

# The German Research Foundation (DFG) within the German System of Research and Innovation

**Greetings to all of you in Tehran  
and beyond!**

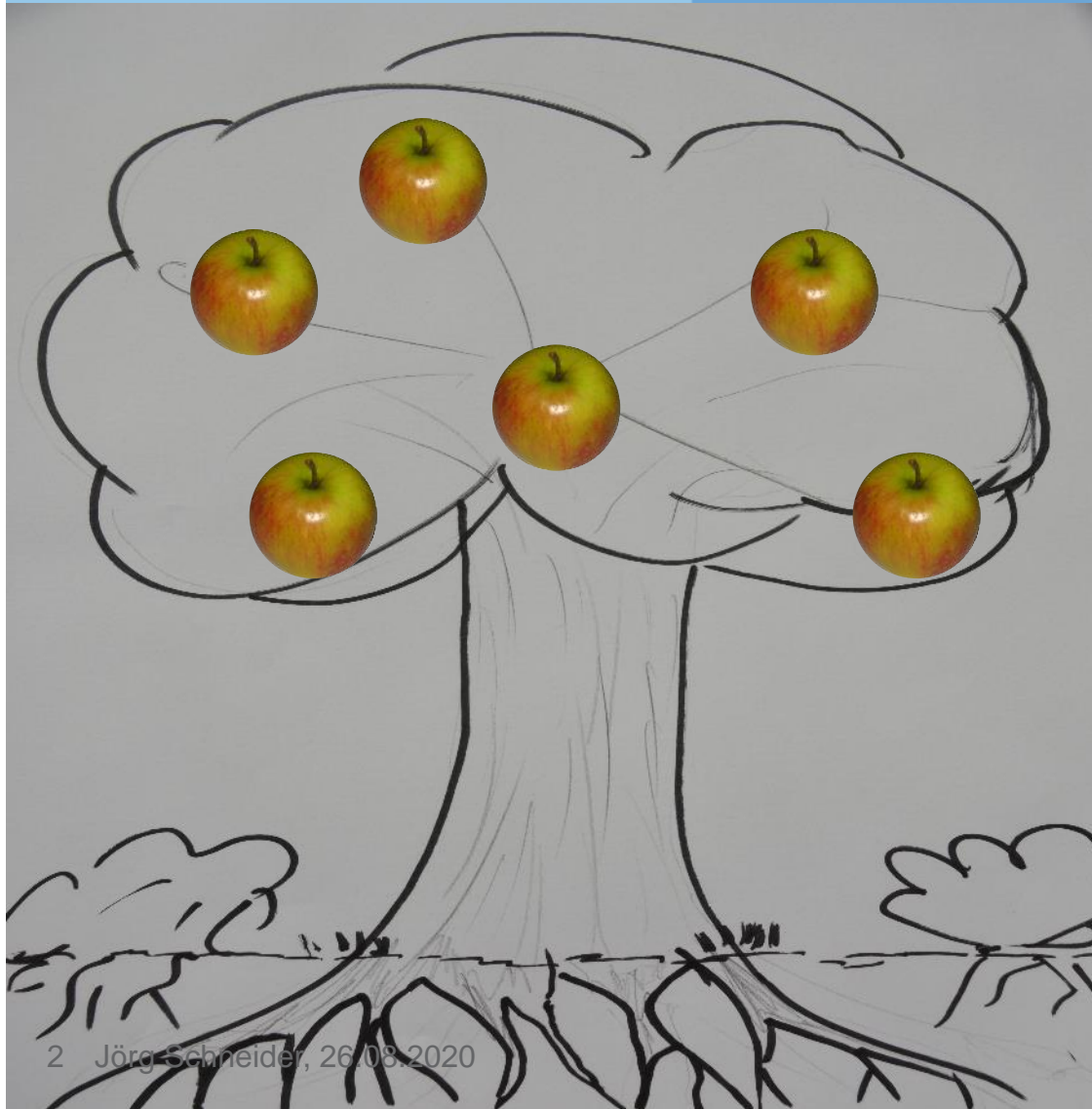
**Dr. Jörg Schneider  
Deutsche Forschungsgemeinschaft  
(German Research Foundation)**



# The German Innovation System – a healthy tree ...



Kashan



R&D products for  
Society, Economy,  
Health, Environment...

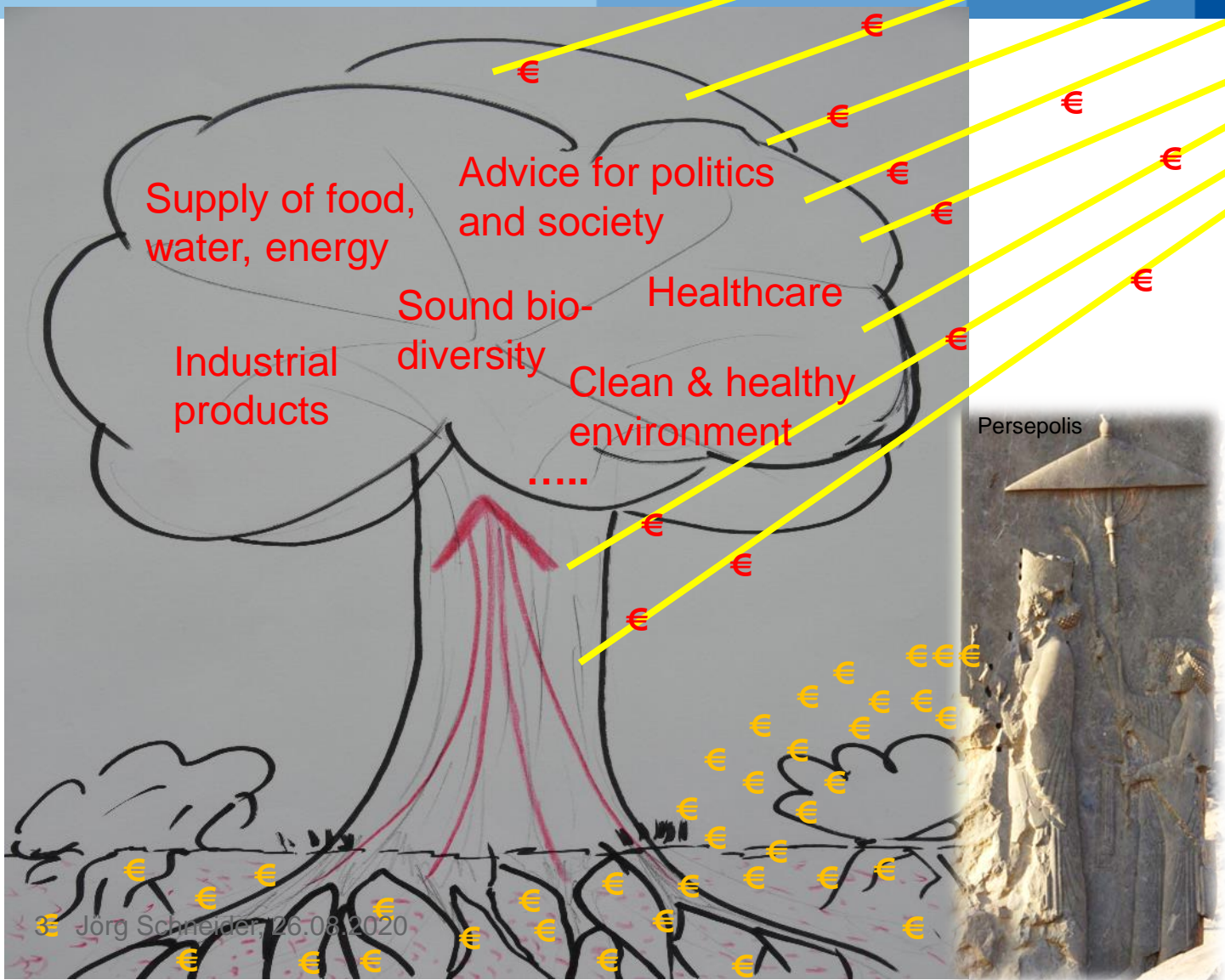
...fed by  
pre-competitive  
applied research,  
problem-driven...

... and growing on  
basic research,  
science-driven



... if provided for adequately!

Top down funding, problem-oriented



Bottom up funding, quality-oriented, but no thematic programmatic!

# The complex German Research Ecosystem

(funding by public sector = 32% of all)

Top down funding, problem-oriented

Institutional funding by federal and regional Governments

www | ressort  
forschung | de

Supply of food, Water, energy  
Advice for politics and society

Healthcare  
Sound bio-diversity  
Clean & healthy environment

Industrial products



Universities



The Federal Government & Federal States  
≈ 30bil.€

No political interference!

≈ 13%



Bottom up funding, quality-oriented, no thematic programmatic!

≈ 3,9 bil.€



# Why is the German system so complicated?

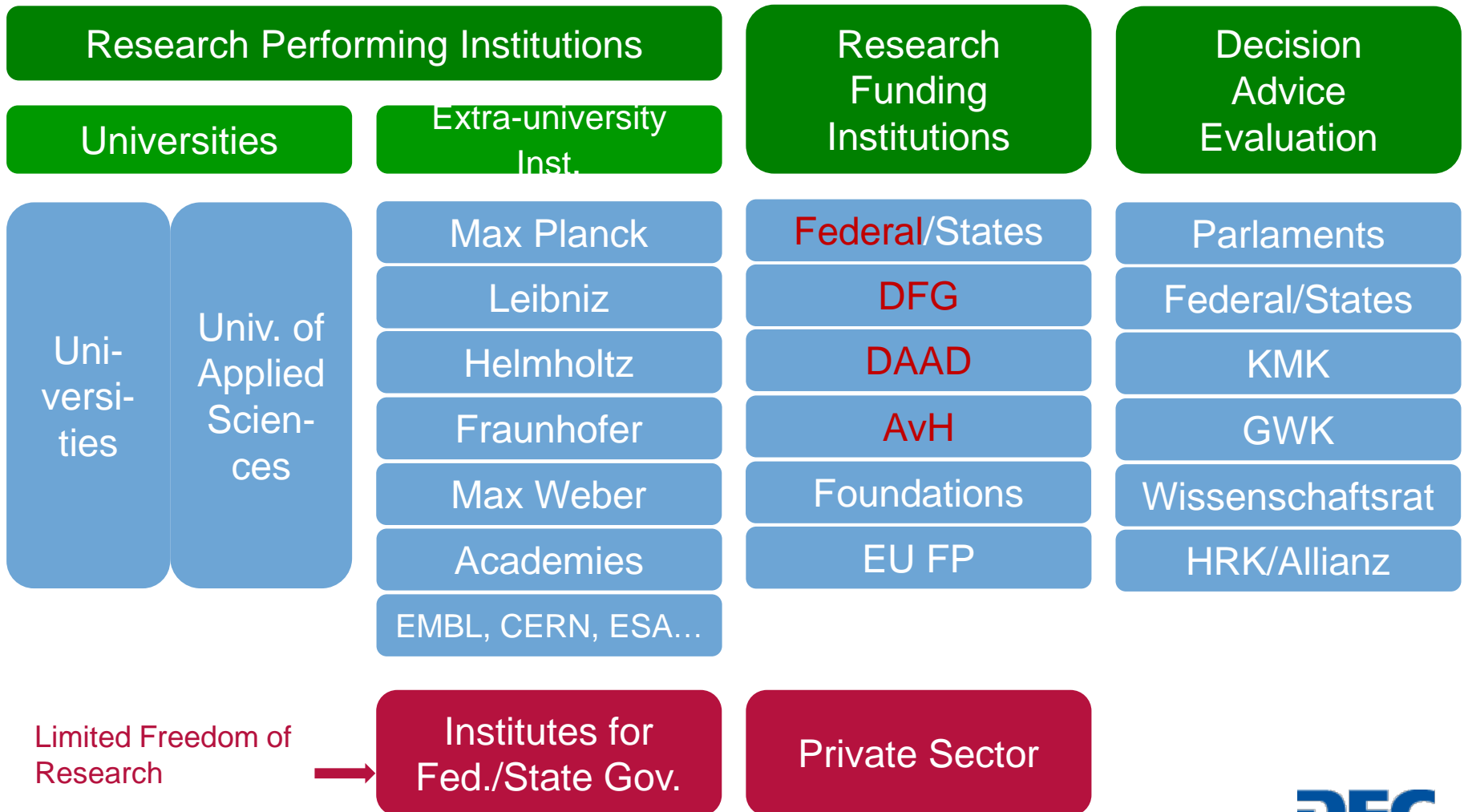
1. Deutsches **Grundgesetz** (German Constitution) in Article 5 (**Basic Human Rights**): ***The arts and sciences, research and education are free.*** Thus, the Governments have to provide free money!
2. On the other hand, the Governments have to ensure problem-oriented research (competitiveness of economy, well-being of citizens and nature).
3. Finally: according to the Grundgesetz and the principle of subsidiarity the responsibility for science and education (and for the universities) lies with the Länder (federal states), not the Federal Government (recently: gradual changes).



Berlin

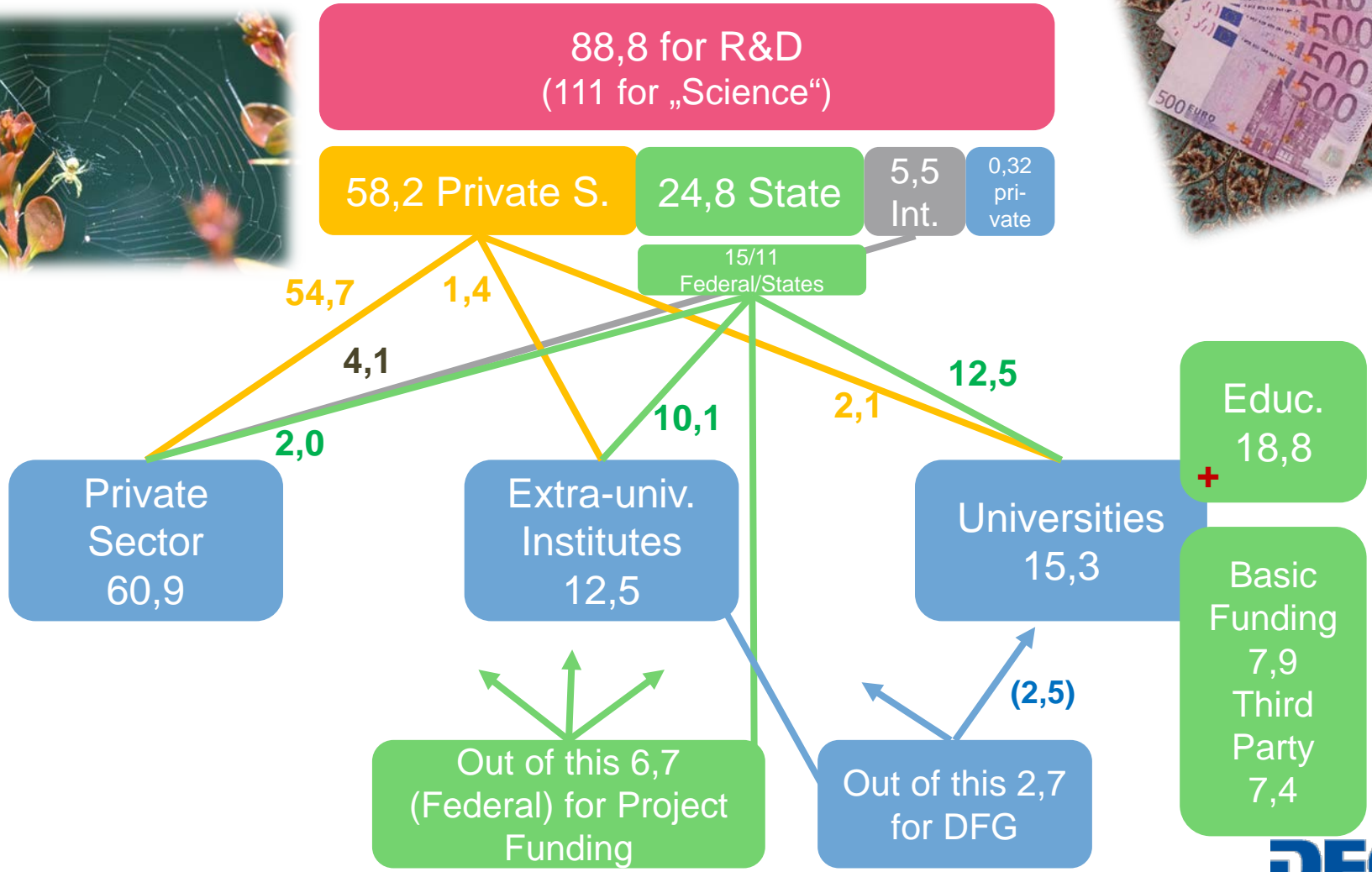
# The German System of Research and Innovation

## Some important players...

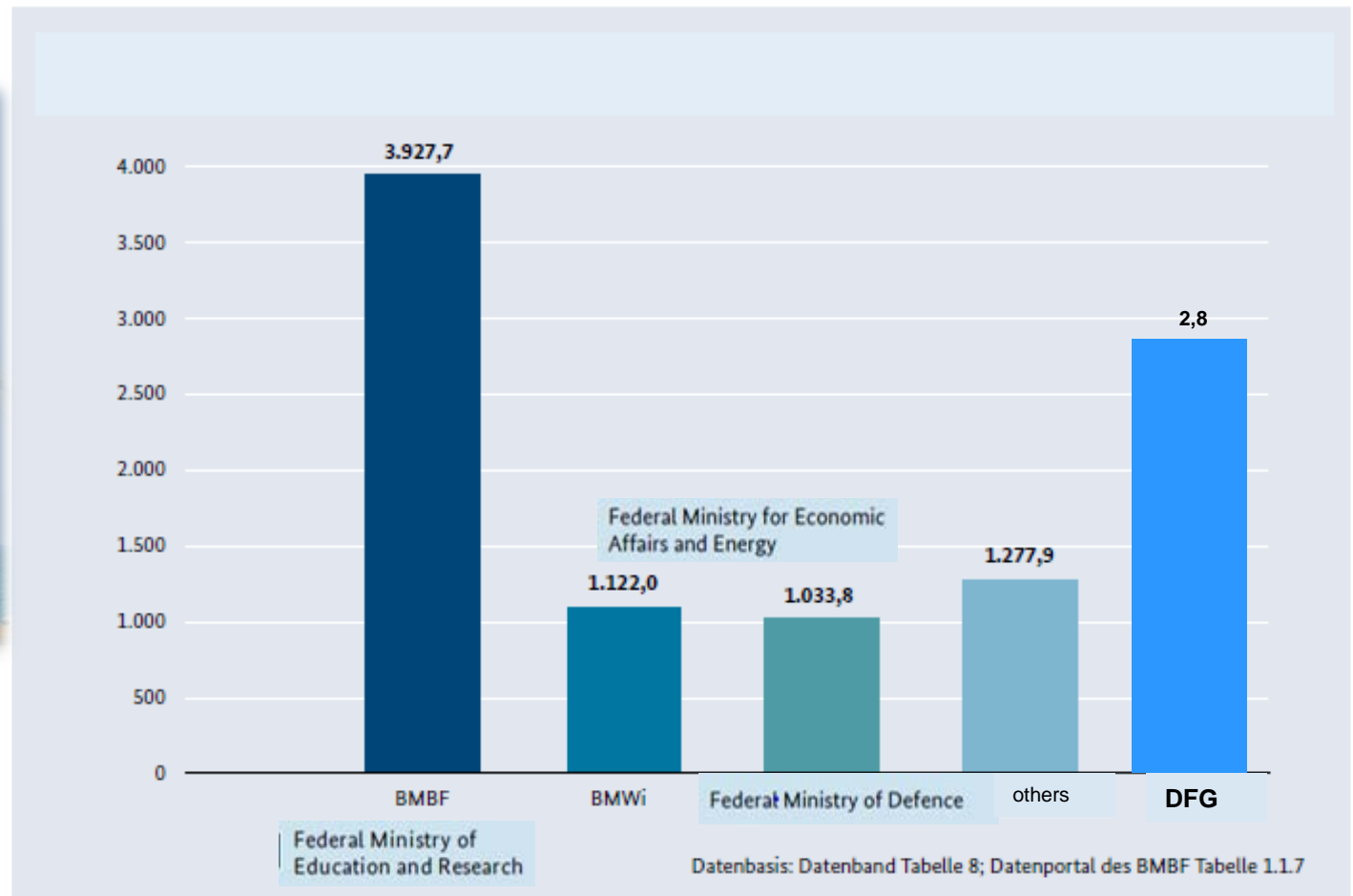


# R&D Expenditure in Germany 2015

(Compiled from BMBF R&D Report 2018) in billion €



# Project Funding by Federal Government and DFG in 2017 (in Mio. €)





Tab 5 4/6 Expenditure by the government for science, research and development by funding area and funding priorities<sup>1</sup>

Funding area Funding priority		Millions of €			
		Target		Government bill	
		2013 <sup>2,3</sup>		2014 <sup>2,3,4</sup>	
		Total	Of which R&D	Total	Of which R&D
<b>A</b>	<b>Health research and health economy</b>	<b>2 116.4</b>	<b>1 928.1</b>	<b>2 176.1</b>	<b>1 984.9</b>
AA	Health research and health economy	2 096.9	1 909.3	2 154.3	1 963.8
AB	Radiation protection	19.5	18.8	21.8	21.1
<b>B</b>	<b>Bio-economy</b>	<b>277.6</b>	<b>277.6</b>	<b>281.2</b>	<b>281.1</b>
<b>C</b>	<b>Civilian safety research</b>	<b>104.5</b>	<b>100.5</b>	<b>102.8</b>	<b>98.4</b>
<b>D</b>	<b>Nutrition, agriculture and consumer protection</b>	<b>762.0</b>	<b>662.9</b>	<b>792.5</b>	<b>682.6</b>
DA	Nutrition	30.5	21.0	31.4	21.7
DB	Sustainable agriculture and rural areas	486.8	456.7	497.1	465.0
DC	Health-related and commercial consumer protection	244.7	185.2	264.1	195.9
<b>E</b>	<b>Energy research and energy technologies</b>	<b>1 562.1</b>	<b>1 230.0</b>	<b>1 566.5</b>	<b>1 239.1</b>
EA	Rational energy conversion	538.2	538.0	531.5	531.2
EB	Renewable energies	410.8	409.2	417.6	415.9
EC	Nuclear safety and disposal	278.5	124.7	276.0	127.3
ED	Disposal of nuclear plants	191.5	15.0	192.0	15.2
EF	Fusion research	143.1	143.0	149.4	149.4
<b>F</b>	<b>Climate, environment, sustainability</b>	<b>1 381.8</b>	<b>1 191.7</b>	<b>1 416.1</b>	<b>1 220.0</b>
FA	Climate, climate protection; global change	280.1	279.9	288.4	286.8
FB	Coast, marine and polar research, geosciences	449.9	402.7	462.8	415.5
FC	Environment and sustainability research	343.8	259.9	354.5	267.8
FD	Ecology, nature conservation and sustainable use	308.0	249.2	310.5	249.9
<b>G</b>	<b>Information and communication technologies</b>	<b>852.7</b>	<b>821.9</b>	<b>796.9</b>	<b>771.5</b>
GA	Software systems; science technologies	224.1	224.0	219.7	219.6
GB	Communication technologies and services	101.6	101.4	101.6	101.4
GC	Electronics and electronic systems	307.9	307.5	259.0	258.6
GD	Micro systems engineering	118.8	118.7	123.6	123.5
GE	Multimedia – development of convergent ICT	100.3	70.4	93.0	68.4

Some examples for federal research priorities

Source: Federal Report on Research and Innovation 2014, BMBF



Tehran



# Project Management Teams of the Government

## Why „always“ DLR???

- ▶ organize and carry out the research funding programs, mainly of BMBF
- ▶ Tasks
  - **Advice** for (potential) applicants and funded researchers
  - **Administration** of project funding and funded projects
- ▶ Attached to Helmholtz Centres or other appropriate organizations e.g.
  - Arbeitsgem. industrieller Forschungsvereinigungen "Otto v. Guericke" e.V. (AiF)
  - Deutsches Elektronen-Synchrotron DESY
  - **Deutsches Zentrum für Luft- und Raumfahrt e.V. (DLR)**  
**with International Bureau (IB)**
  - Forschungszentrum Jülich (FZJ)
  - Gesellschaft für Schwerionenforschung (GSI)
- ▶ BMBF could not do without them!



Non-Governmental *bottom up*-Funding

DFG:  
Projects



AvH:  
People

DAAD:  
Mobility



# Goals and tasks of the DAAD

## Three strategic areas of activity

The DAAD has helped  
1,175,000 Germans travel  
the world since 1950.

The DAAD has introduced 860,000  
foreigners to Germany since 1950.



Meybod

### Grant scholarships to the best

- so that the professionals and leaders of tomorrow can gain qualifications at the best locations, prepare for positions of responsibility and cultivate contacts throughout the world.

### SCHOLARSHIPS FOR THE BEST

### STRUCTURES FOR INTERNATIONALISATION

2019: 560 Mio. €

#### Create structures that promote internationalisation

- so that higher education institutions can improve the quality of research and instruction and address the challenges of the future with strong partners.
- so that more people can cross borders and achieve success in study and research.
- so that German remains an important language of culture and scholarship.
- so that higher education institutions may contribute to development and build bridges to surmount conflicts.

### EXPERTISE FOR ACADEMIC COLLABORATION

#### Offer expertise for academic collaboration

- so that academic and political leaders are able to make well-informed policy decisions.

DAAD

Deutscher Akademischer Austauschdienst  
German Academic Exchange Service

### تحصیل و پژوهش در آلمان

بیشتر »



iStockphoto



Map data ©2020

### اطلاع رسانی

به اطلاع می‌رسانیم با توجه به شرایط موجود و هشدارهای اعلام شده توسط وزارت بهداشت، درمان و آموزش پزشکی و ضرورت رعایت نکات بهداشتی، دفتر موسسه تبادلات آکادمیک آلمان (داآد) در تهران تا اطلاع ثانوی تعطیل می‌باشد. در این مدت تنها راه ارتباطی با این دفتر از طریق ایمیل خواهد بود. با آرزوی سلامتی

### اطلاع رسانی

### همکاری با دانشگاه‌ها

برنامه‌های آکادمیک بین آلمان، ایران و سایر کشورهای طرف همکاری داآد خواستار ایجاد ساختارهای باز جهانی است تا از این طریق دانشگاه‌ها بتوانند با یکدیگر همکاری و تبادل داشته باشند و اینگونه کیفیت آموزش و پژوهش ارتقاء یافته تا بتوان با چالش‌های پیش رو





# The Humboldt Foundation's areas of work

---

- sponsorship of international academics as a part of foreign cultural and educational policy
- strengthening cutting-edge research through internationalisation
- impetus for the research location Germany by promoting individuals
- advancing development through academic cooperation

## Principles of the Foundation

- sole selection criterion: academic excellence
- no quotas for countries or disciplines
- sponsorship of people, not projects
- free choice of academic host/collaborative partner in Germany
- independent scientific research, not stipulated by the Foundation

## President of Humboldt Alumni Club of Iran

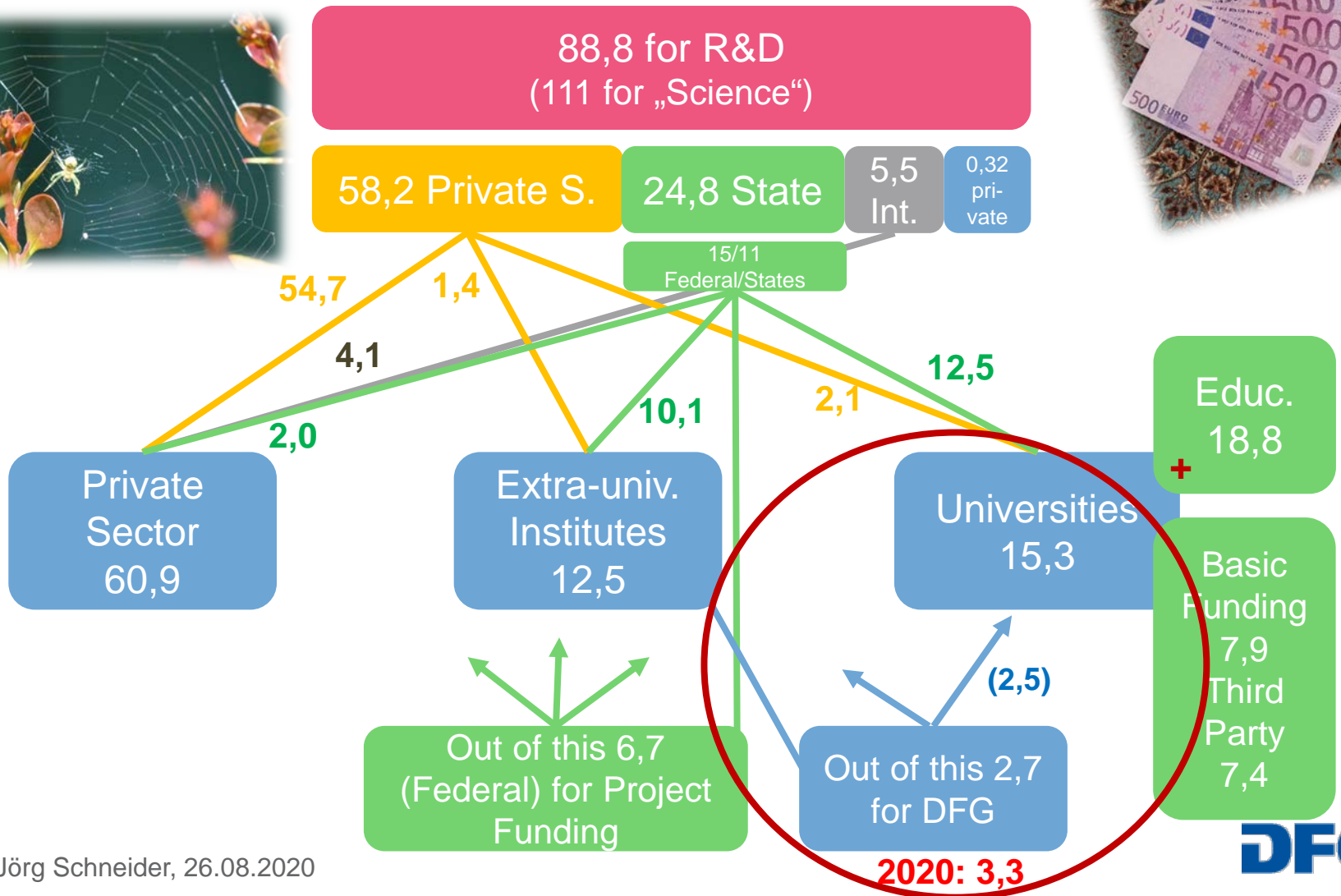


Esfahan

Saeed Balalaie  
Professor of Organic Chemistry  
Peptide Chemistry Research Center  
K. N.Toosi University of Technology  
P.O.Box 15875-4416, Tehran, Iran  
balalaie@yahoo.com  
balalaie@kntu.ac.ir

# R&D Expenditure in Germany 2015

(Compiled from BMBF R&D Report 2018) in billion €





Please contact us on any specific questions  
on Iranian-German cooperation!

DFG

Thank  
you for  
your  
attention!

[joerg.schneider@dfg.de](mailto:joerg.schneider@dfg.de)

Tel.: +49 228 885 2346

[dorothea.fendel@dfg.de](mailto:dorothea.fendel@dfg.de)

Tel.: +49 228 885 2226



Kashan



DFG