

ErUM-Data

ErUM-Data is a German funding plan to promote the digital transformation in the research fields universe and matter (ErUM).
It is funded by the German government (BMBF) (120 M € for 10 y).

The gained knowledge will play a key role in many future day-to-day applications, such as Research, AI and medicine. In total 20.000 scientists are part of the ErUM-Communities:



ErUM = Erforschung von
Universum & Materie

KAT astro-particle physics	KET elementary particle physics
KfB accelerator physics	KFN research with neutrons
KFS research with synchrotron radiation	KFSI research with nuclear probes and ion beams
KHuK hadron and nuclear physics	RDS council of German observatories

Central Office to help
realize ErUM-Data Goals

The ErUM-Data-Hub Project

- Founded in 2022
- Helps to facilitate the ErUM-Data funding plan
- Team of 7
- Based in Aachen



Networking

Synergy identification and networking between the **8 ErUM communities** and other ErUM-Data projects in the field of digitization.

Exchange

Knowledge and innovation transfer with related disciplines, technology and industry.

Digital Competencies

Training of (young) ErUM scientists in the use and teaching of the latest technologies.

Transfer & Communication

Up-to-date communication formats and target group-oriented communication of research results.

Advancing Digital Transformation in Germany by training (young) ErUM-Scientists

Multiple Event Concepts , i.a.

- Deep Learning Schools (Basic/Advanced)
(Training students to **use** Deep Learning)
- Train-the-Trainer Workshops
(Training lecturers to **train** Deep Learning)
- (Python) Programming Schools
- Sustainability Workshops
- New topics in planning

Going beyond knowledge transfer and creating multipliers:

- Disseminating digital skills
- Enabling networking
- Identifying synergies
- Assessing needs
- Intensifying exchange
- Strengthening communication

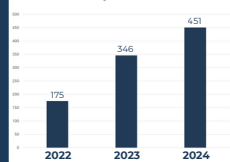
Networking and Exchange

ErUM -
internal

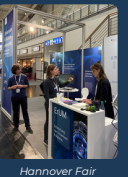
ErUM-
Research

Industry

> 1.000 ErUM-Scientists
reached in person since 2022



How is AI used in industry?
How to do sustainable computing?



Hannover Fair



Providing high-quality contents for ErUM-Scientists

Wiki: Material Collection - Learning and Teaching Materials for ErUM Scientists

Expanding the digital skills of
ErUM-Scientists

Wiki: "People in ErUM-Data" List

Networking with other scientists



LEARN MORE >>

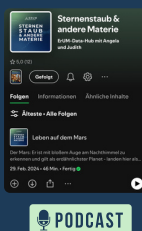
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erumdatahub.de/blog (Blog)



Keep in mind !

- Place for networking & interdisciplinarity
 - Also used for physics experiments
- Digital transformation, e.g. AI
- Many events, e.g. teaching and training
 - Deep Learning, Programming, ...
- Providing a platform for materials and contacts

