

BMFTR-commitment in the field “Universe”

3rd International Summit on the Future of Neutrinoless Double-beta Decay,
Heidelberg, 26th May 2025
Patrick Hartmann, BMFTR



Federal Ministry of Research, Technology and Space

Federal Minister: Dorothee Bär
since May 6th 2025



BMBF → BMFTR:

Definition of portfolio and renaming by organizational decree of the Federal Chancellor.
Details will be arranged between the federal ministries involved.



ErUM – Exploration of the Universe and Matter

Head of unit „Universe and Matter“: Dr. Karsten Hess

Topics:

- Particles
- **Universe**
- Matter



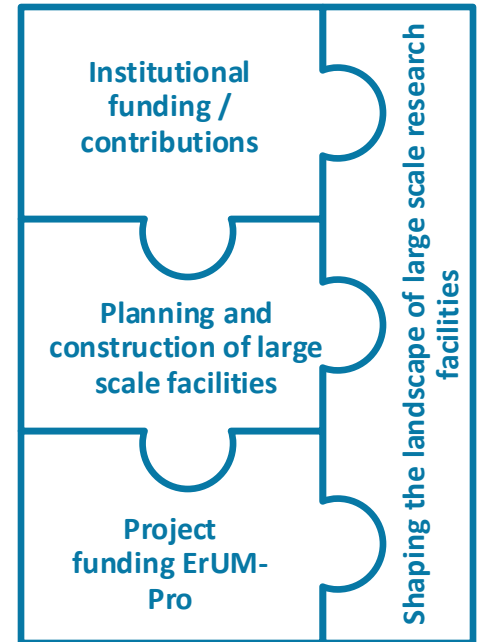
Universe:

- Astrophysics
- Astroparticle Physics
 - NLDBD
 - DM
 - Cosmic Ray
 - ...



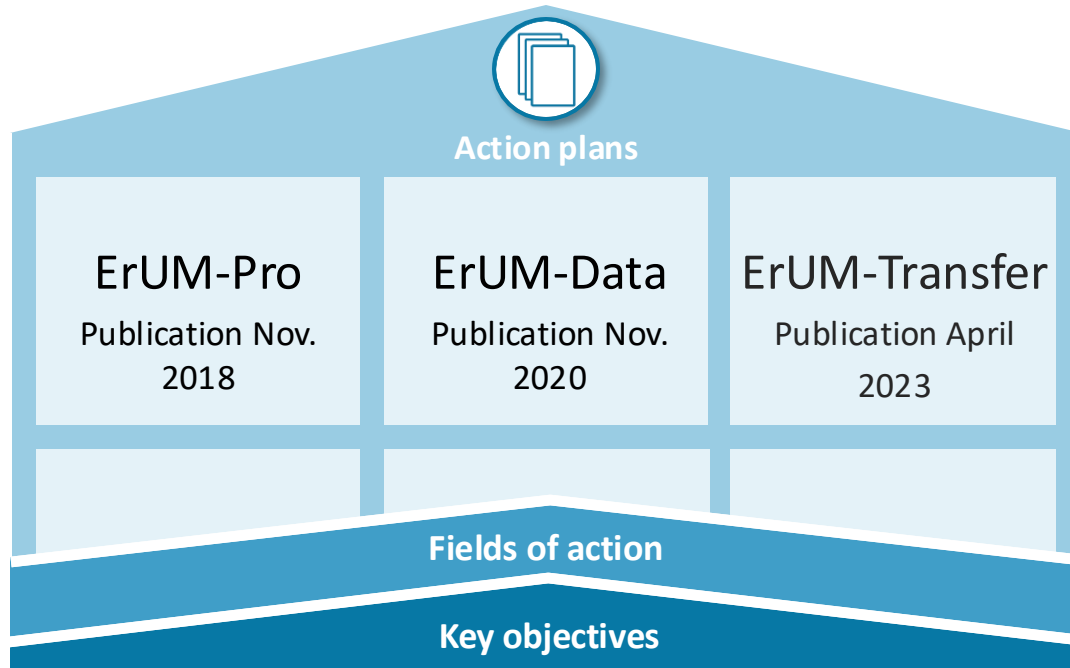
Instruments for ErUM-funding

- 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 ErUM-Pro** (“collaborative research”)





Strategic framework – action plans

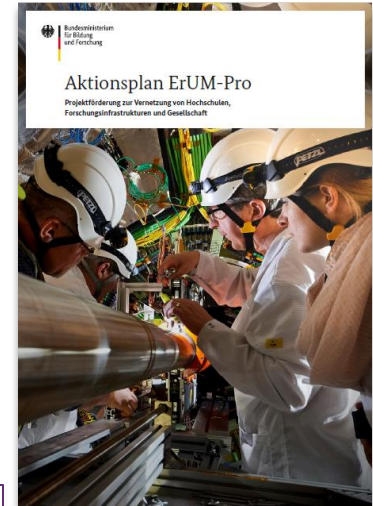




ErUM-Pro – Project Funding

- Current funding in the field of “Universe”, period 01.07.2023 – 30.06.2026
- With currently funded projects:
 - LEGEND
 - XENON / DARWIN / CRESST
 - IceCube
 - KATRIN
 - CTA
 - ...
- Next Call later this year, Review Panel beginning of 2026, start of projects July 2026

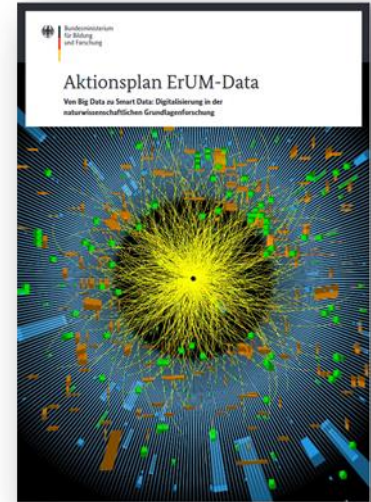
ErUM-Pro Funding for GERDA / LEGEND:
approx. 14 Mio EUR since 2005





ErUM-Data

- Upcoming funding period 01.10.2025 – 30.09.2028
- Three topics:
 - Software and algorithms with a focus on AI and machine learning
 - Research data management
 - Federated digital infrastructures





ErUM-Transfer

- Concept: Keep the character of fundamental research
 - Bringing forward transfer into society and into the economic system
 - Make use of unique potential: exchange of knowledge, methods between science and industry
 - Involve companies into R&D at research infrastructures at an early stage
- Pilot projects
 - Eight projects started in 2023 and 2024
 - One project from the field „Universe“ – MUSE-Transfer





Special Funding for LNGS-Upgrade

- Basis: GER-ITA MoU of 2019
- German commitment for in-kind contributions to a technological upgrade of the LNGS worth 6 Mio EUR
- German astroparticle community: Project suggestions
- GER-ITA bilateral discussions + independent evaluation by BMBF expert panel
- Projects started 2021



Project Management Agency: PT.DESY



Deutsches Elektronen-Synchrotron DESY
Ein Forschungszentrum der Helmholtz-Gemeinschaft

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EXZELLENT FORSCHUNG FÖRDERN.

Innovationen erkennen und Wissenstransfer vorantreiben.



Das Bild zeigt das geöffnete Extremely Large Telescope (ELT) bei Tageslicht, welches sich in Chile befindet.

Exzellente Forschung fördern, Innovationen erkennen, den Wissenstransfer vorantreiben - auf diesen drei Säulen beruht seit 1974 der Erfolg von PT.DESY. Als Dienstleister im Wissenschaftsmanagement haben die strategischen Ziele unserer Partner stets oberste Priorität. Das gilt für das Bundesministerium für Forschung, Technologie und Raumfahrt (BMFTFR), die Hansestadt Hamburg und auch auf internationaler Ebene.

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Prioritisation process for large research infrastructures (RI): Goals

- Select RI to be prioritized for expanding and maintaining Germany's leading position in research and innovation within the international competitive field and for the performance of the German science system as part of the European Research Area.
- Highlight the potential contributions of the planned RI to innovation and transfer beyond gains in scientific insight and to thus enable their incorporation into the ongoing decision-making process.
- Assess the resilience of the submitted plans and anticipated funding requirements to reduce implementation-related risks.



Prioritisation process for large research infrastructures (RI): Schedule





Thank You!