helpdesk
Mailing-List:	section-edutrain-wg-helpdesk-owner@lists.nfdi.de
General Meeting:	Jour fixe bi-monthly every 1st Thursday of odd months 10:00-11:00 via Zoom

Overview: RDMTraining4NFDI

- A service aimed at improving research data management through teaching, training and community support

- Target group: RDM multipliers (i.e. Data Stewards, trainers, librarians) who disseminate knowledge and training

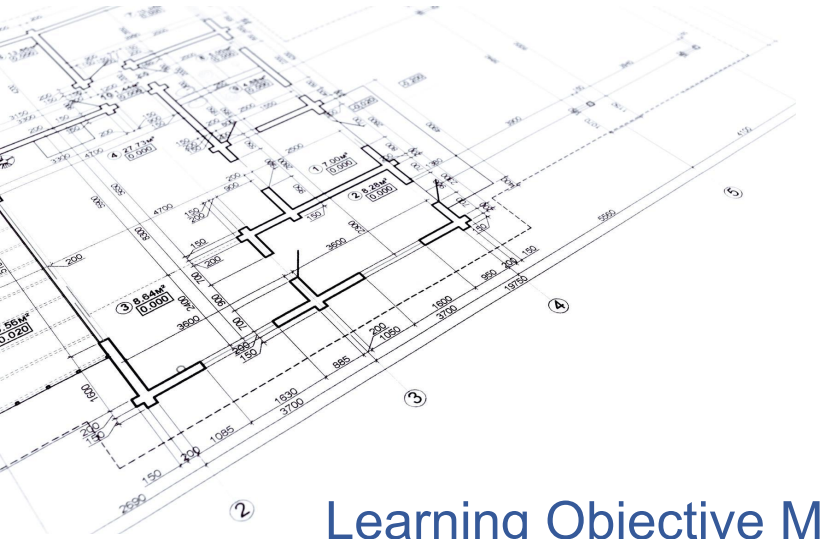
- Foci:
  - Training Execution
  - Testing Training Formats
  - Harmonizing RDM Training
  - Certification
  - Community Support



Training Execution: Testing Training Formats

- Deliver practical, focused RDM guidance within a condensed time frame
- Strengthen participants' training skills (including didactics) and data management expertise
- Foster the exchange of good practices within the RDM community
- Experiment with and evaluate diverse training formats

Content blueprint for RDM training



Learning Objective Matrix for RDM

Train-the-Trainer concept for RDM

DALIA Interchange Format (v.1.3)

Metadata schemata for RDM training materials

Use cases provided training materials on RDM

- BERD@NFDI
- NFDI4Memory
- NFDI4Microbiota
- KonsortSWD

Section EduTrain’s Working Groups

Certification - What does it need?

agreement within the entire RDM community

Quality Indicators

Harmonisation

of both, generic and discipline specific concepts and approaches

Sustainability

compliant with the emerging standards within the European Union

Terminology

clear distinction of terms related to RDM

Community

considering the requirements and needs reported from the community

RDMT4 nfdi

Research Data Management Training for the German National Research Data Infrastructure

Get in touch:

- mail: rdmtraining4nfdi-orga@lists.nfdi.de (team)
- list: rdmtraining4nfdi@lists.nfdi.de (community)
- mastodon: RDMTraining4NFDI
- RDMTraining4NFDI on Zenodo

Nationale Forschungsdaten Infrastruktur

Working Group
“Collection of materials and quality criteria OER metadata”

Section
Training & Education

Section Training and Education

Working Group “Bestandsaufnahme Materialsammlungen”

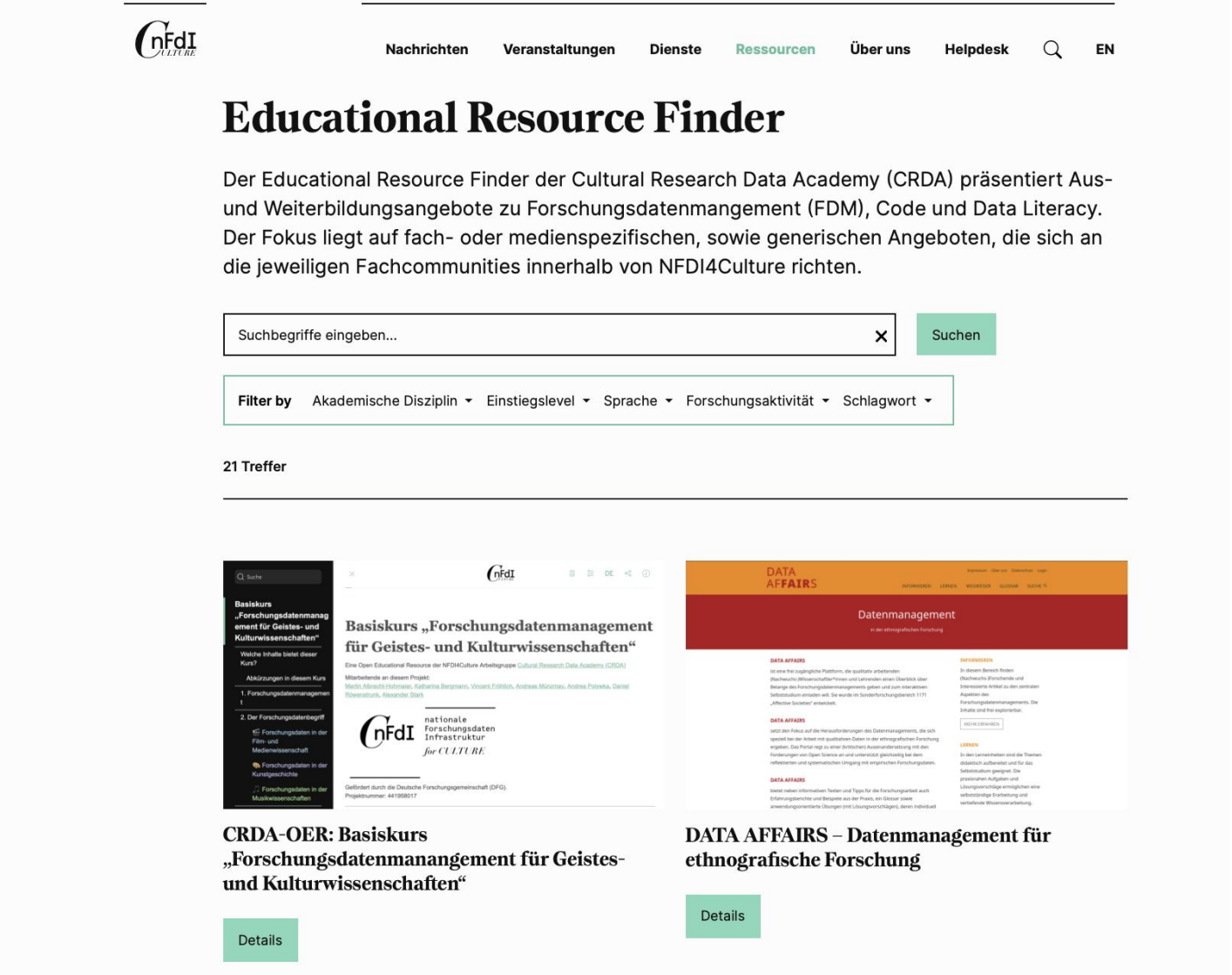
Nationale Forschungsdaten Infrastruktur

- This working group aims to identify existing training offers within the consortia, review them, and make them usable and consolidate them in accordance with the FAIR principles.
- Exchange on developments in the field of OER in the individual RDM projects
- Cooperation with the NFDI consortia, the UAG Training/Further Education of DINI/nestor AG, the FDM state initiatives, and Data Competence Centers
- Close exchange and coordination with regard to metadata schemas (DALIA Interchange Format)

Section Training and Education

Working Group “Bestandsaufnahme Materialsammlungen”

Nationale Forschungsdaten Infrastruktur



Example of a collection of OER and training material, the Educational Resource Finder (NFDI4Culture): https://nfdi4culture.de/id/E4696

Section Training and Education

Working Group “Bestandsaufnahme Materialsammlungen”

Nationale Forschungsdaten Infrastruktur

Contact

- WG leads: Jonathan D. Geiger and Andrea Polywka
- Monthly meetings (every third Monday) : Short presentations of educational or training material are held at meetings that are aimed at serving as a platform for exchange and discussion.
  - Next meeting on Monday, December 15th, 11.30–12.30 o’clock ➡️ https://adwmainz.zoom.us/j/92476322440
- Rocket.Chat (NFDI All–Chat): https://all-chat.nfdi.de/channel/edutrain-AP2

Nationale Forschungsdaten Infrastruktur

Working Group DALIA

Section Training & Education

Data Literacy Alliance

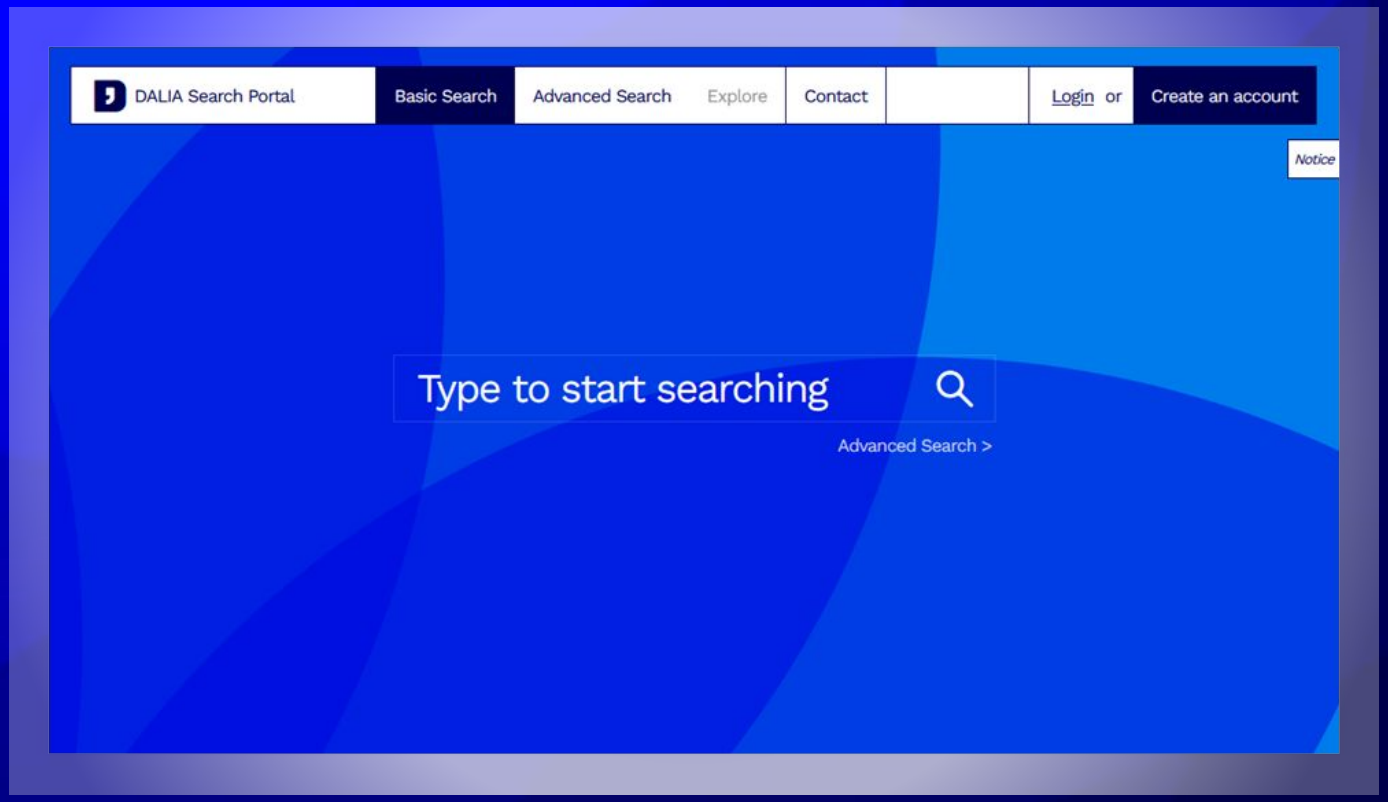
WG DALIA

A platform for educational materials in data literacy

Data Literacy Alliance

Nationale Forschungsdaten Infrastruktur

Data literacy for all from the very beginning!



Search Portal

https://search.dalia.education

Website

https://dalia.education

DALIA 1.0 established by funding from

Gefördert durch:

Finanziert von der Europäischen Union
NextGenerationEU

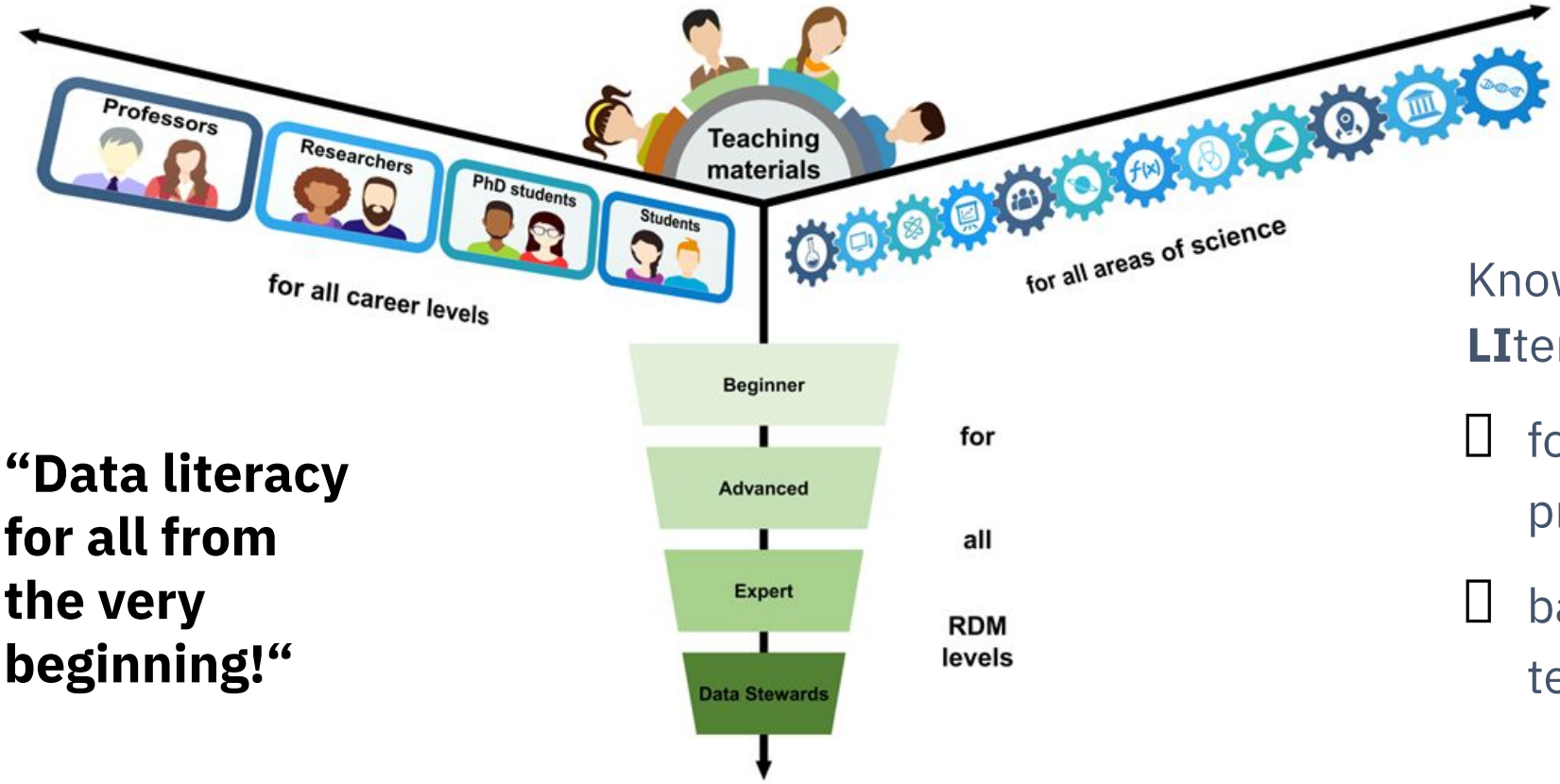
Bundesministerium für Forschung, Technologie und Raumfahrt

We will continue as Section Service!

Where to Find Teaching/Training Materials?

nfdi Nationale Forschungsdaten Infrastruktur

Knowledge Base for RDM Educational Resources: DALIA, Data Literacy Alliance



“Data literacy for all from the very beginning!“

Knowledge graph of the **DA**ta **LI**teracy **A**lliance

- for FAIR data usage and provision
- based on semantic web technology

Roots in the NFDI – The Team behind DALIA

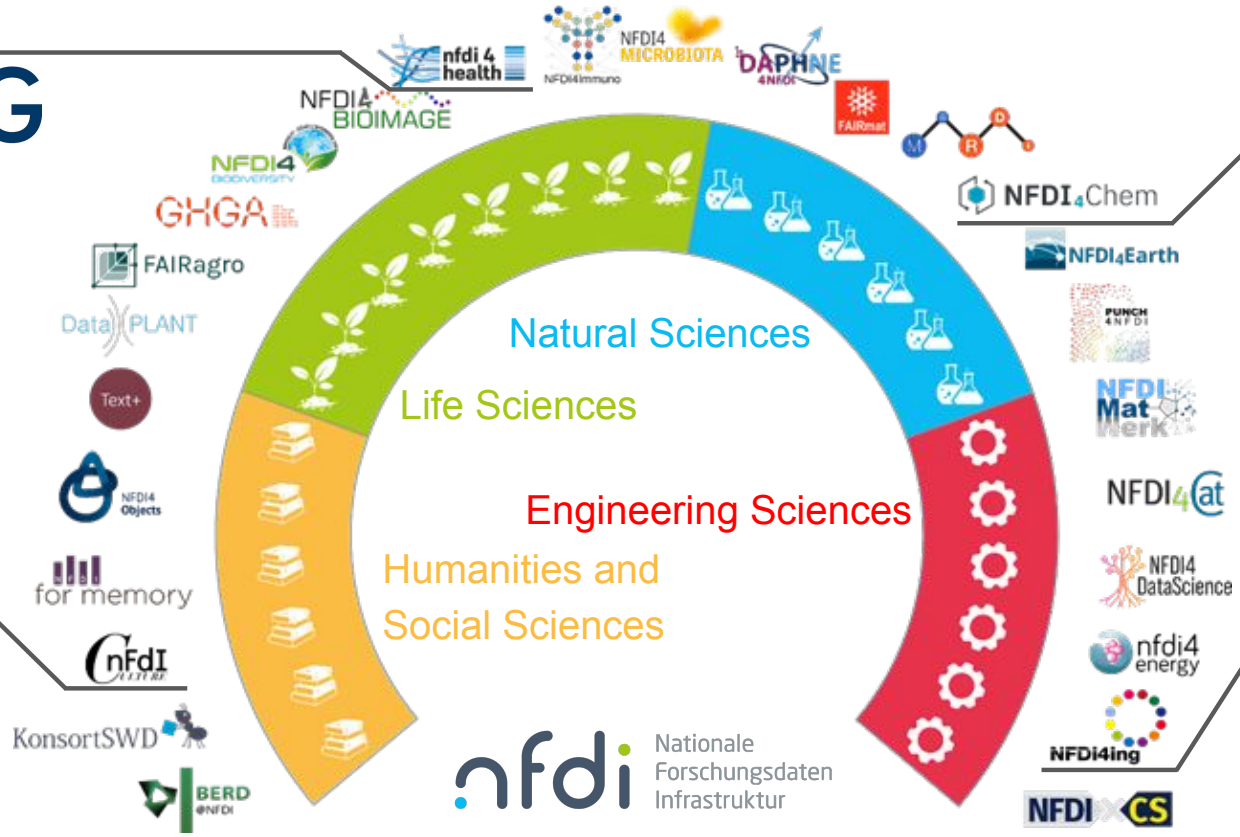
Data Literacy Alliance

Prof. Ulrich Sax

UNIVERSITÄTSMEDIZIN GÖTTINGEN : UMG

Prof. Sonja Herres-Pawlis

IAC Chair of Bioinorganic Chemistry | RWTH AACHEN UNIVERSITY



Prof. Torsten Schrade

Akademie der Wissenschaften und der Literatur | Mainz

Prof. Peter F. Pelz

FLUID SYSTEM TECHNIK

TECHNISCHE UNIVERSITÄT DARMSTADT

Infrastructural organisations:

Prof. Matthias Müller

RWTH AACHEN UNIVERSITY

Prof. Thomas Stäcker

Universitäts- und Landesbibliothek Darmstadt

Dr. Gábor Kismihók

TIB LEIBNIZ INFORMATION CENTRE FOR SCIENCE AND TECHNOLOGY UNIVERSITY LIBRARY

Interacting with the Community

Strong connections to the NFDI in Germany:

To ensure that DALIA is sustainably integrated and embedded in the community.

Workshops/events within the community:

Examples:

- Repositories and materials
- Shaping EduTrain/DALIA personas
- Metadata harmonization
- Learning objectives matrix

To collect materials and the requirements from the community.

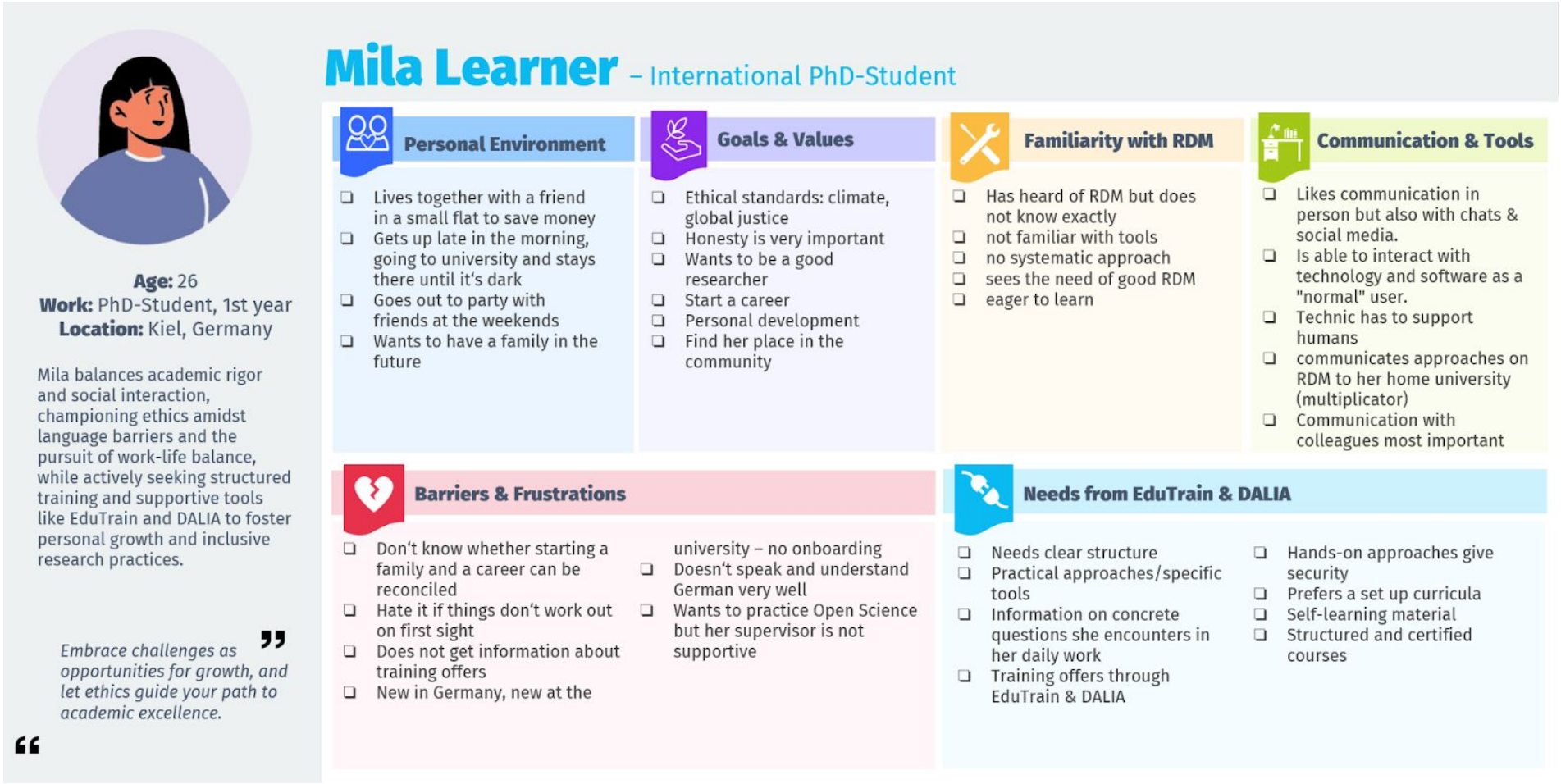
International networking

Benefit for the community: Development of standards

Developing Standards – Personas

Core user personas for DALIA and Section EduTrain:

- Learner (Mila)
- Lecturer (Nico)
- Contributor (Mila)



Mila Learner – International PhD-Student

Age: 26
Work: PhD-Student, 1st year
Location: Kiel, Germany

Mila balances academic rigor and social interaction, championing ethics amidst language barriers and the pursuit of work-life balance, while actively seeking structured training and supportive tools like EduTrain and DALIA to foster personal growth and inclusive research practices.

Embrace challenges as opportunities for growth, and let ethics guide your path to academic excellence.

Personal Environment

- Lives together with a friend in a small flat to save money
- Gets up late in the morning, going to university and stays there until it's dark
- Goes out to party with friends at the weekends
- Wants to have a family in the future

Goals & Values

- Ethical standards: climate, global justice
- Honesty is very important
- Wants to be a good researcher
- Start a career
- Personal development
- Find her place in the community

Familiarity with RDM

- Has heard of RDM but does not know exactly
- not familiar with tools
- no systematic approach
- sees the need of good RDM
- eager to learn

Communication & Tools

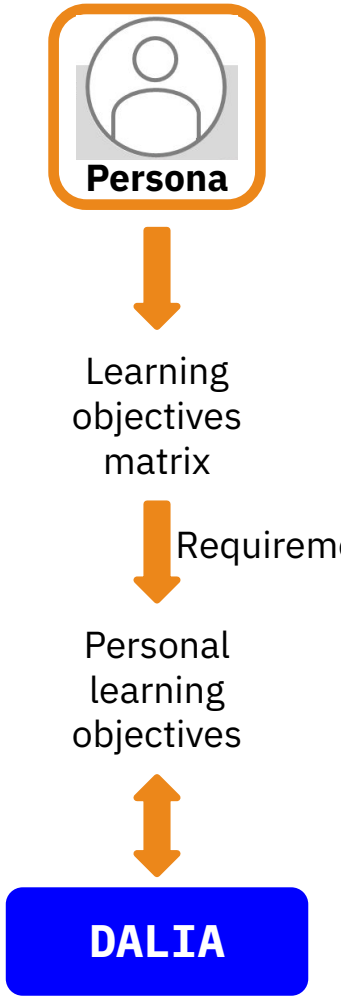
- Likes communication in person but also with chats & social media.
- Is able to interact with technology and software as a "normal" user.
- Technic has to support humans
- communicates approaches on RDM to her home university (multiplicator)
- Communication with colleagues most important

Barriers & Frustrations

- Don't know whether starting a family and a career can be reconciled
- Hate it if things don't work out on first sight
- Does not get information about training offers
- New in Germany, new at the university – no onboarding
- Doesn't speak and understand German very well
- Wants to practice Open Science but her supervisor is not supportive

Needs from EduTrain & DALIA

- Needs clear structure
- Practical approaches/specific tools
- Information on concrete questions she encounters in her daily work
- Training offers through EduTrain & DALIA
- Hands-on approaches give security
- Prefers a set up curricula
- Self-learning material
- Structured and certified courses



Use Cases & User Stories

Read more: https://dalia.education/en/use_cases

Developing Standards – DALIA Interchange Format

Heterogeneity of materials vs. harmonisation of metadata formats

- **Mandatory (4)**
- **Recommended (11)**
- **Optional (3)**

- Provides guidance for the provision of OER metadata
- Smooth integration into the DALIA platform
- Several feedback cycles within the community

DALIA Interchange Format (DIF)

J. Geiger, P. Steiner, A. Desouki, F.Lange (2024). *DALIA Interchange Format*. Zenodo. DOI: 10.5281/zenodo.11521029.

Attributes of DIF

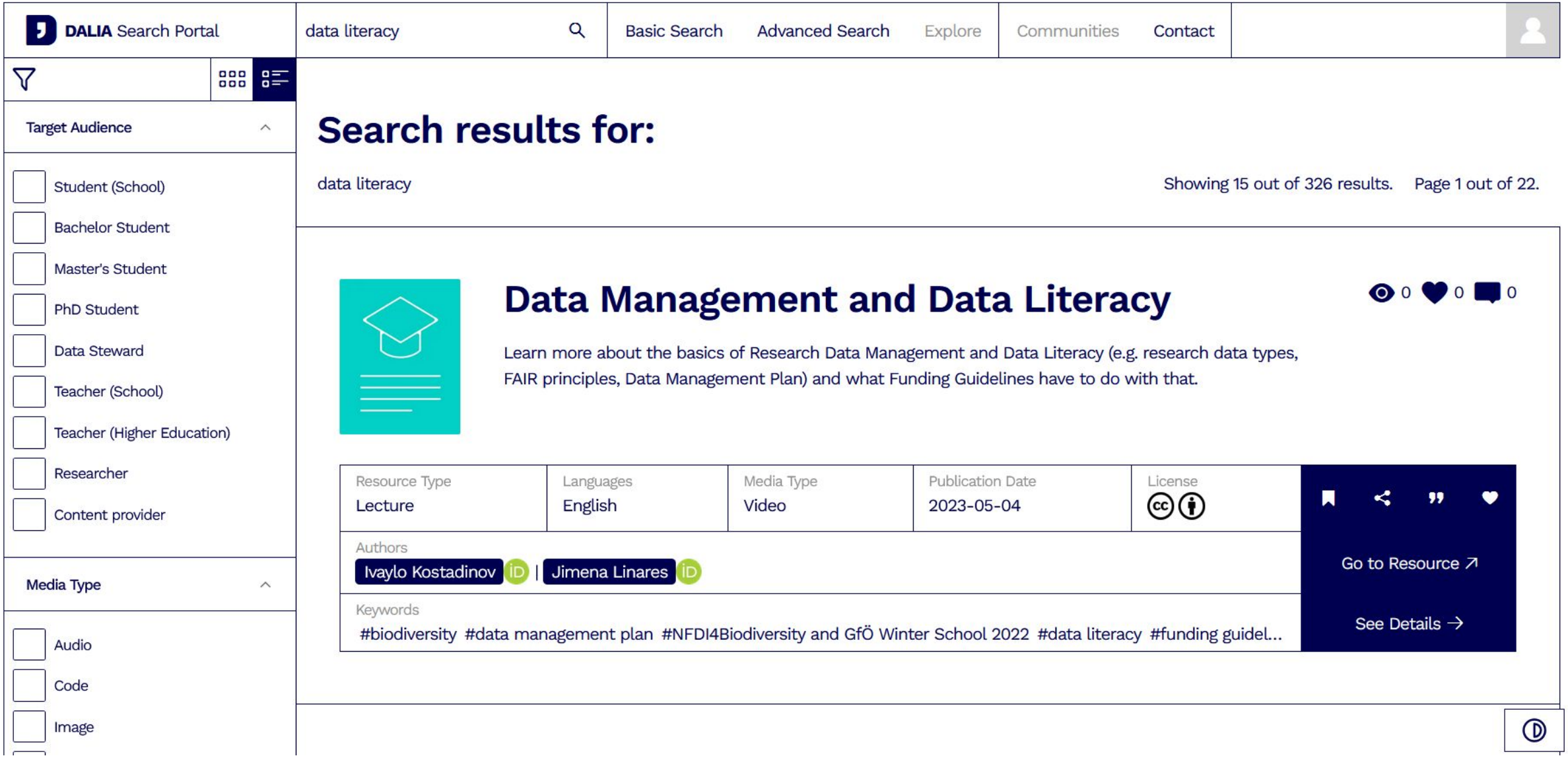
Title	Language	Discipline
Authors	File Format	Community
Link	Learning Resource Type	Keywords
License	Media Type	Related Work
Publication Date	Proficiency Level	Size
Description	Target Group	Version

Example:

Target Group – recommended | 0..n

The target group refers to learning resource and learners: A class of agents for whom the learning resource is intended or useful.

The DALIA Portal – Search for Resources



DALIA, Data Literacy Alliance

Thank you!
Vielen Dank!

Contact us:

contact@dalia.education

Find us:

Project Website: https://dalia.education

Search Portal: https://search.dalia.education

@daliaeducation.bsky.social @dalia@nfdi.social @dalia-edu

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Bundesministerium für Forschung, Technologie und Raumfahrt
Finanziert von der Europäischen Union
NextGenerationEU

DALIA was funded by the Federal Ministry of Research, Technology and Space (BMFTR) and the funding measure from the EU's Capacity Building and Resilience Facility under the funding code 16DWWQP07.