NEXT Level for NEXT Gens





Introducing the HZDR

Helmholtz-Zentrum Dresden-Rossendorf



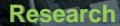
Founding

1956 – ZfK 1992 – FZR 2011 – HZDR



Budget

ca. 120 Mio. € (90:10) + ca. 30 Mio. € 3rd party-f.

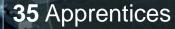


Transformation of the
Energy System
Health Research
Materials and Technologies

Personnel

1437 total (08/2021)

480 Scientists40 Professors189 PhDs

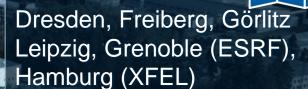


more than 60 Nationalities

Transfer

Own exploitation company HZDRI ca. 5 Mio € Revenue

Research Sites



Strategy

2030+

- Complex and unique large RIs in user operation (peer-review)
- International talents
- Close cooperation with science and industry









HZDR - Application-oriented Basic Research

The HZDR faces the **grand challenges of our time** by providing knowledge and technologies for the next generations in order to:

HEALTH

develop radiation-based diagnostic and therapeutic methods to

combat **cancer**,

support the transition to sustainable industry through resource

and energy efficiency, and

research future materials and technologies and develop

them to the point of application.

MATTER

ENERGY



Complex research infrastructures

International talents

Close collaborations in science and industry







HZDR - Member of the Helmholtz Association









MATTER



Board of Directors Prof. S. M. Schmidt Dr. D. Stiller



Institute of Fluid Dynamics Dr. G. Gerbeth



Institute of Radiation **Physics**





Institute of **Theoretical Physics** Prof. R. Schützhold



Department of Information Services and Computing Dr. U. Konrad

Chief Innovation Transfer Officer

CITO

Dr. B. Wolf



Institute of Resource Ecology Prof. T. Stumpf



Institute of Radiopharmaceutical Cancer Research



Prof. K. Kopka Prof. M. Bachmann



Dresden High Magnetic Field Laboratory HLD

Prof. J. Wosnitza



Department of Research Technology Prof. P. Kaever



Helmholtz Institute Freiberg for Resource Technology

Dr. J. Gutzmer



Institute of Radiooncology OncoRay Prof. M. Krause



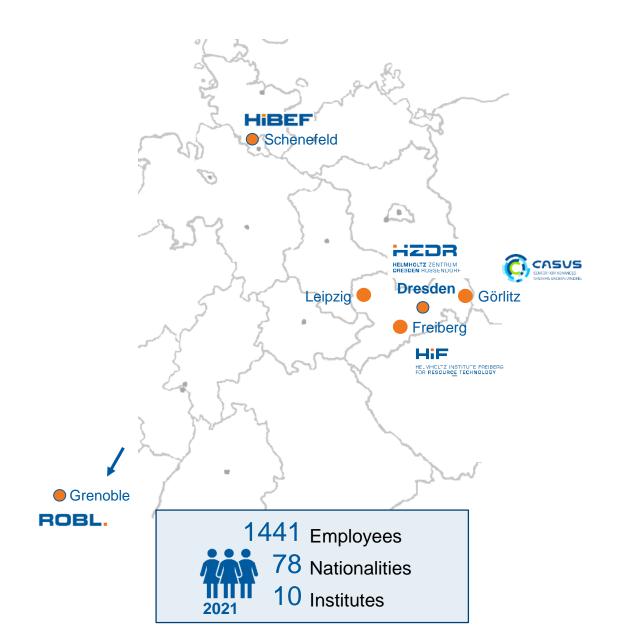


Institute of Ion Beam Physics and Materials Research Prof. M. Helm Prof. J. Fassbender



CASUS -Center for Advanced Systems Understanding Prof. R. Sauerbrey

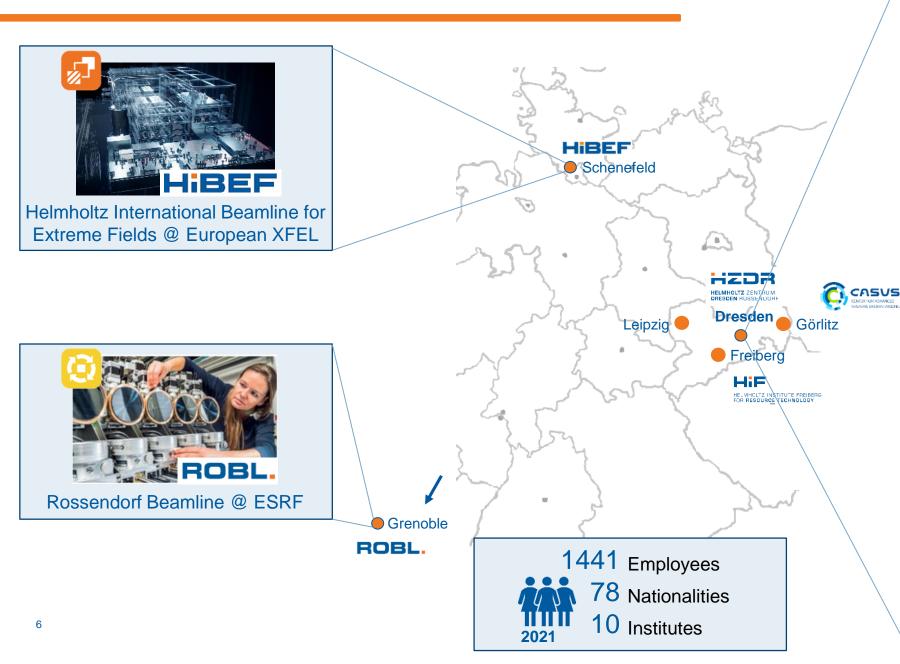
HZDR – Large User Facilities at 6 Research Sites







HZDR – Large User Facilities at 6 Research Sites





High Magnetic Field Laboratory Dresden



Ion Beam Center



Photon and particle source

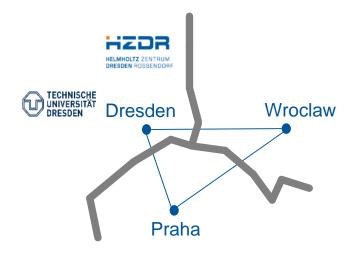


High-power Laser-particle Acceleration

HZDR – Local Partners and Partners around the Globe

- Securing competences through partnerships
- Networking at local, national and international level
- DRESDEN-concept-Network as strong local advantage
- Strategic cooperative relationships in the border triangle Germany –
 Poland Czech Republic;

e.g. connection Dresden – Görlitz – Wroclaw at **CASUS**



























































HZDR – Longterm Established Radiation Protection-Know-how

- Founded in 1955 as "ZFK" Central Institute for Nuclear Physics
- Operation of the Rossendorf Research Reactor until 1989, complete decommissioning in 1991

Today: Broad experience on Research facilities for handling radioactive

substances





Development and production of Radiopharmaceuticals

Marketing authorizations for PET radiopharmaceuticals

















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