# **BMBF-commitment in ErUM-Data**

Big Data Analytics Annual Meeting, Munich, 13-14/03/2025



## Research infrastructures

Germany is involved in more than two dozen unique large-scale facilities worldwide.

The BMBF provides funding in line with scientific needs and research policy priorities - digitalisation being one of them.



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# BMBF-framework programm "ErUM"

Funding instrument for further developement of fundamental research at large scale scientific infrastructures

**Topics: Particle Physiks, Matter and Universe** 

• Annually changing calls (ErUM-Pro)

#### **Cross-cutting issues:**

- ErUM-Data
- ErUM-Transfer
- Sustainability, science communication



2017-2027



# Instruments for ErUM-funding

- Collaborative funding for non-university research centers (as well as the DFG) by federal and state governments (institutional funding), payments of contributions to international research infrastructures.
- **Contributing to planning and construction** of national and international research infrastructures
- **Project funding** ("collaborative research")





für Bildung und Ferschung

Aktionsplan ErUM-Data Von Big Data zu Smart Data: Digitalisierung in de

# The action plan "ErUM-Data" – from Big Data to Smart Data: Digitization in fundamental research

#### **Objectives:**

- Strengthen the connection between relevant actors and structures with regards to digitization-efforts
- Increase digital competencies in research
- Enhance the transfer of information and communication within the framework program "ErUM" and beyond.

#### Focus of funding:

- Strengthen cooperation between universities and non-university research institutions
- Foster interdisciplinary collaboration
- Connect actors from universities, research institutions and commercial enterprises



#### ErUM-Data: Timeframe



### First call for proposals in ErUM-Data:

- Software and algorithms with a focus on AI and Machine Learning
- Funding period: March 1st, 2023 February 28th, 2026
- Funding of interdisciplinary projects from all three ErUM-topics
- 55 projects in 10 collaborations are funded
- Financial volume: ~17,4 Mio. €

### Second call for propsals in ErUM-Data

- Published on 30. September 2024
- Application deadline: January 15, 2025
- A call with three topics defined in the action plan:
  - Software and algorithms with a
    - focus on AI and machine learning
  - Research data management
  - Federated infrastructures
- Funding period 01.10.2025 30.09.2028

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	Bundesministerium für Bildung und Forschung
zur Förderung vo "Software und Algorithmen mit "Forschungsdate zur Erfo	Richtlinie n Verbundforschungsvorhaben zu den Themenfeldern Schwerpunkt auf Künstlicher Intelligenz und Maschinellem Lerner nmanagement <sup>4</sup> und "Göderterte Digitalinfastrukturen" srschung von Universum und Materie (ErUM)
	Vom 30. September 2024
1 Förderziel, Zuwendungszweck	Rechtsgrundlage

# Second call for propsals in ErUM-Data

#### Assessment criteria of the call:

- Contribution of the project to the funding goals of the funding measure
- Assessment of the scientific and/or technological work objectives
- Prospects of success and feasibility (work, time and cost schedule)
- Assessment of the cooperation
- Competency of the applicant to carry out the project
- Utilization of the results

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### Proposal situation and assessment procedure

- 50 consortium proposals
- Proposed amount: ~100 Mio.Euro
- Proposals from all ErUM-areas and in all three pillars
- One stage process
- Discussion of proposals with the review panel "ErUM-Data 2025-2028"
- Granting of proposals according to the assessment criteria of the call

# Thank you

#### Contact

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