

# Max-Planck-Gesellschaft



MAX-PLANCK-GESELLSCHAFT



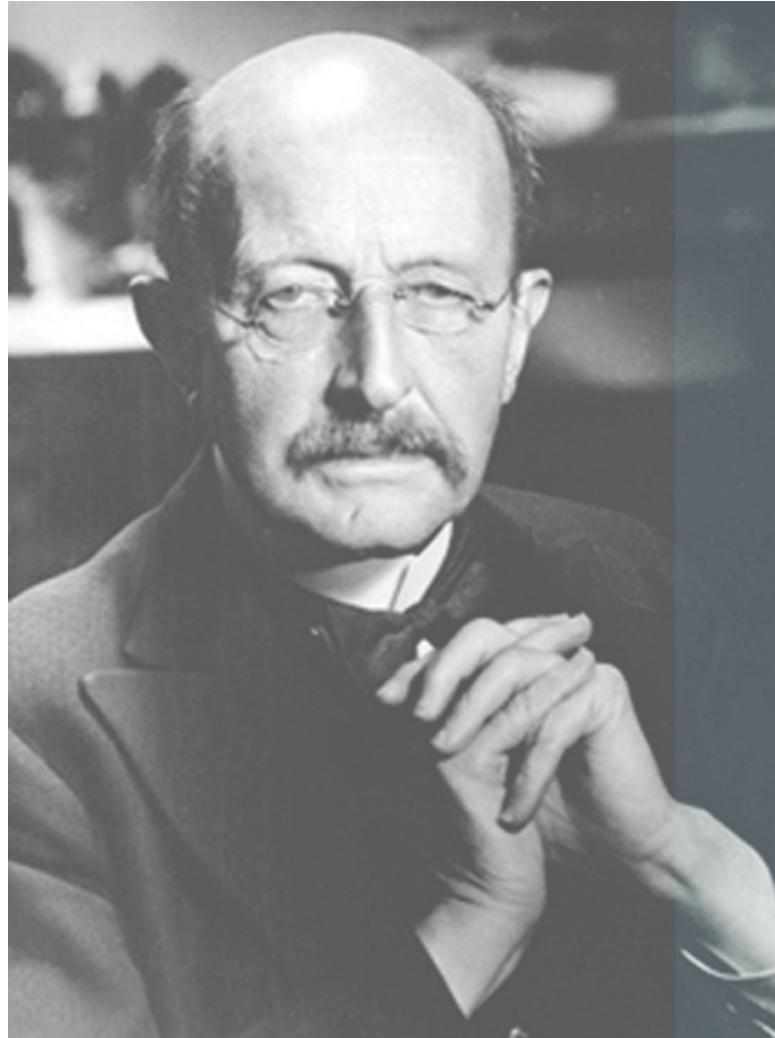
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# Max-Planck-Gesellschaft



MAX-PLANCK-GESELLSCHAFT

Max-Planck-Gesellschaft zur Förderung der Wissenschaften e.V.  
- an independent research organisation

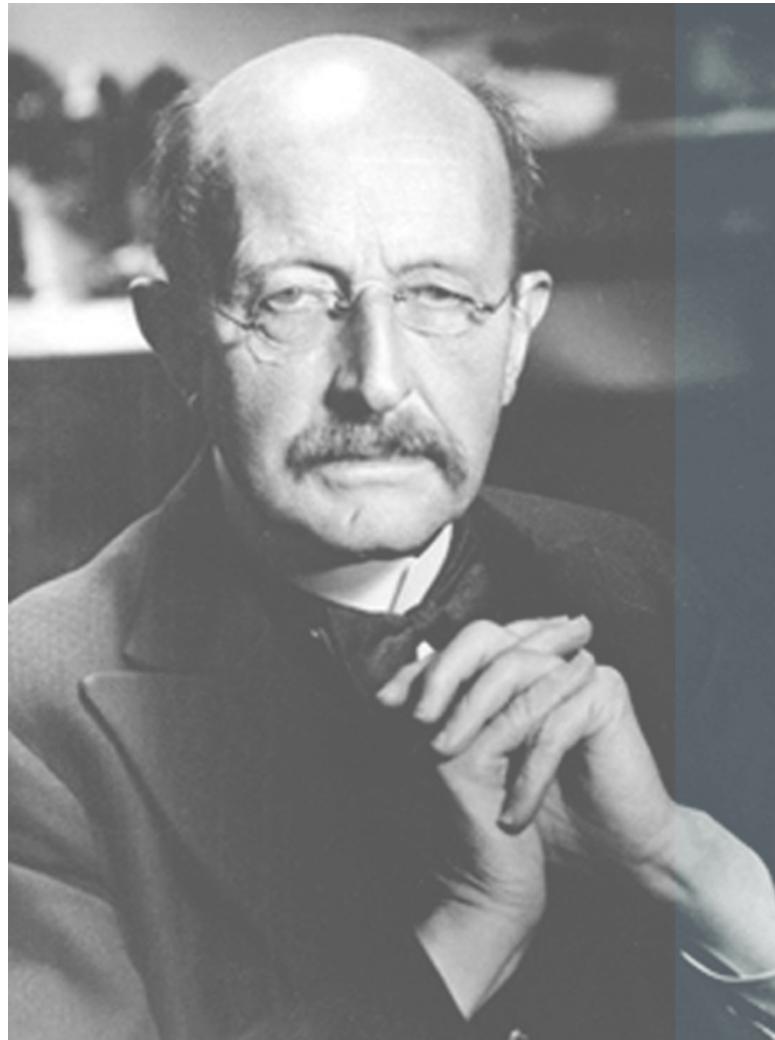


*„Insight must  
precede Application.“*

Max Planck, 1858 -1947

Founder of the Quantum Theory  
Nobel Prize 1918

# Mission and Guiding Principles



- Basic Research at cutting-edge, strictly curiosity-driven and quality oriented
- Autonomy, where scientists decide upon science
- „Harnack Principle“:  
People not programs
- Flexible, dynamic,  
interdisciplinary MPIs
- Long-term trust systems with significant core funding for high-risk projects
- Quality assurance by peers

# 17 Nobel Prize Laureates



2007 - Nobel Prize for Chemistry  
Gerhard Ertl

2005 - Nobel Prize in Physics  
Theodor Hänsch

1995 - Nobel Prize in Medicine  
Christiane Nüsslein-Volhard

1995 - Nobel Prize for Chemistry  
Paul Crutzen J.

1991 - Nobel Prize in Medicine  
Erwin Neher

1991 - Nobel Prize in Medicine  
Bert Sakmann

1988 - Nobel Prize for Chemistry  
Robert Huber

1988 - Nobel Prize for Chemistry  
Hartmut Michel

1988 - Nobel Prize for Chemistry  
Johann Deisenhofer



NOBEL LAUREATES



1986 - Nobel Prize in Physics  
Ernst Ruska

1985 - Nobel Prize in Physics  
Klaus von Klitzing

1984 - Nobel Prize in Medicine  
Georges Köhler

1973 - Nobel Prize in Medicine  
Konrad Lorenz

1967 - Nobel Prize for Chemistry  
Manfred Eigen

1964 - Nobel Prize in Medicine  
Feodor Lynen

1963 - Nobel Prize for Chemistry  
Karl Ziegler

1954 - Nobel Prize in Physics  
Walter Bothe

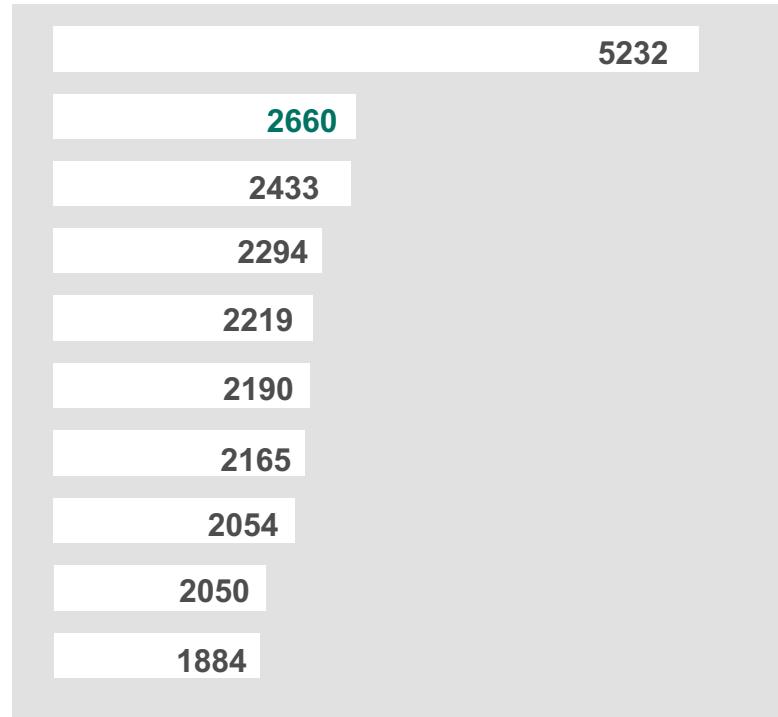
# Citation Ranking



Max Planck researchers are among the most cited worldwide:

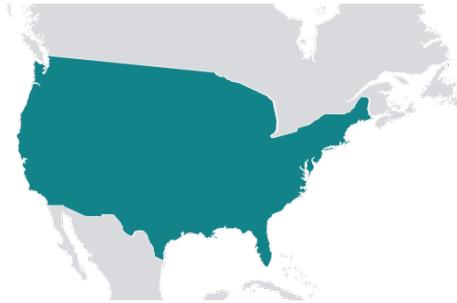
- Number of „highly cited papers“ (top 1%)
- January 2003 – February 2013

1. Harvard University
2. Max-Planck-Gesellschaft
3. Stanford University
4. University of California, Berkeley
5. University of Washington
6. Chinese Academy of Sciences
7. MIT
8. University of California, Los Angeles
9. John Hopkins University
10. University of Oxford



Thomson Reuters Web of Knowledge – Essential Science Indicators (05/2013)

# Sites of Max Planck Research Institutes and Associated Institutes



## MAX PLANCK INSTITUTES ABROAD

### ITALY

Bibliotheca Hertziana, Rome  
Art History Institute, Florence

### THE NETHERLANDS

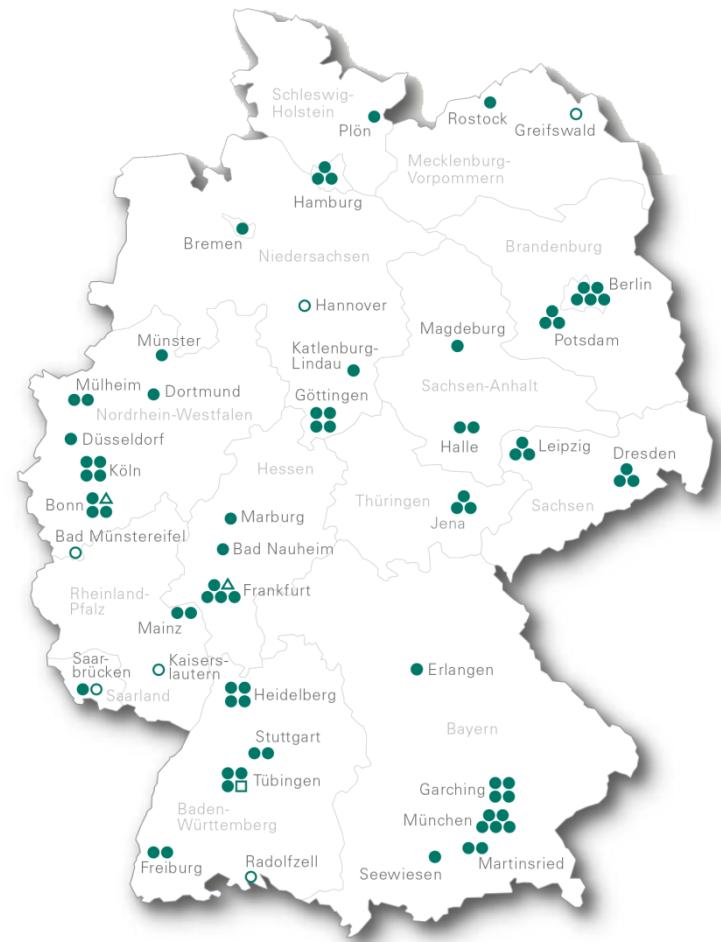
Max Planck Institute for Psycholinguistics, Nijmegen

### USA, FLORIDA

Max Planck Florida, Jupiter

### LUXEMBOURG

Max Planck Institute Luxembourg for International,  
European and Regulatory Procedural Law,  
Luxembourg



# Research knows no boundaries – Internationality of the Max-Planck-Gesellschaft



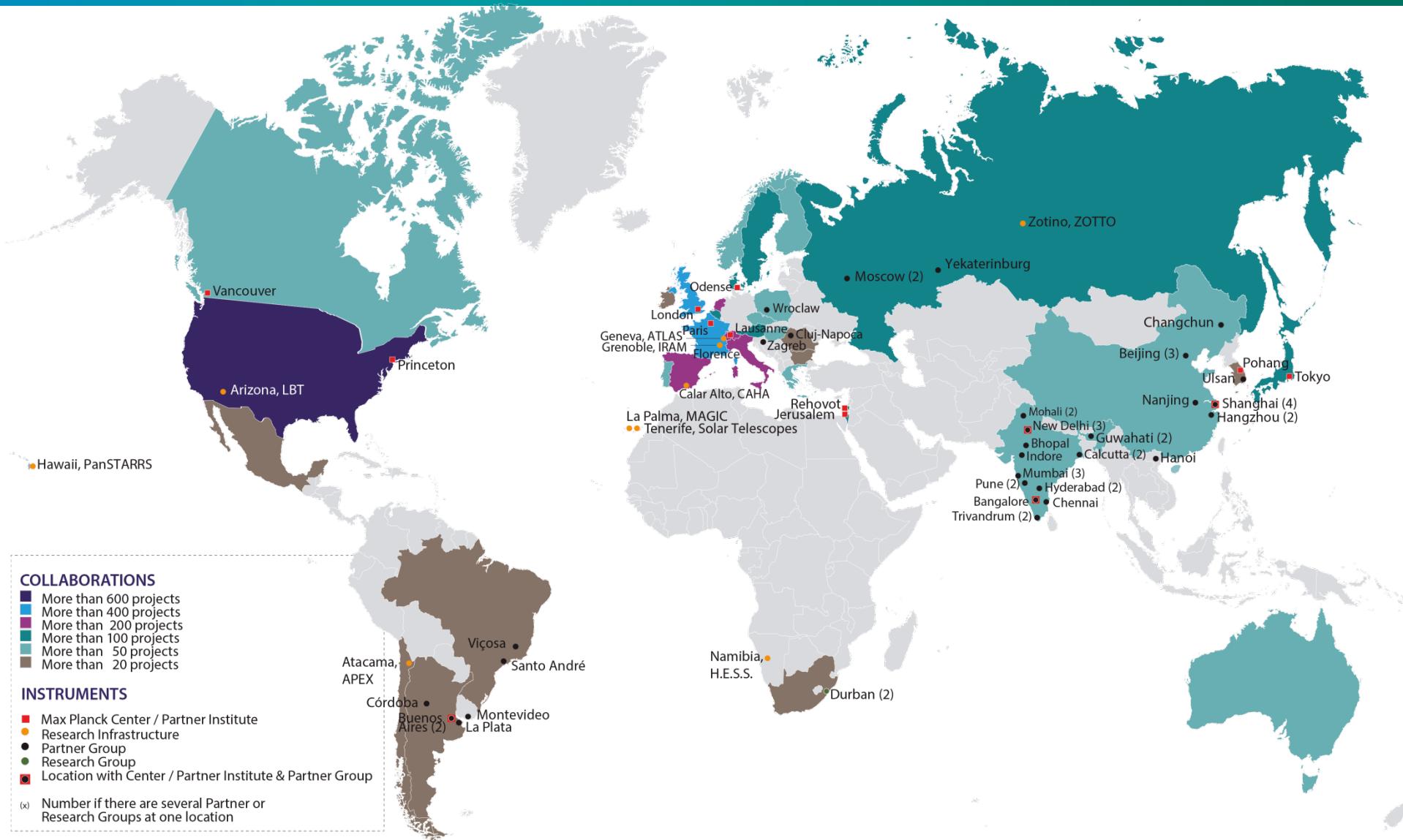
## INTERNATIONALITY

- Increases the **access** to outstanding research institutions and knowledge holders.
- Increases **attraction** of a research location for elites.
- Creates the prerequisites for **recruitment** of top scientists.
- Increases **opportunities** for junior scientists and researchers.
- Supports the **development** of new research approaches.

**Internationality is a central characteristic of research  
and a key prerequisite for its success.**



# Collaboration, Collaboration Tools and Infrastructure



# International Background of Max Planck Scientific Staff



## Proportion of international scientific staff



### International share of individual groups

Directors <sup>1</sup>		276	100%
▪ From outside Germany		87	31,5%
Postdocs <sup>2</sup>		2,429	100%
▪ From outside Germany		2,162	89%
Guest scientists <sup>2</sup>		1,519	100%
▪ From outside Germany		887	58,4%
PhD students <sup>2</sup>		5,233	100%
▪ From outside Germany		2,539	48,5%

<sup>1</sup> As per 1 January 2013.

<sup>2</sup> Over the whole of 2012.



» **Each Max Planck Institute /  
each director**



...has his/her own budget



...recruits personnel



...procures third-party funds



...selects research topics



...identifies cooperation partners in Germany and abroad



...shapes the research structure (projects / departments)



# Facts & Figures



## STAFF MEMBERS



» 21.405

## SCIENTISTS



In total, the workforce of the Max Planck Society consists of 21,405 employees, including 5,470 scientists as well as 4,487 guest scientists and grantholders.

» 1.527,7 Mio. EUR

## BUDGET



# Human Sciences Section



- CULTURAL STUDIES
- JURISPRUDENCE
- SOCIAL SCIENCES
- COGNITIVE RESEARCH
- LINGUISTICS

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# Biology and Medicine Section



- DEVELOPMENTAL AND EVOLUTIONARY BIOLOGY & GENETICS
- IMMUNOBIOLOGY AND INFECTION BIOLOGY & MEDICINE
- BEHAVIORAL SCIENCES
- MICROBIOLOGY & ECOLOGY
- NEUROSCIENCES
- PLANT RESEARCH
- STRUCTURAL AND CELL BIOLOGY
- PHYSIOLOGY



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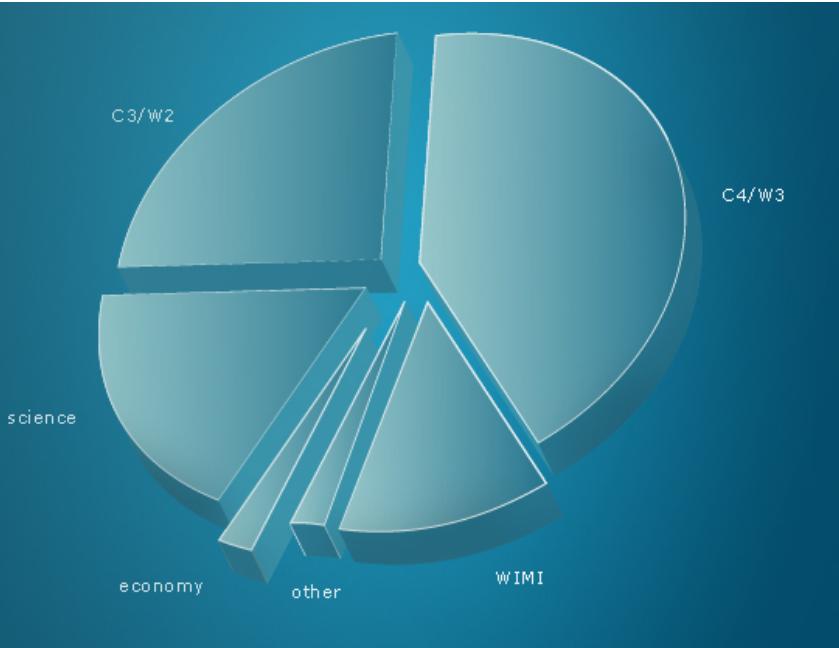


- ASTRONOMY & ASTROPHYSICS
- CHEMISTRY
- SOLID STATE RESEARCH & MATERIAL SCIENCES
- EARTH SCIENCES AND CLIMATE RESEARCH
- PARTICLE, PLASMA AND QUANTUM PHYSICS
- COMPLEX SYSTEMS
- COMPUTER SCIENCE
- MATHEMATICS

© MPI for Radio Astronomy



## MAX PLANCK RESEARCH GROUPS



Career “launching pad”: Until now more than two-thirds of all Max Planck Research Group Leaders became a professor (W3/W2) at a university or research institution in Germany or abroad.

Max Planck Research Groups offer junior scientists who hold a doctoral degree an excellent opportunity to qualify for a further career at a high level. Group Leaders are appointed by the President and – similar to directors at Max Planck Institutes – enjoy an independent status within the Institute.

- Today there are 125 Max Planck Research Groups.
- The Max Planck Research Group Leaders are from all over the world, a significant number of them comes from the Top 20 universities in the Shanghai Ranking.

(As per 01/2013)

# Attracting International Young Academics



INTERNATIONAL  
MAX PLANCK RESEARCH SCHOOLS



- 63 IMPRS with around 2,820 PhD students
- Structural PhD student training in cooperation with universities
- 73 Max Planck Institutes involved
- 34 universities in Germany involved
- More than 55% of PhD students are from outside Germany

(As per 01/2013)

© Franz Luthe

# Attracting International Young Academics



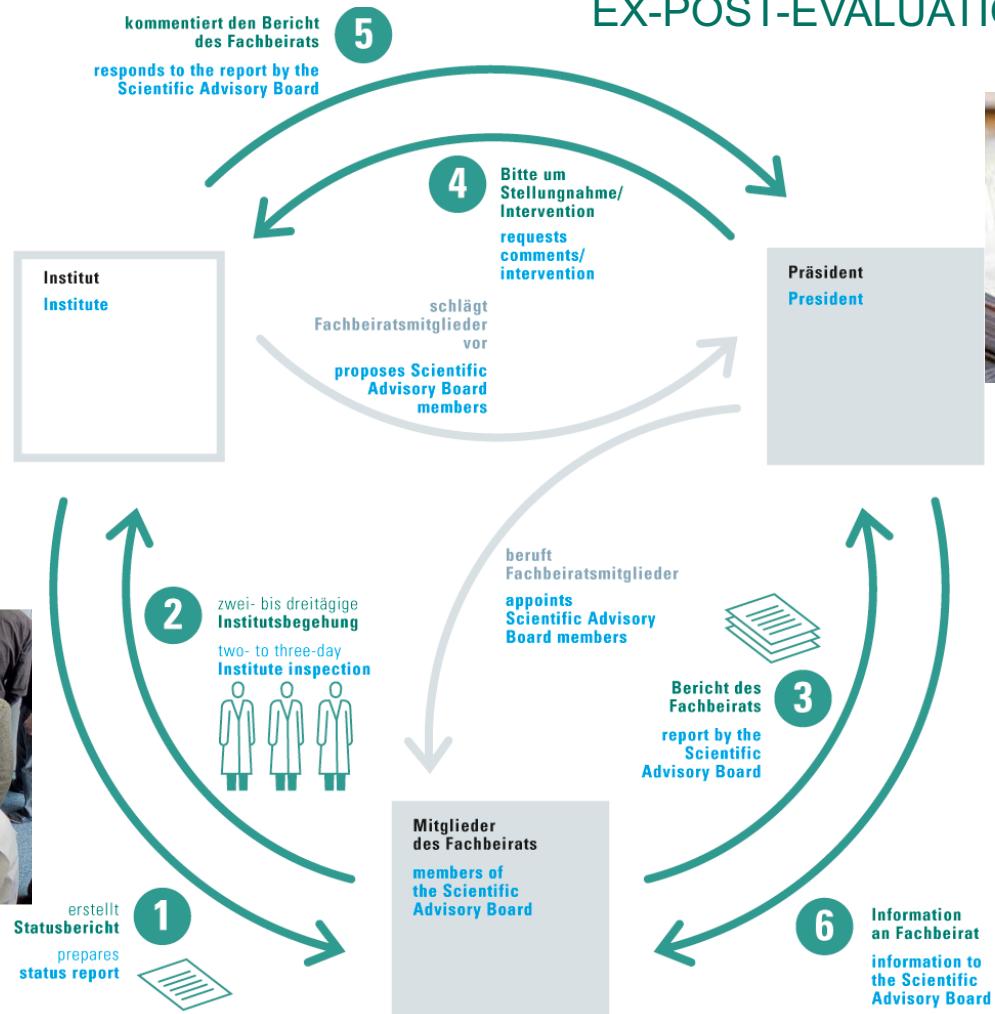
INTERNATIONAL  
MAX PLANCK RESEARCH SCHOOLS

- Biology & Medicine
- Chemistry, Physics & Technology
- Social Sciences, Humanities & Law



# Evaluation Procedures

## EX-POST-EVALUATION



# Governing Bodies

