

Adaptation Research

IBR – Interdisciplinary approach to functional biodiversity research

The IBR research project aims to contribute to the understanding of how biodiversity responds to the challenges of global climate change and the role it plays in the ecosystem. The integrative research project covers ecology, evolutionary biology and theory as well as interdisciplinary approaches to the protection and management of biodiversity.

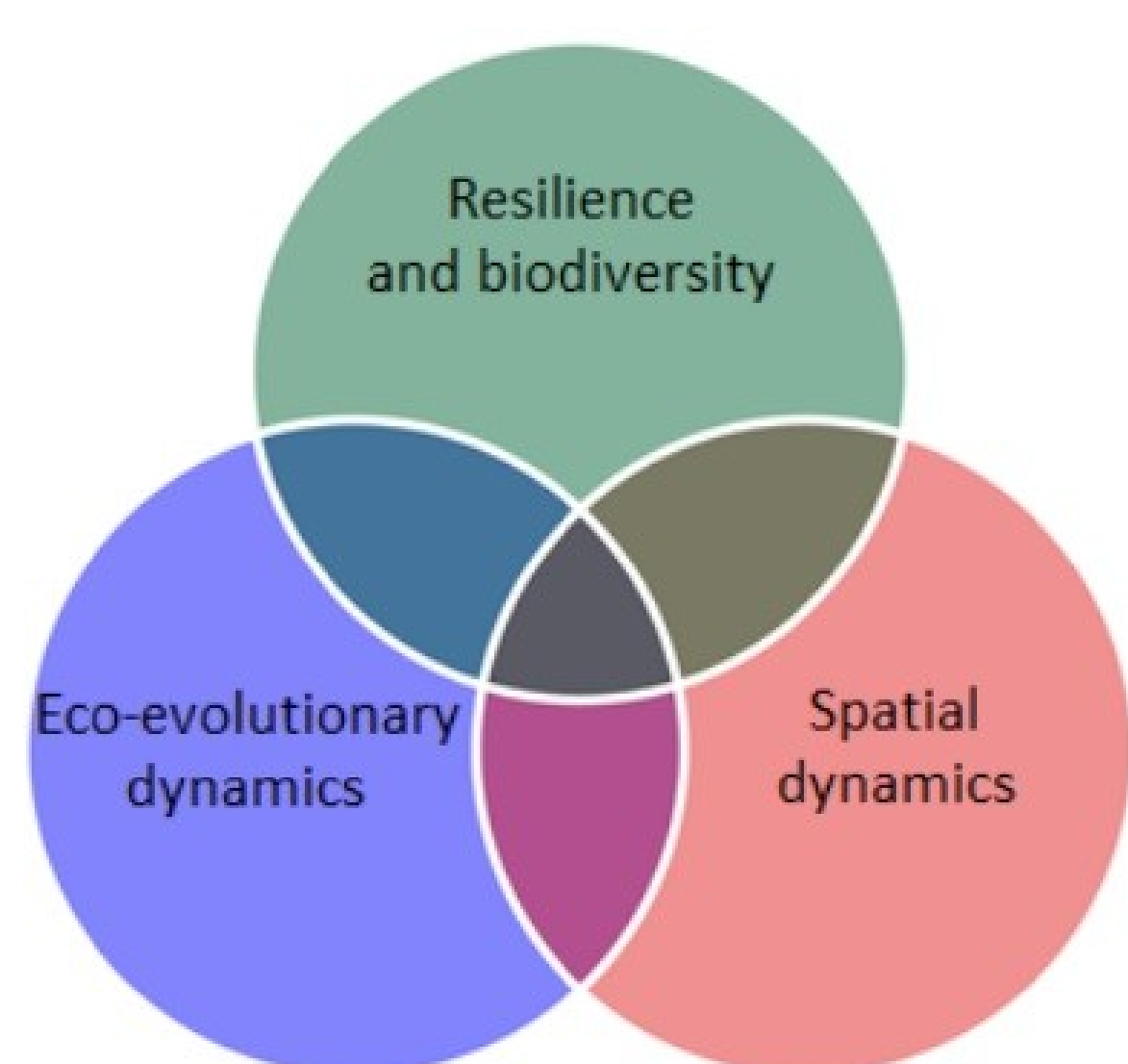


Figure: Research clusters of the IBR

By including perspectives from ecology, evolutionary and nature conservation research as well as social science the graduate school offers a solid foundation to pursue synthetic-integrative science. Project partners are the Institute for Biology and Environmental Sciences (IBU), the Institute for Chemistry and Biology of the Marine Environment (ICBM) and Faculty II. Overall, the MWK finances 15 PhD scholarships

Clim-A-Net

Rivers, mountains and coastal regions of Tanzania and South Africa are deeply affected by climate change with serious consequences for the local ecosystems and for the use of land. Hence, social and political institutions as well as people living in these regions need to look for new strategies and options of action. The Clim-A-Net project aims to examine these processes cooperatively with an interdisciplinary approach.

Clim-A-Net comprises the three lines of activities - education, research and networking - with the focus of pressing research, teaching and management topics of climate and climate impact research and integrated coastal management while simultaneously addressing the societal needs of sustainable development and adaptation to climate change. Focal research areas are the Pangani River Basin in Tanzania (local partner: University of Dar es Salaam) and reaching from the Kilimanjaro mountain to the Indian Ocean, the Keiskamma River Catchment in the Eastern Cape Province of South Africa (local partner: Nelson Mandela-Metropolitan University).

nordwest2050 – Team Governance

The project aimed to increase the ability of the Metropolitan Area Bremen-Oldenburg to deal with climate change. Therefore, the adaptive capacities, innovation potentials of different sectors have been investigated and a vision for a desired future has been developed together with stakeholders. The results served as foundation for a roadmap towards a climate adapted future. The Governance team dealt with the fields of regional planning, water management, coastal and flood protection and civil defence.

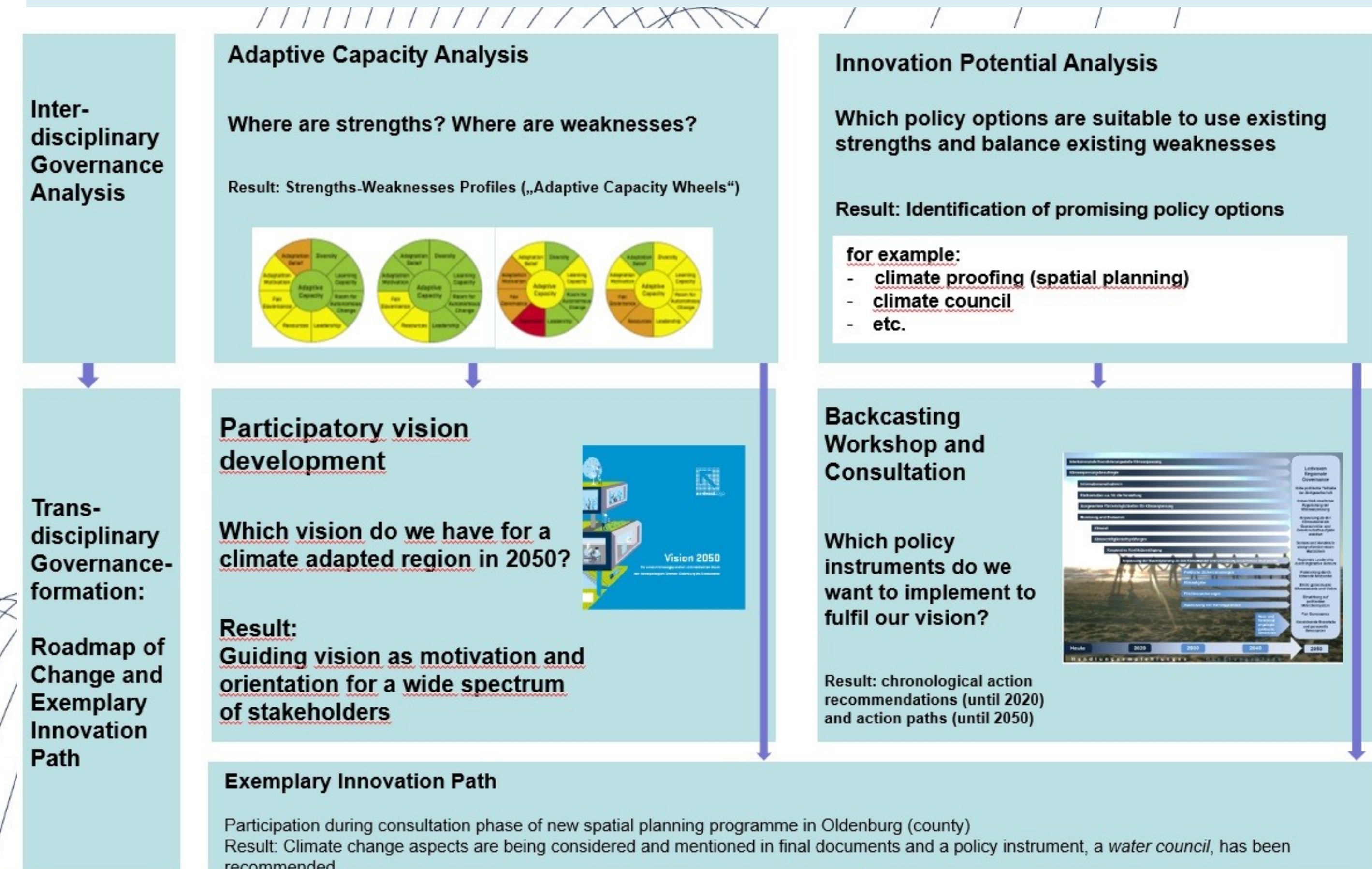


Figure: Overview Roadmapping Process Governance

Prof. Dr. Bernd Siebenhüner

Meike Bukowski

Dr. Stefanie Sievers-Glotzbach

Maik Winges



Further Research Topics

- social learning
- ecological and environmental economics
- environmental policy
- corporate environmental management
- sustainable development
- ecological ethics.

Regular Courses

- Betriebliche Umweltpolitik
- International Sustainability Management
- International Environmental Governance
- Ecological Economics

Literatur

Garrelts, H., Grothmann, T., Grecksch, K., Winges, M., Siebenhüner, B., & Flitner, M. (2013). Vulnerabilität und Klimaanpassung: Herausforderungen adaptiver Governance im Nordwesten Deutschlands. Bremen/Oldenburg.