



Fostering Urban Climate Adaptation via a smartphone app: the Urban ClimAdApp for Amsterdam (Netherlands)

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Currently, many cities are facing adverse urban climate effects such as urban heat problems and wind nuisance that need adaptation. Despite the available knowledge on suitable adaptation measures, limited adaptation measures are actually implemented.

Measures to counteract urban climate problems consist of small-scale interventions, or larger scale urban planning strategies. Hence, different target groups have to implement spatial adaptation interventions in the urban fabric. House owners can implement small scale interventions around their properties and designers of public spaces can implement small scale solutions in public spaces. Urban planners can implement measures on the large scale of city planning.

To inspire and facilitate concrete climate adaptation, and to make information easily accessible, we developed the Urban ClimaAdApp smartphone App for Amsterdam. This app, intended for house owners and public space designers, shows high resolution urban climate maps, indicating urban climate problems and potentials for improvement. The urban climate map was inspired by the Local Climate zone system and a desk study on wind issues. Additionally, the Urban ClimaAdApp provides location specific adaptation recommendations based on the degree of urgency to take action (e.g. implementing urban greening, providing wind shelter, etc.). These interventions are described with photographs and according to their efficacy, relative costs and maintenance. The Urban ClimaAdApp bridges the gap between science and adaptation practice. The urban climate map communicates the existing problems and potentials in a visual way. The design and planning recommendations are communicated in understandable language, with pictures and simple icons.