Nicole Mahlkow (FU)
The heat adapted city? A Constellation Analysis of urban governance and planning to tackle heat stress risks in mid-latitude cities
Research gaps

Creating the heat-proof city in mid-latitudes with moderate climate
Urban planning perceptions, instruments and practices
Coordination challenges and strategies

Research questions

How are heat risk policies being integrated into urban planning processes in cities with moderate climate? What are challenges and opportunities?
Analytical perspective

Policy integration

Forming relationships between single, potentially complex areas of political problem solving (integrated policy) with comprehensive, more or less coherent policy-arrangements (integrated policy).

Empirical matters and modes of integration and non-integration

Material manifestations symbolic expressions

Bornemann (2013)
Research approach and methods: Constellation Analysis

Methods
Interdisciplinary workshops with scientists
Expert interviews with administrative staff
Participating observation Berlin official government workshops
Document analysis (District and city-wide protocols of official meetings, official strategic documents)
Case study Berlin

humid continental mid-latitude climate, warm summers and cold winters

Curr. 1600 excess deaths (app. 5% annual death) due to urban heat (Scherer et al. 2014)

Climate change projections
• 2.5°C rise by 2050
• more extreme weather events
Berlin policy integration constellation

Heat risk and urban development policy and planning
Contextual factors

Ranking of German federal states: economic power in 2012

The case study area of Berlin

Population Growth 2000-2011
Policy to be integrated: ‘what and how’ of heat risk policy

- Time perspective
- Interplay with other risks
- Complexity of problem
- Problem focus
- Preferred strategies
Integrating policy: urban planning

- Planning instruments
- Risk analysis
- Planning logics
- Scope
- Aims
Responsivity of the institutional setting

- Knowledge exchange over governance levels
- Attribution of responsibility
- Local political culture
- Staff
- Budget
- Inclusion of scientific knowledge
Urban planning with heat risks – a tricky challenge

- Formal policy and planning instruments with stronger target specificity
- Clear responsibilities between local tiers of governance
- Linking competing local policies and political discourses
- Science-policy interface on *all* governance levels
- Building sustainable institutional structures
Tackling barriers?

- Environmental justice map
- Enhancing the resolution of risk maps
- District sustainability targets
- Informal preparation strategies
- Climate protection coordinators
Thank you!

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