



Science-Policy Interactions for Climate Change Adaptation in Germany

Science–Policy Interactions in National
Adaptation Policy

Utrecht, 14.-15. September 2009

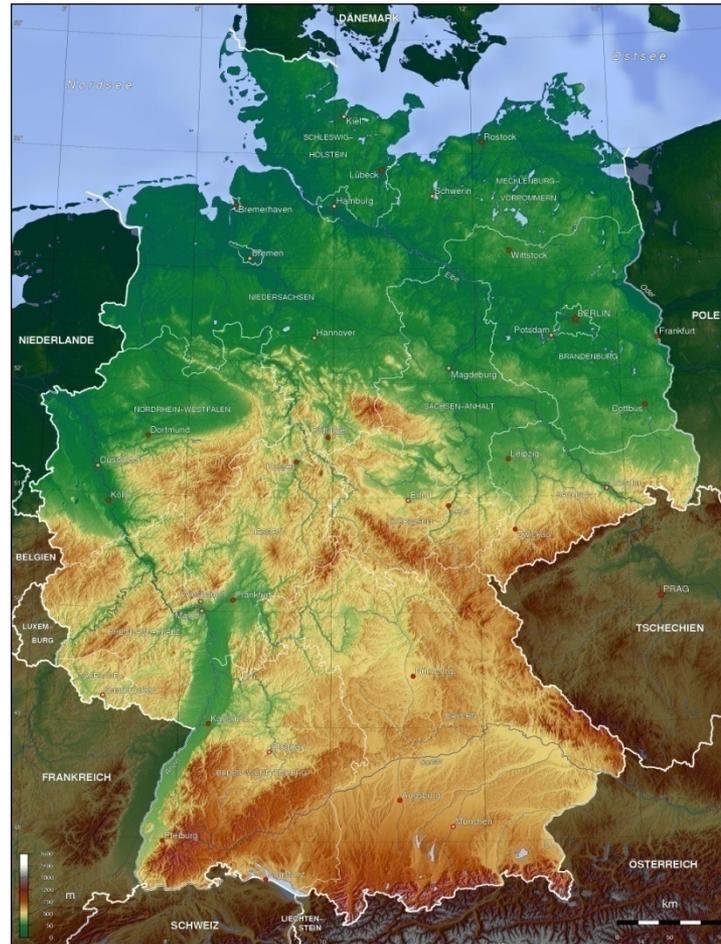


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Global Change



Geography





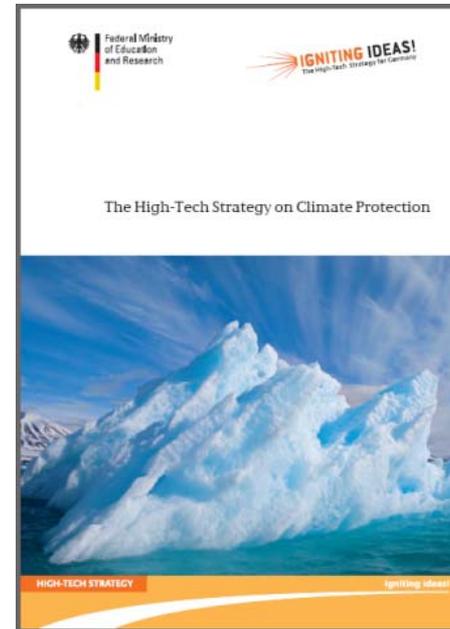
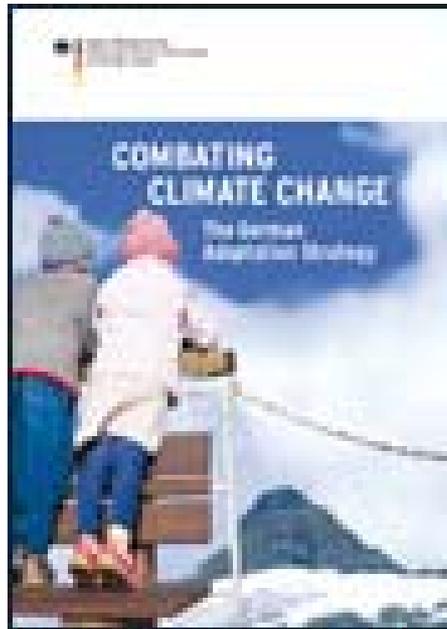
Climate change: Risks and Chances

- Climate change is affecting Germany in many different ways
(*e.g. more extremes, drier summers, warmer wetter winters*)
 - In various sectors, in various regions
(*e.g. coastal protection, industry, tourism, water supply*)
 - In society, economics and policy
(*federal, länder, communities, private*)
- multilevel challenges in adapting to climate change



Two pathbreaking strategies for Germany

- German Adaptation Strategy (2008)
- High-Tech Strategy on Climate Protection (2007)





German Adaptation Strategie

Deutsche Anpassungsstrategie (DAS)

- Decision Cabinet of Ministers December 2008
- After hearing view of Länder
- Listing of possible climate change effects and areas of action
- Research demands formulated
- Regular exchange of ideas between ministries
- Working towards a Plan of Action “Adaptation” in 2011



High-Tech Strategy on Climate Protection (2007)

- BMBF (research, education)
global change research, ...
- BMU (environment)
international negotiations on climate, ...
- BMVBS (traffic, building)
Building, fuel cells, waterways, weather research center
- BMELV (agriculture, food, consumer)
Research institutions on agriculture, biomass research
- BMWi (economy and technology)
Power generation (CCS), H₂-technology, energy efficiency
- BMG (health)
Climate induced diseases
- ...



Sources of Climate Knowledge

- Basic science (Universities, PIK, MPI-Met etc.)
- German Weather Service (DWD)
- Helmholtz Centres Regional Climate Bureaus
- KomPass (Umweltbundesamt)
- Climate Service Center (*since July 2009*) Hamburg

Integration of current results of climate change research,
in particular of regional climate research/modeling

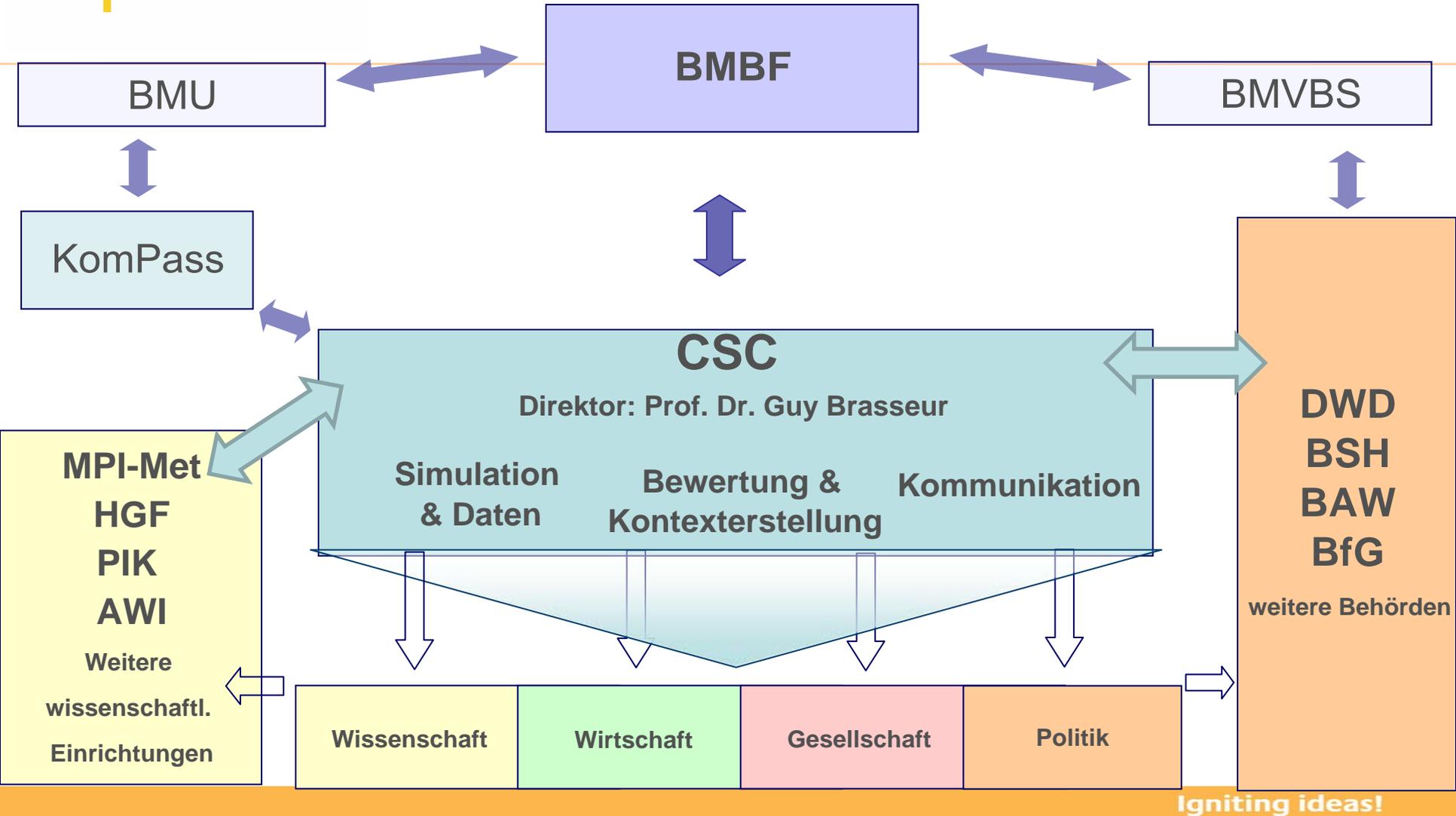


CLIMATE SERVICE CENTER

- Improving information and advisory services is a central responsibility for Climate Adaptation.
- Processing available knowledge about the climate for use by policy-makers, decision-makers and investors and asking for new knowledge.
- Providing a demand-oriented service centre with strong backing in the scientific community on climate research.
- Building a network for climate services



CSC - Netzwerkmodell



Igniting ideas!



Customers of climate knowledge (1) klimazwei

Adaptation:

19 joint projects, ca. 15 Mio. €

Mitigation:

20 joint projects; ca. 22 Mio. €

- agriculture and forestry
 - water management
 - tourism
 - financial management
 - building and residential area
 - communication, information and education
 - Early warning systems
 - regional networks
- **Service Group Adaptation
(4 persons at MPI-M)**



Risiken mindern · Chancen nutzen



Customers of knowledge (2)

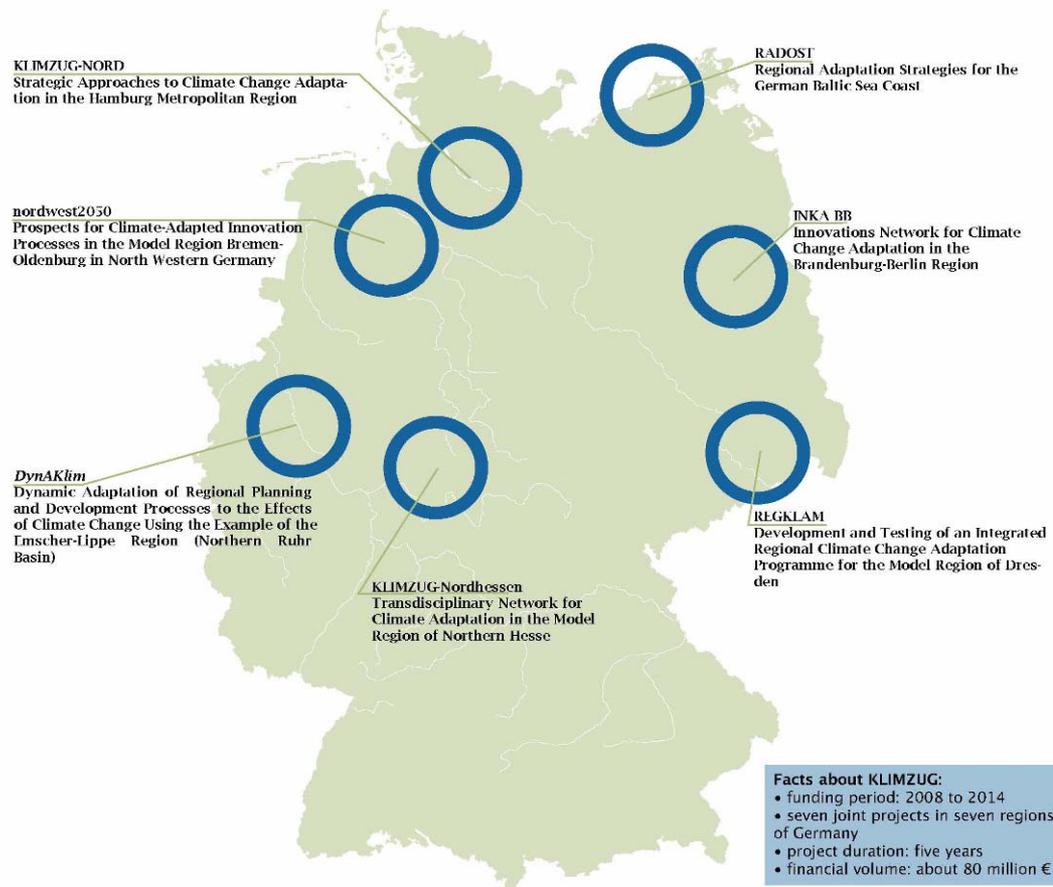
KLIMZUG, Managing climate change in the regions for the future

- Adaptation to climate change
- Making regions climate proof
- Increasing the future competitiveness of regions
- Regional cooperation networks,
joint forces from **science, industry and policy**
- user-oriented, specific needs of the region for climate change adaptation





KLIMZUG's regions





Customers of climate knowledge (3) financial world

FINANCE FORUM: „CLIMATE CHANGE“

- Strategic partnership with financial service providers (credit services sector, insurance companies, investment funds)
- Close links between financial management expertise and scientific, technological and economic research
- Optimizing the costs and benefits of climate protection and adaptation strategies as well as the opportunities for technological developments through financial markets
- (*see Dr. Lutz Cleemann*)



Summary

- Awareness of the necessity to adapt to CC
- Great need for climate knowledge
- Knowledge must be communicated along with its reliability
- Science in driver seat (strengths and weaknesses of models)
- working structures to build confidence are still under construction



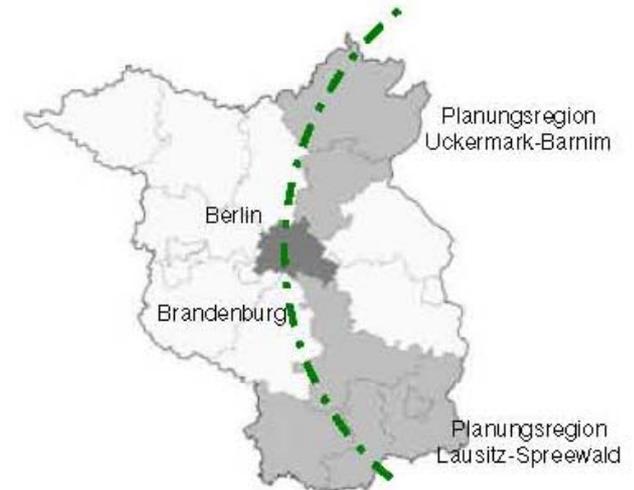
- Thank you for your attention



INKA BB – Innovation Network of Climate Change Adaptation in the Region of Brandenburg Berlin

Common goals:

- to facilitate the strategic ability of adaptation of actors in economy, politics and administration in an area with comparably dry conditions in Germany
- to develop innovative approaches to cope with climate change related risks and opportunities in land use as well as water and health management
- to ensure the sustainability of land and water resources in the region under changing climate conditions





KLIMZUG-NORD – Strategic Approaches to Climate Change Adaptation in the Hamburg Metropolitan Region

- Development of techniques and methods for minimizing climate impacts and for the adaptation of society and economy to the increased risks from climate change
- Development of strategies and concepts with these methods in regional planning and development processes
- Analysis of costs, effectiveness and efficiency of these strategies and approaches for civil society, environment and economy
- Creation of the master plan of management of climate effects/change in the Hamburg metropolitan region until 2050

