Ecological Economics



ADAPT LOCK-IN Climate adaptation policy lock-ins

Despite urgent need and available strategies to adapt to the impacts of climate change, limited action prevails. Aiming to understand systemic 'lock-ins' that hinder adaptation, this project takes an empirical and theoretically reflective approach, to analyze climate adaptation governance in the policy sectors water management, health care, and nature conservation – in Germany, the Netherlands, and the UK.

Methods

The project uses a comparative, mixed methods approach to understand why lock-ins arise and persist in each case. Cases are selected from three sectors (water, health, nature conservation) – 2 cases each – within three countries (Germany, the Netherlands, UK), leading to an overall sample of 18 more or less locked-in policy subsystems. through gathered is documents, Data interviews, questionnaires, and focus group discussions. In-depth **analysis** relies on an innovative mix of process-tracing methods, combined with systems analysis techniques to identify case-specific lock-in situations. Finally, we employ Qualitative Comparative Analysis (QCA) to better understand the broader dynamics and patterns of lock-ins as they affect climate adaptation.



Figure: Design of the project with dependent variable – rigidity/ inertia in policy systems (degree of lock-in) and independent

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variables – mutually reinforcing factors/feedbacks mechanisms.

Motivation

Parallel to mitigation efforts, there is an urgent need to adapt to the impacts of climate change. Adaptation strategies are available, yet limited action prevails. Institutions, infrastructures, and behaviors appear to be rigid and resistant to change. This project goes beyond 'barriers to adaptation' focused on in previous literature and delve into systemic-level mechanisms and path dependencies that inhibit transformative change.

Research Questions

• Why haven't pressures to adapt to impacts of climate change resulted in concrete adaptation policies or their implementation?

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Research Areas:

- Social Learning Processes
- International Environmental Policy
- Sustainable Development
- **Collaborative and Network Governance**

Regular Courses:

- International Sustainability Management
- In what ways do mechanisms of mutually reinforcing factors create and sustain lock-ins to the detriment of climate change adaptation?
- **Environmental and Sustainability Politics**
- International Environmental Governance

Literature (selected)

Biesbroek, G. Robbert, Catrien J.A.M. Termeer, Judith E.M. Klostermann, und Pavel Kabat. 2014. Rethinking barriers to adaptation: Mechanism-based explanation of impasses in the governance of an innovative adaptation measure. Global Environmental Change 26: 108–118. Klitkou, Antje, Simon Bolwig, Teis Hansen, und Nina Wessberg. 2015. The role of lock-in mechanisms in transition processes: The case of energy for road transport. Environmental Innovation and Societal Transitions 16: 22–37.

Seto, Karen C. et al. 2016. Carbon Lock-In: Types, Causes, and Policy Implications. Annual Review of Environment and Resources 41: 425–452.





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