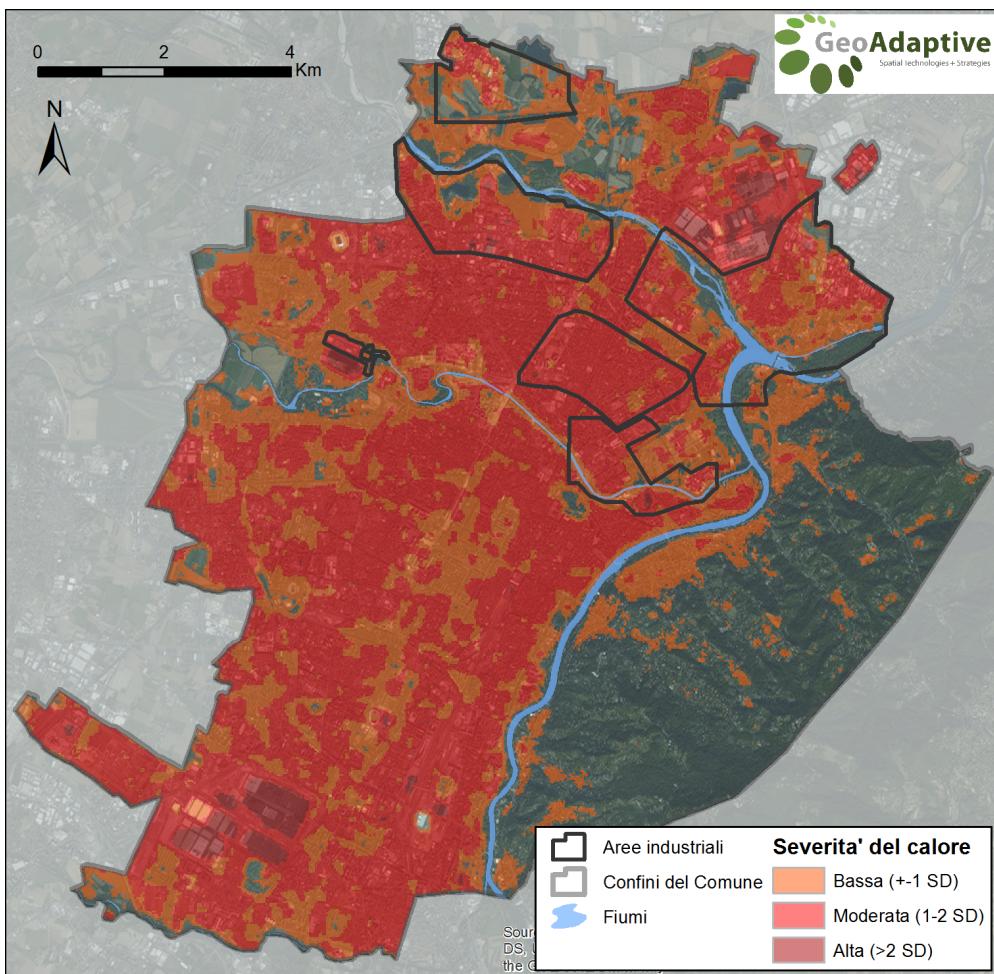


Urban Heat Island

Below is a brief summary of the distribution of the Urban Heat Island effect hazard in Turin, department of Piemonte, in Italy .



In order to define the hazard level for different temperature ranges resulting from the UHI analysis, the variability of the data was assessed based on standard deviation from the mean. Areas more than one standard deviation below the mean temperature (for the extreme events considered) were considered to have no hazard threat.

The high hazard areas are concentrated around two main clusters of industrial buildings: around the Fiat complex to the southwest, and near the IVECO complex to the northeast. Much of the developed areas of the city are within the moderate hazard area, including a majority of the six industrial areas studied in the DERRIS project.

1) HEAT HAZARD SEVERITY

Low (< 1 SD): 34,52 km²

Moderate (1-2 SD): 56,70 km²

High (>2 SD): 2,75 km²

2) LANDUSE TEMPERATURES

Factories: 41.5 ° C

Residencial: 39.2 ° C

Urban green space: 38.1 ° C

Park: 34.3 ° C

Rivers: 31.4 ° C

* This data was obtained from internal analysis