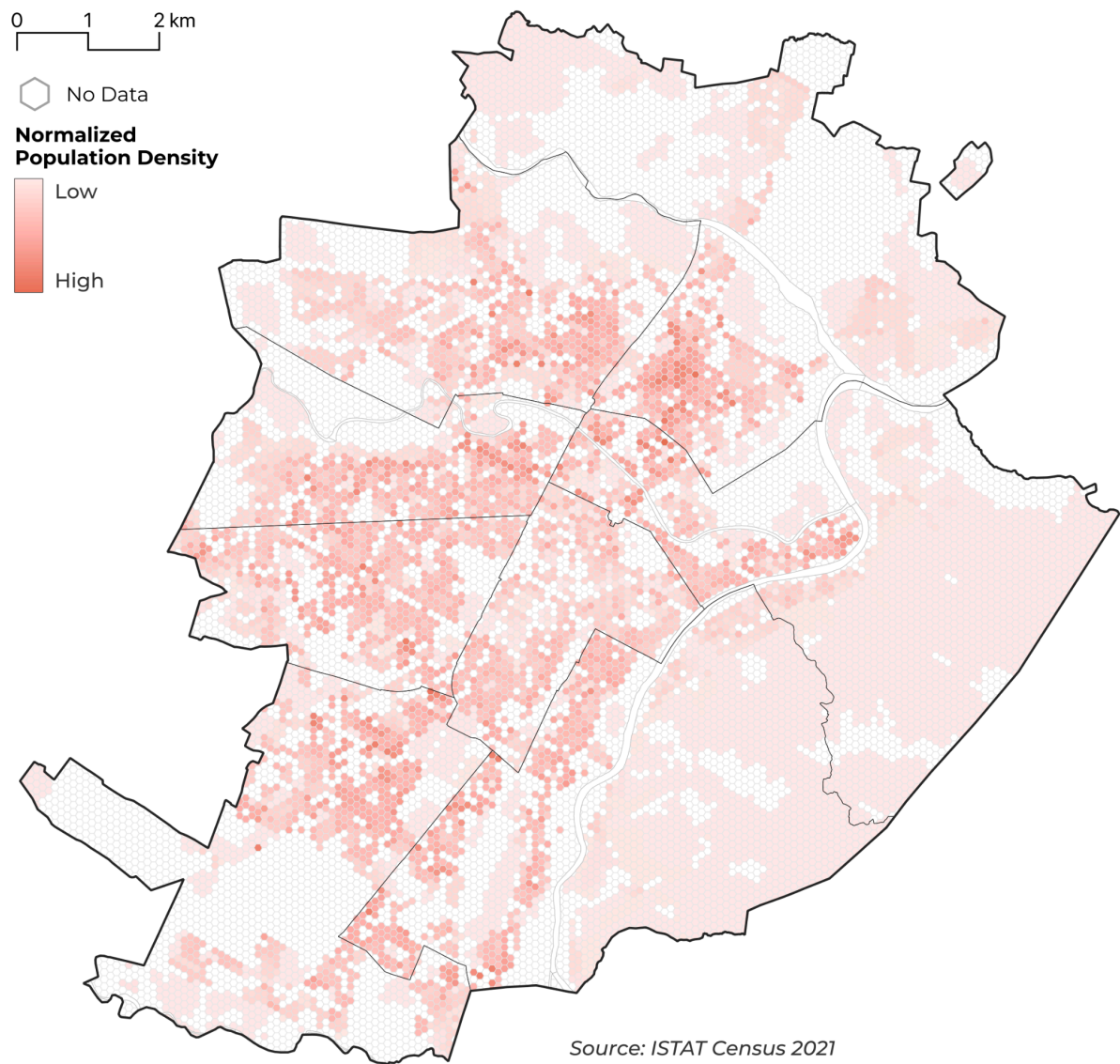


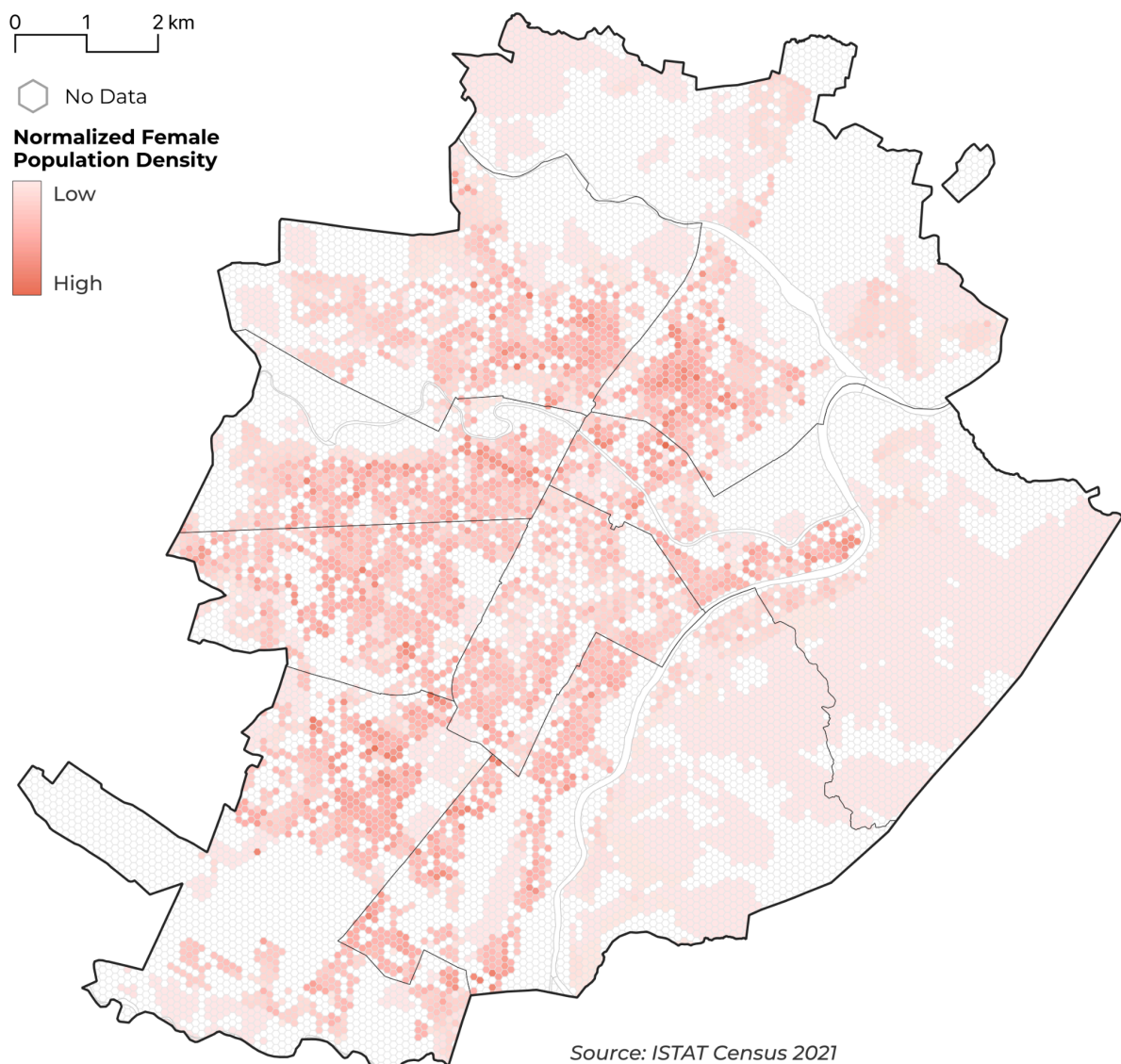
Population Density in Turin

Description	Number of people living in each neighborhood area
Relevance to Urban Heat Vulnerability	Areas with more people need more cooling resources and represent priority zones for climate shelters



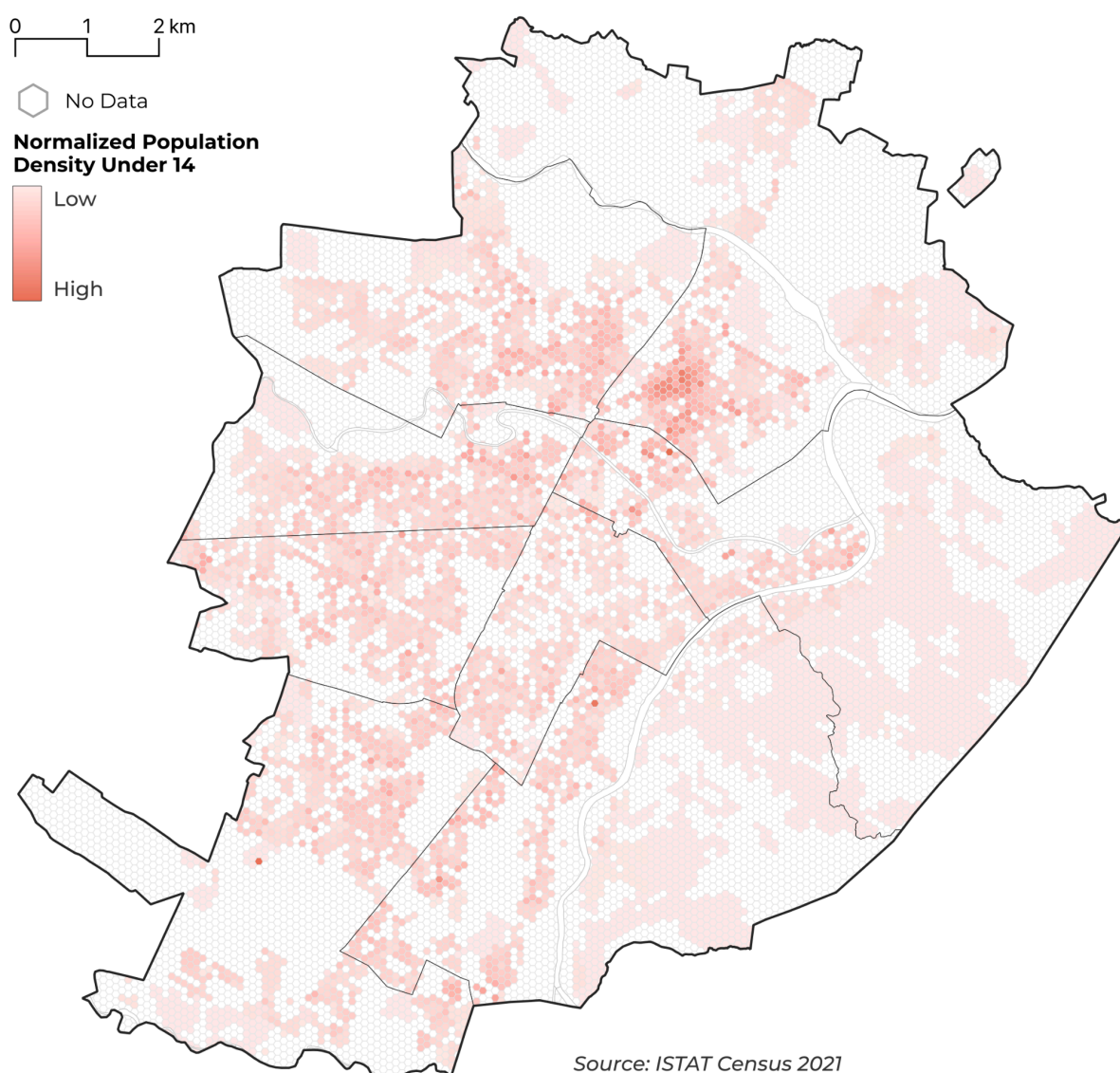
Female Population Density in Turin

Description	Concentration of women in each neighborhood
Relevance to Urban Heat Vulnerability	Research shows women face higher heat-related health risks due to physiological and social factors



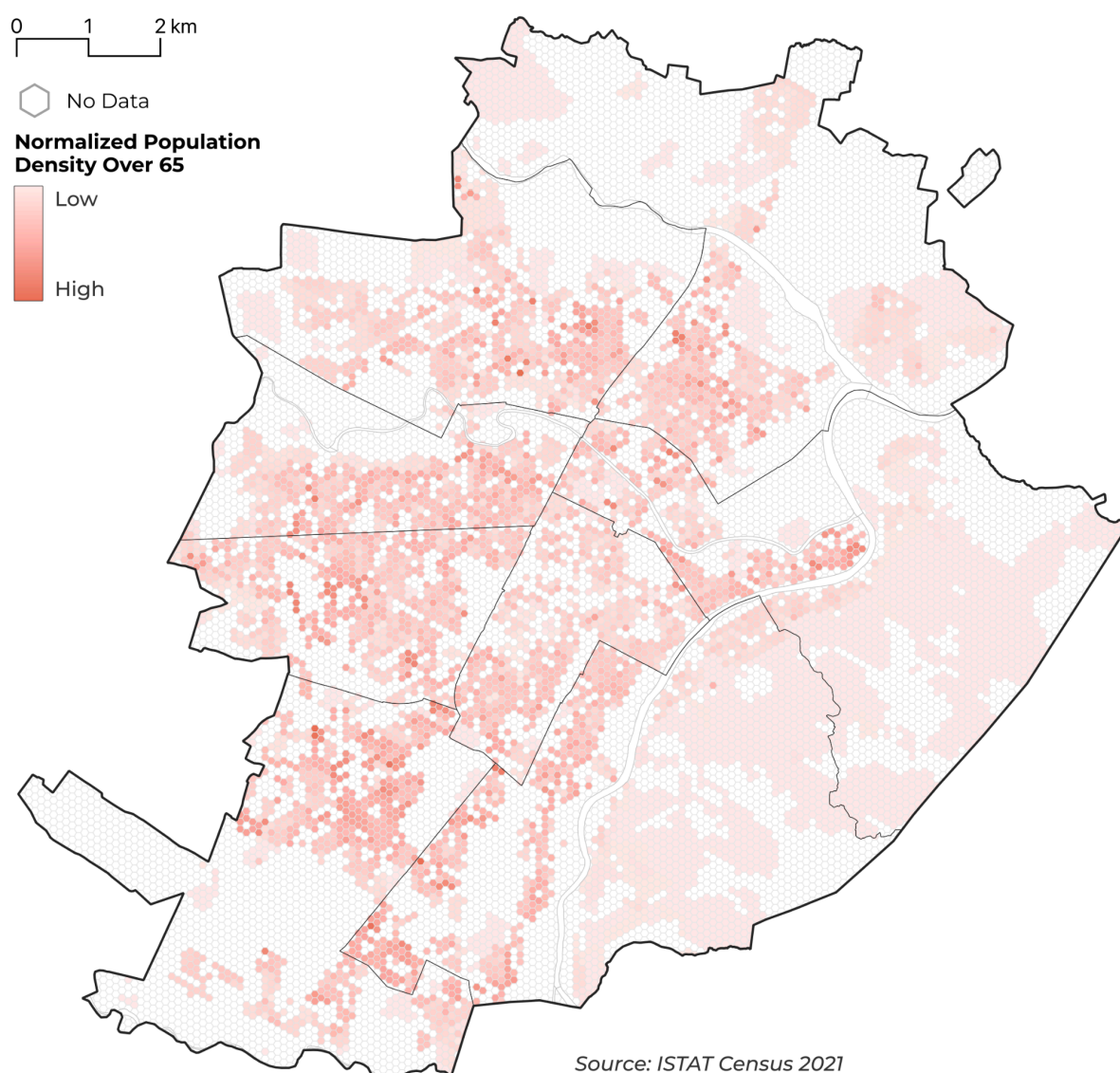
Population Density Under 14 in Turin

Description	Where families with young children live most densely
Relevance to Urban Heat Vulnerability	Children cannot regulate body temperature as well as adults and depend on others for protection during heat waves



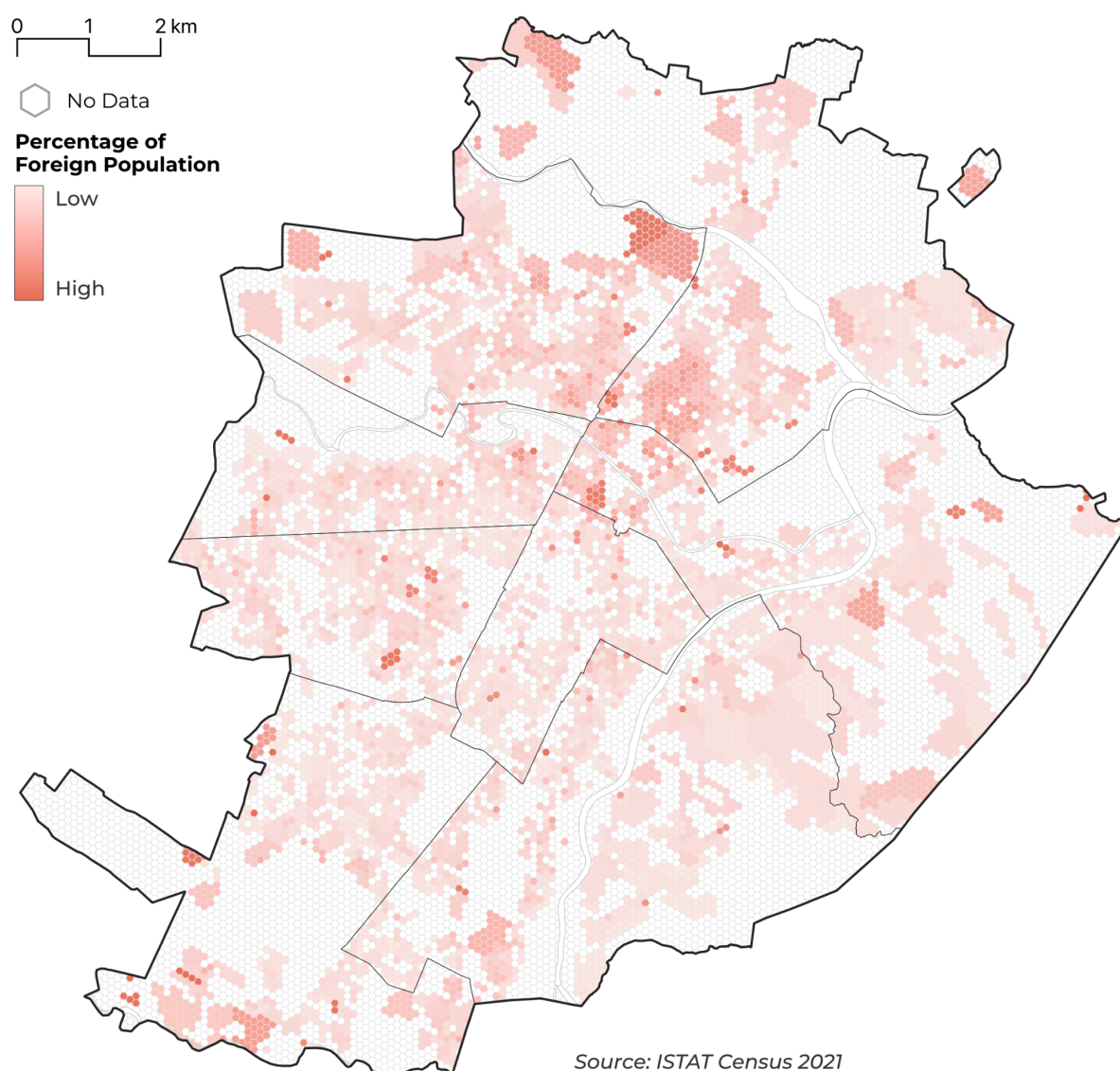
Population Density Over 65 in Turin

Description	Concentration of older adults in each area
Relevance to Urban Heat Vulnerability	Older adults have reduced ability to cope with extreme heat and higher risk of heat-related illness



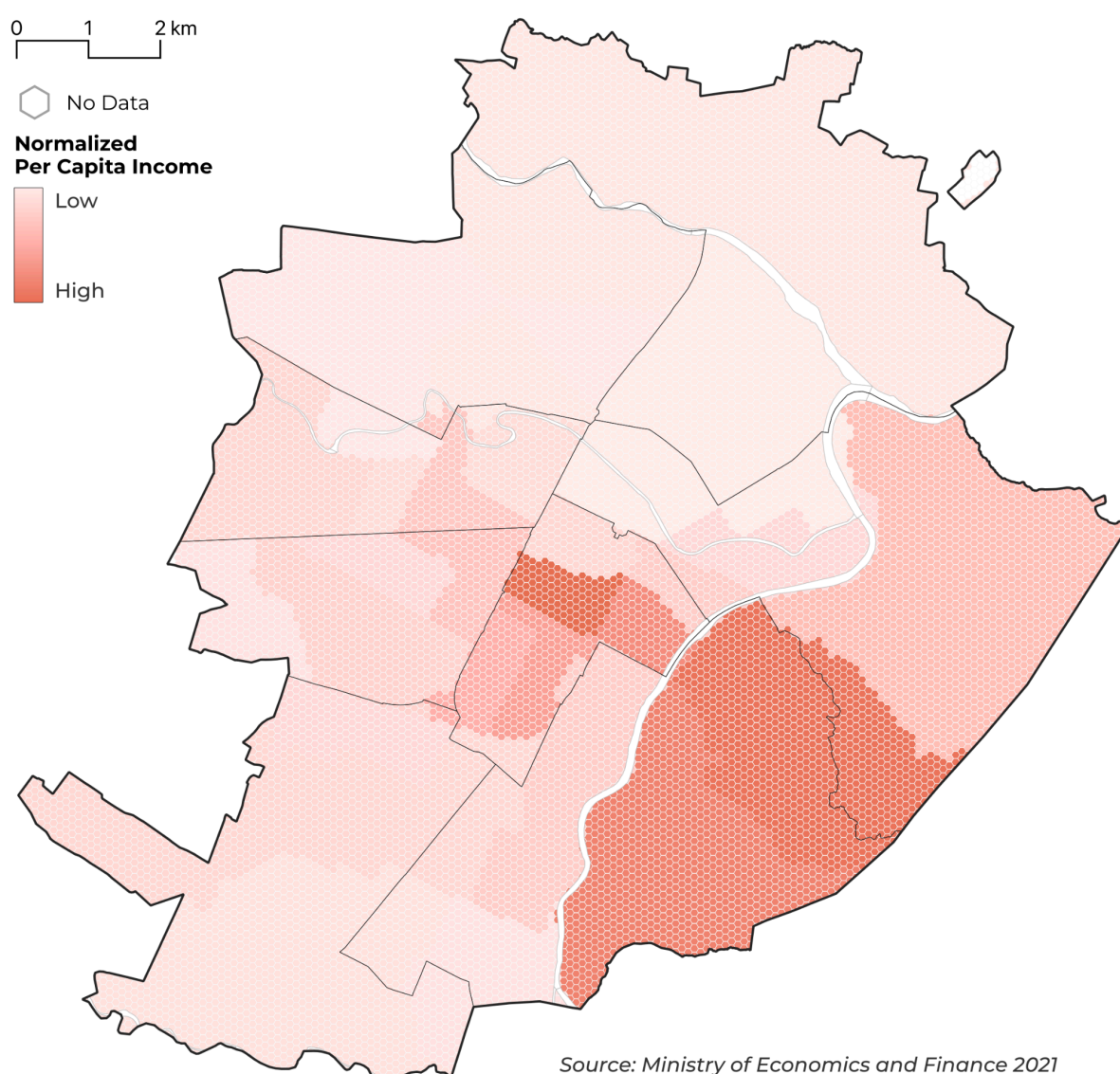
Foreign Population Percentage in Turin

Description	Percentage of non-Italian residents in each neighborhood
Relevance to Urban Heat Vulnerability	Recent immigrants often have lower incomes, language barriers, and less knowledge about local cooling resources



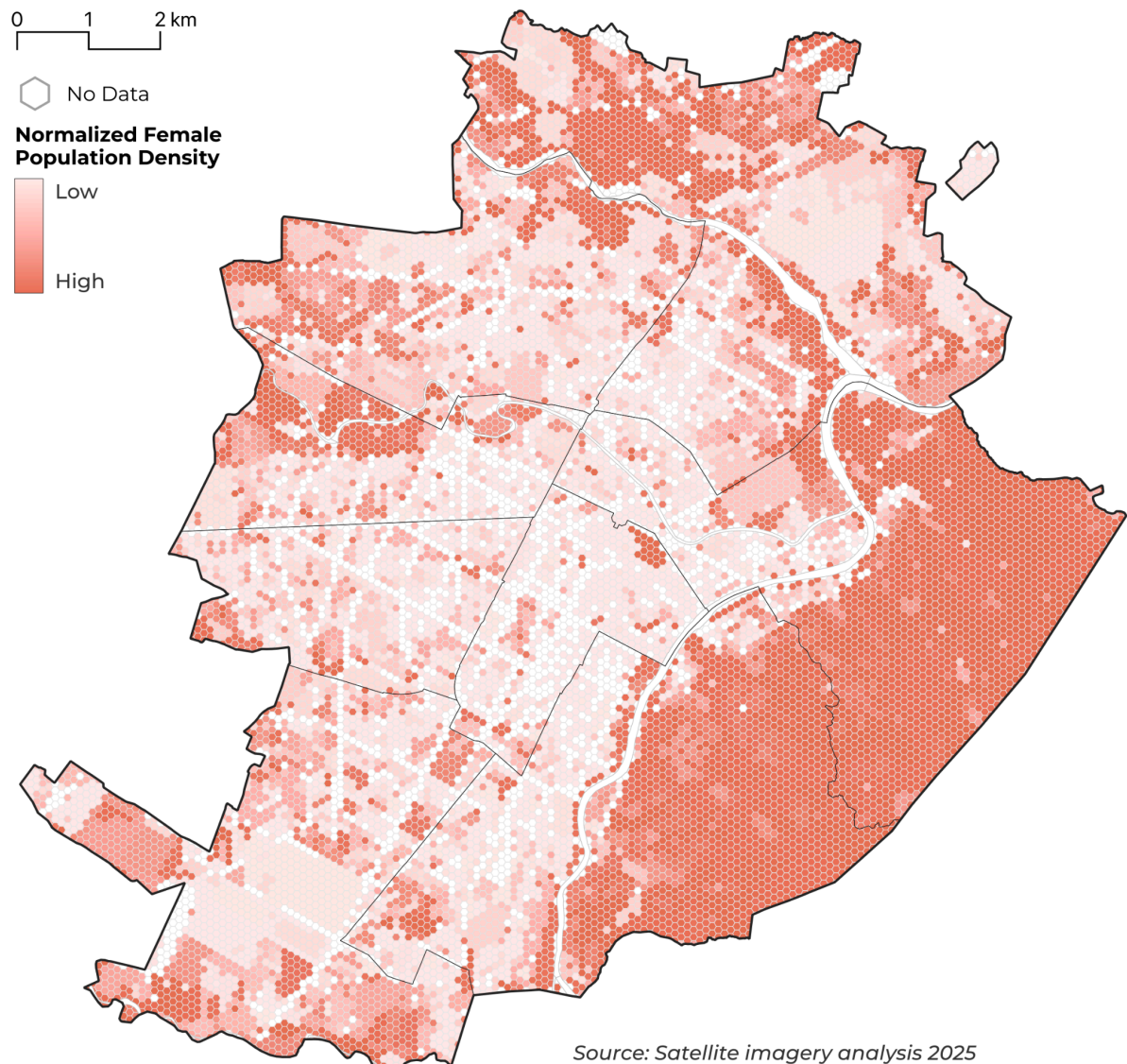
Per Capita Yearly Income in Turin

Description	Average yearly income per person by postal zone
Relevance to Urban Heat Vulnerability	Lower income families often live in poorly insulated homes without air conditioning and cannot afford private cooling solutions



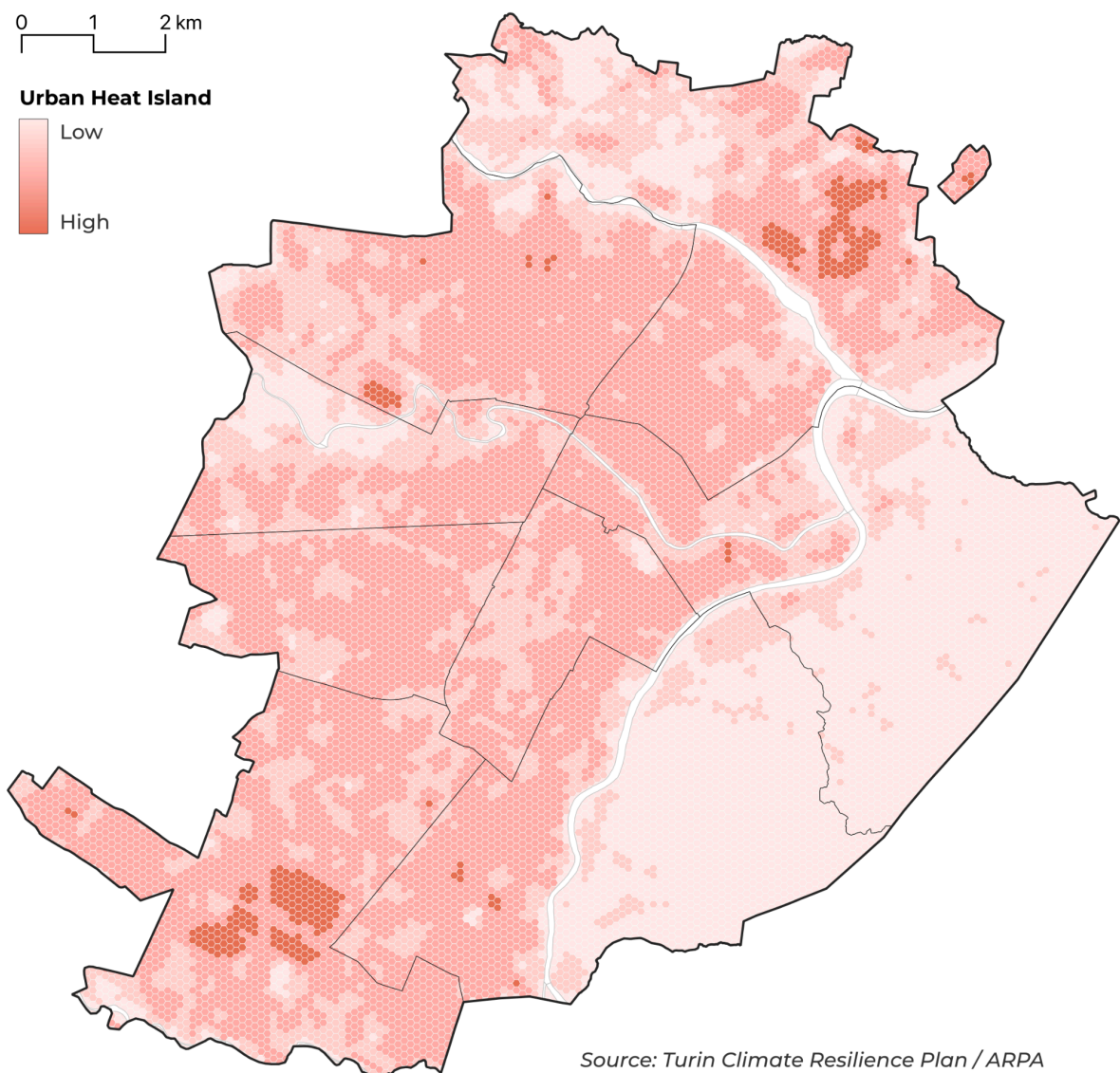
Normalized Difference Vegetation Index (NDVI) in Turin

Description	How healthy and dense vegetation is across the city
Relevance to Urban Heat Vulnerability	More vegetation means more shade and natural cooling through evaporation from leaves, reducing local temperatures



Urban Heat Islands in Turin

Description	Areas where temperatures are hotter than surrounding zones
Relevance to Urban Heat Vulnerability	These "heat island" areas become dangerously hot during heat waves, requiring priority attention for cooling solutions



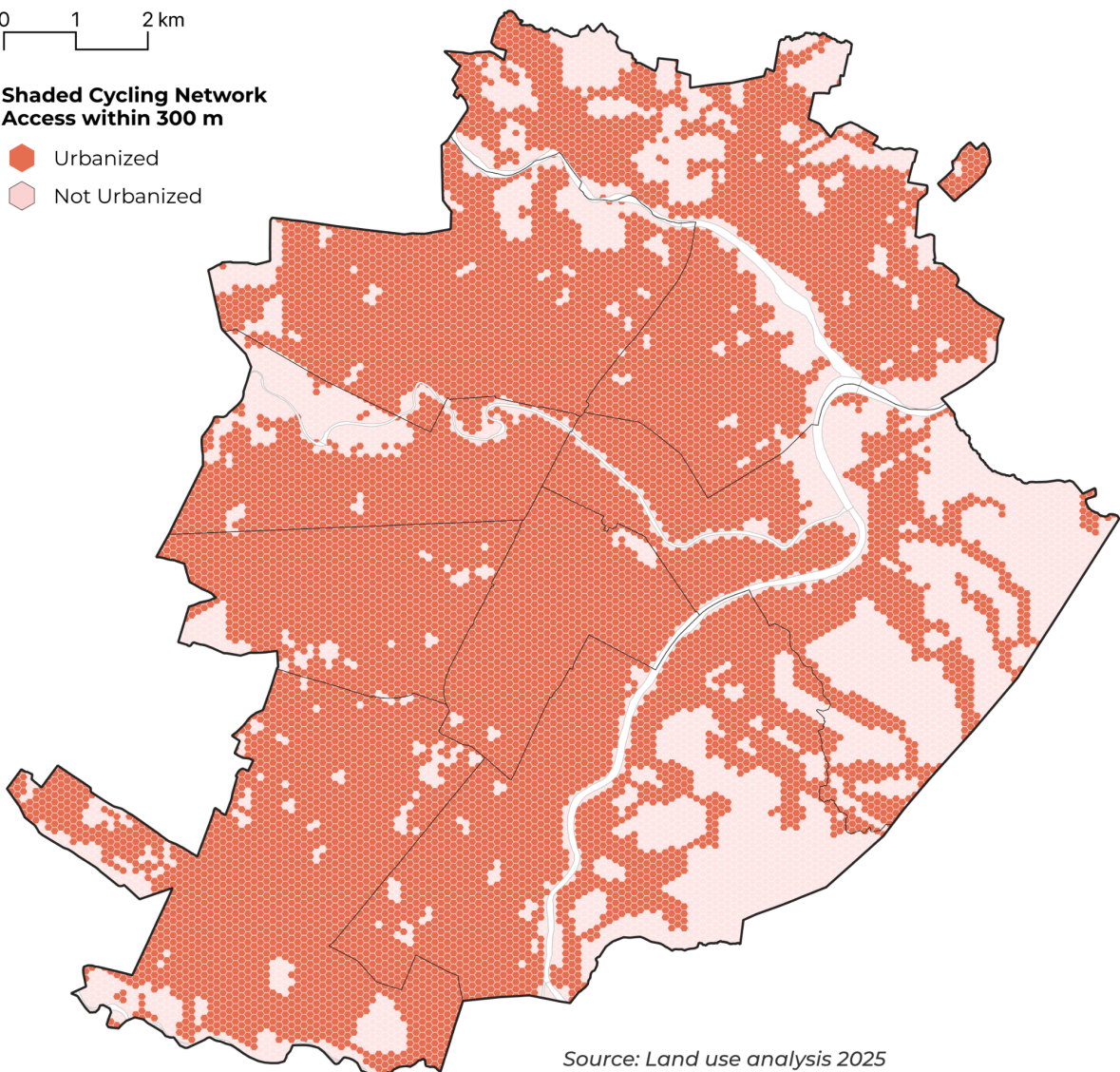
Urbanized Areas in Turin

Description	Which parts of the city are covered by buildings and pavement versus natural surfaces
Relevance to Urban Heat Vulnerability	Sealed surfaces absorb and store heat all day, then release it at night, making these areas much hotter than natural areas

0 1 2 km

**Shaded Cycling Network
Access within 300 m**

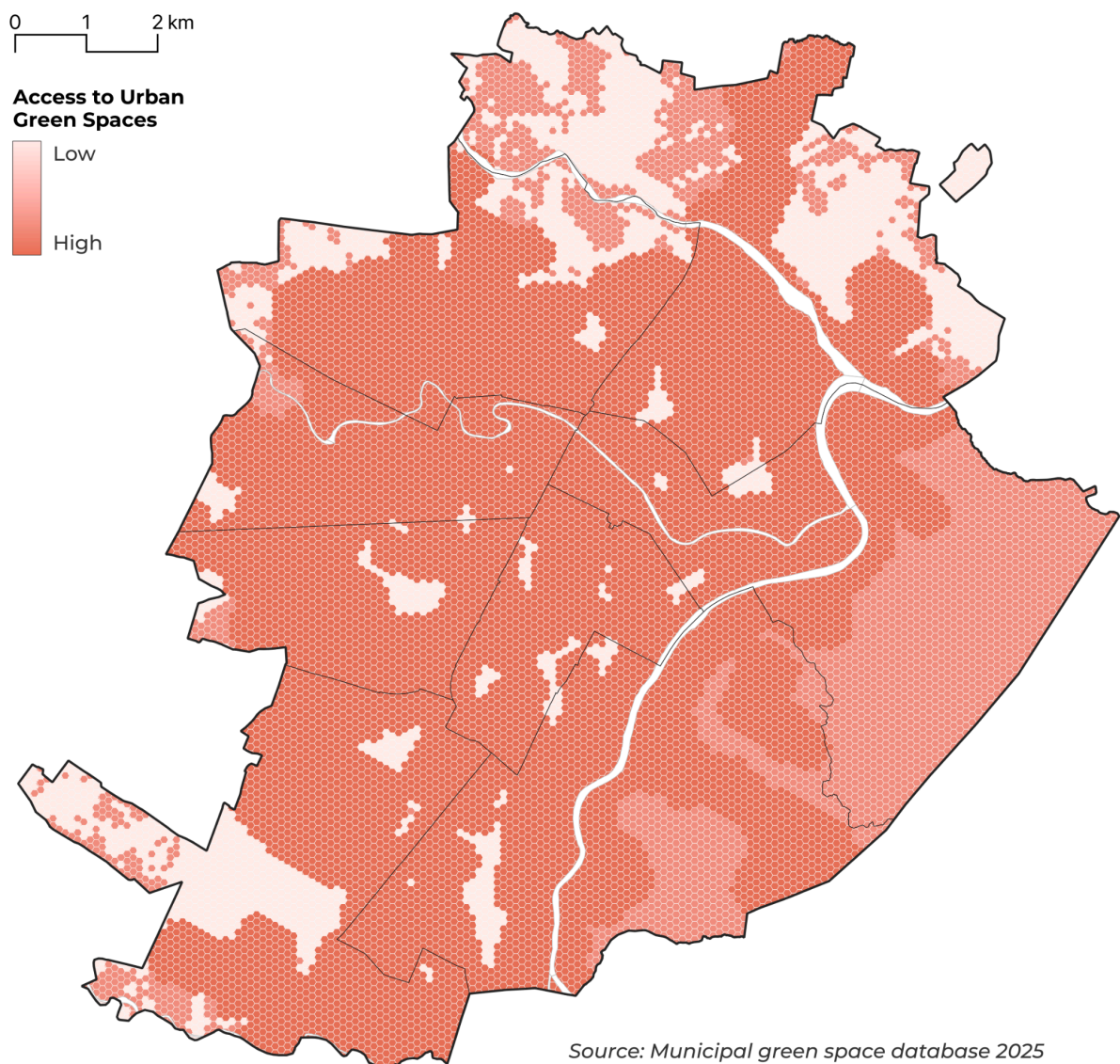
- Urbanized
- Not Urbanized



Source: Land use analysis 2025

Access to Urban Green Spaces in Turin

Description	How close residents live to parks and natural areas
Relevance to Urban Heat Vulnerability	Parks and green spaces stay cooler than built areas and provide refuge during heat waves, but only if people can easily reach them



Access to Public Fountains in Turin

Description	How close residents live to public water sources
Relevance to Urban Heat Vulnerability	During heat waves, access to free drinking water is essential for preventing dehydration and as a cooling source to prevent heat strokes

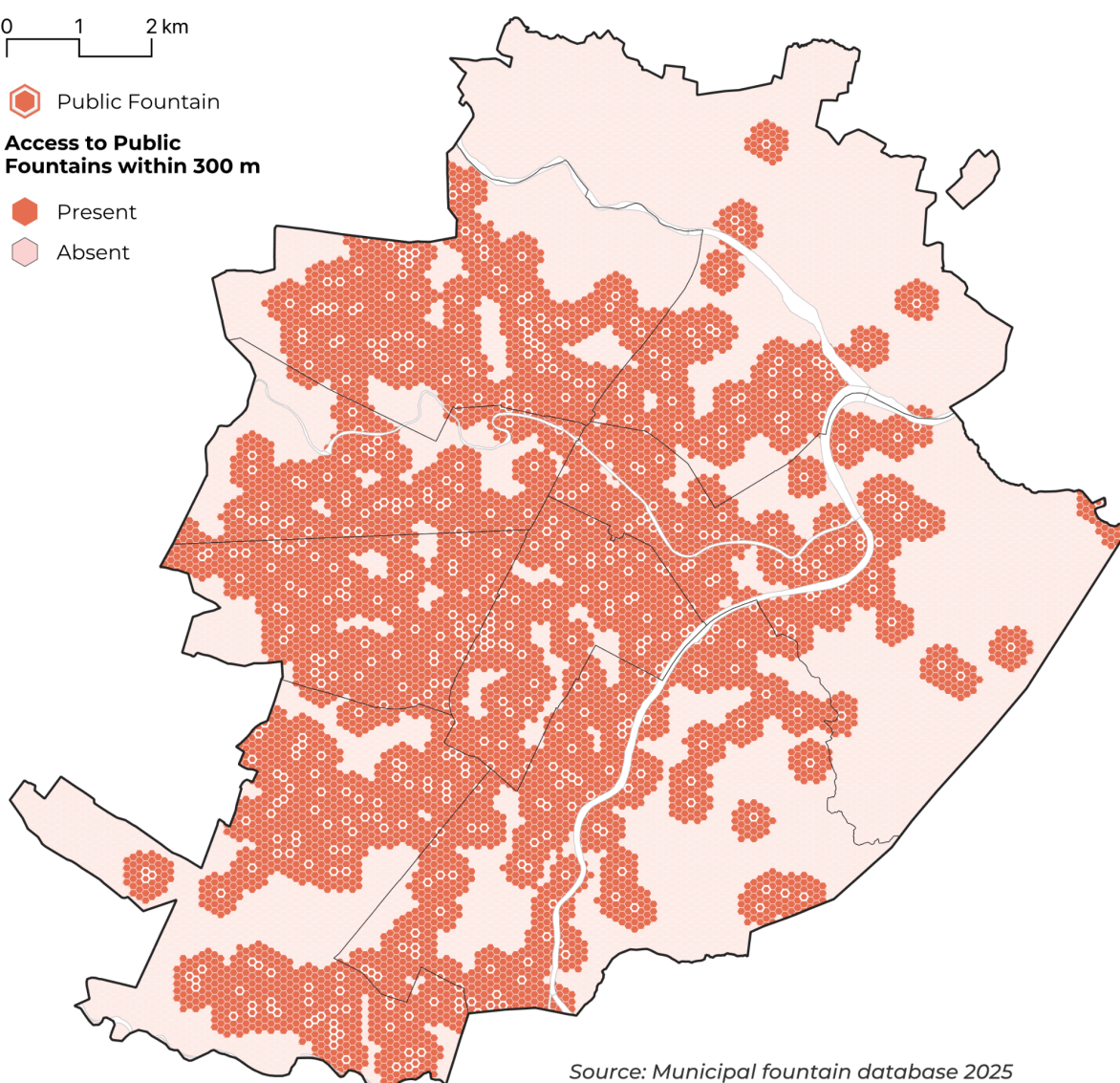
0 1 2 km

 Public Fountain

Access to Public Fountains within 300 m

 Present

 Absent



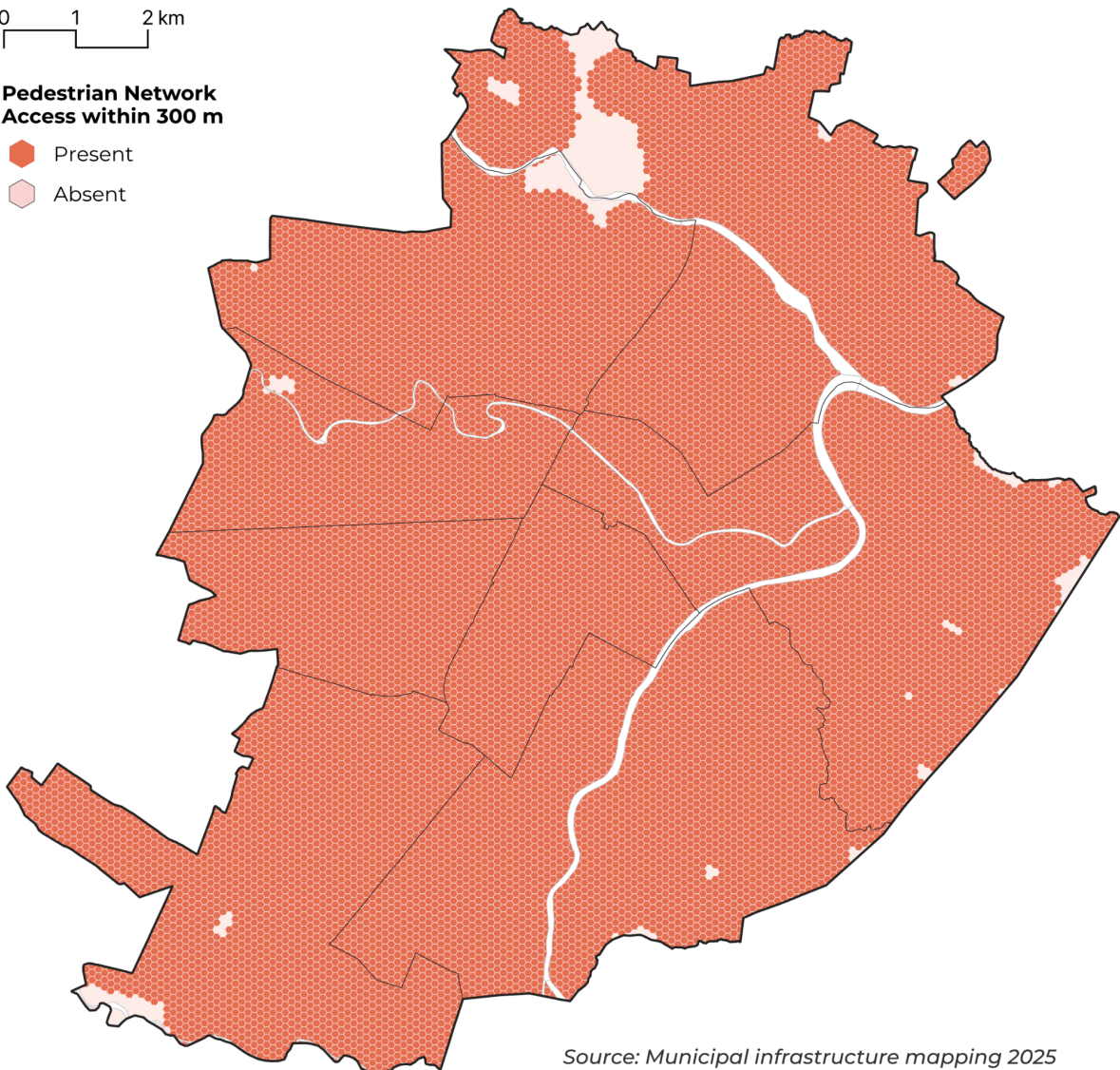
Pedestrian Network Access in Turin

Description	Which neighborhoods connect to safe walking paths
Relevance to Urban Heat Vulnerability	People need safe places to walk to reach cooling resources, especially during heat when staying indoors may not be possible

0 1 2 km

Pedestrian Network Access within 300 m

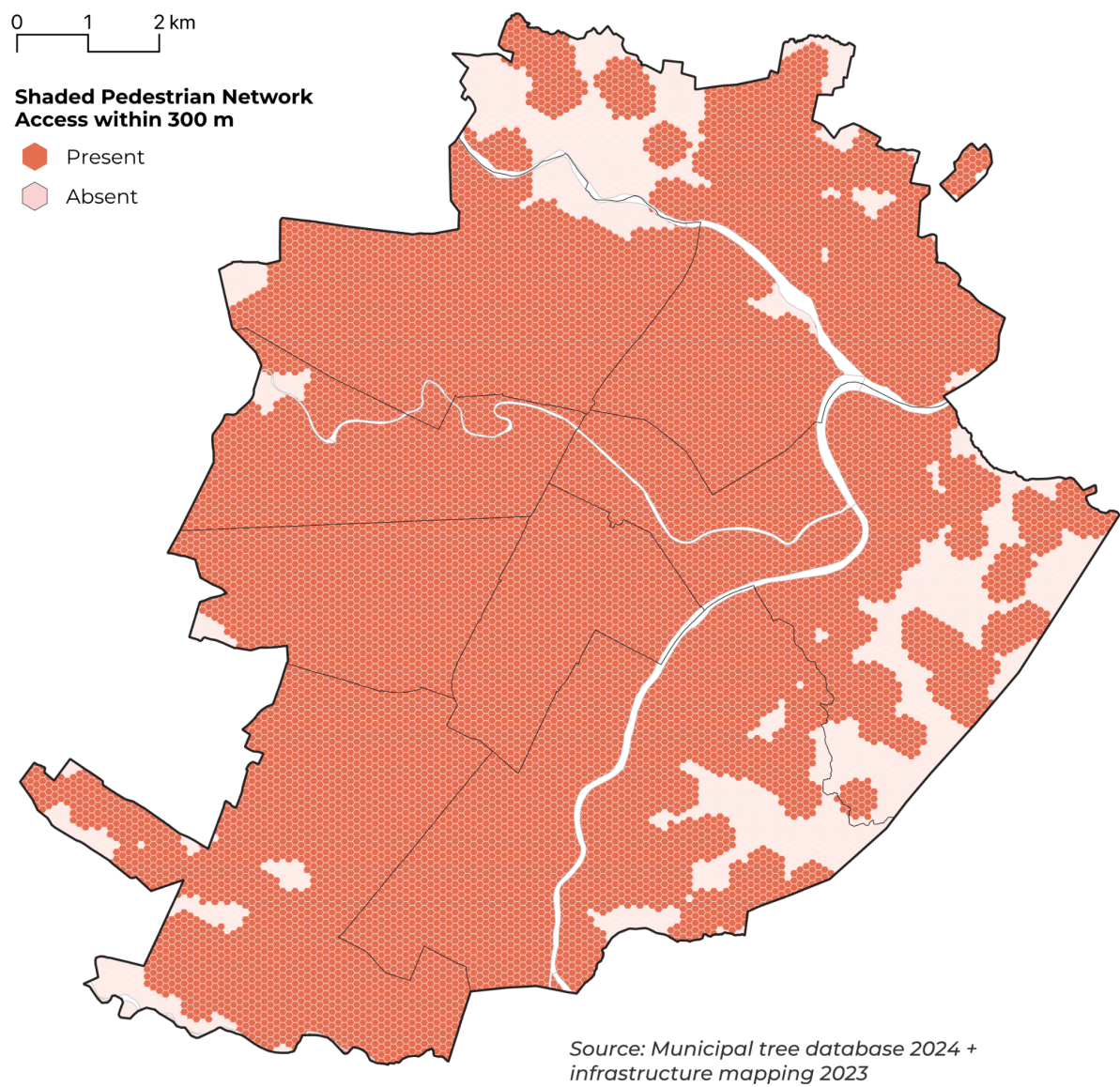
- Present
- Absent



Source: Municipal infrastructure mapping 2025

Shaded Pedestrian Access in Turin

Description	Which walking areas have tree cover or other shade
Relevance to Urban Heat Vulnerability	Walking in direct sun during heat waves can be dangerous; shaded paths enable safe movement to cooling areas



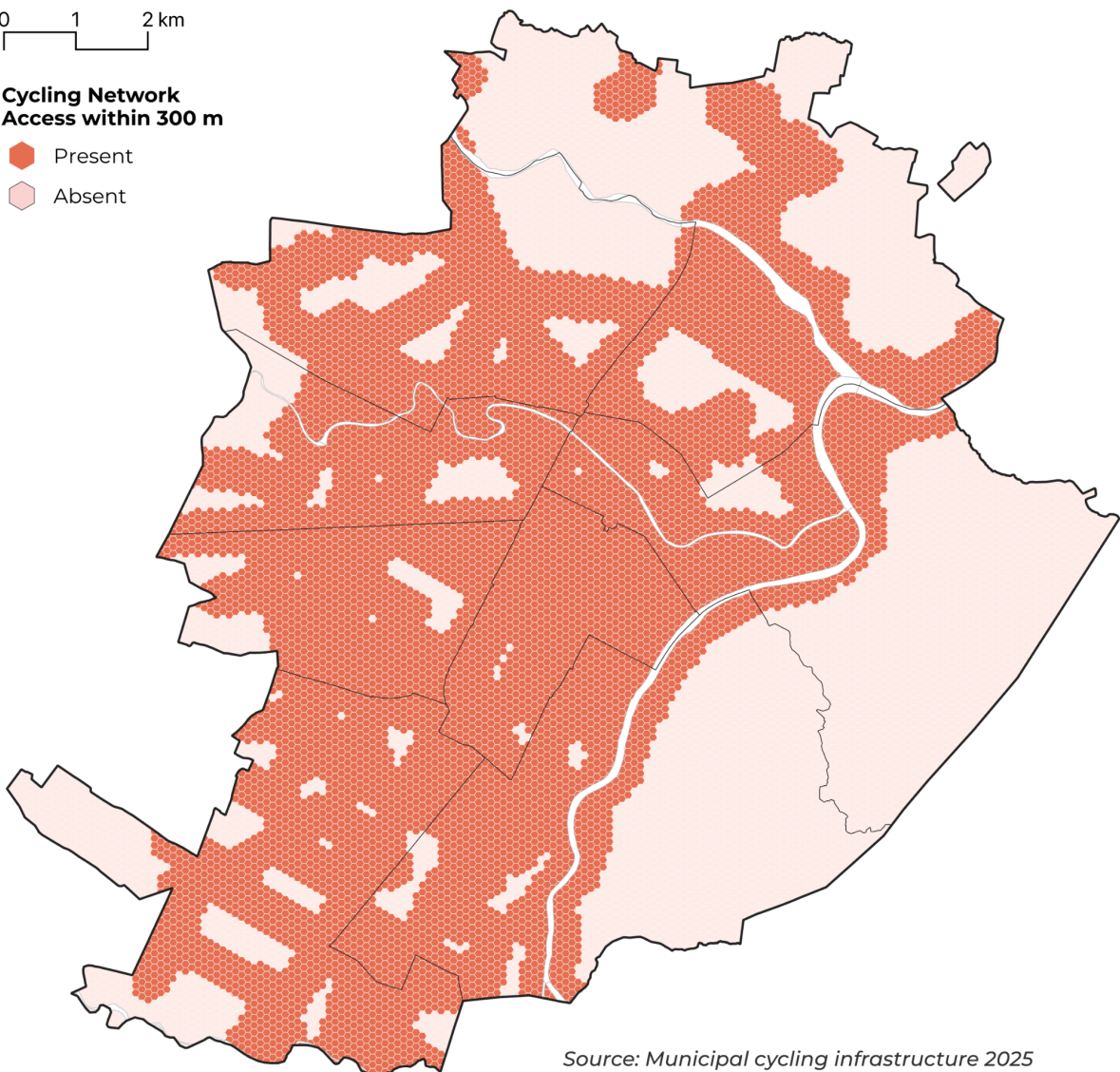
Cycling Network Access in Turin

Description	Mapped bicycle lanes and paths with 300-meter access calculation
Relevance to Urban Heat Vulnerability	Cycling can be faster than walking to reach cooling resources, but only where safe bike infrastructure exists

0 1 2 km

Cycling Network Access within 300 m

- Present
- Absent



Source: Municipal cycling infrastructure 2025

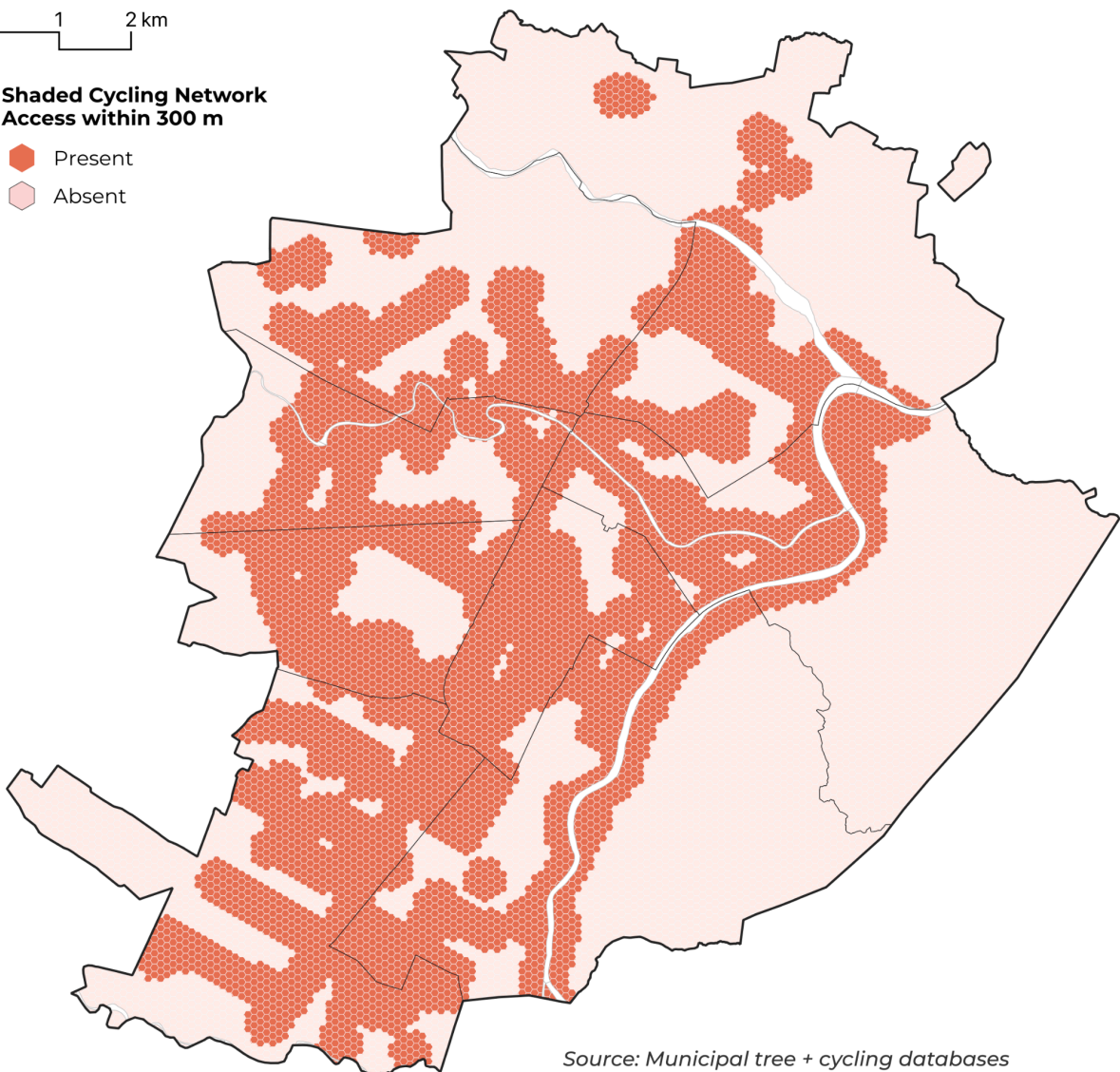
Shaded Cycling Network Access in Turin

Description	Which bike paths have natural shade coverage
Relevance to Urban Heat Vulnerability	Like walking, cycling in extreme heat requires shade protection to prevent heat-related illness during travel

0 1 2 km

Shaded Cycling Network Access within 300 m

- Present
- Absent



Source: Municipal tree + cycling databases
2024/2025