

# Community Vision for an ErUM-Data Hub 2.0

04.12.2025

# Disclaimer

- The current ErUM-Data Hub is funded until end of 2026
- ➔ **The BMFTR decides about the next ErUM-Data Hub**
- **This is about collecting feedback from the community about ideas for a second funding period of an ErUM-Data Hub**

# Relevance to the Community

- ➔ Work of ErUM-Data Hub is highly valued by the community

*I've learned so much, had the chance to exchange my ideas by giving a lecture, and expanded my network with amazing people from the community.*

## The session helped me to get started with planning courses & trainings

A. 1 - Totally agree: 6 (66.67%)

B. 2: 3 (33.33%)

C. 3: 0 (0.00%)

D. 4: 0 (0.00%)

E. 5 Totally disagree: 0 (0.00%)



## Would you recommend the workshop to colleagues who want to learn to publish packages?

A. Yes: 18 (100.00%)

B. No: 0 (0.00%)



# Funding Goals of ErUM-Data

(also goals of DIG-UM)

| Ziele                                 | Themenfelder                   |  |                             |
|---------------------------------------|--------------------------------|--|-----------------------------|
|                                       | Forschungsdaten-<br>management | Föderierte Digital-<br>infrastrukturen | Software und<br>Algorithmen |
|                                       | Wissenschaft vernetzen         |  |                             |
|                                       | Digitale Kompetenzen ausbauen  |  |                             |
| Transfer und Kommunikation<br>stärken |                                |  |                             |

# Funding Goals of ErUM-Data

(also goals of DIG-UM)



➔ Strongly supported by ErUM-Data Hub

**ERUM-DATA CONNECT**  
Network Day in Aachen  
10 June 2024

Networking  
Discussion  
Consortia

More information on Indico:  
  
<https://indico.desy.de/event/4447/>

We look forward to interesting discussions and getting to know you!

Start 09:00  
07:00 pm Workshop Dinner  
Aachen, INC Invention Center

ERUM-DATA-HUB & DIG-UM PRESENT  
**DEEP LEARNING SCHOOL**  
"BASIC CONCEPTS"  
5TH EDITION

LEARN ABOUT  
Neural Network Building Blocks (Dr. Ethan Simpson / CERN)  
Mastering Model Building (Dr. Maximilian Horzela / Universität Göttingen)  
Convolutional Neural Networks (Dr. Theo Heinzel / UCLouvain)  
Transformer & Prompt Engineering (Dr. Knut Zoch / Harvard University)  
Julia (Dr. Oliver Schütz / MPP)

06.05.25 - 09.05.25  
Aachen  
Erholung-Gesellschaft

Contact & Information:  
[www.erumdatahub.de](http://www.erumdatahub.de)  
[info@erumdatahub.de](mailto:info@erumdatahub.de)  
<https://indico.desy.de/event/4718/>

ERUM-DATA-HUB, AINT GMBH, LHC-ERUM-FSP- BÜRO & DIG-UM PRESENT  
**Transfer Workshop** 6.-7. Feb. '25  
ErUM-Scientists & Industry in Dialogue  
Knowledge Exchange & Networking in Aachen

Why should you participate?

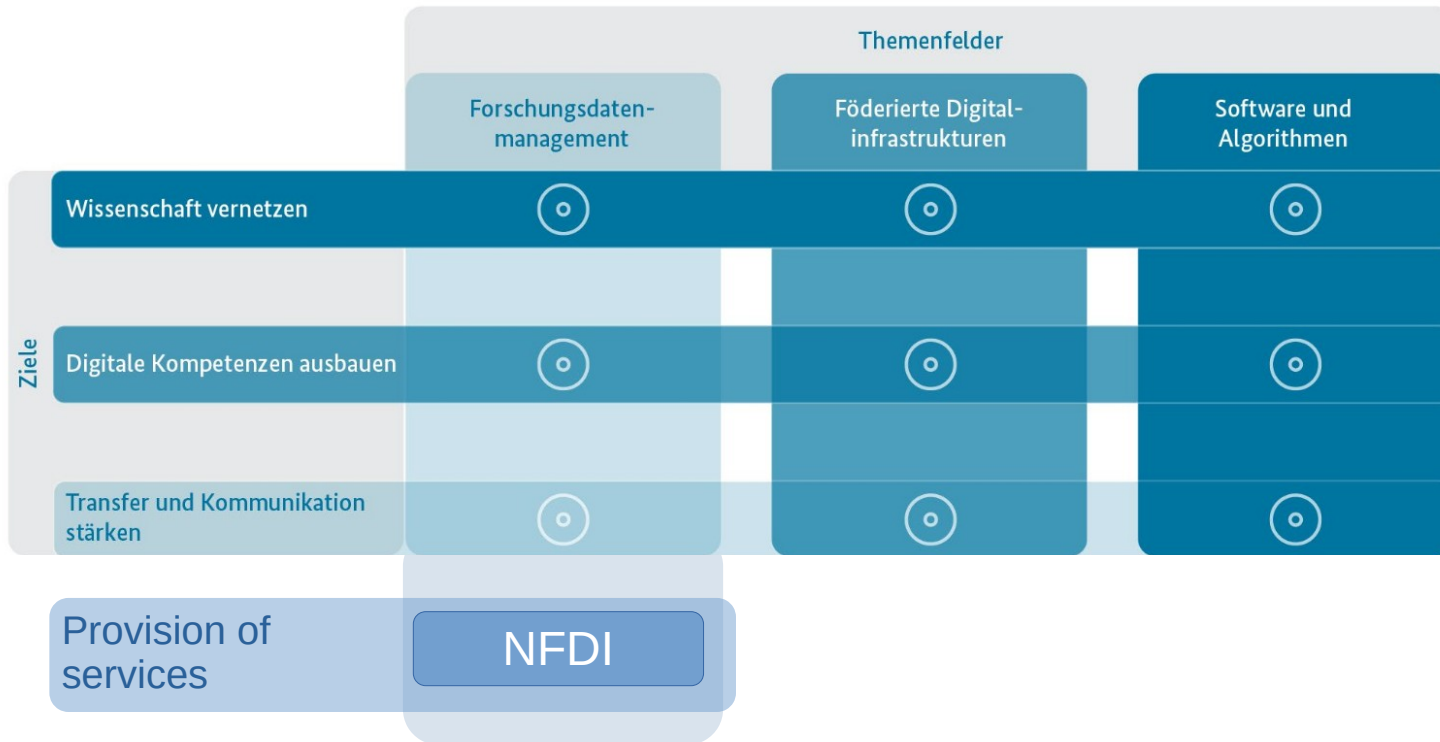
Are you an ErUM-Scientist?  
• get to know companies that apply your research topics & technologies  
• benefit from these contacts (direct exchange with industry, research funding, future jobs...)

Are you working in Industry?  
• present your company & get to know ErUM scientists (machine learning, big data, digital transformation, ...)  
• information on how to apply for funding

Research into the universe and matter (ErUM) brings together around 20,000 scientists from various fields in Germany: Astrophysics, elementary particle physics, accelerator physics, research with neutrinos, research with synchrotron radiation, research with nuclear probes and ion beams, hadron and nuclear physics as well as the Council of German Observatories

Find out more:  
<https://indico.desy.de/event/46056/>

# Complementarity to NFDI



- Scope of NFDI: all science disciplines in Germany
- Scope of ErUM-Data: focus on large scale research infrastructures communities

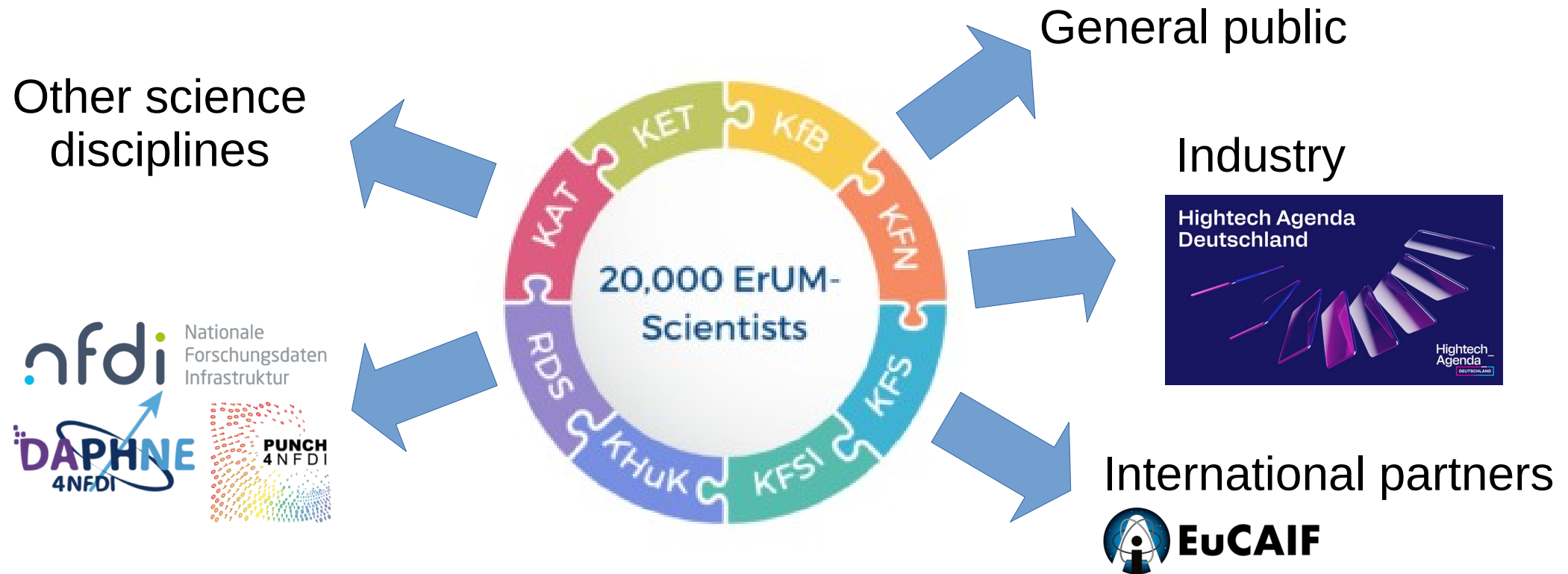
→ ErUM-Data Hub is an excellent contact point for ErUM-Data communities and NFDI

# Main Achievement of ErUM-Data Hub 1.0



→ Connection of ErUM-Data communities

# Enhancements by ErUM-Data Hub 2.0



→ Strengthening of connections outside ErUM-Data communities



# Hightech Agenda

- Tight connections of ErUM research with many key technologies
- **ErUM-Data Hub as multiplier for transfer**



# Sustainability

- Of technological excellence
- Of solutions developed in ErUM-Data projects
- Of conditions for life on earth



# Organization

- Hub in Aachen very successful
  - keep concept of main hub at one place
- Experience shows that attendance depends on location
  - distribute events across Germany
- Regional satellites
  - to improve geographical and topical coverage

# Discussion

- Your input is welcome