



Doctoral Dissertation.
Interuniversity Doctoral Program in
Urban and Regional Development (38° Cycle)

Toward the Healthy City. Planning for climate justice: a workflow to support project areas selection and design scenarios choice

Elisa BIOLCHINI

Supervisor(s):
Prof. Riccardo Pollo, Supervisor
Prof. Giuseppe Mandrone, Co-Supervisor

Abstract

The concept of Healthy City involves many aspects of urban context and the microclimatic conditions that affect the comfort of people are obviously part of it. Climate change is causing many extreme heat phenomena, like Urban Heat Islands and Heat Waves, that need to be urgently addressed to minimise the health risks, especially for vulnerable people, and to improve the quality of outdoor spaces.

The research aims to identify how tools such as analysis, modelling, simulation and visualisation software can be an efficient and effective support to microclimate planning. Specifically, the goal is to give decision makers guidelines to facilitate the workflow to select both the project area and the strategies to implement, especially to address risks related to extreme heat for vulnerable people.