

ConnectResearch09 / OECD Paris / 12 - 13 November 2009



Innovation Models

for the benefit of Small and Medium sized Enterprises in Germany



Arbeitsgemeinschaft industrieller Forschungsvereinigungen
German Federation of Industrial Research Associations



1 / 15

General Information on the German Innovation System (1)

R&D funding organisations

Deutsche Forschungsgemeinschaft
German Research Foundation

Arbeitsgemeinschaft industrieller Forschungsvereinigungen
German Federation of Industrial Research Associations

Deutsche Bundesstiftung Umwelt
German (Federal) Foundation Environment

Deutscher Akademischer Austauschdienst
German Academic Exchange Service

Alexander von Humboldt-Stiftung
Alexander von Humboldt Foundation

Begabtenförderungswerke / Institutions for
promoting gifted students in higher education

Deutsche Stiftung Friedensforschung
German Foundation for Peace Research

Stiftung Geisteswissenschaftliche Institute im Ausland
German Humanities Institutes Abroad Foundation

Tasks

Promotion of basic research

Promotion of Collective
Research

Promotion of environmental
protection

Promotion of academic
exchange

Promotion of academic
cooperation

Provision of scholarships

Promotion of peace studies

Provision of scholarships
in abroad



2 / 15

General Information on the German Innovation System (2)

R&D project agencies

- AiF / Cologne
- AiF / Berlin
- EuroNorm GmbH
- VDI/VDE-Technologiezentrum GmbH
- VDI Technologiezentrum GmbH
- Deutsches Elektronen-Synchrotron
- Deutsches Zentrum für Luft- und Raumfahrt (Aeronautics / Space / Transport / Energy)
- Forschungszentrum Jülich (Health / Energy+Environment / Information / Key Technologies = Physics etc.)
- Forschungszentrum Karlsruhe
- Gesellschaft für Schwerionenforschung mbH
- Gesellschaft Anlagen- und Reaktorsicherheit
- TÜV Management GmbH

promotion of

Research at Universities of Applied Sciences
Central Innovation Programme for SMEs - ZIM
ZIM - KOOP (R&D cooperation projects)
ZIM - SOLO (individual R&D projects of SMEs)
ZIM - NEMO (R&D networking for SMEs)
Micro system technology / Solar thermal power plants
Nanoelectronics, - materials / Optical technologies
Astro-, condensed matter-, high energy physics
Health Research / Development of Work and Services /
Environment, Culture, Sustainability / Education /
New Media / IT / International Bureau / EUREKA
Biotechnology / Energy / System Earth / Environment
and Sustainability / Materials / Navigation and
maritime technologies / Natural Sciences
Production Technologies / Manufacturing / Water /
Waste / Waste Disposal / nuclear disposal sites
Hadrons and nuclear physics
Research on nuclear reactor safety
Mobility / Transport / Logistic / Building / Living



3 / 15

AiF in brief

Name: Arbeitsgemeinschaft industrieller Forschungsvereinigungen
German Federation of Industrial Research Associations

Offices: Cologne (Main Office) and Berlin

Staff: 140 employees

Legal Form: Registered Association (non-profit Organization)

Established: 1954

Members: 101 industrial research associations of
of different industrial and technological sectors
representing some 50,000 small and medium sized enterprises

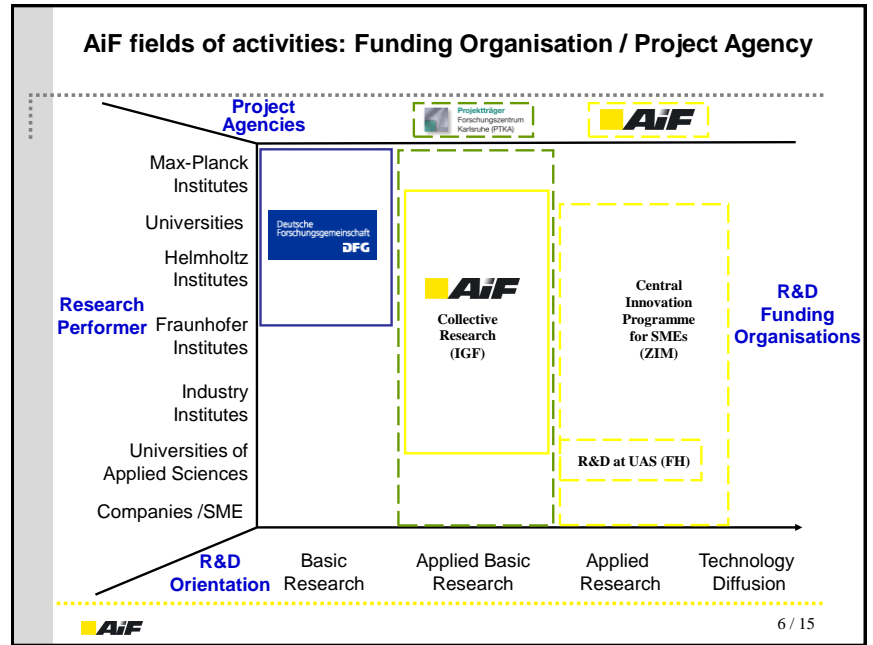
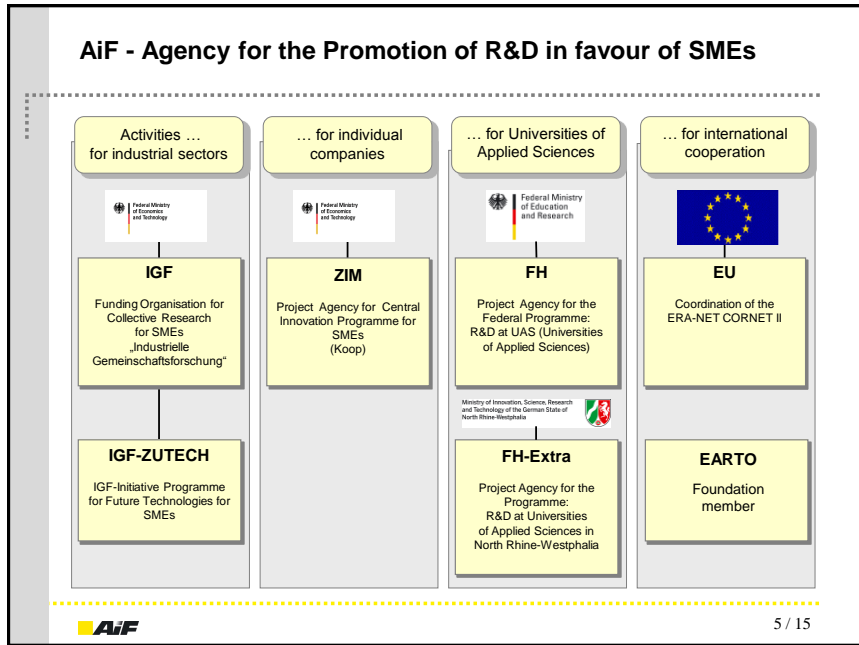
President: Dr. Thomas Gräbener

Chief Executive: Dr. Michael Maurer

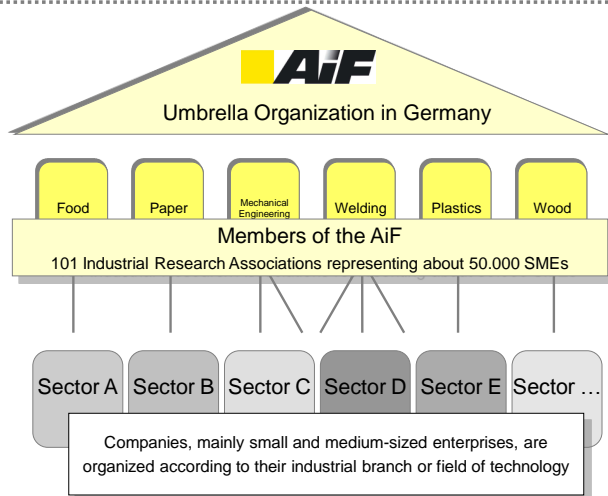
Information: www.aif.de



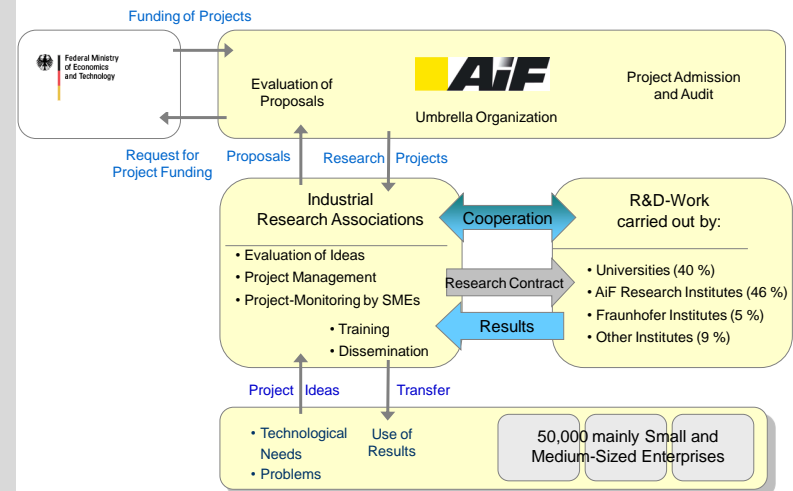
4 / 15



The AiF Collective Research Network



The AiF Collective Research Process



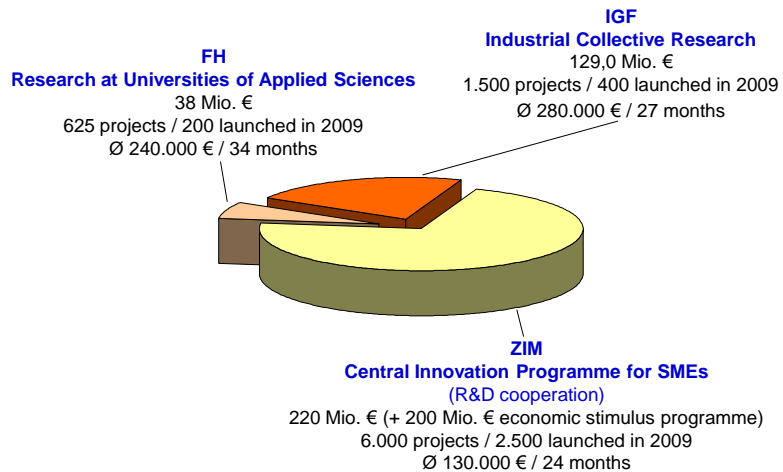
The Key Elements of Collective Research

- Collective Research is research for broad groups of enterprises, especially small and medium-sized enterprises (SMEs)
- Each project must clearly demonstrate the economic added value of the research-work for enterprises in a given sector
- Collective Research projects are proposed and managed exclusively by industrial associations
- Collective research projects are performed by research institutes or universities selected according to their excellence
- The involvement of SMEs in every research-project is guaranteed via project monitoring groups
- Diffusion and technology transfer are performed by both, the involved industrial associations and the research institutes

Preferred R&D Fields of Collective Research

- Prenormative standardization, product standardization: e.g. standard dimensions
- (Sectoral) Technical „tools“: e.g. materials database
- Environmental solutions: e.g. emissions, dangerous substances, safety at work
- Generic industry demand: e.g. body scanning in clothing industry
- Basic technologies: e.g. alternative materials (cost/benefit, functional qualities)
- Process technologies: e.g. cost benefit analysis of alternative technical solutions

AiF - Budget 2009



AiF International Activities - CORNET



- ERA-NET = European Research Area Networking
- CORNET = Collective Research Networking
- CORNET = coordinated by the AiF and funded by the European Commission
- CORNET = 21 partners representing national and regional programmes and initiatives from 17 European countries or regions
- CORNET = to promote cooperation between SME Associations and research institutes across Europe and to increase the efficiency of Collective Research policy and practice in Europe
- CORNET = cooperation with EraSME which is aiming on the cooperation between individual SMEs and research institutes across Europe.

www.cornet-era.net



AiF International Activities - EARTO



- EARTO = European Association of Research and Technology Organisations
- EARTO = the trade association of Europe's specialised research and technology organisations (RTOs). Its members make a major contribution to strengthening economic competitiveness and social development in Europe by supporting product, process and service innovation in all branches of industry and services, public and private.
- EARTO = international non-profit organisation founded in 1999
- EARTO = nearly 150 RTOs from 26 countries
- EARTO = RTOs with a total staff of some 150,000 scientists, engineers and technicians and an annual turnover of €15 billion. Their equipment and facilities total several billion euros and their services benefit more than 100,000 customers annually.

www.earto.eu

General Information on German Innovation System (3)

German High-Tech Strategy (launched in 2006)

<http://www.bmbf.de/en/6608.php>

German Initiative for Excellence (2nd phase until 2017)

<http://www.bmbf.de/en/1321.php>

Maps of Research Institutions in Germany

<http://www.bmbf.de/en/5355.php>

German Research Search Engine

<http://www.forschungsportal.net/index-en.html>

Report of the Federal Government on Research 2006

http://www.bmbf.de/pub/bufo_2006_eng.pdf

Contact

Thank you for your attention !

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