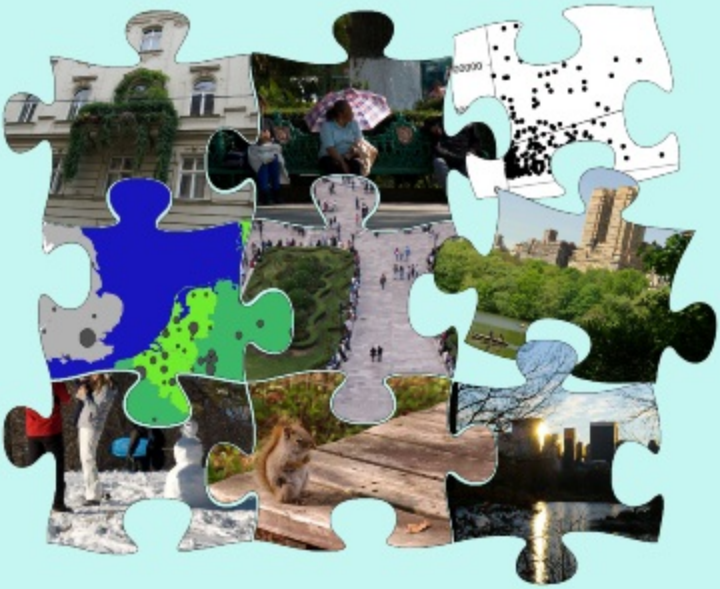

# HUMAN-ENVIRONMENTAL INTERACTIONS IN CITIES

## CHALLENGES AND OPPORTUNITIES OF URBAN LAND USE PLANNING AND GREEN INFRASTRUCTURE

Edited by Nadja Kabisch, Neele Larondelle, Angela Reeve and Martina Artmann

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# CHAPTER EIGHT

# CORRELATION BETWEEN ENVIRONMENTAL TRAITS AND PHYSIOLOGICAL STATE OF THE HOUSE SPARROW (*PASSER DOMESTICUS* L.) AS A MODEL OF URBAN SPECIES

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## Abstract

Urban ecosystems are very dynamic, creating a selective environment. Our objective is to evaluate the effect of land uses and air pollution on different populations of House Sparrow (*Passer domesticus*). This bird is strongly associated with urban environments, however in recent decades, population sizes have significantly decreased, particularly in large European cities.

Five different urban models were selected and each study area was characterised. These characterizations were correlated with the physiological