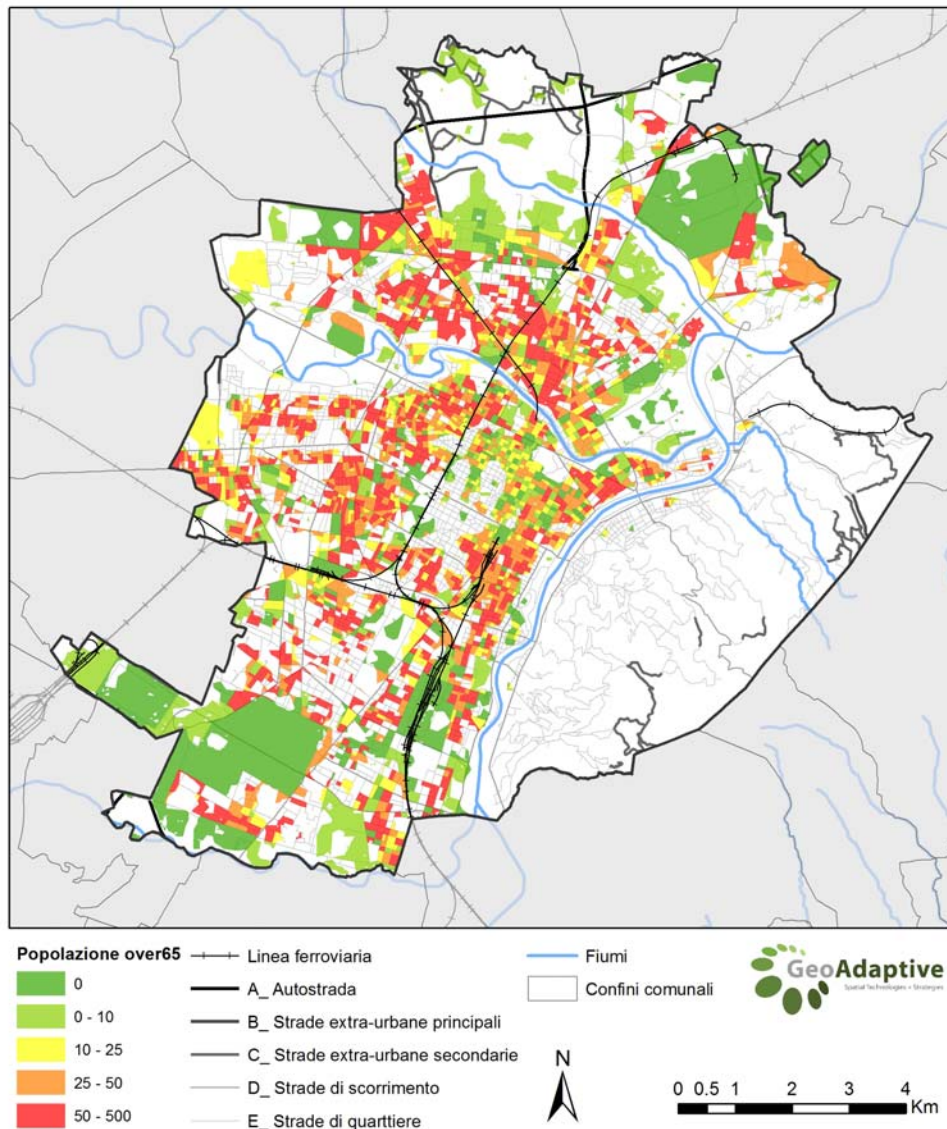


Exposure

DMS Lat 45° 6' 58.2372" N, DMS Long 7° 44' 33.4140" E



Below is a brief summary of human and infrastructure exposure to Urban Heat Island effect in Turin, department of Piemonte, in Italy .



An exposure analysis was developed in order to identify the population exposed and the infrastructures. Each portfolio was spatially overlaid with the UHI map in the GIS to determine where and to what degree each system is exposed. Exposure maps were generated in order to help guide development decisions in the future. Almost the entire population of the city is exposed to the UHI, in fact in the area not exposed to the risk there is no residential population.

The most exposed districts are: 3, 7, 8

1) INFRASTRUCTURES EXPOSED

Hospitals: 24
Administrative offices: 133
Schools: 444
Shops: 23.503
Social housing: 93

2) POPULATION EXPOSED

Elders (over 65): 141.116
Women (over 65): 90.750
Children (under 5): 28.200
People exposed (total): 260.066

3) MOST EXPOSED AREAS

District 3 [id 3]:

Hospitals: 8	Elders (over 65): 9.716
Administrative offices: 23	Women (over 65): 6.332
Schools: 87	Children (under 5): 1.866
Shops: 2.573	People exposed (total): 17.914
Social housing: 93	

District 7 [id 7]:

Hospitals: 6	Elders (over 65): 11.343
Administrative offices: 31	Women (over 65): 8.504
Schools: 54	Children (under 5): 2.234
Shops: 3.632	People exposed (total): 22.081
Social housing: 93	

District 8 [id 8]:

Hospitals: 4	Elders (over 65): 14.616
Administrative offices: 22	Women (over 65): 10.324
Schools: 34	Children (under 5): 3.247
Shops: 1.403	People exposed (total): 28.187
Social housing: 93	

* This data was obtained from internal analysis