

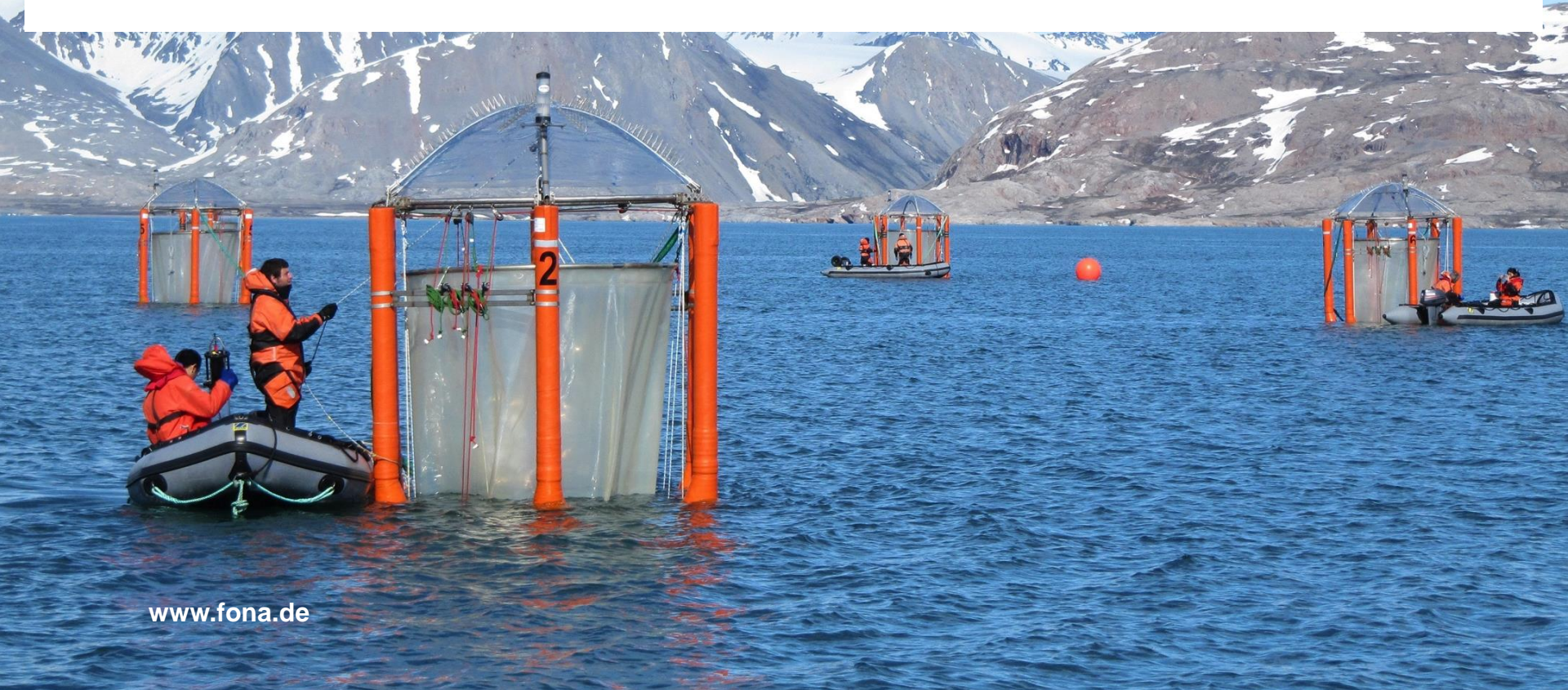


Federal Ministry
of Education
and Research

Climate Knowledge and Innovation

Research Strategies in Support of Climate Policy

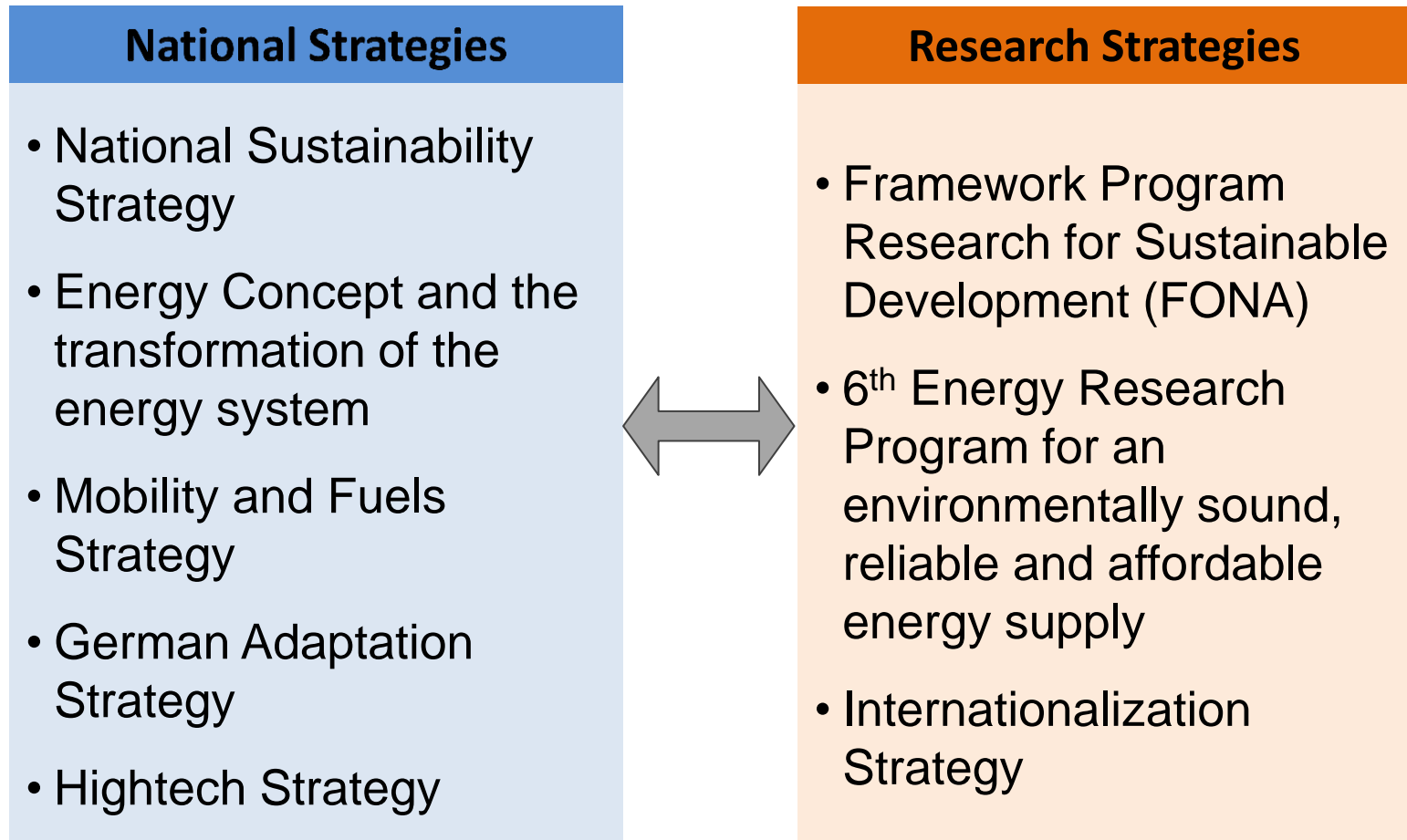
Vera Stercken, German Ministry of Education and Research



The Science in Climate Policy

- Science has discovered the problem and helps finding solutions.
- Science can guide decision making in climate politics to avoid risks and find the best solutions.
- The science of climate change goes beyond physics and includes other disciplines like the economics or social sciences.

Climate Research as Part of National Strategies



Framework Program „Research for Sustainability“

Broaden knowledge and deliver **options for actions**.

Key Objectives

- *Excellence*: extend basic knowledge and close knowledge gaps
- *Relevance*: build capacity for efficient and effective use of climate knowledge
- *Innovation*: trigger dynamics for sustainable growth

Key Challenges

- Inter- and transdisciplinary research
- Integration of the economics and the social sciences
- Transfer of climate knowledge

Key Areas for Climate Research

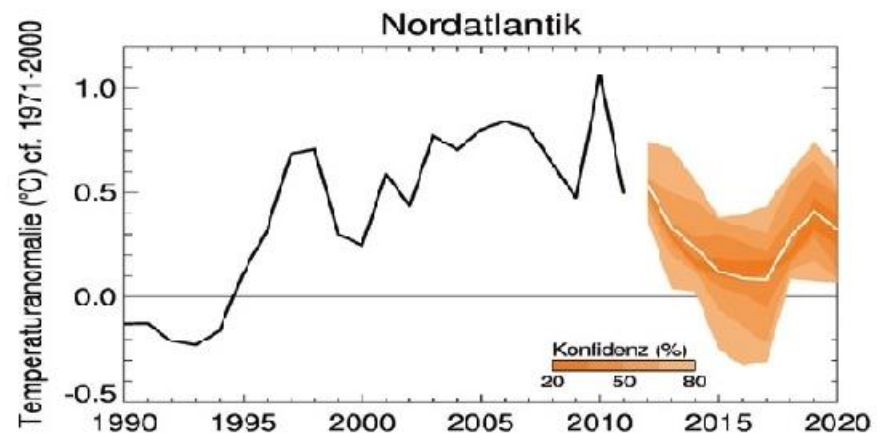
1. National Climate modeling initiative
2. Regionalization of climate knowledge
3. Integrated assessment for climate politics and innovation
4. International responsibility

National Climate Modeling Initiative

- Reliable climate models and projections

MiKlip

Medium Term Climate Forecast





Regionalization of Climate Knowledge

- Regional climate impacts
- Addressing climate change on the ground



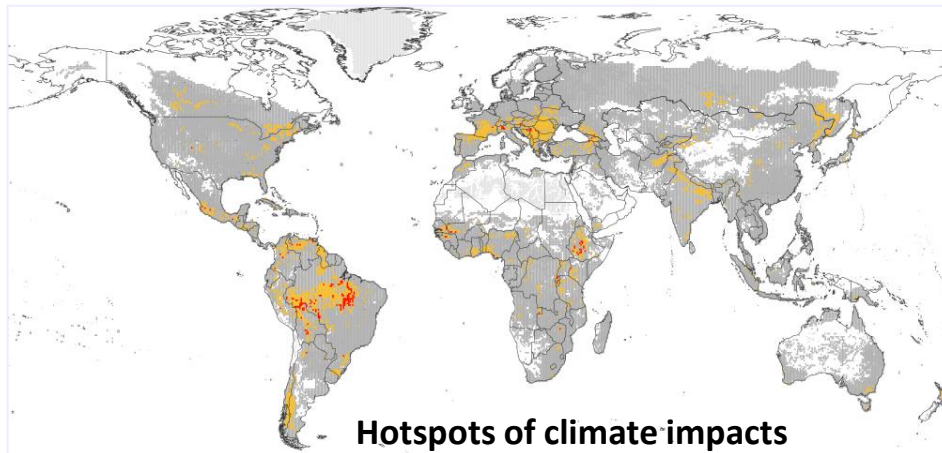
Integrated Assessment for Climate Politics & Innovation

- Integrated Scenarios and decision support
- Climate change triggering innovation



ISIMIP

Cross-sectoral global
impact assessments



Economics of Climate Change
Assessing costs, risks and
opportunities of response options

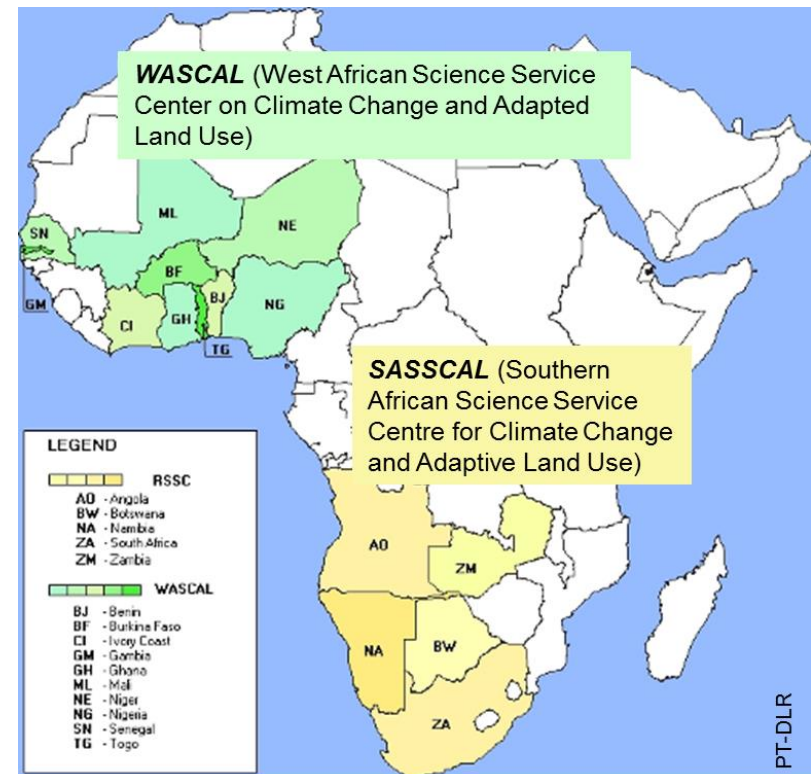


International Responsibility



Innovative Solutions for Climate- and Energy-Efficient Urbanisation

Regional Science Service Centres



Responses to the Guiding Questions

- 1. How can access to scientific data and information be improved to enhance research and innovation capacity?**
 - Climate services and stakeholder dialogues
- 2. How can regional and local capacity be improved to support decision making?**
 - Co-design: participation of stakeholders in the design of research programmes
 - Co-production: inter- and transdisciplinary research
- 3. What are the opportunities for delivering consistent data and model outputs to support decision making?**
 - Design of research infrastructures and coordinated initiatives in support of systemic approaches



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Thank you for your attention!