Dr. Wolfgang Ehrenfeld Projektträger DESY

LHCb-Jahrestreffen Rostock, 01.10.2019



A BMBF framework programme for basic research

Strategic and thematic framework

- of the Federal Ministry of Education and Research
- for basic research at large-scale facilities



Timeframe

2017 – 2027

ErUM in numbers

23

~100

~30%

~480

~740

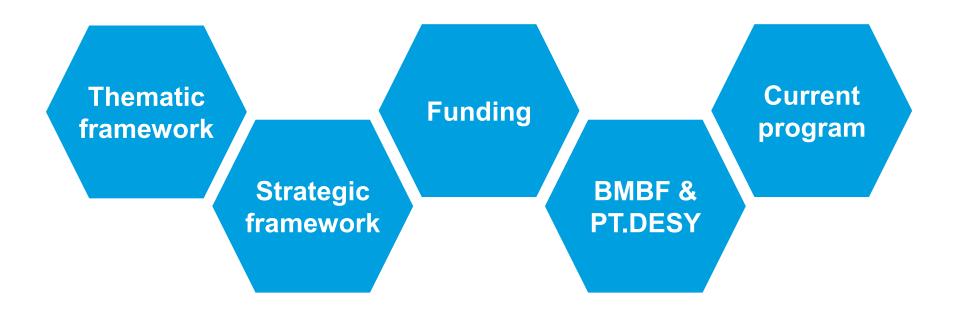
research infrastructures worldwide

million EUR for projects per year

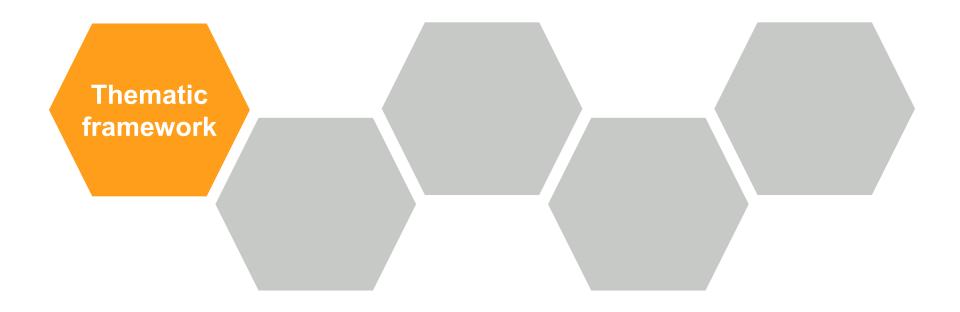
funding for scientific hardware running projects

paid scientists in ErUM projects

Topical overview



What ErUM is about



Thematic framework

What ErUM is about

Involving large-scale research infrastructures

Topics: From astroto particle physics

Cross-cutting activities





www fis-landschaft de



Universe



Matter



Particles



Accelerator development

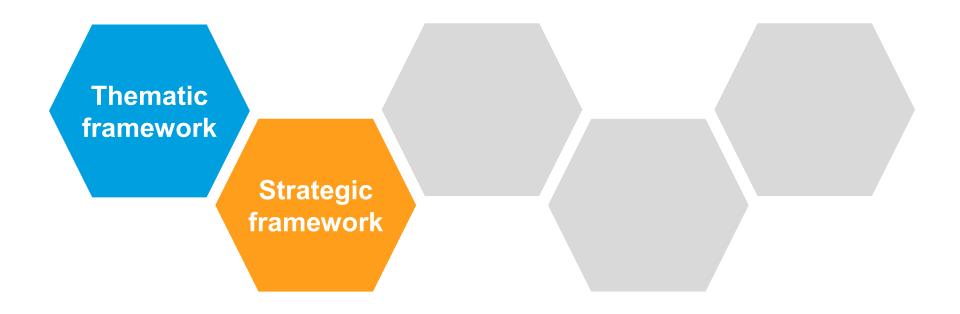


Detector development



Data science

What ErUM achieves and in which fields it operates



What ErUM achieves and in which fields it operates

Key objectives



Scientific excellence



Future technologies



Innovation seeds



Talents for science and industry



Participation

Fields of action



Large-scale facilities



STEM young scientists



Networking

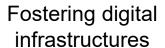


Transfer & participation

Focus: Advancing the digital transformation

Basis: BMBF's Digital Strategy







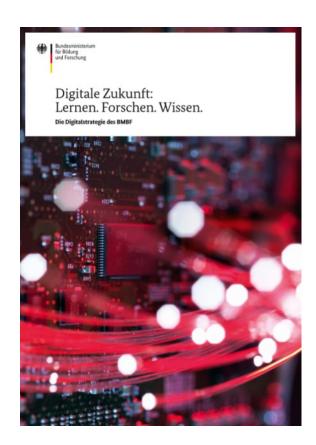
Broadening digital expertise



Networking and exchange



Opening science for participation



Focus: Transfer as provision for the future

Transfer of ideas, knowledge and technologies



Science communication and outreach activities

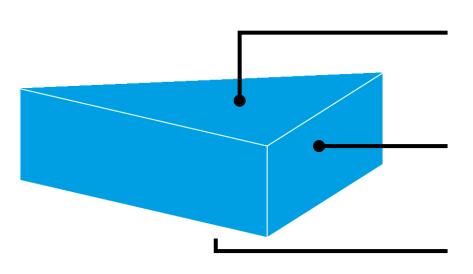


Education and qualification



Transfer of technology

The Prism process – ErUM's key strategic process



Federal Ministry of Education and Research

Higher education institutions
Scientific organizations

International research area

Civil society and private sector



Radar



Forum





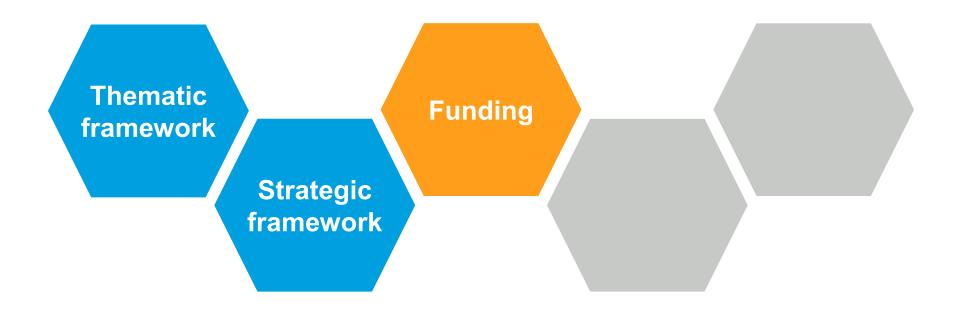


Trialogues

Strategy discourses

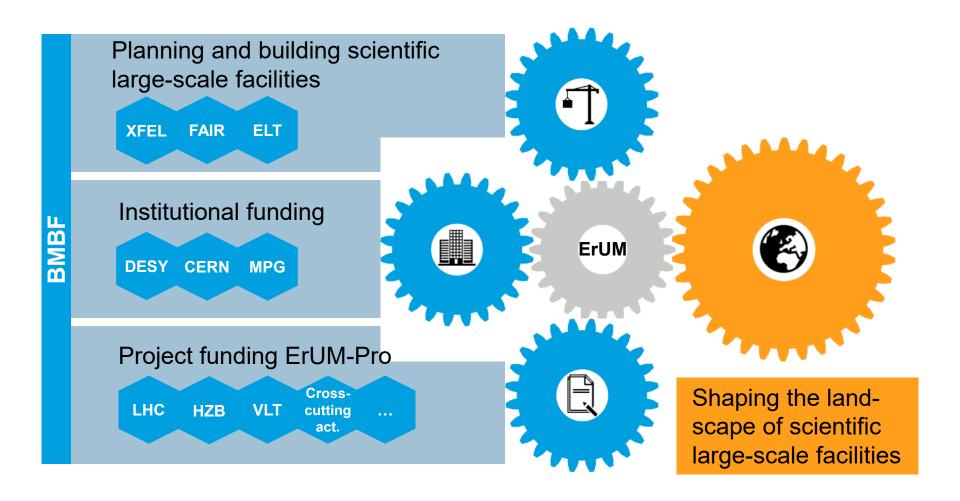
Conferences

How ErUM operates



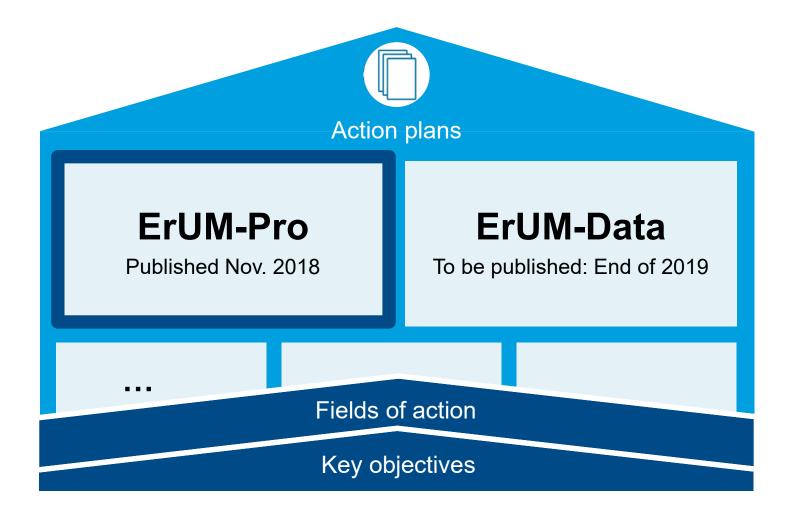
Funding

How ErUM operates



Action plans

Specifying and realizing ErUM



Project funding ErUM-Pro

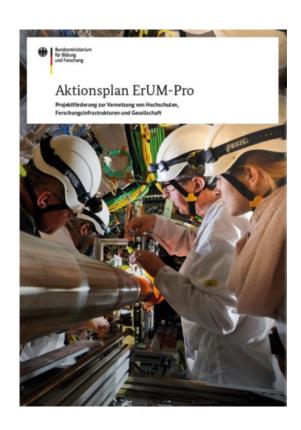
Strengthen cooperation: universities, research infrastructures and society

Goals

- Ensure Germany's position in science and economy
- Enable excellent research
- Keep research infrastructures at the leading edge
- Address future needs

Focus of measures

- Involving universities
- Strengthening cross-cutting activities
- Connecting groups of interest



ErUM-Pro: "Key research hubs"

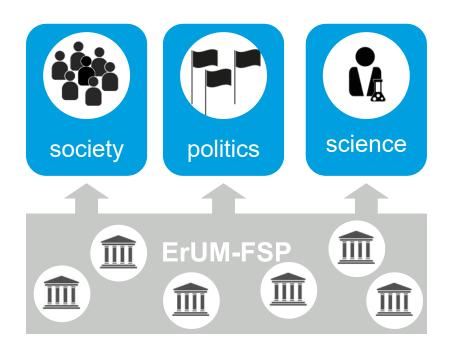
Forschungsschwerpunkte - FSP

Objectives

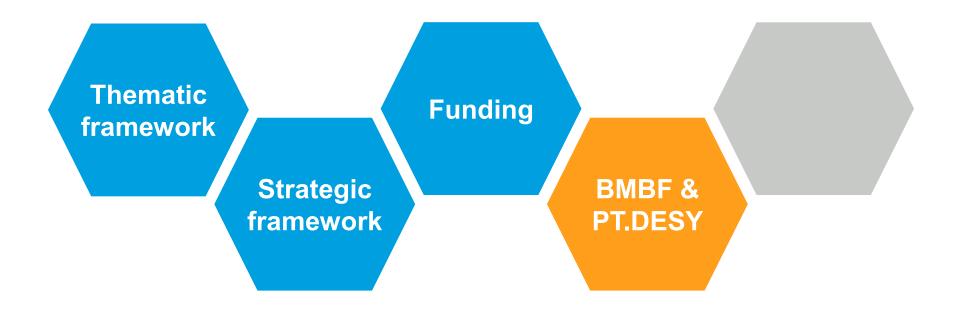
- visibility
- performance
- young scientists

Implementation conditions

- based on topics, methods or experiments
- focus on knowledge and technology transfer
- Elements: networking & coordination, outreach, training

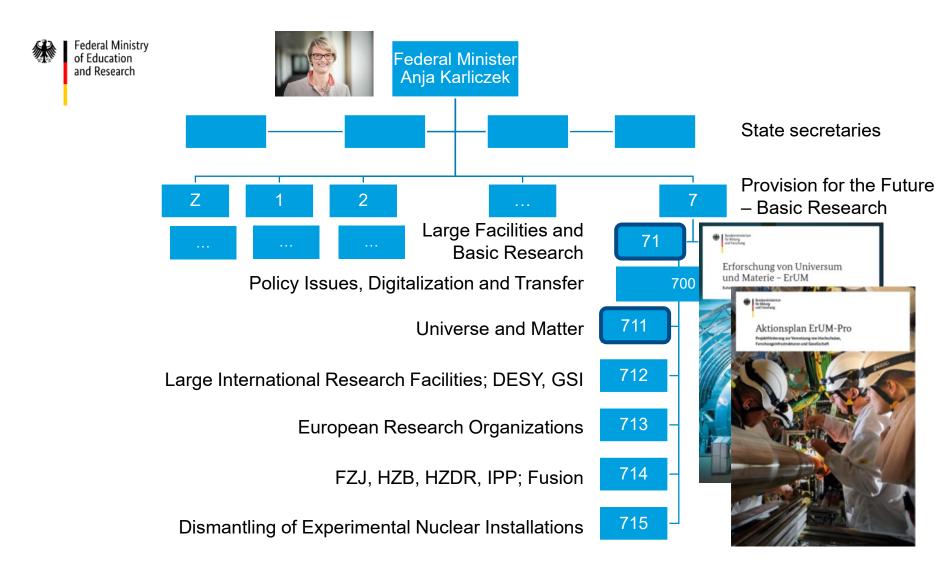


Who is who



Who is who in ErUM

The Federal Ministry of Education and Research (BMBF)



Who is who in ErUM

Projektträger DESY: Project management for division 711



Deutsches Elektronen-Synchrotron Ein Forschungszentrum der Helmholtz-Gemeinschaft
 ø
 pt.desy.de

 ø
 pt.desy.de

 pt.desy.de

PT.DESY Home

Wer wir sind

Was wir leisten

Bekanntmachungen

07.09.2018 - Materie

11.08.2017 - Teilchen

14.03.2017 - Mathematik

29.08.2016 - Universum

Für Zuwendungsempfänger

Karriere

Kontakt

PT.DESY | Projektträger DESY

DESY HOME | FORSCHUNG | AKTUELLES | ÜBER DESY | KARRIERE | KONTAKT

PT.DESY Home / Bekanntmachungen /

Bekanntmachungen

Hinweise und Unterlagen zu Bekanntmachungen des Bundesforschungsministeriums aus den Gebieten Teilchen, Materie, Universum und Mathematik



07.09.2018 - Materie >



11.08.2017 - Teilchen >

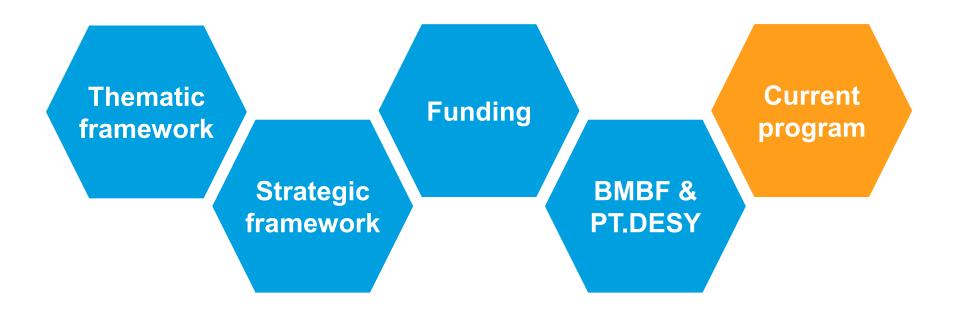
Info

> Aktuelle Bekanntmachungen von Förderprogrammen und Förderrichtlinien des BMBF

Q 📞 🖨 DE

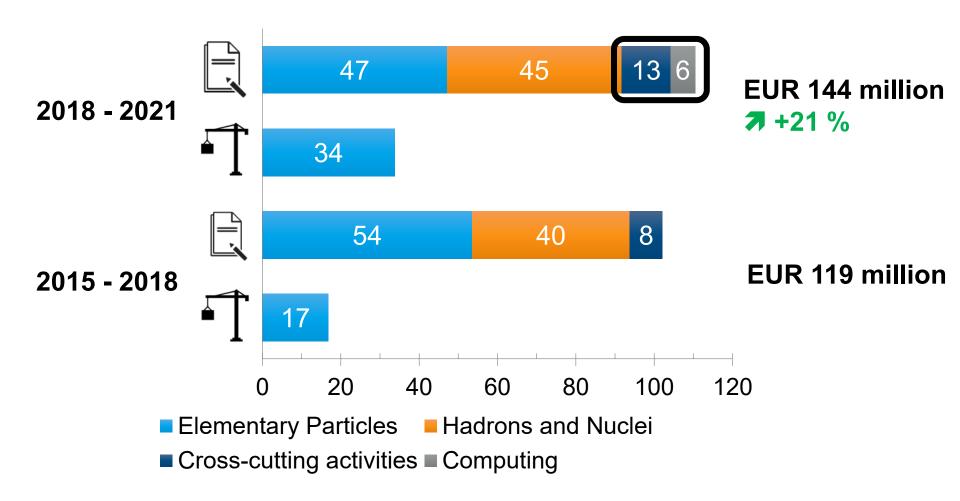


Physics of the smallest particles



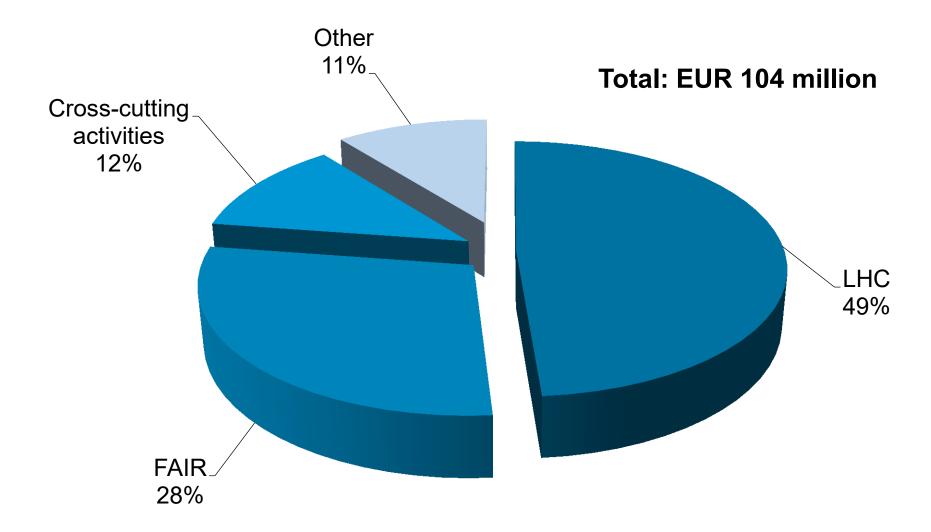
Physics of the smallest particles

Evolution of BMBF priorities



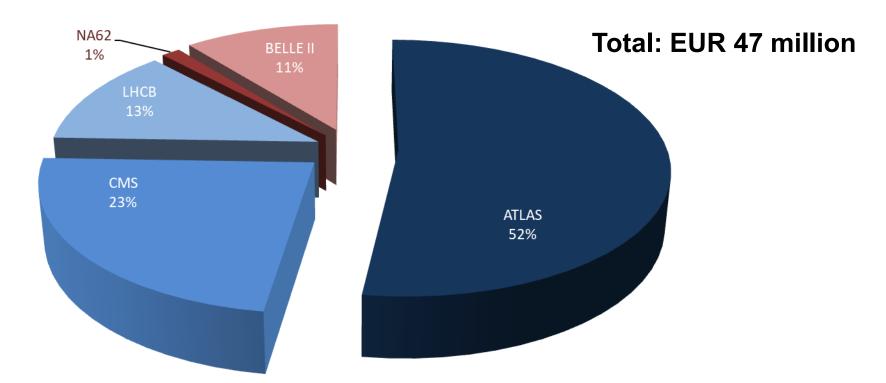
Physics of the smallest particles

ErUM-Pro funding: 2018 - 2021



Particle Physics

ErUM-Pro funding: 2018 - 2021



BMBF priorities:

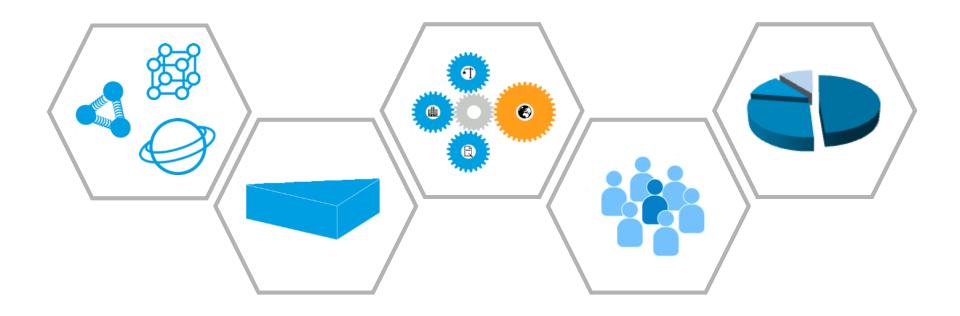
- upgrade phase I
- experiment: operation/service
- data analysis

ErUM-Pro: LHCb including theory

2015-2018: EUR 7.8 million

2018-2021: EUR 5.8 million

ErUM: Exploring Universe and Matter



Thank you

Contact

DESY. Deutsches

Elektronen-Synchrotron

pt.desy.de

Dr. Wolfgang Ehrenfeld

Projektträger

wolfgang.ehrenfeld@desy.de

040-89998 5034