

UrbAlytics is a sub-project of the H2020-funded project Al-4Copernicus that aims to bridge Artificial Intelligence with Earth Observations, producing information layers that can support city planners and decision-makers in the context of climate resilience and related challenges in urban areas. This research investigates, thanks to the joint expertise of Latitudo 40 and LAND Research Lab[®], the Urban Heat Island (UHI) effect evaluating its impacts on cities, assessing Ecosystem Services provided by Blue and Green Infrastructures and proposing a set of NBS for climate adaptation and extreme heat mitigation.

01 / Heatwave Potential

Risk Index

Hazard

Exposure

(summer average

and age groups

Vulnerability

Building Density

Sky View Factor Shadow Depth

R = H x E x V

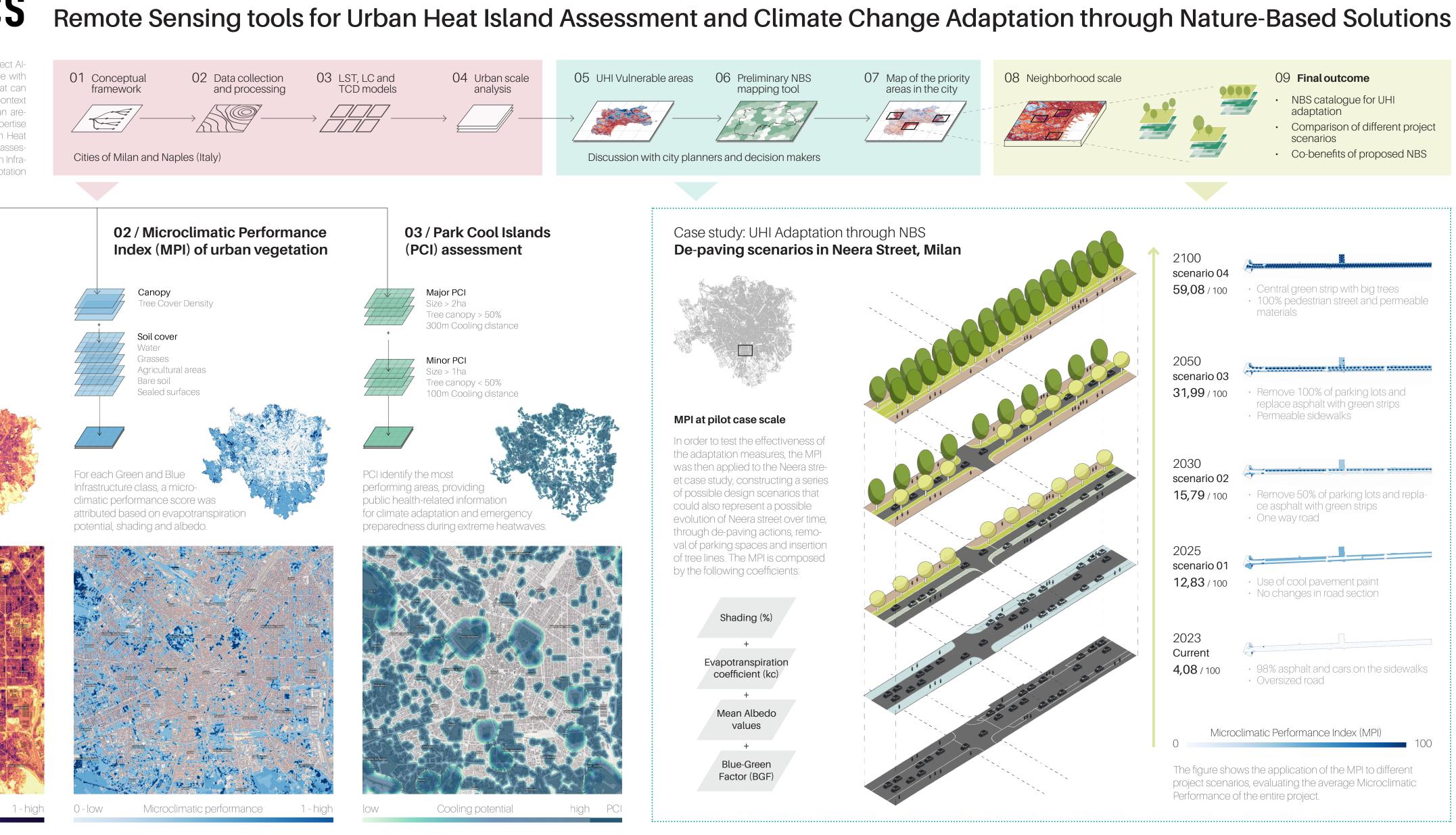
To evaluate the potential

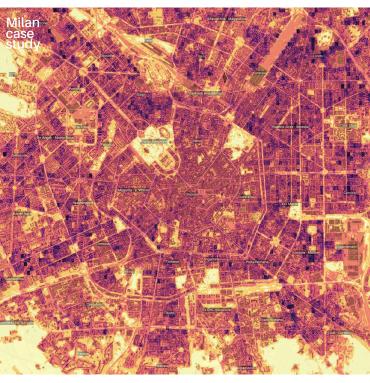
Risk, the parameters empha-

Exposure and Vulnerability.

sizing the UHI effect have been

taken into account, divided in Hazard,





Potential risk

0 - low



6th European Climate Change Adaptation Conference 2023

Winning project from the 4th Open Call funded by the AI4Copernicus Project





Andrea Balestrini – andrea.balestrini@landsrl.com **URBALYTICS** Giulia Castellazzi – giulia.castellazzi@landsrl.com

Giovanni Giacco – giovanni.giacco@latitudo40.com Mauro Manente – mauro.manente@latitudo40.com

Davide Pallotta – davide.pallotta@landsrl.com Mattia Rigiroli – mattia.rigiroli@latitudo40.com



