

Smart retrofitting of urban housing in China and the Netherlands?



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Problem & challenges



- 33% of total CO₂ emission is from energy consumption in buildings
- 50% of total housing stock needs energy efficiency improving retrofit
- Current top-down technology-centred retrofit provision leads to limited energy savings
- Everyday domestic practices of householders cause variations in energy consumption up to 300%

Visualization of retrofit



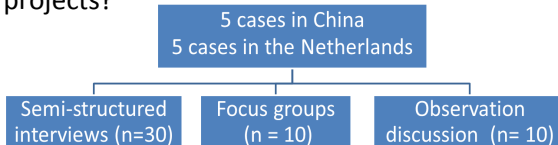
Insights



- Provider-household interactions substantiate how domestic practices may change
- More householder-perspective needed in retrofit recruitment
- More attention needed for appropriation of improved technologies by householders
- Lessons can be learned from more collective Chinese and more individualised Dutch approaches

Main question & Methods

How to conceptualise, understand and improve the organized interaction between households and providers in Dutch and Chinese retrofitting projects?



Conceptual framework



Study area

