

“Research in Germany“



AN INITIATIVE OF THE

Federal Ministry
of Education
and Research

Research in
Germany



Land of Ideas



The RiG - Campaign



- Initiative of the German Federal Ministry of Education and Research (BMBWF) since 2006
- Promoting Germany as a location for research and innovation



What the RiG Campaign aims at...

- Increasing the visibility of Germany as a research location and providing information abroad
- Attracting excellent researchers on different academic career stages
- Expanding and strengthening scientific collaborations between Germany and international partners
- Marketing support for German institutions





“Research in Germany” member institutions

Humboldt Foundation



- Vast alumni network and ambassador scientists around the world
- Fellowships and awards for foreign postdocs and senior scientists
- Brazil: Capes-Humboldt fellowship programme for postdocs and senior scientists

German Academic Exchange Service

DAAD

- Self-governing German organization body of the universities
- Scholarships and fellowships for students and scientists
- Higher Education Cooperations

German Research Foundation

DFG

- Largest German funding agency
- Funding for projects and cooperations
- Strong interaction with scientists
- Executive Organisation of the „Excellence Initiative“ and „Excellence Strategy“

Fraunhofer Society



Fraunhofer

- Research institution
- Interface between research and Companies (innovation)
- Contract research for industry and government



Pillars of the German research sector

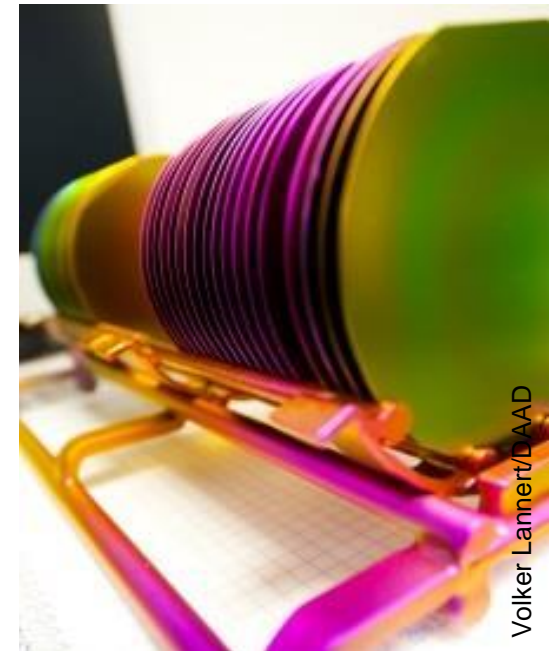
Universities (HEIs)



Non-university research institutes

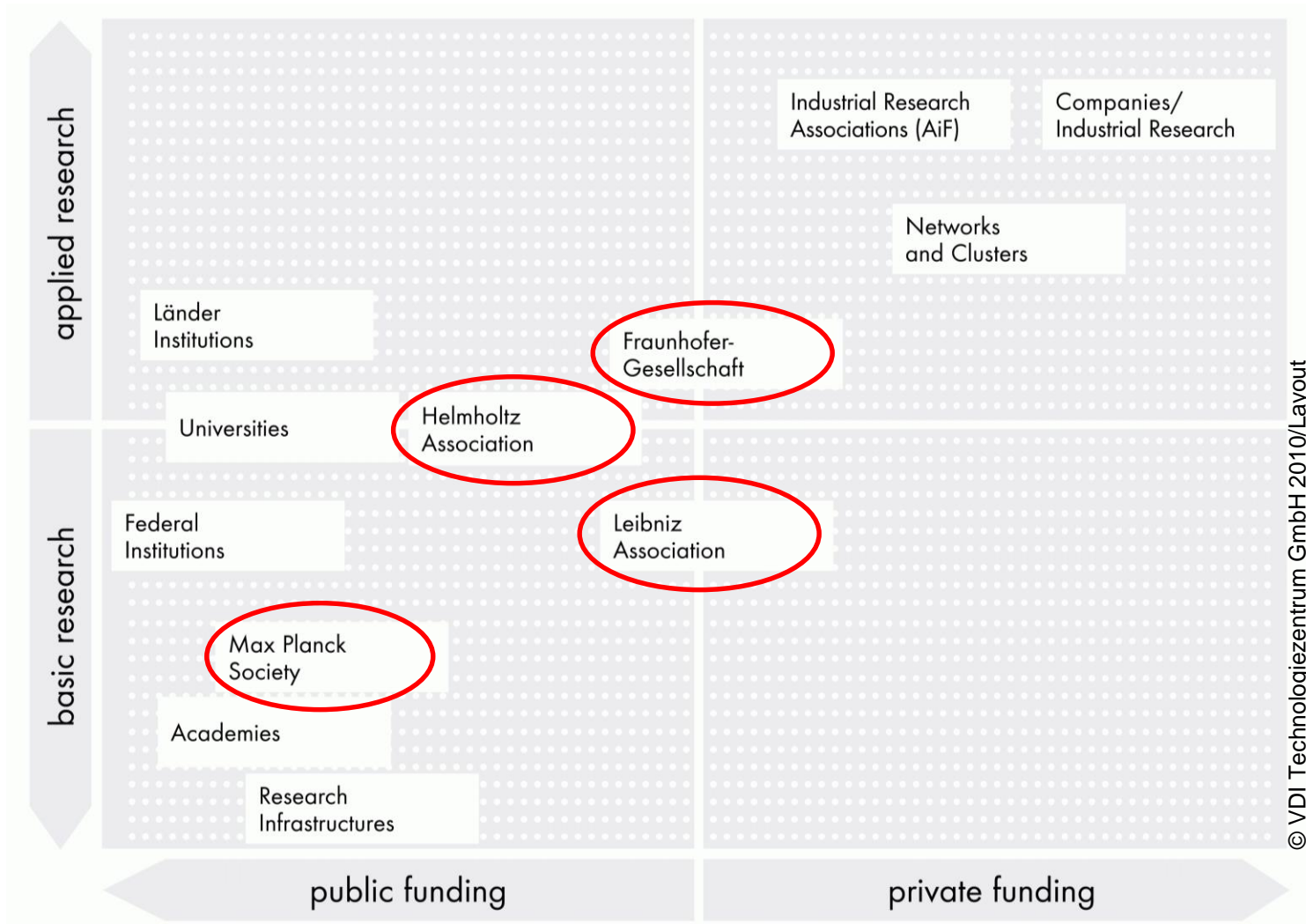


Industrial research





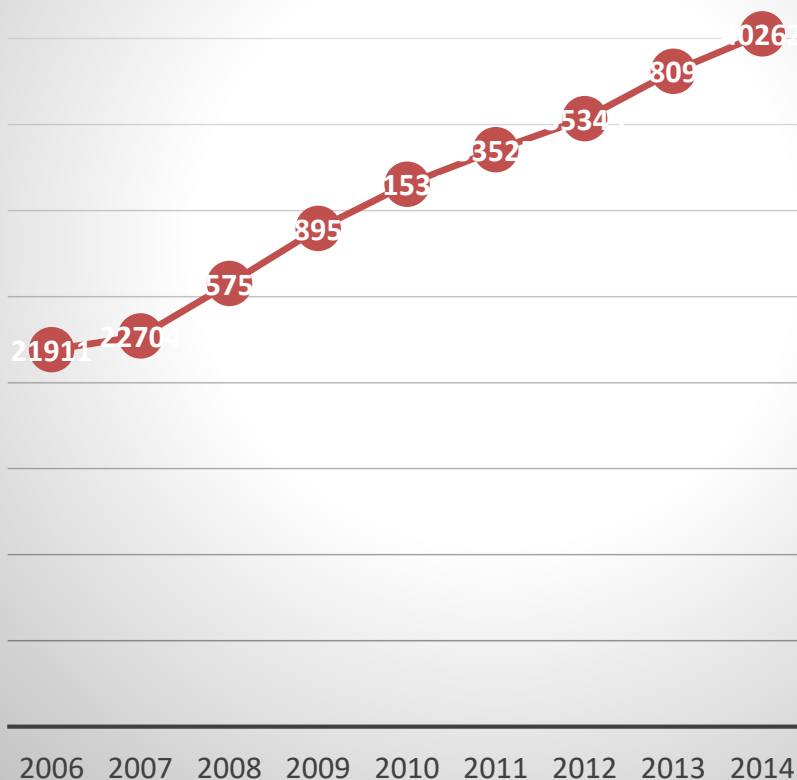
Non-university research (I)



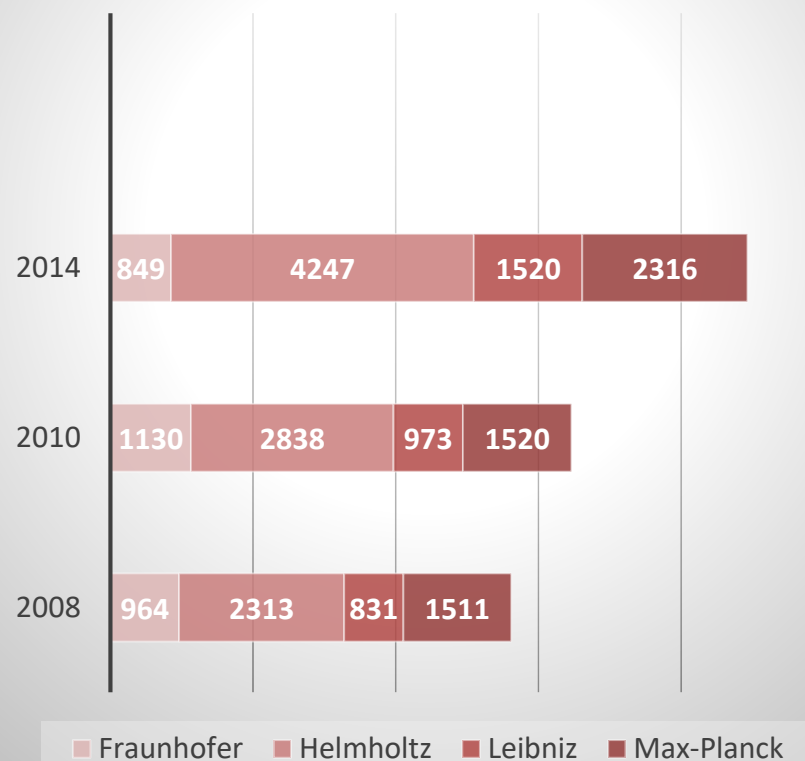


International researchers

Foreign researchers and professors at German universities since 2006



Foreign staff at the four largest German research institutions in 2008, 2010 and 2014





Industrial research

- 66% of all research funding in Germany comes from business and industry
- Innovation-driving sectors: pharmaceuticals, electronics, automotive engineering, mechanical engineering
- Technology transfer – Cluster formation, networks





Mathematics landscape in Germany

OVERVIEW



- | | |
|---|---|
|  Graduate Schools |  Helmholtz Graduate Schools |
|  Research Training Groups |  International Max Planck Research Schools |
|  International Research Training Groups |  Fraunhofer Institutes |
|  Integrated Research Training Groups in Clusters of Excellence |  Leibniz Institutes |
|  Integrated Research Training Groups in Collaborative Research Centres/Transregios |  Max Planck Institutes |
|  Clusters of Excellence |  Others |
|  Collaborative Research Centres/Transregios | |

DFG funded Priority Programmes and Research Units are not shown on the map since they are not necessarily located at a single location; they are listed on pages 13 and 15.



Mathematics landscape in Germany

▪ Centres of Research

Cluster of Excellence (1) established in the framework of the German Excellence Initiative to promote cutting-edge research:

Hausdorff Center for Mathematics (2006) at Bonn University :
“Mathematics, Foundations, Models, Applications“

Collaborative Research Centres (7): organisational units at universities for researchers to pursue an outstanding research programme: 7 **FU Berlin, Bielefeld, Bonn, KIT Karlsruhe, WWU Münster, Potsdam, Regensburg**

Transregios (4): Collaborative Research Centres, up to 3 universities from Germany and neighbouring countries.



Mathematics landscape in Germany

- **Research Groups**

- **Research Units (3):** Working group/team of researchers looking for establishing new research directions, very often in interdisciplinary research projects.
- **Priority Programmes (7):** programmatic focus with several subprojects, up to 30 researchers in collaborative networked support.



Mathematics landscape in Germany

▪ Non-University Research Institutes

Fraunhofer Institutes (2): Kaiserlautern, St. Augustin

Leibniz Institutes (2): Berlin, Oberwolfach

Max Planck Institutes (2): Bonn, Leipzig

Others (3): Berlin

▪ Graduate Programmes

Graduate Schools (2): Berlin Mathematical School (TU Berlin, HU Berlin, FU Berlin) and Heidelberg Graduate School of Mathematical and Computational Methods for Science (U Heidelberg)



Mathematics landscape in Germany

▪ DAAD Funding Opportunities

- **EPOS Scholarship Program:** PhD in Mathematics in Industry and Commerce (MIC) at the University of Kaiserslautern.
- **PROBRAL (Cooperation DAAD-CAPES):** Funding of 30 German-Brazilian Research Projects for 2 years.
- **Research Grants (Doctoral Programmes) | DAAD-CAPES:** Funding of PhD Scholarships.
- **Research Stays for University Academics and Scientists:** Promote research in Germany and the strengthening of the bonds between Brazilian and German scientists
- **Re-invitation Programme for Former Scholarship Holders**



Mathematics landscape in Germany

- **DAAD Funding Opportunities**

- **Opportunities for German Professors / Researchers:**

- **Program Johann Gottfried Herder**

Support for at least one semestre for retired professors from German universities at foreign universities

- **Kurzzeitdozenturen**

German professors who wish to apply for a research stay at a foreign university.



Websites and databases

SOCIETIES AND ASSOCIATIONS IN GERMANY

Deutsche Mathematiker Vereinigung (DMV): <https://dmv.mathematik.de> (DE)

International Association of Applied Mathematics and Mechanics (GAMM):
www.gamm-ev.de

OPEN POSITIONS

Research in Germany: www.research-in-germany.org/jobs

Fraunhofer Society: www.fraunhofer.de/en/jobs-career

Helmholtz Association: www.helmholtz.de/en/jobs_talent

Leibniz Society: www.leibniz-gemeinschaft.de/en/careers

Max Planck Society: www.mpg.de/jobboard



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Thank you!



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