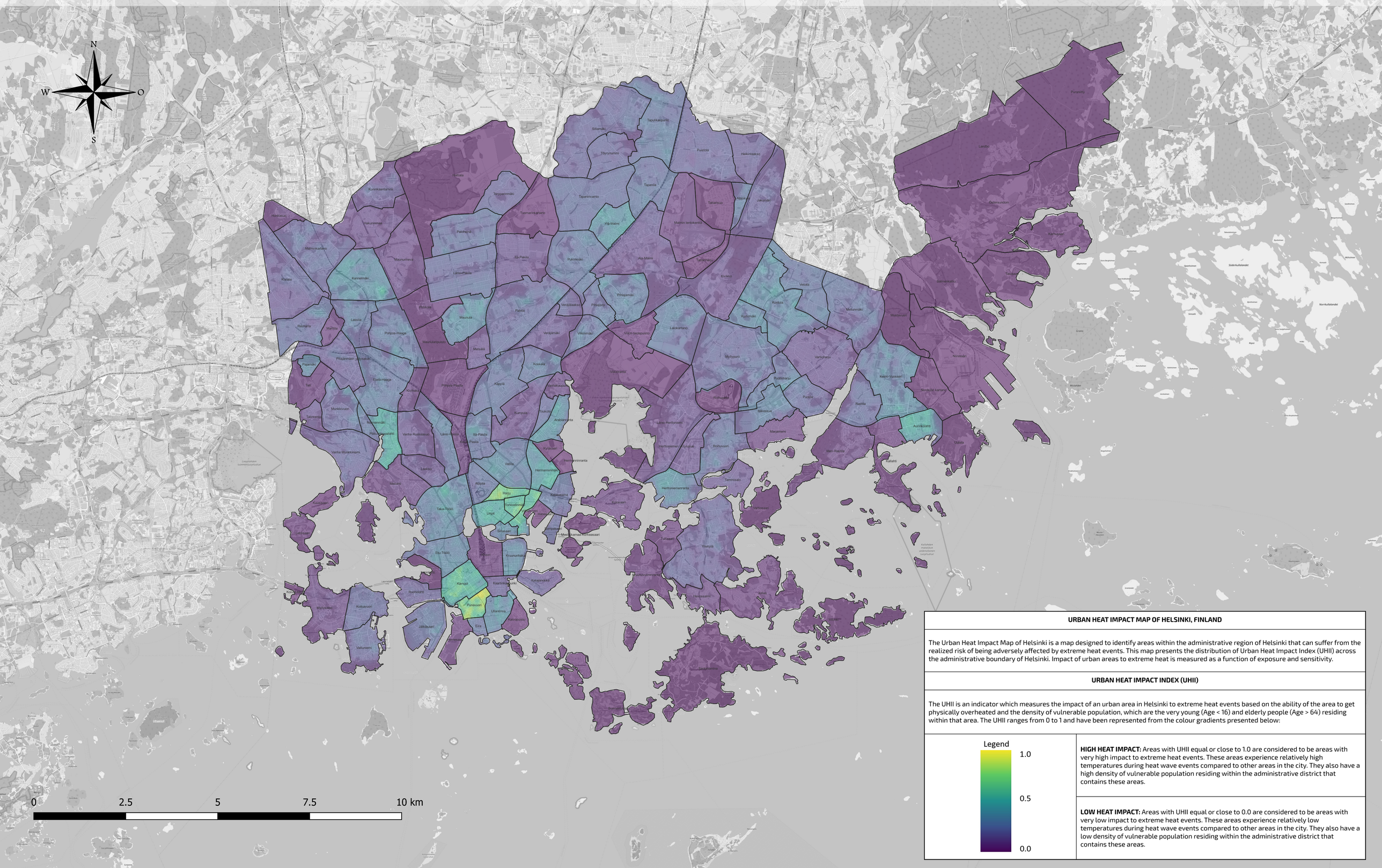
URBAN HEAT IMPACT MAP OF HELSINKI, FINLAND

ecoten
urban comfort



URBAN HEAT IMPACT MAP OF HELSINKI, FINLAND

The Urban Heat Impact Map of Helsinki is a map designed to identify areas within the administrative region of Helsinki that can suffer from the realized risk of being adversely affected by extreme heat events. This map presents the distribution of Urban Heat Impact Index (UHII) across the administrative boundary of Helsinki. Impact of urban areas to extreme heat is measured as a function of exposure and sensitivity.

URBAN HEAT IMPACT INDEX (UHII)

The UHII is an indicator which measures the impact of an urban area in Helsinki to extreme heat events based on the ability of the area to get physically overheated and the density of vulnerable population, which are the very young (Age < 16) and elderly people (Age > 64) residing within that area. The UHII ranges from 0 to 1 and have been represented from the colour gradients presented below:

Legend

1.0

0.5

0.0

HIGH HEAT IMPACT: Areas with UHII equal or close to 1.0 are considered to be areas with very high impact to extreme heat events. These areas experience relatively high temperatures during heat wave events compared to other areas in the city. They also have a high density of vulnerable population residing within the administrative district that contains these areas.

LOW HEAT IMPACT: Areas with UHII equal or close to 0.0 are considered to be areas with very low impact to extreme heat events. These areas experience relatively low temperatures during heat wave events compared to other areas in the city. They also have a low density of vulnerable population residing within the administrative district that contains these areas.