



Geographies
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Climate change related urban transformation and the role of cultural heritage
Matthias Ripp & Christer Gustafsson (Eds.)

Proven solutions
The medium technology of the building cultural heritage

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Abstract

This paper deals with the huge sustainability potential of our building heritage. On the basis of current research projects, it is shown how historical solutions for building conditioning can be recorded, evaluated and refined using the methods of applied building research. In the course of climatic changes, the requirements of building conditioning shifts increasingly from heating to cooling. From this point of view traditional building envelopes and cooling systems gain importance, also in the global north.

As an alternative to the currently favored high-tech innovation of "smart buildings" and their technological consequences, targeted ex-novation in the form of re-implementation of technologies proven in the past could prove to be more sustainable in the long term.

This does not mean a "back to the Stone Age," but rather the most comprehensive possible evaluation process of medium technologies and their long-term efficiency potential. Mid-range technologies, which have already proven their functionality over centuries, hold the potential for a climate-compatible technological turnaround that can be implemented worldwide on the basis of mankind's building heritage.

Keywords: Simple smart buildings, built cultural heritage, sustainable buildings, building innovations, medium technology

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