

Using urban climate data to implement adaptation in the City of Munich

Veronika Wirth, Teresa Zölch

City of Munich, Department of Health and Environment

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Climate change has already impacts on the city of Munich, Germany, and further impacts are expected. Observed and expected is an increase of the average air temperatures as well as intensity and frequency of heat events. Also expected is an increase in heavy rain events. As Munich is at the same time a rapidly growing city it is a great challenge to accommodate both this densification and favourable urban climate conditions. Therefore, the city has developed a climate change adaptation strategy and action plan that was adopted by the city council in 2016. An important basis is data on urban climate and climate change from different projects and cooperations. However, the integration of this knowledge into existing spatial planning instruments and processes is a challenge, especially when it comes to mastering the balance between enhancing urban green infrastructure and additional housing demand. The project „Future green city – climate resilient quarters in a growing city“ aims at developing recommendations on the implementation of green infrastructure for climate resilient urban development. It uses climate data to quantify and evaluate the benefits of green infrastructure for climate adaptation and identifies planning instruments suitable for strengthening its implementation. The project is conducted by an interdisciplinary consortium of the City of Munich, Technical University of Munich, University of Munich and Institute for Ecological Economy Research and financed by the German Federal Ministry of Education and Research.