



Extreme temperatures risk

City of Turin (IT)



Mean near surface temperature deviation (urban)

WHAT IS SDGs-EYES?

SDGs-EYES is a project funded by the European Union which aims at boosting the European capacity for monitoring and reporting the Sustainable Development Goals (SDGs) based on Copernicus, building a portfolio of decision-making tools to monitor those SDG indicators related to the environment from an inter-sectoral perspective, aligning with the EU Green Deal priorities and challenges.

Copernicus components that will be used:



Objectives:

To integrate high-resolution atmospheric data provided by different state-of-the-art datasets from different spatial and temporal domains to define which climate indicators could be used within a risk framework that considers the link between heat and health (i.e., mortality and morbidity).

Expected results:

The output of this pilot is expected to be a Copernicus-based tool that will provide clear indications on the distribution of health risk arising from extreme temperatures in the investigated urban area.

SDGs-EYES partners:

- Leader: Epidemiology Unit (SEPI) of the Local Health Authority TO3 (ASLTO3)
- Partners: CMCC Foundation (Euro-Mediterranean Center on Climate Change)

Stakeholders:

Health policymakers, territorial/urban planners, local authorities, and other local health stakeholders. The key stakeholders identified to date are: Arpa Piemonte (Regional Agency for the Protection of the Environment), Civil Protection, Turin Municipal Administration. Other regional and local decision-makers in health and social policies and institutions, Active citizenship, University of Turin, A.o.



Recent research has revealed that extreme temperature events constitute the leading cause of weather-related mortality. Europe is bracing for substantial temperature increases, with the most pronounced warming anticipated in the Mediterranean regions. Among these, Italy is the country with the highest heat-related effects on daily mortality considering summer temperatures, especially considering the northern regions (WHO, 2018). Located in the north-west part of Italy, Turin is the fourth largest Italian urban area (Ellena et al., 2023).

World Health Organization (WHO), 2018. Climate and Health Country Profile: Italy. <https://iris.who.int/handle/10665/260380>

Ellena M, Melis G, Zengarini N, Di Gangi E, Ricciardi G, Mercogliano P, Costa G, Micro-scale UHI risk assessment on the heatHealth nexus within cities by looking at socio-economic factors and built environment characteristics: The Turin case study (Italy). Urban Climate, Volume 49, 2023, 01514, ISSN 2212-0955, <https://doi.org/10.1016/j.uclim.2023.101514>



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