



# Global Change Platform in Germany: Present and Future

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Kiel Institute for the World Economy  
Chairman of NKGCF

Kyoto, December 2012



# Members of the German National Committee on Global Change Research



**Prof. Gernot Klepper Ph.D.**  
**Chair**

**Ressource Economics**

Prof. Dr. Antje Boetius  
*Co-Chair, Diversitas liaison*

Microbiology



Prof. Dr. Meinrat O. Andreae  
*Co-Chair, IGBP liaison*

Biogeochemistry



Prof. Dr. Peter-Tobias Stoll  
*Co-Chair, IHDP liaison*

Environmental Law  
Intern. Business Law



Prof. Dr. Martin Visbeck  
*Co-Chair, WCRP liaison*

Physical Oceanography



Prof. Dr. Christoph Böhringer  
Prof. Dr. Katrin Böhning-Gaese (Since 2011)  
Prof. Dr. Hans-Georg Frede  
Prof. Dr. Armin Grunwald (Since 2010)  
Prof. Dr. Elisabeth Kalko  
Prof. Dr. Frauke Kraas  
Prof. Dr. Wolfgang Lucht  
Prof. Dr. Ulrich Platt  
Prof. Dr. Michael Schulz  
Prof. Dr. Georg Teutsch  
Prof. Dr. Wolfgang Weisser (Till 2010)

Economic, Environment and Energy Policy  
Biodiversity and Area Dynamics of Vertebrates  
Resource Management, Ecology  
Technology Assessment and Systems Analysis  
Animal Ecology  
Anthropogeography, Urban Research  
Earth System Modeling  
Environmental Physics, Experimental Physics  
Paleoclimate Research  
Applied Geosciences, Hydrology  
Terrestrial Ecology

**EX OFFICIO**

Dr. Harry Lehmann  
Dr. Gisela Helbig  
Dr. Bettina Schmalzbauer  
Dr. Johannes Karte

Federal Environmental Agency (UBA)  
Federal Ministry of Education and Research (BMBF)  
Scientific Secretariat NKGCF  
German Research Foundation (DFG)



# Mandate of NKGCF

- act as **scientific advisory committee** to national funding agencies (DFG, BMBF)
- play a significant role in the process of **identifying research priorities** and in **stimulating and coordinating** German contributions to the four international Global Change research programmes
- **improving the internationalisation** of German Global Change research and **promoting** the integration of German contributions into the international programmes
- act as **advisory committee** to the German representation to ICSU and the European Science Foundation (ESF) in the context of GEC research

# Examples of interdisciplinary initiatives of NKGCF

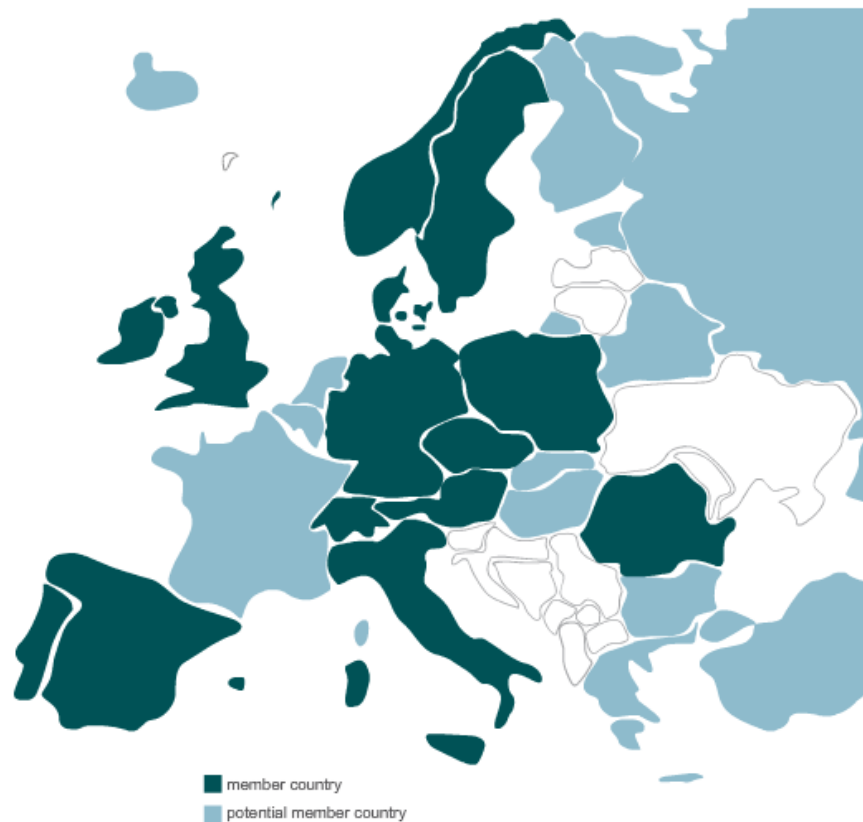
- **Recommendation for national research funding options** to "Ecosystem services and biodiversity 2020: ecological, social and economic development and conceptions to global change".
- **Roundtable discussions** to "Geoengineering – the scientific knowledge" and "Regional climate modeling – uncertainties" and **workshops**.
- **Statements** to IPBES and IPCC (in cooperation with other German organisations).
- Convened **Sessions**: Planet under Pressure Conference, 26.-29. March 2012, London "Challenges of Integration" (jointly organised with ESSP and ISSC).



- Regularly published **brochures** about "Global Change Research in Germany", **stands** to promote Global Change Research and **national colloquia** as discussion forum for the German research community.



5. Nationales Kolloquium des NKGCF



## The European Alliance of Global Change research committees...

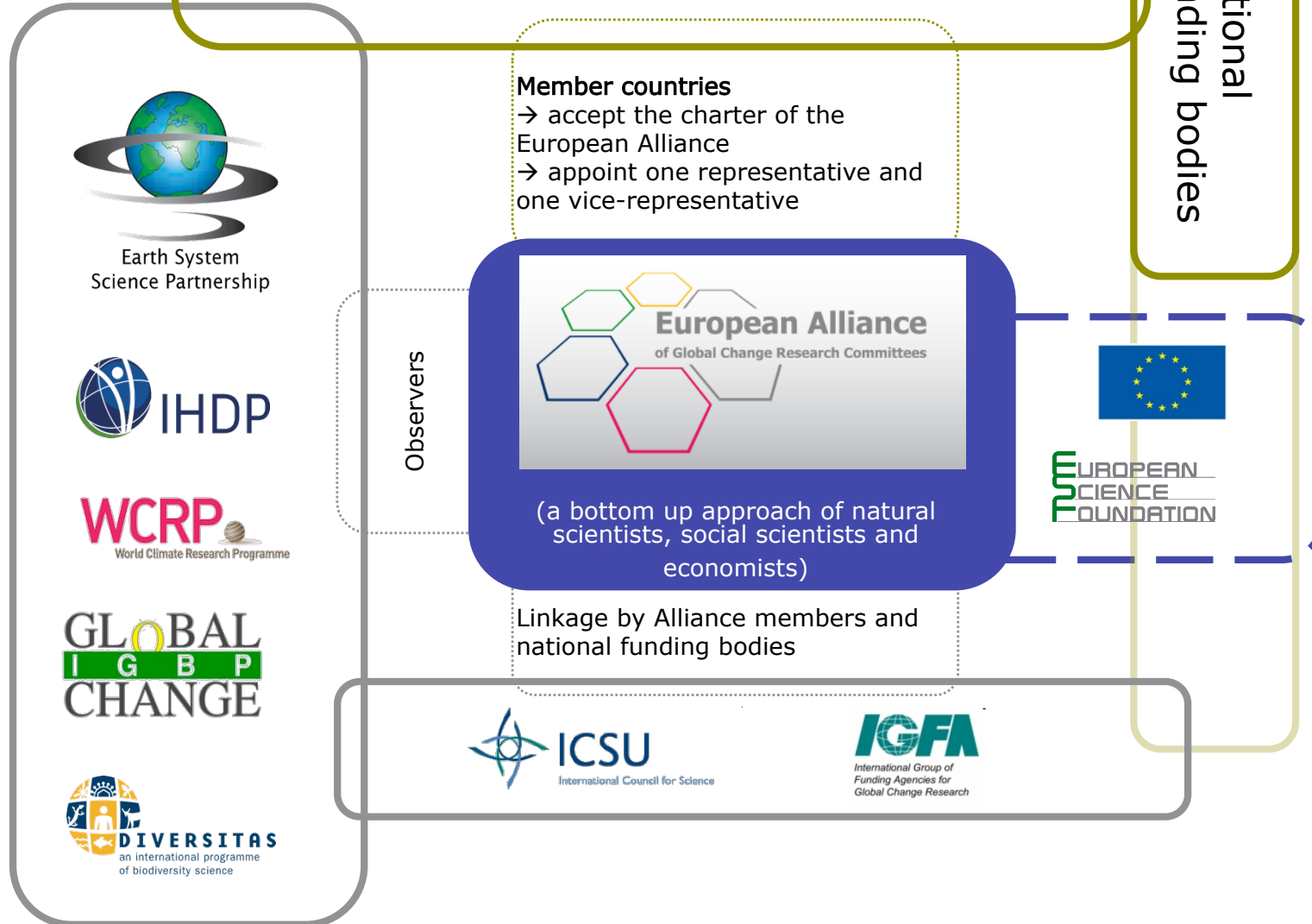
...is a **Europe-wide association** of national committees of the four international global change programs.

...**provides a platform for an integrated approach** to global change research linking the international GC research programs (WCRP, IGBP, IHDP, DIVERSITAS) and ESSP.

...aims to **promoting and supporting global change research** on a European level (since future action of mitigation and adaptation on climate change will take place on this continental scale).

**National committees of IGBP, IHDP, WCRP and DIVERSITAS**  
 (36 committees in 24 potential European member countries)

National funding bodies





<http://www.euro-icsu.org/>



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## About us

The Group of the European members of ICSU is a cooperation body for the European member organizations of the International Council for Science, ICSU. Unlike ICSU's Regional Offices that are part of ICSU's strategic planning, the European Group is an initiative of ICSU's European member organizations in order to enhance regional cooperation and networking among the members. The goal of the European Group is to strengthen international science by enhancing cooperation within ICSU family and by ensuring that there is an interface between international and national level of activities.

The European Group has held annual meetings since 2004. Since 2011 the Group of the European members of ICSU has had a Secretariat that coordinates and implements the joint activities of the Group. At that point, the Group also appointed a Management Group to function as the body that plans the joint activities.

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### News

[The Euro-ICSU website has been published](#)

[Annual Meeting in Helsinki, October 2-3, 2012](#)

[More news...](#)

### Upcoming Events

[Management Group meeting](#)  
 Apr 18, 2013 - Apr 19, 2013 — TBC

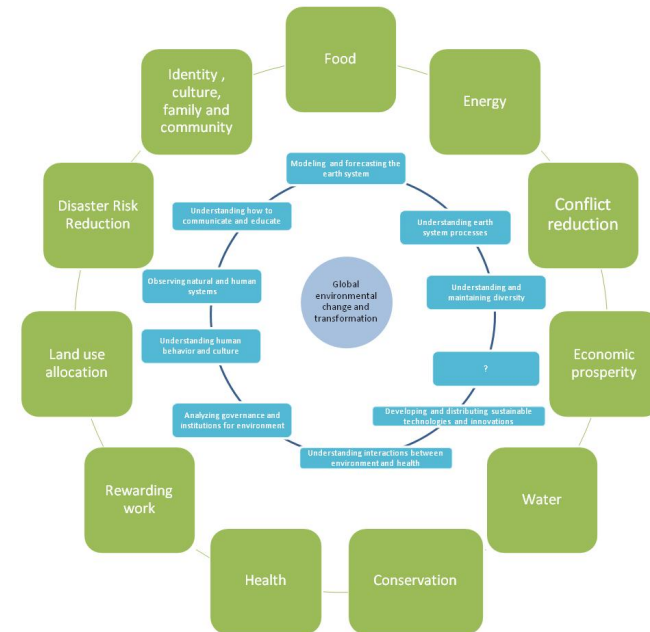
[Upcoming events...](#)

# Future Earth: Research for global sustainability

A new alliance...



...with integrative topics of societal relevance ...



Note: WMO is an observer

...will need new structures on a national level and new processes for developing future research agendas.



Integrated research works across disciplines, across regions, and across groups.

# CO-DESIGNING KNOWLEDGE

## ACROSS SCIENTIFIC FIELDS, NATIONAL BORDERS AND USER GROUPS

Integrated Global Change Research

7-9 March 2012



disciplines, across regions, and across groups.

**Academic Community**  
(disciplinary + interdisciplinary)

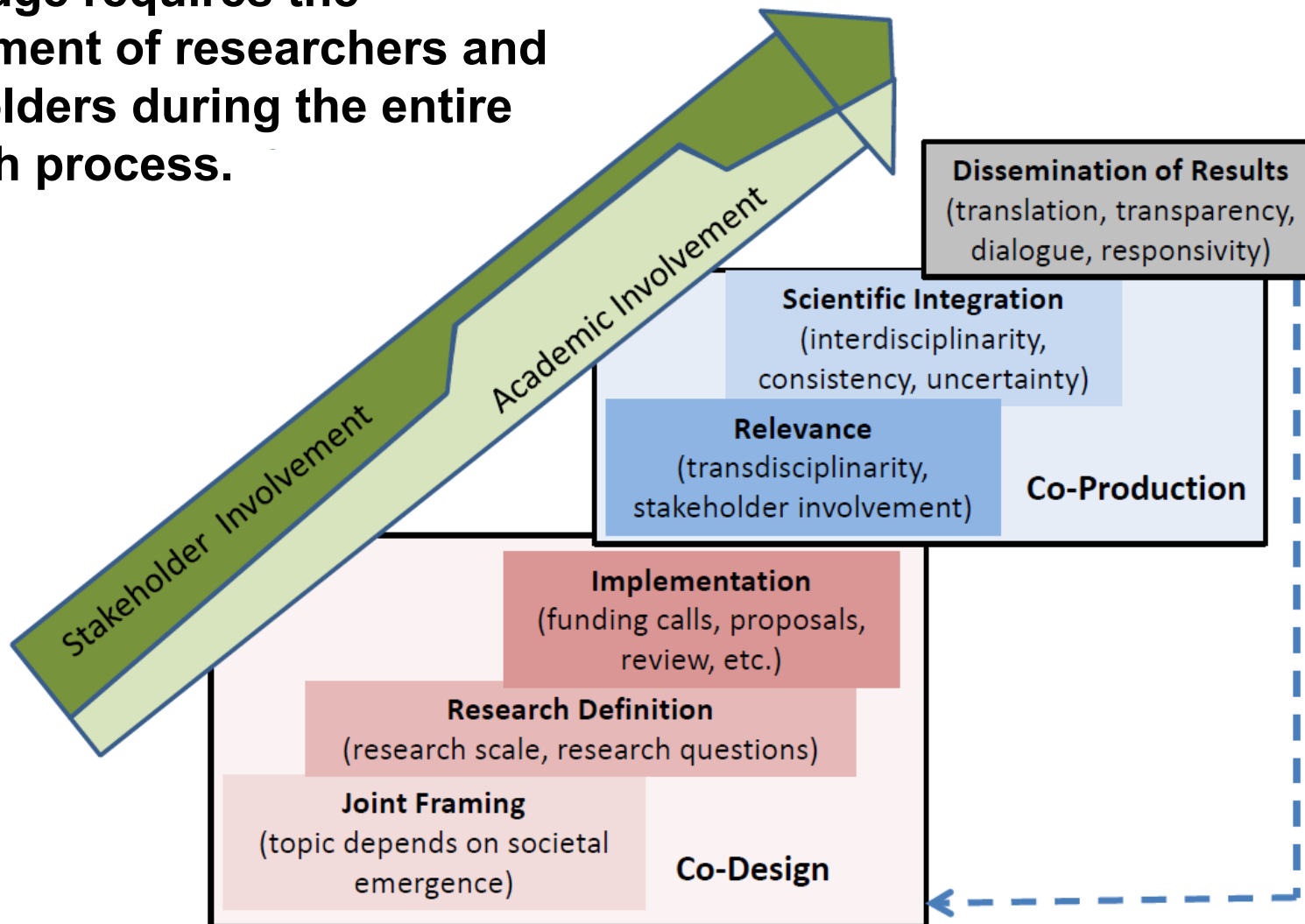
**Academic Community, Stakeholders, and Civil Society**  
(interdisciplinary)

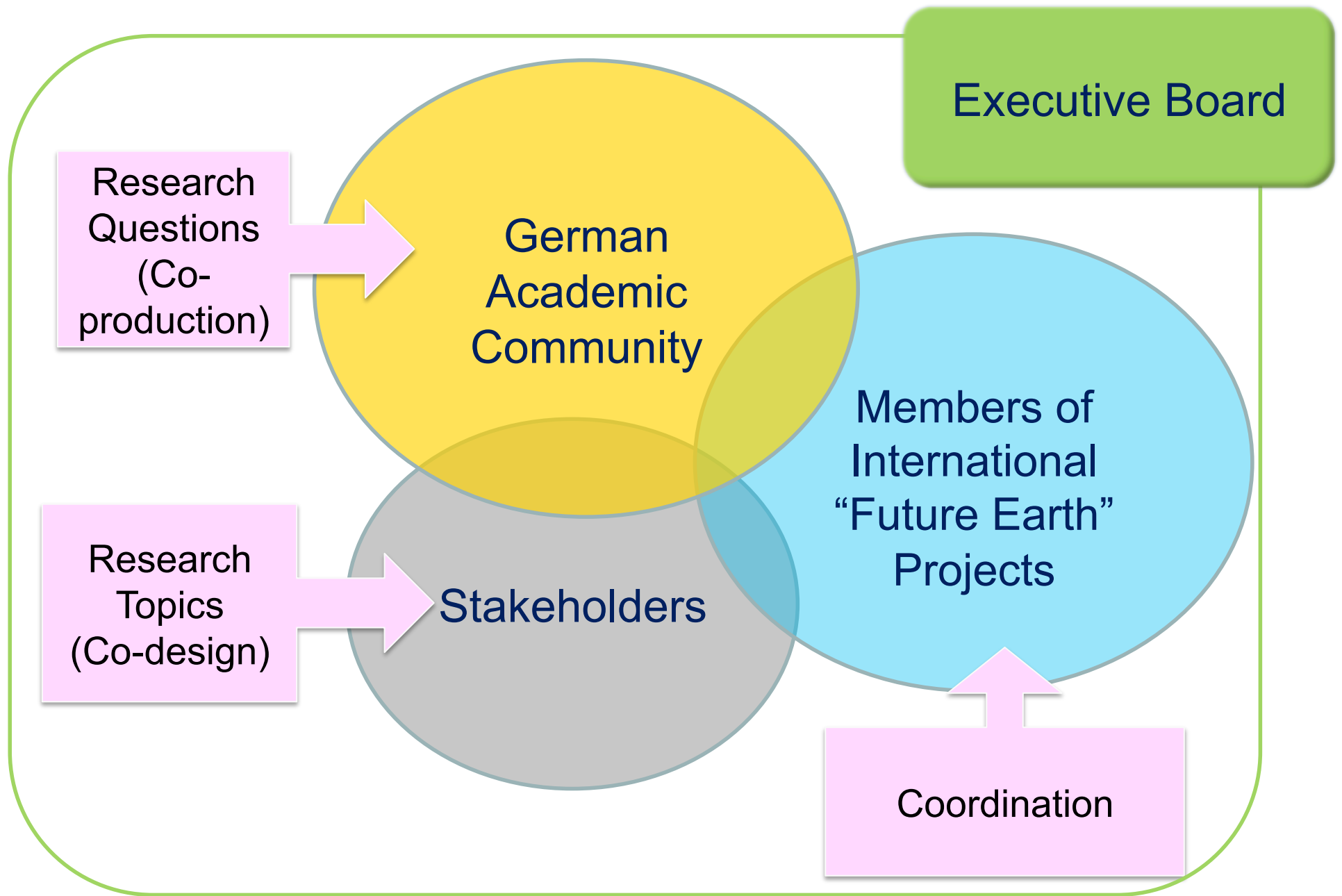
**Traditional Research Process**

**Integrated Research Process**



**Co-design and co-production of knowledge requires the involvement of researchers and stakeholders during the entire research process.**







# Tasks for the upcoming year(s)

## Practicing transdisciplinary science:

- Developing processes for a dialogue between science and practice
- Coordinating scientific disciplines, practice, and research funders

## Scientific quality control:

- Improving quality criteria for the evaluation of interdisciplinary research
- Developing evaluation criteria for transdisciplinary research

## New adapted structures for institutions:

- National Committees
- International Alliances
- „Future Earth“