

The Resilience of Structures in Times of Climate Change and its Implications for Human Safety



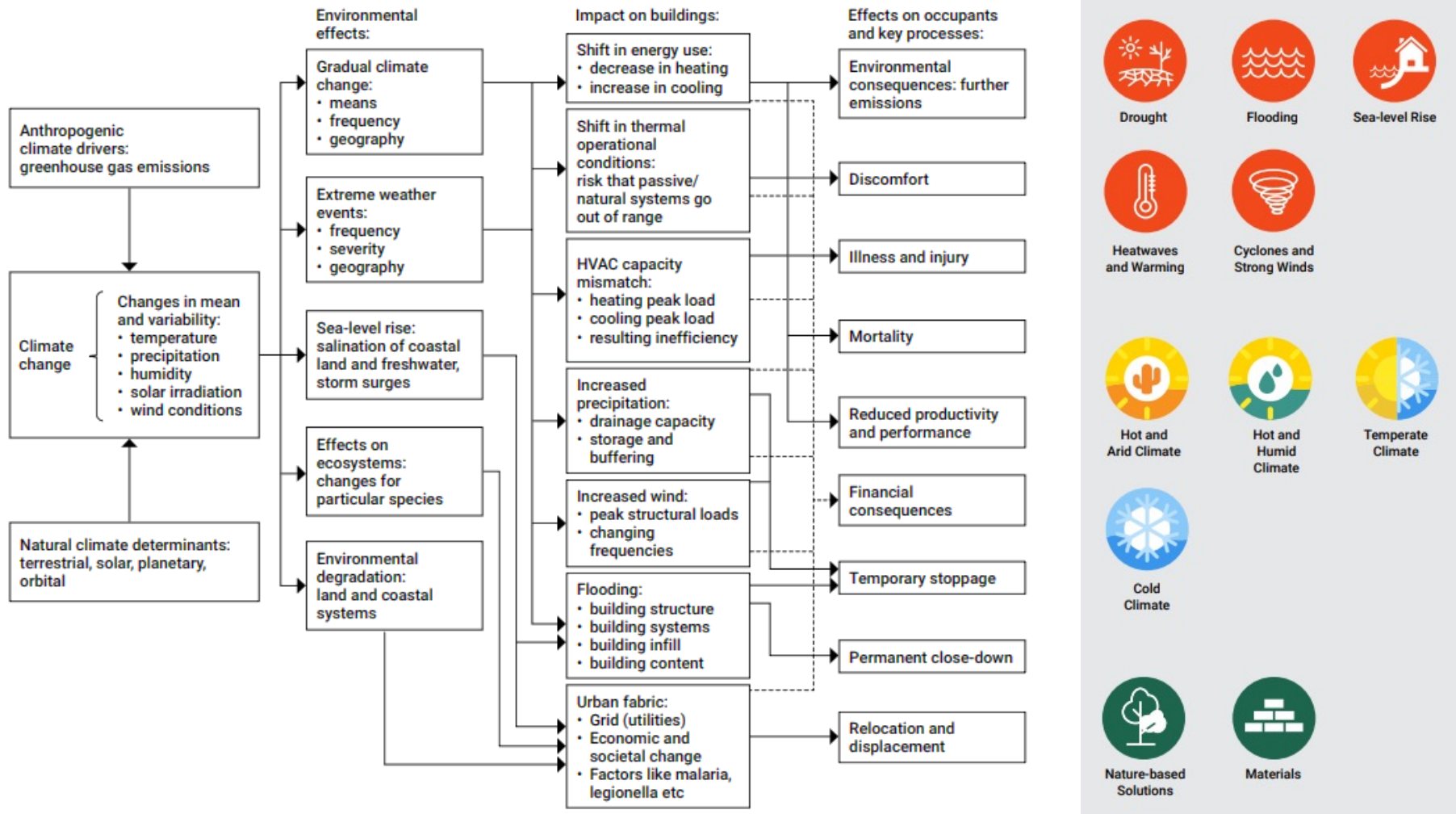
International Conference for Environment and Human Health,
Hong Kong Baptist University

Prof. Stefan Schäfer, M.Sc. Nikola Bisevac, Technical University of Darmstadt

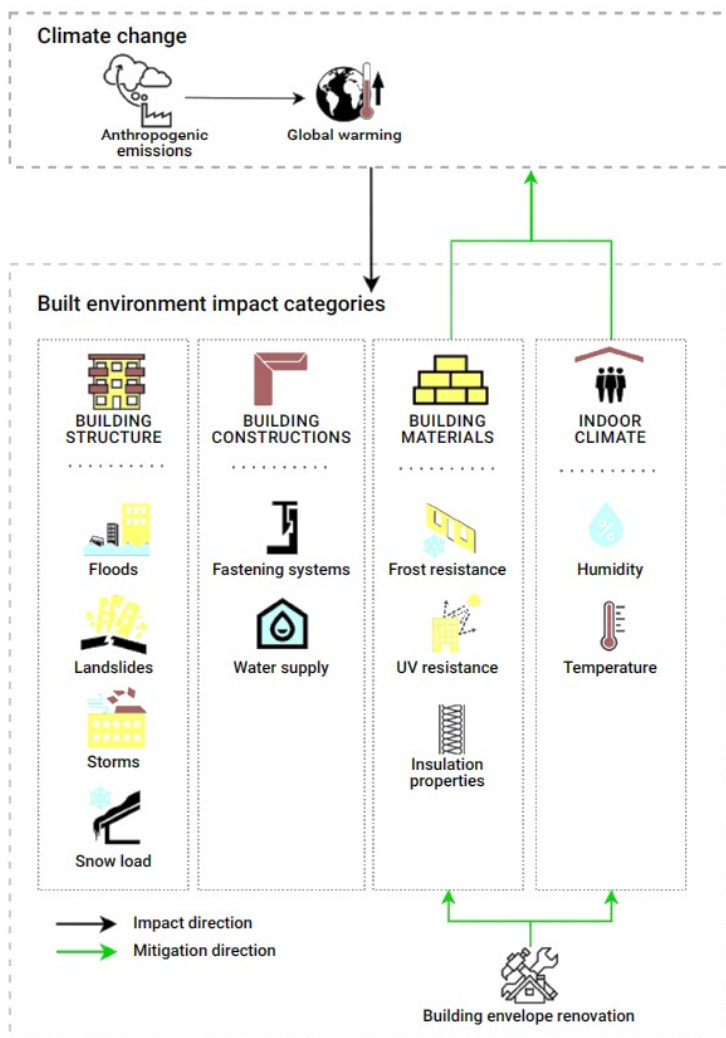


Introduction

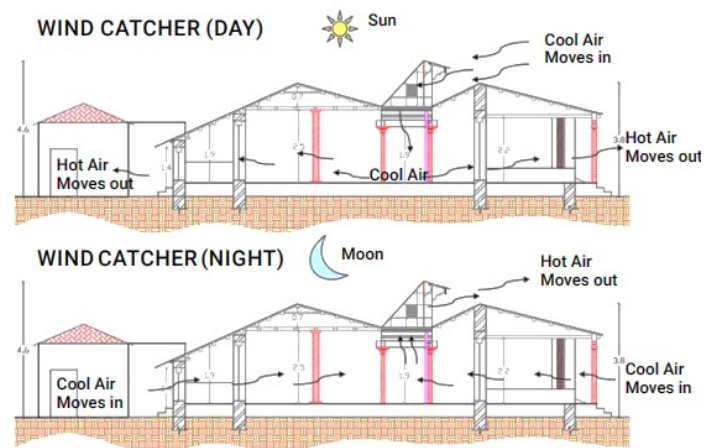
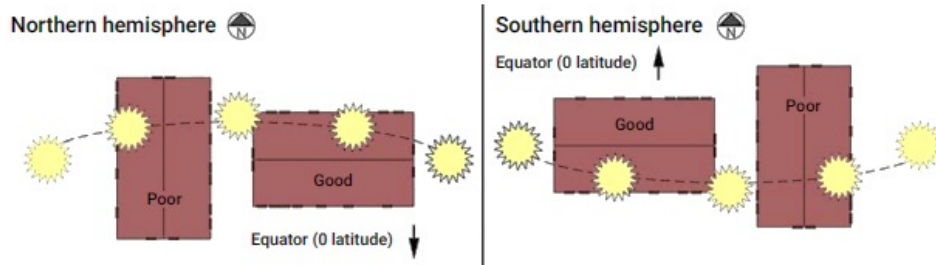
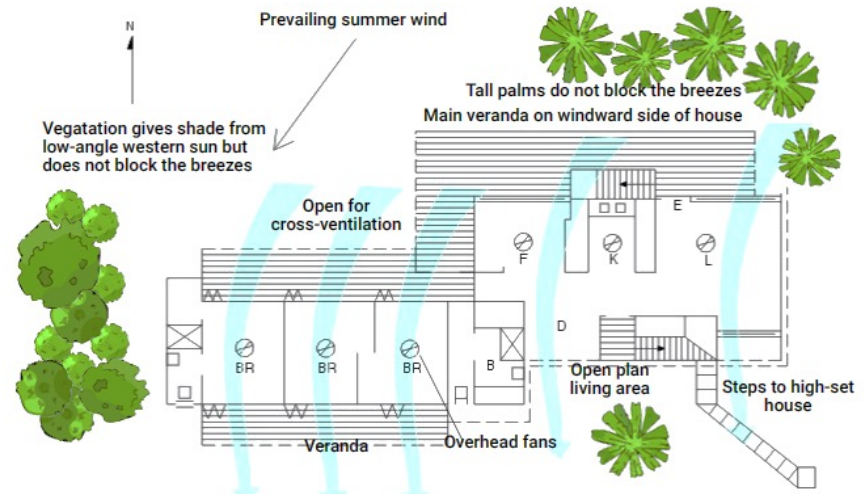
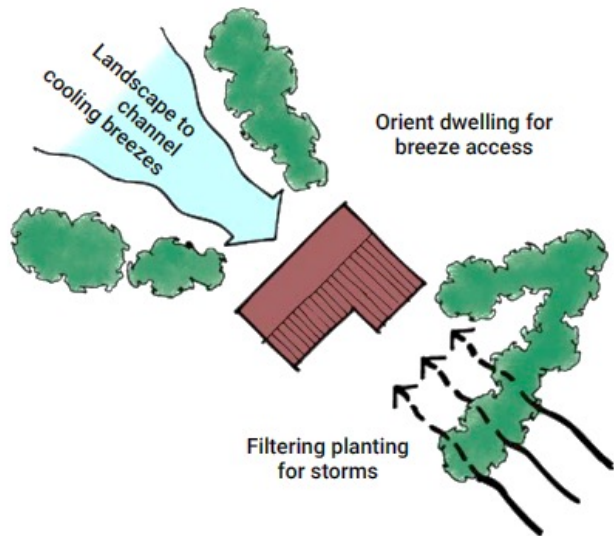
Challenging and impacts of a changing climate on the built environment



Theoretical overview of the concept of resilience



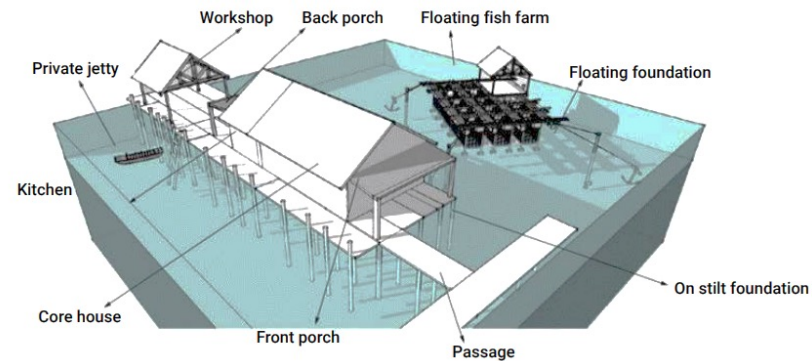
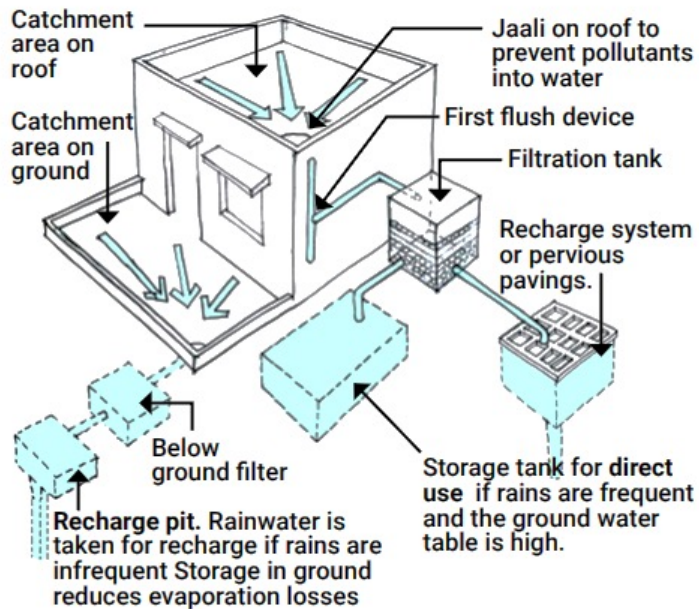
Nature-based resilience



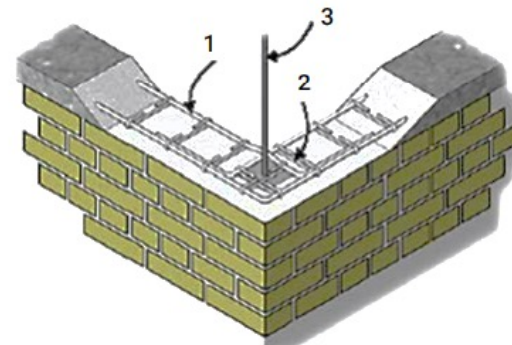
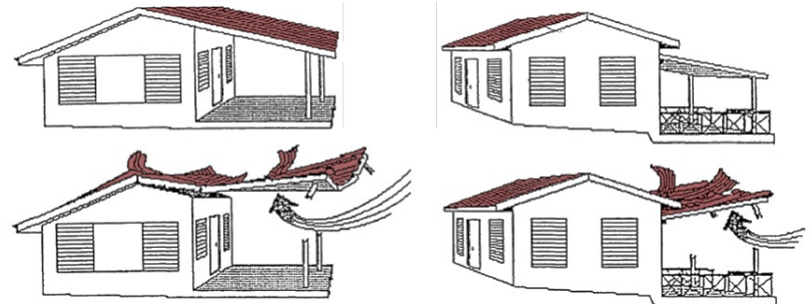
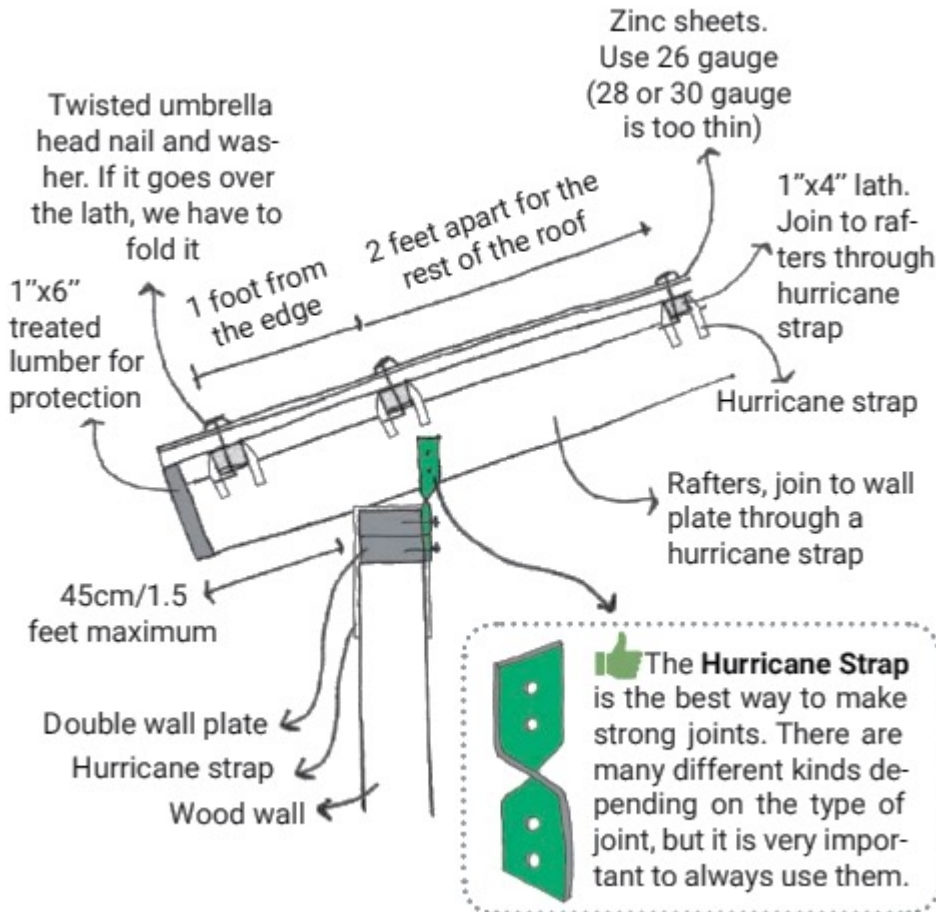
Adapting to stronger storms and flooding



RAINWATER HARVESTING AND RECHARGE SYSTEM



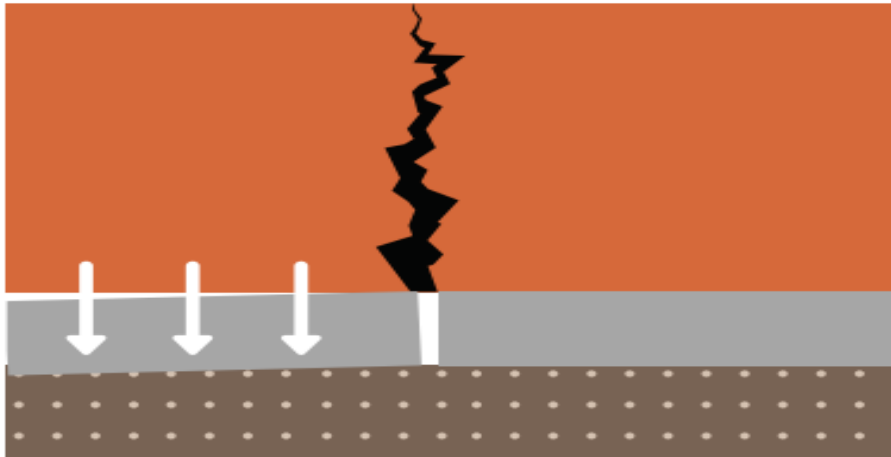
Frangible architecture or “planning for damage”



1. Longitudinal reinforcements
2. Lateral Ties
3. Vertical reinforcement as corners



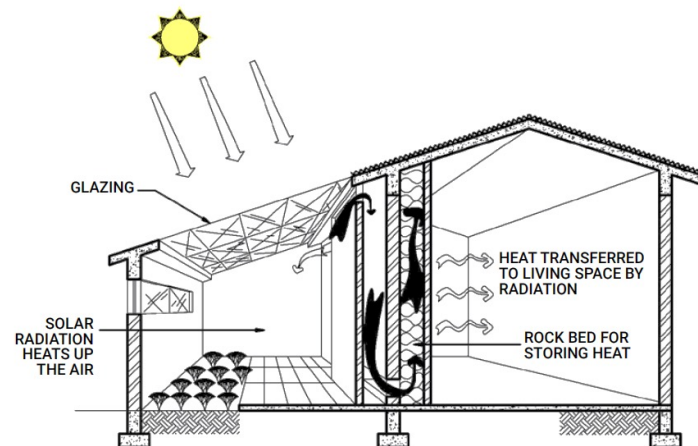
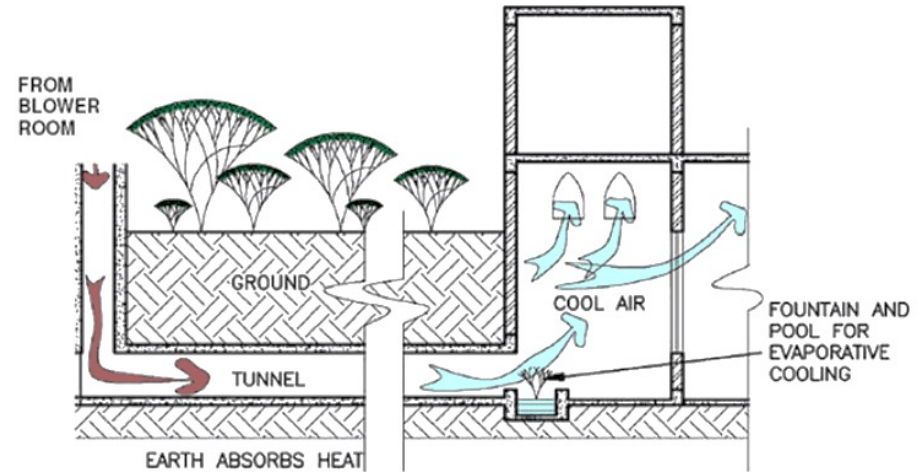
Triage design for rapid reconstruction after disasters



Conclusion, recommendations and next steps



TECHNISCHE
UNIVERSITÄT
DARMSTADT



Questions?



www.kgbauko.de

