





DFG-Forschergruppe 1736 "Urban Climate and Heat Stress in mid-latitude cities in view of climate change (UCaHS)"















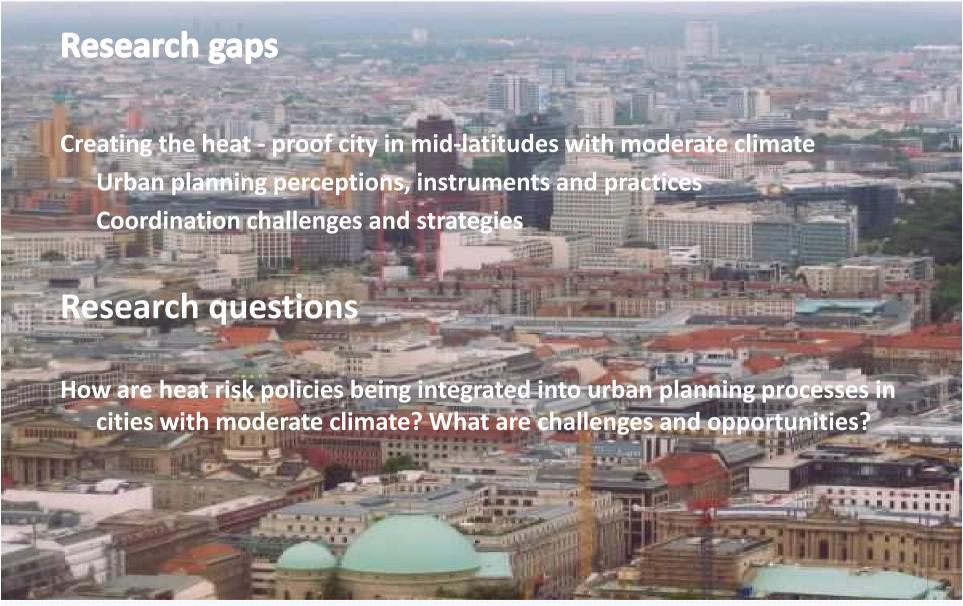
Nicole Mahlkow (FU)

The heat adapted city? A Constellation Analysis of urban governance and planning to tackle heat stress risks in mid-latitude cities















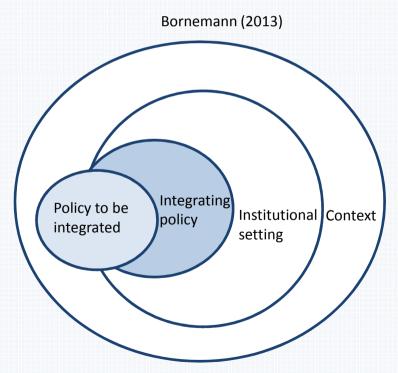
Analytical perspective

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









Research approach and methods: Constellation Analysis

Technical elements

Signs / Symbols Natural elements

Actors



Simple Relation

Targeted Relations

Missing Relation

Conflicting Relation

Resistive Relation



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)







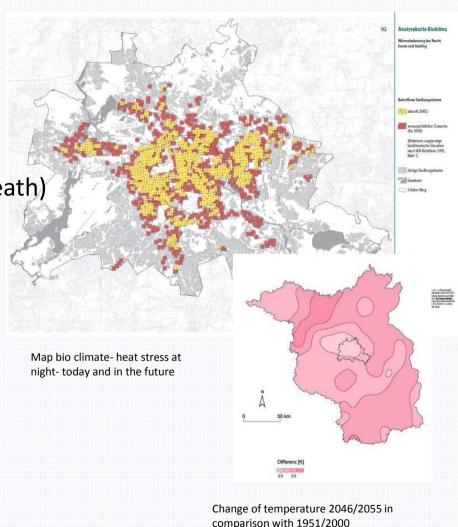
Case study Berlin

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



comparison with 1951/2000

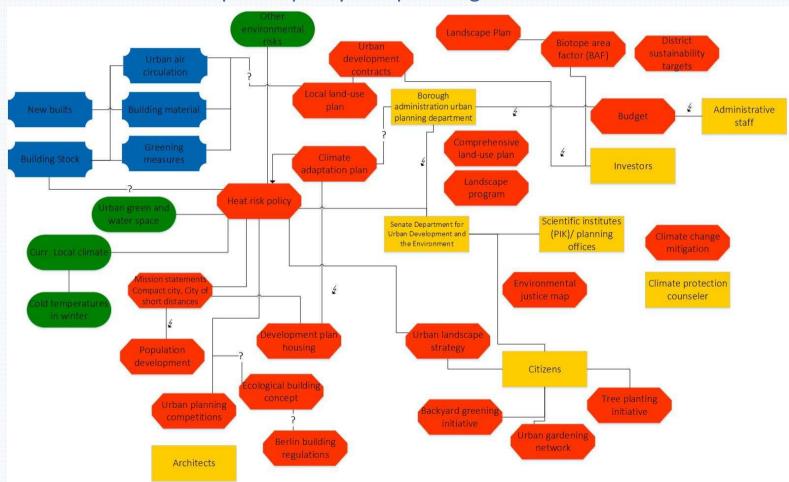






Berlin policy integration constellation

Heat risk and urban development policy and planning

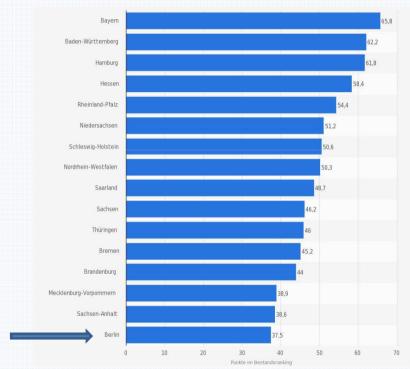






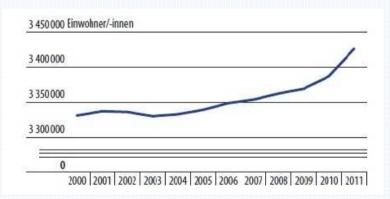


Contextual factors



Ranking of German federal states: economic power in 2012





Population Growth 2000-2011

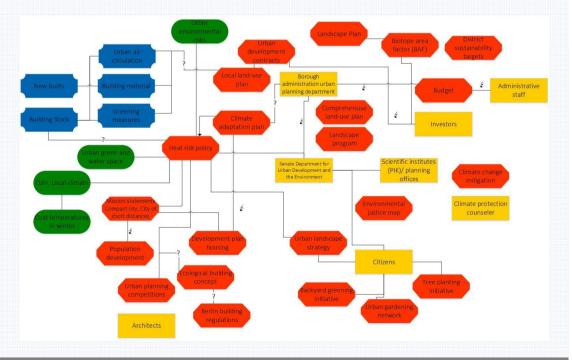






Policy to be integrated: 'what and how' of heat risk policy

- Time perspective
- Interplay with other risks
- Complexity of problem
- Problem focus
- Preferred strategies



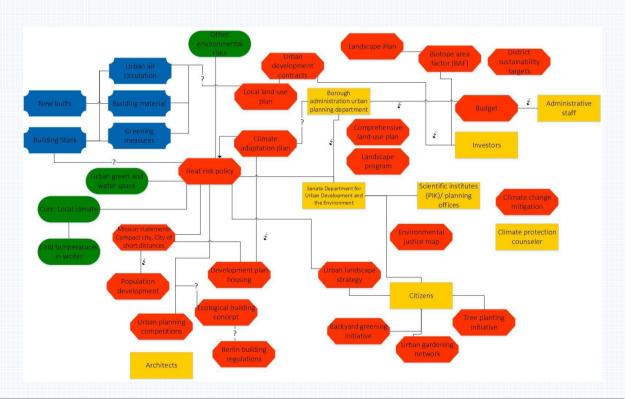






Integrating policy: urban planning

- Planning instruments
- Risk analysis
- Planning logics
- Scope
- Aims



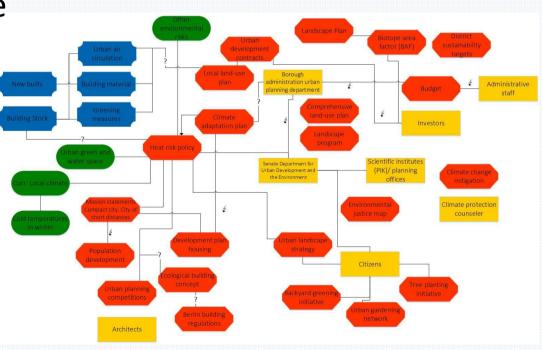






Responsivity of the institutional setting

- 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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http://www.ucahs.org/