Ökologische Ökonomie Ecological Economics



Adaptation Research

IBR – Interdisciplinary approach to functional biodiversity research



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.

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 Biology Institute for and Environmental Sciences (IBU), the Institute for Chemistry and Biology the Marine of Environment (ICBM) and Faculty

	Adaptive Capacity Analysis	Innovation Potential Analysis
Inter-	Where are strengths? Where are weaknesses?	Which policy options are suitable to use existing
disciplinary	Where are savingalor. Where are weakhesses?	strengths and balance existing weaknesses
Governance	Depute Strengthe Westmanne Destine (Adaptive Conneity Wheelett)	
Analysis	Result: Strengths-Weaknesses Profiles ("Adaptive Capacity Wheels")	Result: Identification of promising policy options
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	tager han have han have have have have have have	for example:
	Adaptive Researcher Faster Fas	 climate proofing (spatial planning) climate council
		- etc.
		Backcasting
	Participatory vision	Workshop and
	development	Consultation
Trans-		Minimultinaires Balanshalar an trà da Namalina Balanshalar a trà da Namalina Bangarites Hachalagi telaki fa Okoaspietaly
disciplinary	Which vision do we have for a	Alternational Al
Governance-	climate adapted region in 2050?	Which policy instruments do we
formation:		want to implement to
	Pequit	fulfil our vision?
Roadmap of	Result:	Heuler 2020 2020 2040 2040
Change and	Guiding vision as motivation and	Result: chronological action
Exemplary	orientation for a wide spectrum	recommendations (until 2020)
Innovation	of stakeholders	and action paths (until 2050)

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 while integrated coastal research management and 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).

Exemplary Innovation Path

Participation during consultation phase of new spatial planning programme in Oldenburg (county) Result: Climate change aspects are being considered and mentioned in final documents and a policy instrument, a *water council*, has been recommended

Figure:: Overview Roadmapping Process Governance

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Further Research Topics

• social learning

Innovation

Path

- 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

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