



DFG



# DFG Funding Opportunities and Japanese-German Cooperations

Dr. Iris Wiczorek, DFG Office Japan  
18th May 2012, Tokyo Institute of Technology, Career Day



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# Outline

- 1. The German Research Landscape**
- 2. The DFG: Who we are and what we do**
- 3. The DFG: Investing in Early Career Researchers**
- 4. International Strategy of DFG – What we do in Japan**

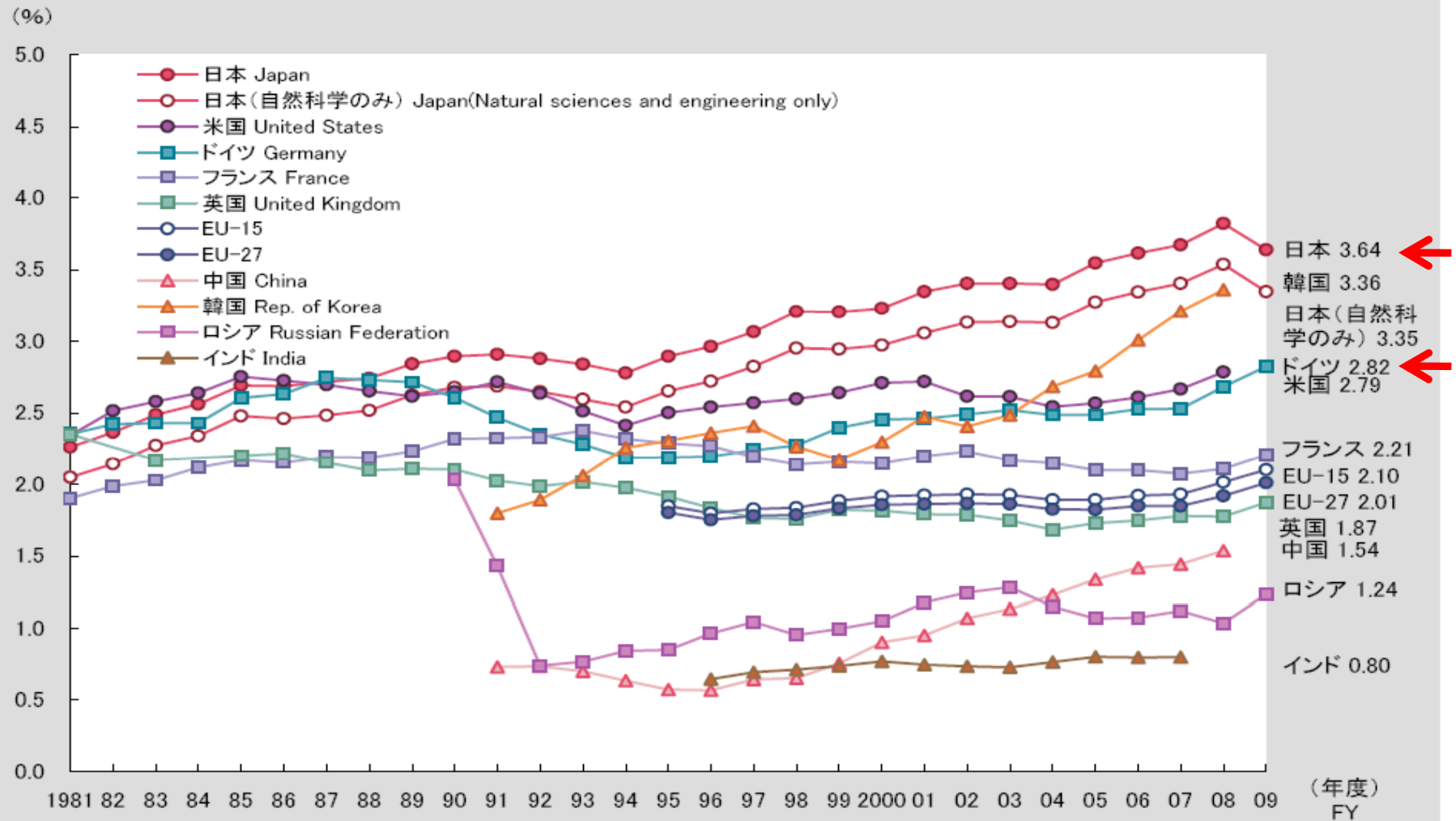
# The German Research Landscape

1. R&D expenditure in international comparison
2. R&D expenditure in Germany by performing sector
3. Structure of the German research funding system



# 研究費総額 Total R&D expenditures

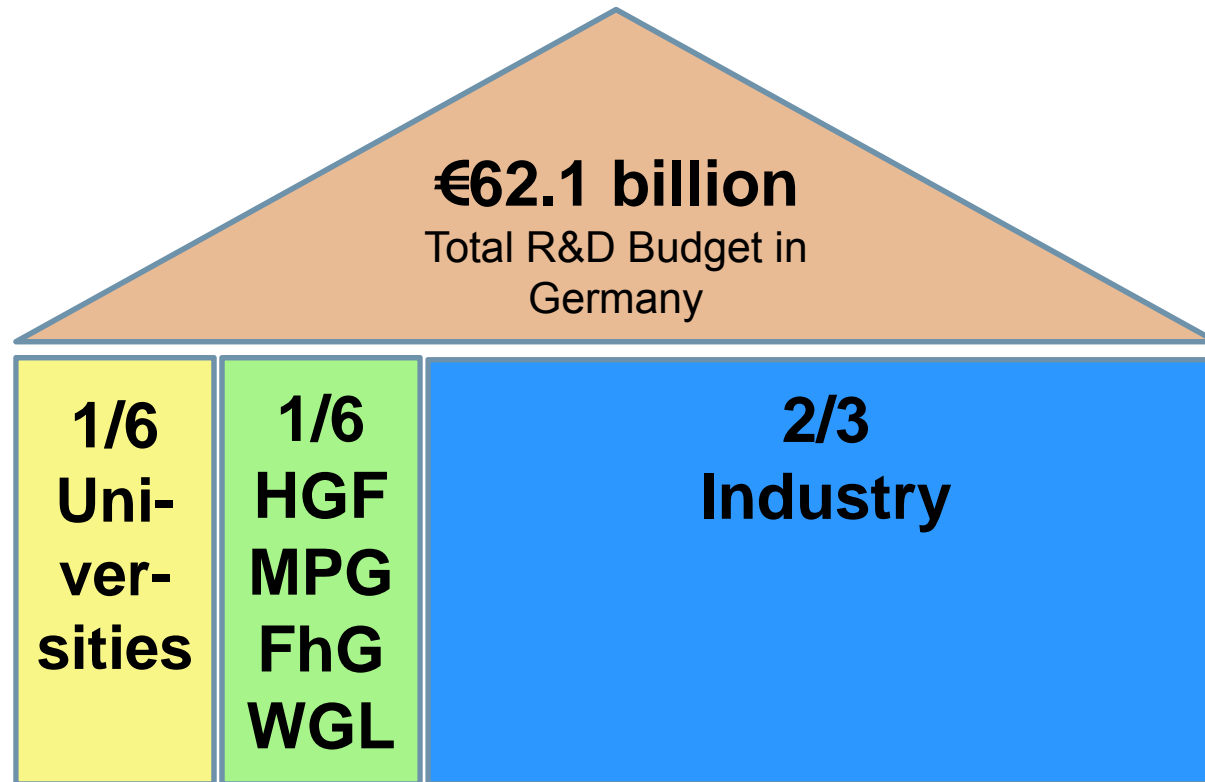
## 主要国等の研究費対国内総生産（GDP）比の推移



Source: MEXT 2011

# The German Research Landscape

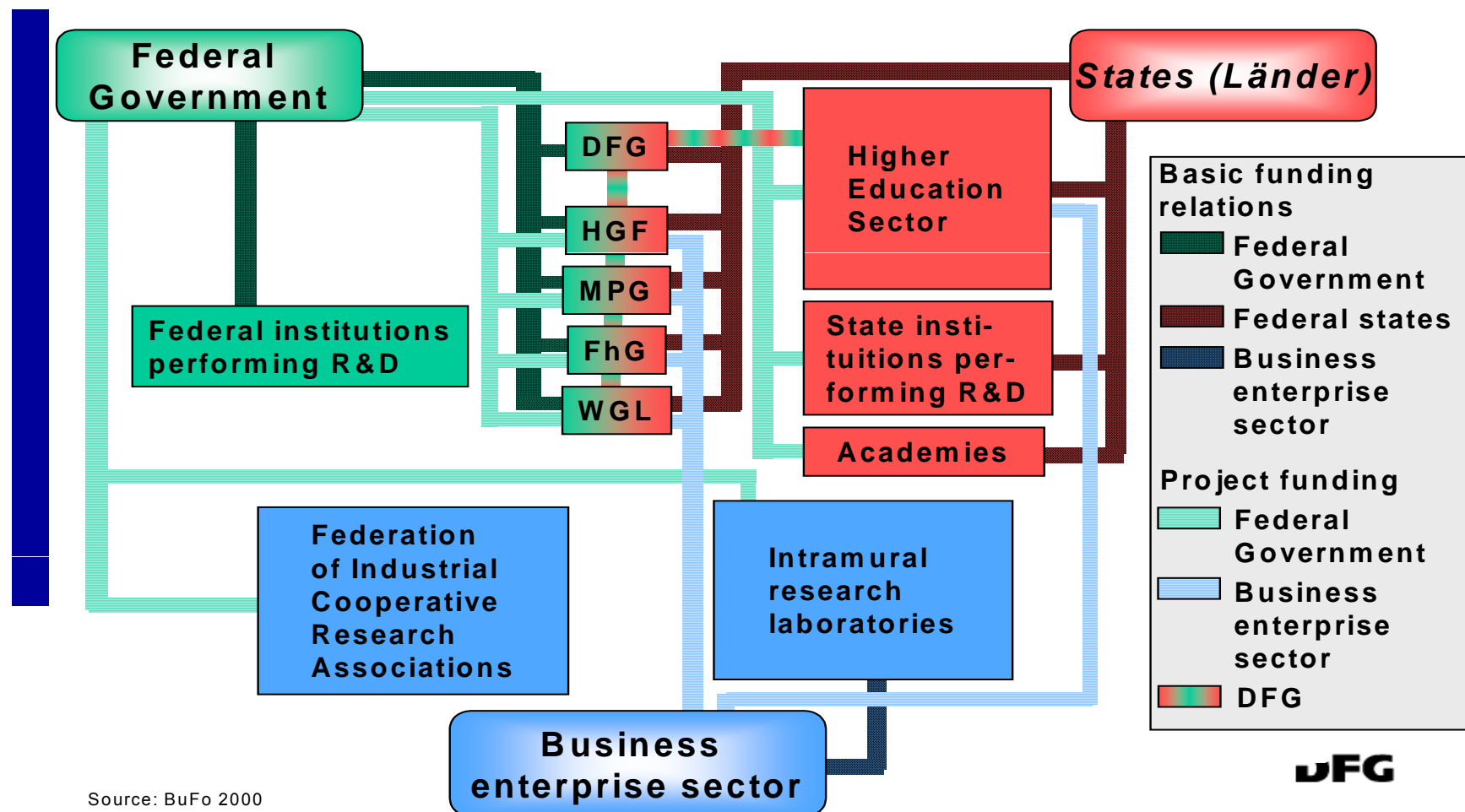
## R&D Expenditure in Germany by performing sector



Source: BuFI 2010

# The German Research Landscape

## Structure of the German research funding (simplified system)



# The DFG: Who we are and what we do

1. What is the DFG?
2. How is the DFG structured?
3. What are the DFG's aims?
4. Who is eligible for DFG funding?
5. What does the DFG fund?



# What is the DFG?

Germany's central public funding organisation for academic research

## The DFG

- ▶ is **bottom-up** oriented
- ▶ serves **all branches** of science and the humanities by funding **research projects** (basic research) and facilitating **cooperation among researchers**
- ▶ supports the education and advancement of **early career researchers**
- ▶ promotes **equality** between men and women
- ▶ **advises** parliaments and public authorities on scientific matters
- ▶ fosters **relations** between **research and the private sector** and between scientists and academics at **home and abroad**





# What is the DFG?

Germany's central, self-governing research funding organisation

Member institutions include

- ▶ German universities (69)
- ▶ non-university research institutions (16)
- ▶ German academies of sciences and humanities (8)
- ▶ scientific associations (3)



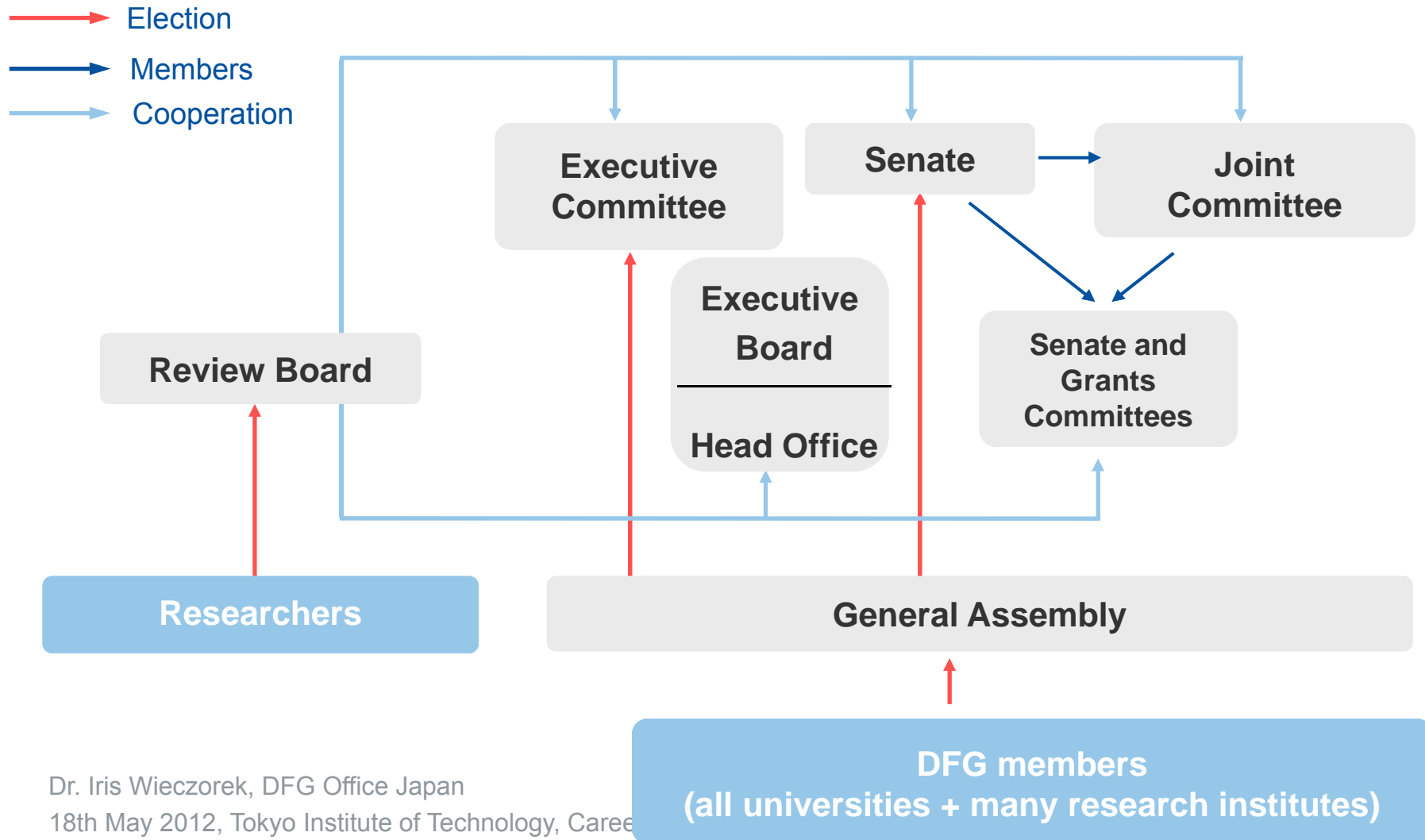
List of members : [www.dfg.de/dfg\\_profil/gremien/mitgliederversammlung\\_liste/index.jsp](http://www.dfg.de/dfg_profil/gremien/mitgliederversammlung_liste/index.jsp)

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# How is the DFG structured?

Self-governing body of science and research, not a government agency



## What are the DFG's aims?

The DFG's scientific aims are to

- ▶ ensure the **best possible support** for outstanding scientists and early career researchers
- ▶ make research funding **open to all disciplines** in accordance with scientific **standards of quality**
- ▶ keep Germany **future-oriented** and **internationally competitive** as a scientific location



## Who is eligible for DFG funding?

Funding opportunities are targeted towards researchers

- ▶ at German research institutions who have completed their scientific training (doctorate)
- ▶ who (want to) live and work in Germany or go abroad (research fellowships)
- ▶ of all ages



# What does the DFG fund?

## DFG Budget

**Annual Budget (2010): 2,3 billion Euro**

### Sources of Funding

**67.1% Federal Government (Bund)**

**32.7% States (Länder)**

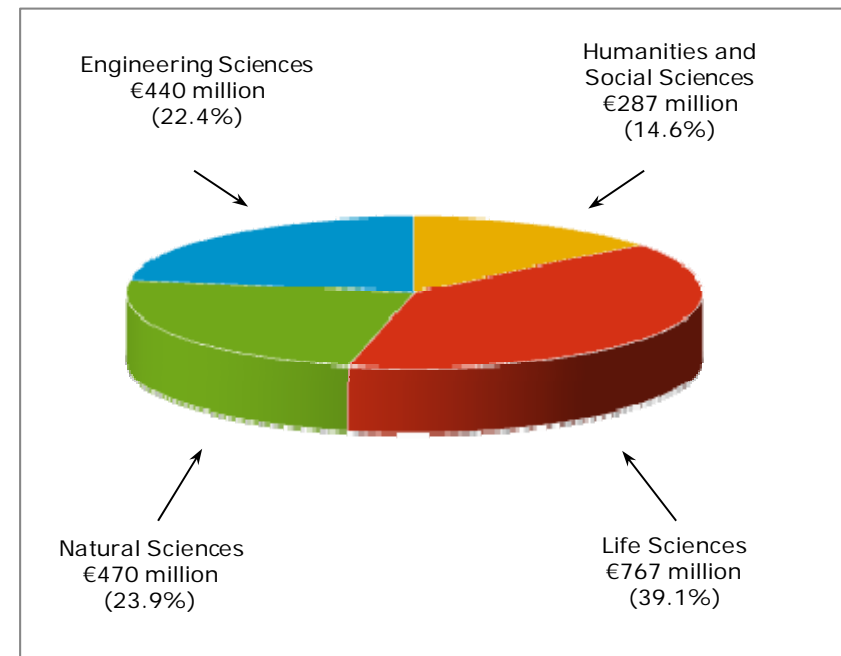
**0.2% Others (private sources)**

### Funding Volume

► **Nearly 1.000 running programmes**

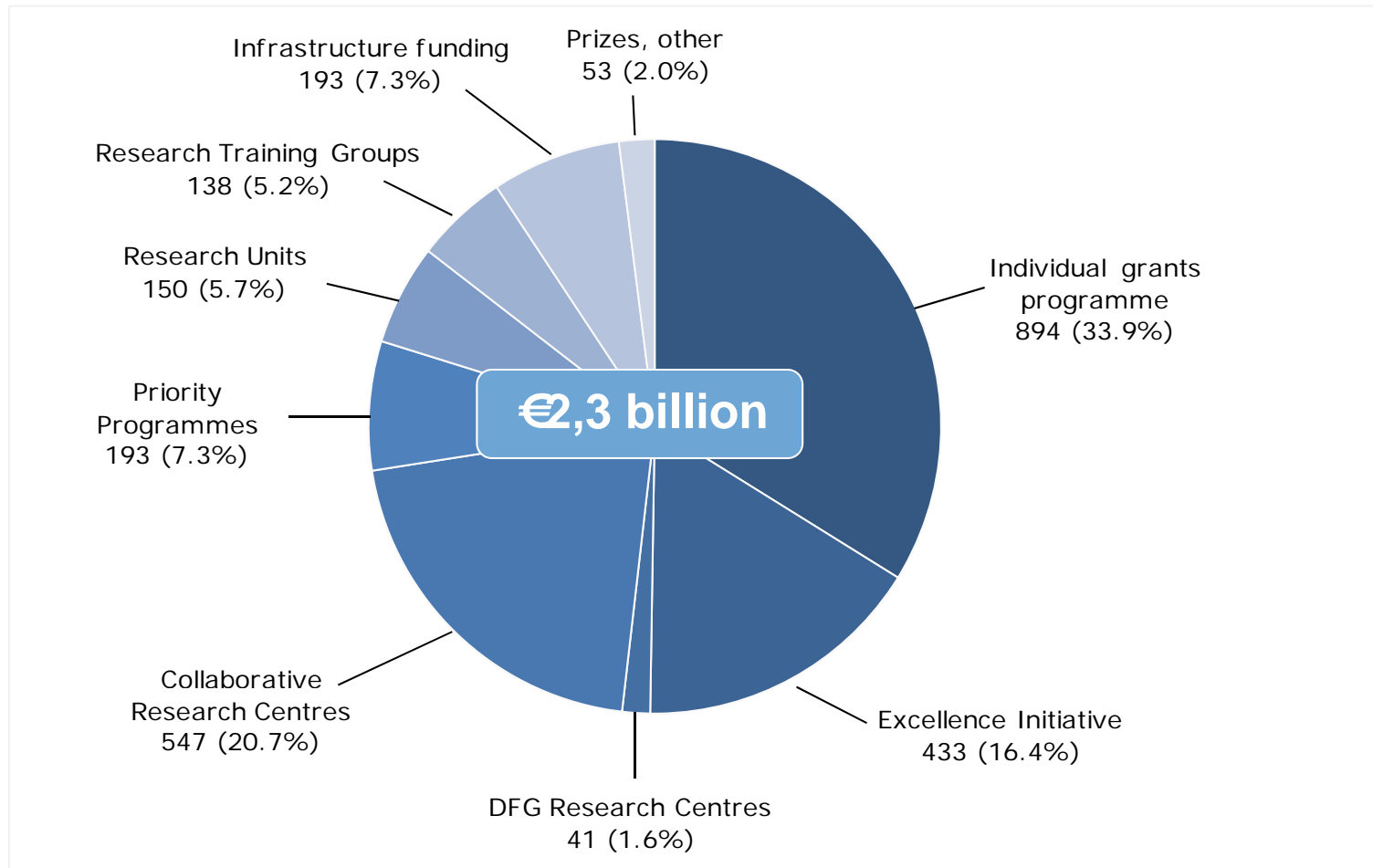
► **More than 20.000 projects funded**

### Funding in 2010, by scientific discipline



# What does the DFG fund?

Amount of research funding\* awarded by program for 2010 (in €m and %)



\* Funding amounts refer to both new and ongoing projects that receive funding in 2010

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# DFG: Investing in Early Career Researchers

1. Why is the DFG promoting early career researchers?
2. DFG's Funding Chain: Programmes for different career stages
3. Research Explorer: Find more than 19.000 German institutions



# Why is the DFG promoting early career researchers?

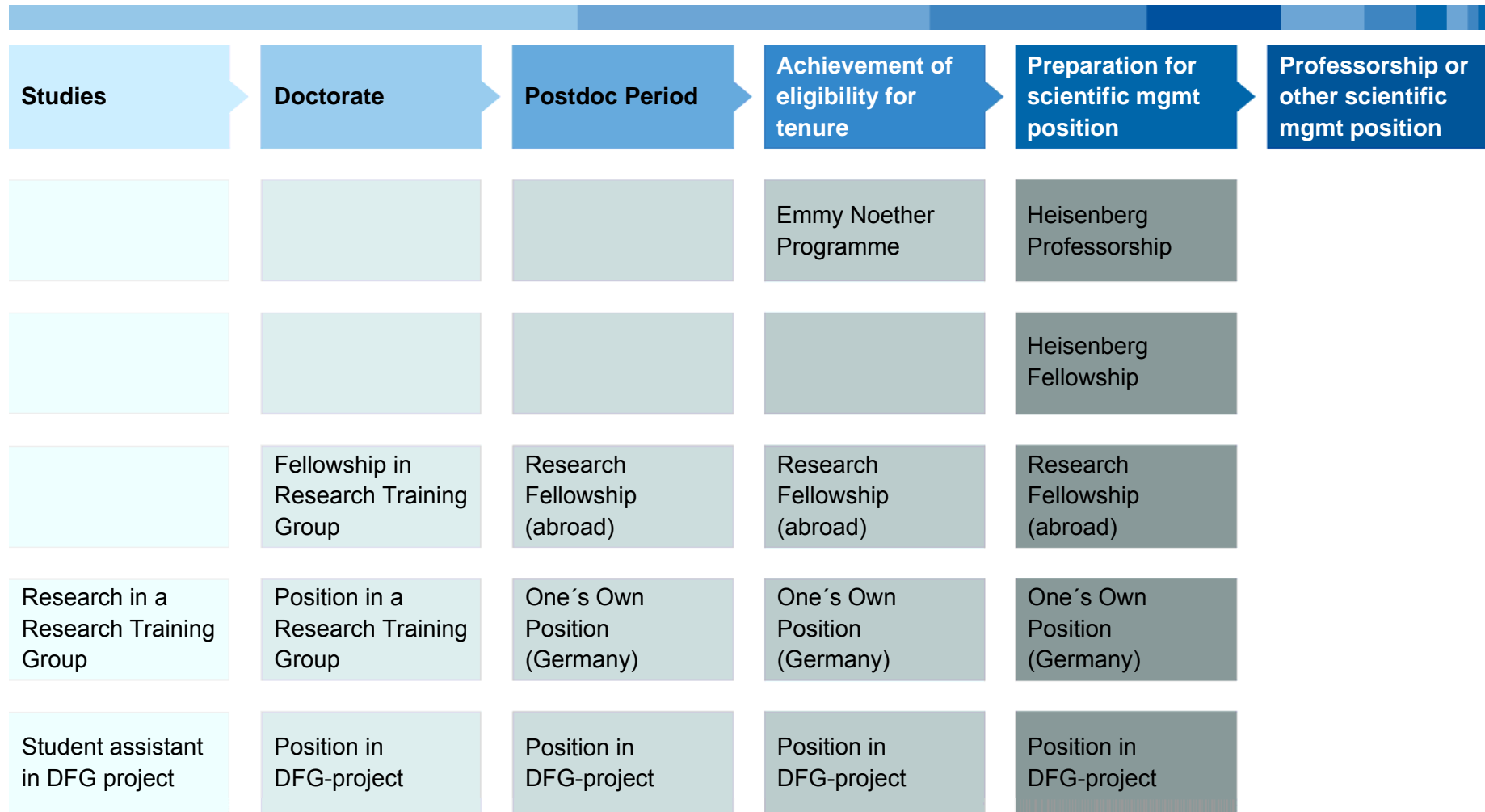
In order to help outstanding scientists and academics

- ▶ optimally develop their research careers
- ▶ gain scientific independence early on
- ▶ Provide first-class research environment
- ▶ ensure the future viability of science in Germany
- ▶ to attract researchers to Germany





# DFG's Funding Chain: Programmes for Different Career Stages



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# DFG: Investing in Early Career Researchers

Research Explorer: Find more than 19.000 German research institutions



[www.research-explorer.dfg.de](http://www.research-explorer.dfg.de)

The research directory of the DFG and of the DAAD in cooperation with the German Rectors' Conference (HRK).

The Research Explorer contains over 19,000 institutes at German universities and non-university research institutions, searchable by geographic location, subject and other structural criteria.



# The International Strategy of DFG

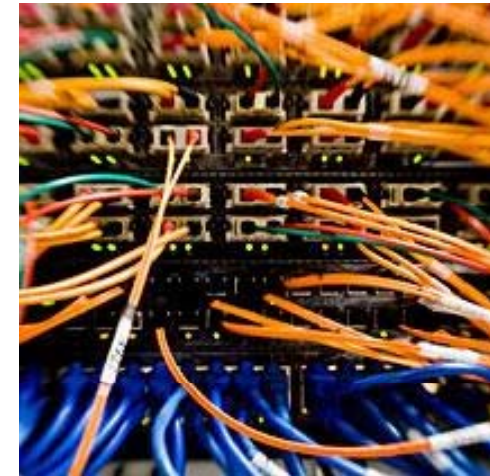
1. Why does the DFG promote international cooperation?
2. Where is the DFG internationally active?
3. How does the DFG support international cooperation?



# Why does the DFG promote international cooperation?

## Because:

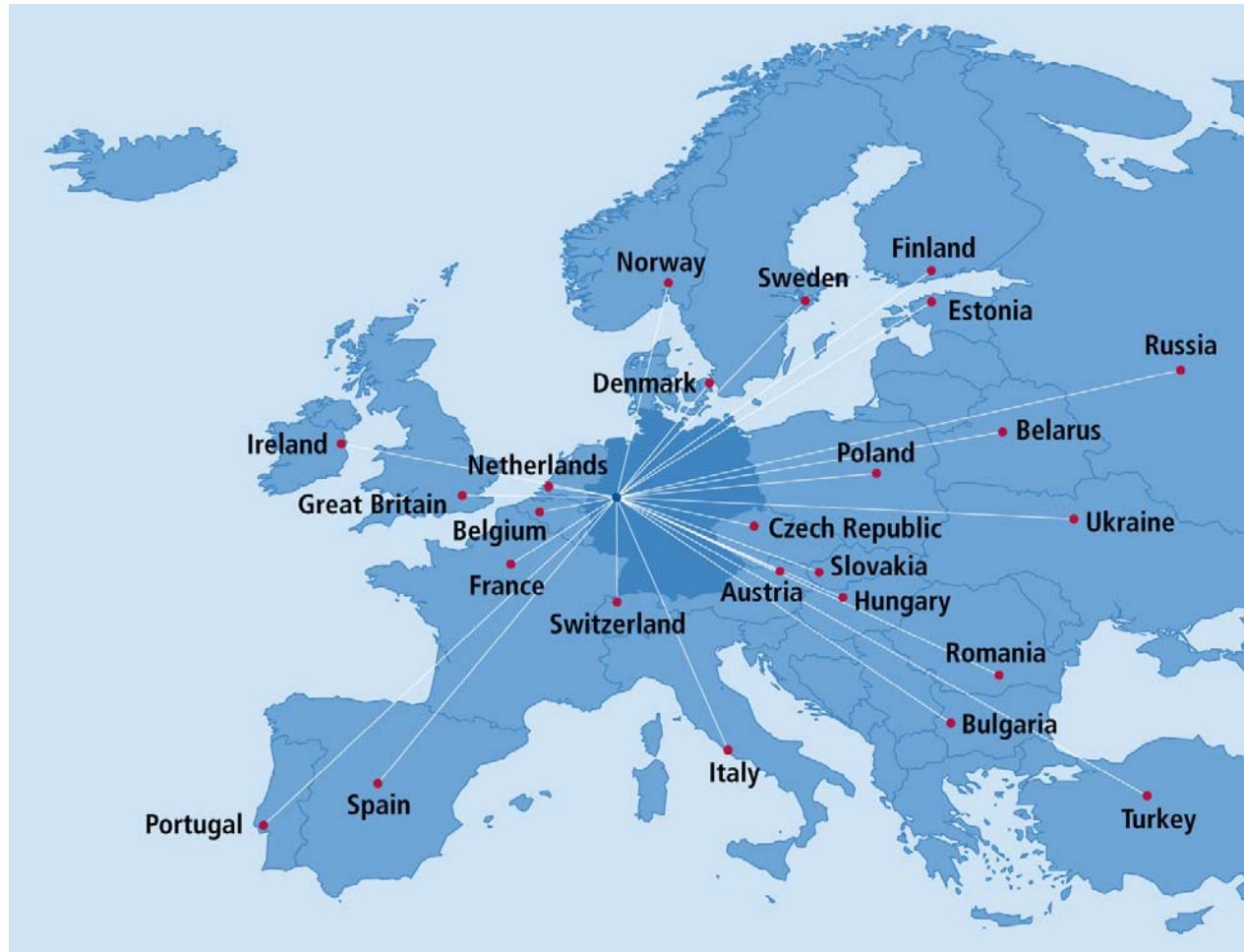
- ▶ research transcends national boundaries
- ▶ certain topics are best researched within the framework of international collaborative projects
- ▶ it is important to establish connections with countries in developing regions



## And in order to:

- ▶ further internationalise the German research landscape
- ▶ facilitate cooperation between the world's top researchers

# Where is the DFG internationally active? Across Europe



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# Where is the DFG internationally active?

All over the world



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# How does the DFG support international cooperation?

## Supporting

- International cooperation and activities of single researchers or groups of researchers

by

- The opening of all DFG programmes for international cooperation
- Programmes with an international focus (International Research Training Groups, etc.)
- Agreements with Partner Organisations (funding for bilateral cooperation; joint calls for proposals with partner organisations)
- International scientific events



# How does the DFG support international cooperation ?

## Through its representative and liaison offices abroad

- ▶ Sino-German Center for Research Promotion in **Beijing** (2000)
- ▶ DFG offices in
  - ▶ **Washington/New York** (2002/2007)
  - ▶ **Moscow** (2003)
  - ▶ **New Delhi** (2006) and
  - ▶ **Tokyo** (15 April 2009)

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At the opening of DFG Office Japan in Tokyo  
15 April 2009

A representative office in **Brazil** is “under construction”.



## What We Do in Japan

- promoting scientific collaboration; initiation of collaborative projects
- building an extensive network of personal and professional links
- contact for scientists, scientific organizations and funding bodies in Japan
- development of a “win-win cooperation philosophy”
- organizing and conducting bilateral symposia
- visibility & information  
(analysis of developments of the Japanese and German Innovation System; serves as information centre)



# How does the DFG support international cooperation?

Through its representative and liaison offices abroad

## DFG's Japanese Partners

### Japan Society for the Promotion of Science (JSPS)

- **Memorandum of Understanding on German-Japanese Graduate Externship – IRTG (2005)**
- Agreement on funding for „**Initiation and Intensification of Bilateral Cooperation** (Preparatory visits, Joint research projects, Joint seminars)



Japan Office,  
Tokyo, April 2009

### Japan Science and Technology Agency (JST)

- Joint funding scheme for the research field of "**Nanoelectronics**„ (2006)
- **Joint application**, to be handed in both to DFG and JST in parallel
- **Memorandum of Understanding on Joint Research Program (15th April 2009)**, jointly funding of **Japanese-German Research Groups**

# How does the DFG support international cooperation? Through International Research Training Groups

These provide a joint framework for

- ▶ international promotion of young researchers at centres of scientific excellence
- ▶ coordinated research and qualification programmes
- ▶ Mentoring

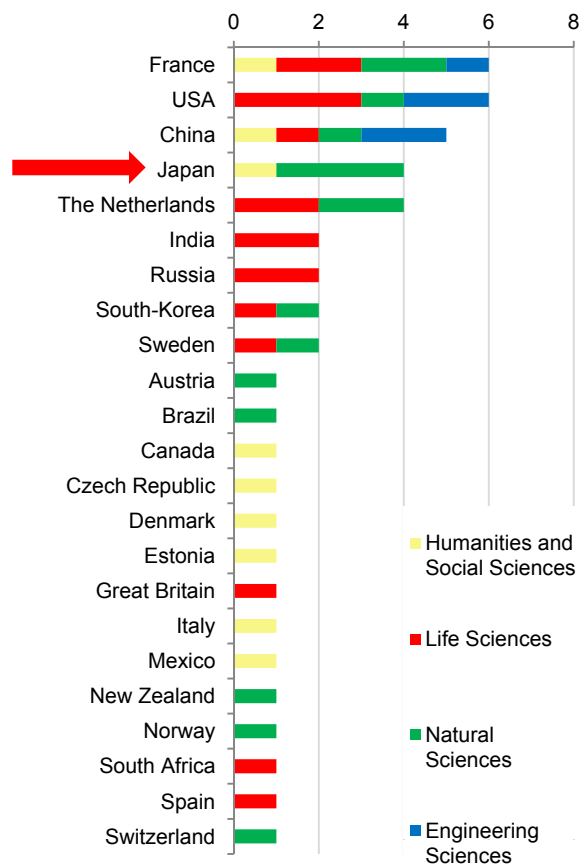


The proposal is submitted *jointly* to the DFG or a foreign partner organisation by a group of researchers at a German university and a partner group at a foreign university.

# International Research Training Groups

## PhD Training and Scientific Cooperation Worldwide

### Number of IRTG by partner country (May 2012)



- 58 (out of 240 RTG)
- 21 different countries:
  - 15 European countries
  - 6 non-European countries



At the DFG-JSPS IRTG-JGGE Workshop, 25 April 2012

- Münster-Nagoya University: “Complex Functional Systems in Chemistry”
- Halle-Tokyo University: „Transformations of Civic Society. Japan and Germany in Comparative Perspective“
- Darmstadt-Waseda University: “Mathematical Fluid Dynamics
- Aachen-Osaka University „Selectivity in Chemo- and Biocatalysis“

# How does the DFG support international cooperation?

## Through initial funding for bilateral cooperation

This programme

- ▶ enables initial contacts and enhances cooperation with foreign partners
- ▶ offers a flexible framework for cooperation, allowing different elements to be combined (preparatory and cooperative visits, bilateral events such as workshops, etc.)



Different elements within the above framework can be funded over a period of one year. The programme is based on the principle of matching funds provided by the DFG and the Foreign partner.

# How does the DFG support international cooperation?

Example for German-Japanese Cooperation: Joint Funding Scheme for “Nanoelectronics”

## The Start

- Joint Conference between JST and DFG in 2006

## Funding

- Joint Call for Proposals in 2007 - 24 proposals for **bilateral projects**
- Two following Calls for Proposals in 2008 and 2009
- Joint Call for Proposals for **Japanese-German Research Groups** (June 2009)
- Joint Evaluation Procedures

## The Benefit

- Intensification of International Cooperation
- Connecting Basic and Applied Research
- Establishing Personal Contacts
- Exchange of People and Knowledge
- Benefit for Young Researchers



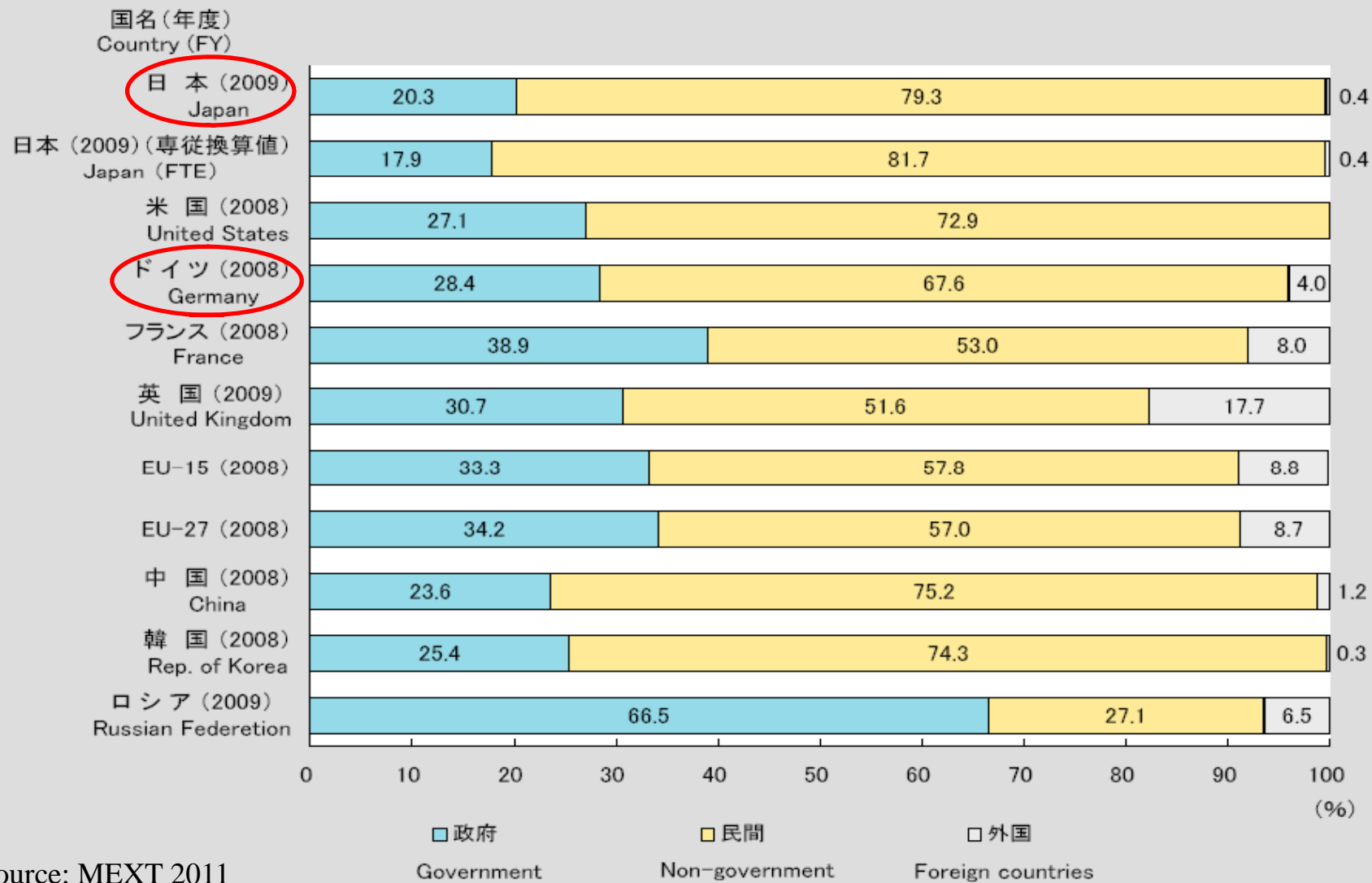


# Thank you for your attention

## Further Information

- ▶ On the DFG: [www.dfg.de](http://www.dfg.de)
- ▶ DFG Office Japan: [www.dfg.de/japan](http://www.dfg.de/japan); Japanese Homepage: [www.japan.dfg.de](http://www.japan.dfg.de)
- ▶ On all funded projects: [www.dfg.de/gepris/](http://www.dfg.de/gepris/)
- ▶ Contact DFG Office Japan: [japan@dfg.de](mailto:japan@dfg.de) or [iris.wieczorek@dfg.de](mailto:iris.wieczorek@dfg.de)

# 主要国等の研究費の負担



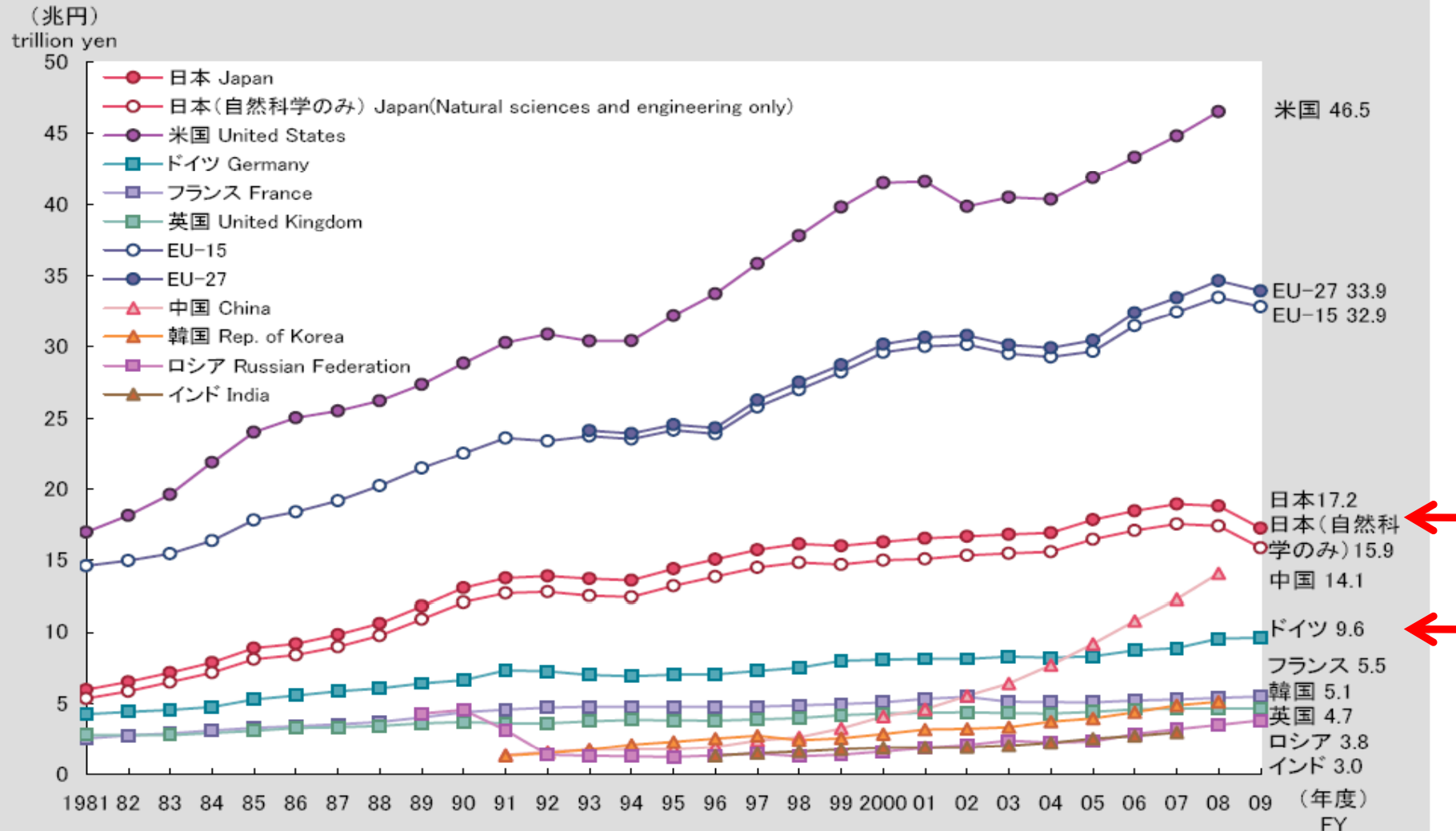
Source: MEXT 2011



# 研究費総額 Total R&D expenditures

## 主要国等の研究費の推移

### 主要国等の研究費の推移 (OECD 購買力平価換算)



Source: MEXT 2011