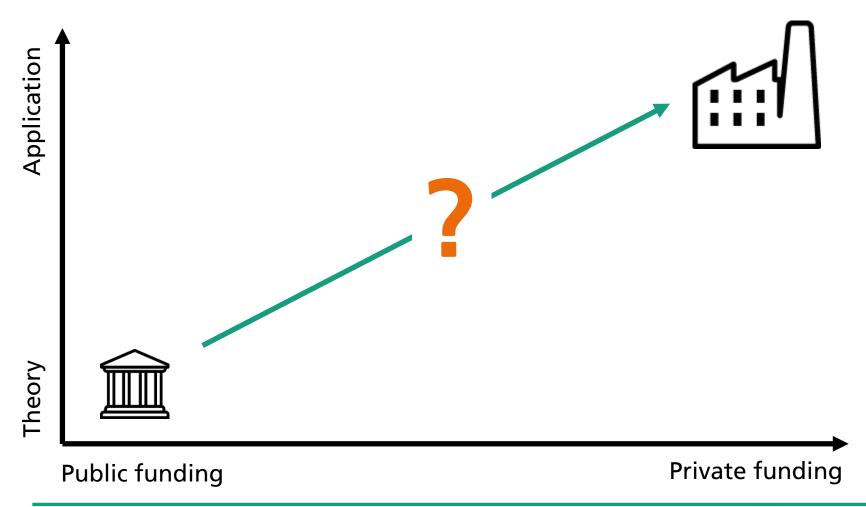
From research to innovation: How Fraunhofer spur knowledge and technology transfer



Georgian-German Day of Science Tbilisi, 19 September 2016

Balthasar Kinkel
Project Manager
Research and Business Acceleration

The German research and innovation system From science to industry

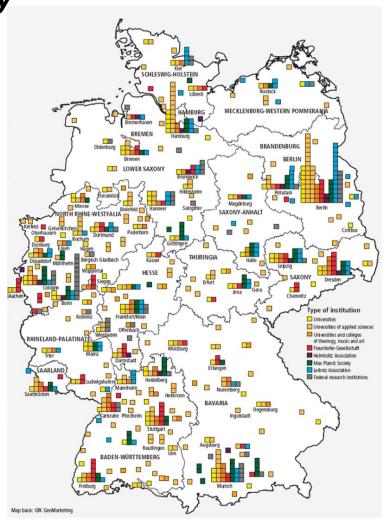




The German research and innovation system

Complementarities and Diversity

- 105 universities (incl. technical universities)
- 234 universities of applied sciences
- 67 Fraunhofer institutes
- 82 Max Planck institutes
- 89 Leibniz institutes
- 18 Helmholtz research centers

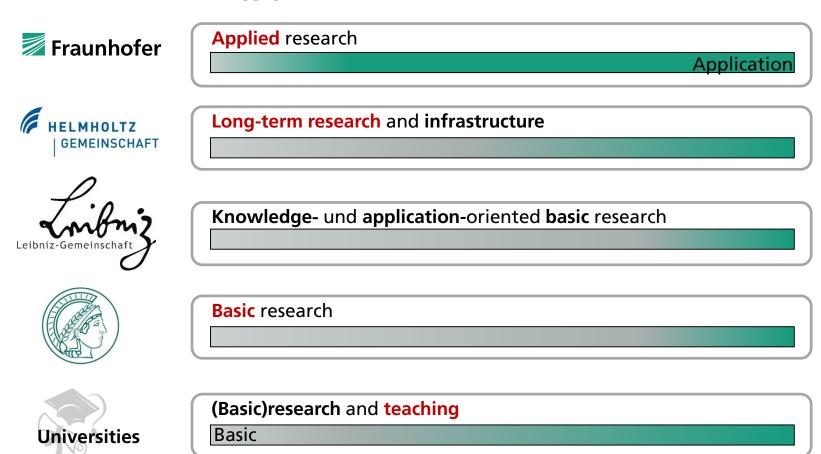


Management and Knowledge Economy

The German research and innovation system

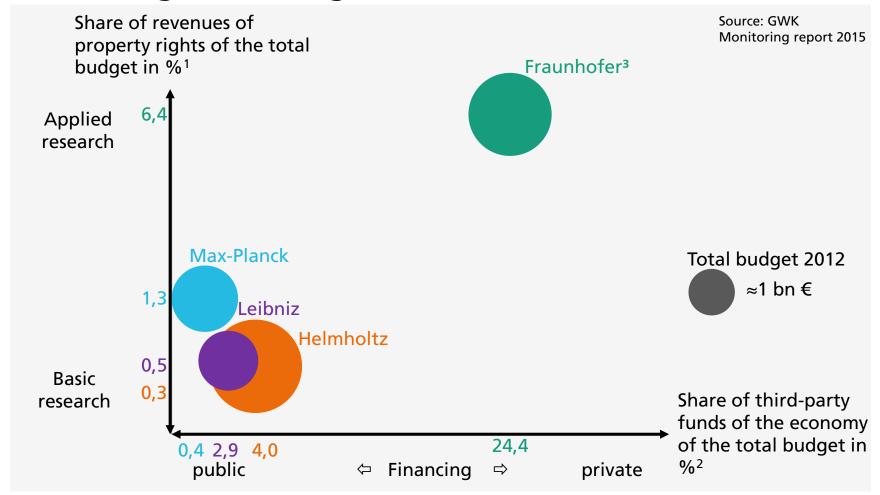
Key actors with a clear mission

Mission



The German research and innovation system

Positioning of the "Big Four"



¹ Copyright, Know-how, Patents, Licenses, etc.



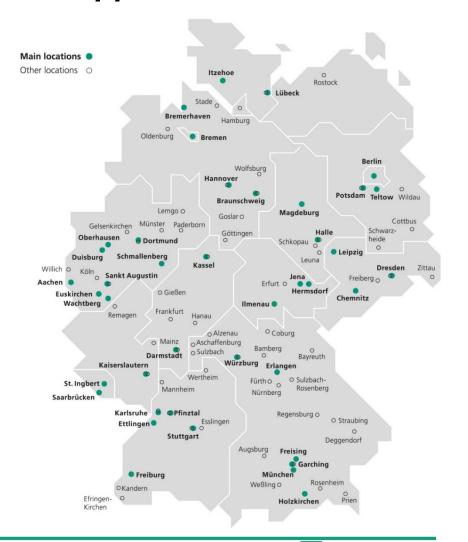
² Without revenues of property rights

³ Deviating from the presentation in the Fraunhofer annual report due to different demarcations

The Fraunhofer-Gesellschaft

Europe's largest organization for applied research

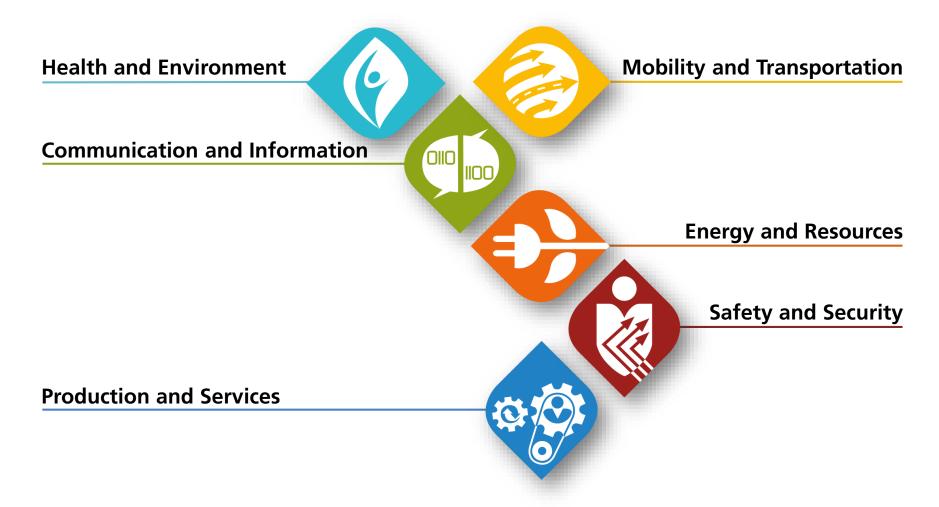
- 67 institutes and research units
- Nearly 24,000 staff members
- Annual research budget totaling EUR 2.1 bn. More than EUR 1.8 bn is generated through contract research with public and private customers
- Institutes work as profit centers; approx. 1/3 of revenues comes directly from industry



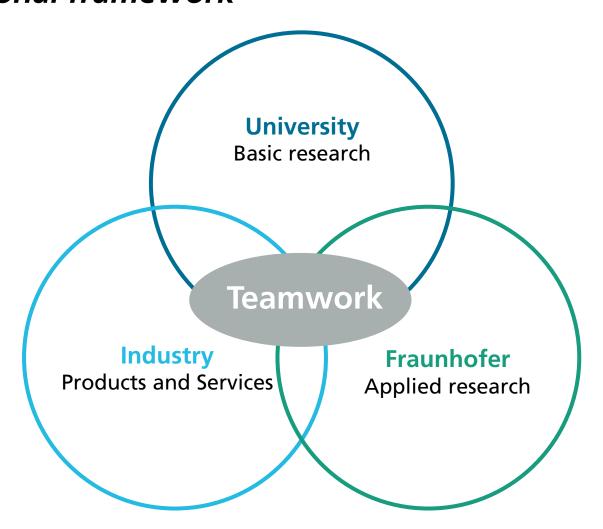


Fraunhofer's fields of research

More than 250 business fields and core competencies



Integration in the research and innovation system Institutional framework



Creating science-based value chains

Fraunhofer's affiliation with universities

Main task of universities

Research, teaching and education/advancement of young researchers

Development

 Strong acquisition of third-party funds (esp. DFG (German Research Foundation) and business sector; in part strong application orientation)

Cooperation with Fraunhofer

- Stock of 193 "joint appointments" in 2014, incl. institute directors
- Knowledge pool based on basic research
- Recruitment platform for student assistants, interns, diploma students, doctoral candidates for Fraunhofer

Fraunhofer Model



Base Funding: continuity of scientific excellence

Public Projects: precompetitive research (networks)

Industrial Contracts: direct innovation push

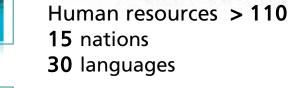
Fraunhofer Center for International Management and **Knowledge Economy**

Knowledge and Corporate Sustainability Development **Technology** Management in International Transfer and Competition Infrastructure **Economics** Health & Environment, Mobility &

Transportation, Production & Services,

Energy & Resources, Information &

Communication, Safety & Security



NEW VISION

30 languages

2.85 € mio. revenues

Int. funding: 40%

NEW BUSINESS

Internationalization in the Global Knowledge Economy Our research lines

Corporate Development in International Competition

Research and Business Accelerator

Business Models: Engineering and Innovation

Price and Services Management

Professional Development and Competence Management

Regional Positioning and Location
Development

Knowledge and Technology Transfer

Professionalization of Transfer Processes

Innovation Financing

Competitive Intelligence

International Innovation Policies

Entrepreneurship and Innovation for Development Cooperation Sustainability Management and Infrastructure Economics

Energy Management and Energy
Economics

Stakeholder Dialogue and Social Acceptance



FRAUNHOFER-ZENTRUM FÜR INTERNATIONALES MANAGEMENT UND WISSENSÖKONOMIE

FRAUNHOFER CENTER FOR INTERNATIONAL MANAGEMENT AND KNOWLEDGE ECONOMY

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