








## Relevant Policy Guidelines

Policy Guidelines	Description
	<a href="#">Forestami</a> is a strategic vision at the Milan Metropolitan Area towards a great Metropolitan Park, with the aim of collecting, implementing, and enhancing the main green, permeable and tree lined systems.
	<a href="#">Piano Aria Clima of the Municipality of Milan</a> (2022) aims at reducing air pollution and responding to the climate emergency through sustainable urban/ mobility/ energy production planning.
	<a href="#">ClimaMi</a> focuses on urban land design, planning and management and it is aimed to make the issue of climate change adaptation in the city of Milan consistent with current guidelines, policies and regulations.
	<a href="#">SUMP of the Municipality of Milan</a> (2018) contains strategies and guidelines on the future of the city's mobility. It is based on participatory approach, sustainability, measurable targets, and costs/ benefits assessment.

## Relevant Data Portals

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	The <a href="#">ESA Air-Portal research project</a> shows models air quality in urban environments using a combined processing of geo-information, sensors, satellite data, road information and forecasting models.
	<a href="#">ARPA Lombardia</a> calculates the Air Quality Index both in relation to readings from an individual monitoring station and from model-estimated concentrations, according to the European Environment Agency.
	<a href="#">Cittadini per l'aria</a> is a non-profit association of citizens involved in air quality research initiatives. One the analyses proposed by them shows the diffusion of NO <sub>2</sub> on the territory of Milan (see Figure 2).
	<a href="#">Copernicus</a> (European Union's Earth observation programme) provides predictions of daily mean and maximum concentrations of pollutants (e.g., O <sub>3</sub> , CO, NO <sub>2</sub> , SO <sub>2</sub> , PM10, PM2.5, etc.), computed with the Ensemble model.
	<a href="#">Copernicus Sentinel 2</a> (EU-owned satellites) provides data about Canopy Height Model with ground sample distance of 10 m using LiDAR measurements and the pixel-based canopy height estimation model.
	<a href="#">EcoVision Lab</a> of the ETH Zürich provides data about global canopy top height for the year 2020 at 10 m ground sampling distance through a probabilistic deep learning model and Sentinel-2 images.
	<a href="#">Global Forest Watch</a> is an open-source web application to monitor global forests in near real-time, with data from the NASA's MODIS sensor, Google/UMD, Imazon, Terra-i, and NASA.
	<a href="#">i-Tree Eco</a> is a software designed to use data collected in the field from single trees and complete inventories, along with air pollution and meteorological data, to quantify environmental effects and value to communities.
	<a href="#">JRC LUISA Territorial Modelling Platform</a> is used for the ex-ante evaluation of EC policies that have a territorial impact. It is based on the concept of 'land function' for cross-sector integration.
	<a href="#">NASA Global Urban Heat Island</a> provides data and instructional tools centred on the topic of Urban Heat Islands, such as interactive models, story maps, and other resources.
	<a href="#">TomTom</a> estimates the emissions and energy consumption due to vehicle traffic for cities, by combining and modelling several data about traffic, land (slopes, road classes), vehicle fleet, emission and consumption.
	<a href="#">Treepedia research project</a> measures the canopy cover in cities. It is based on a scalable and universally applicable method by analyzing the amount of green perceived while walking down the street.
	<a href="#">TROPOMI</a> is the satellite instrument on board the Copernicus Sentinel-5 Precursor satellite. TROPOMI Explorer is application to visualize air pollutant time series data.

## Relevant Research Projects

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	The <a href="#">H2020 CLEVER Cities project</a> aims to increase local knowledge of nature-based solutions, to demonstrate that greener cities work better for people and communities, and to contribute data and information to EU policy-making.
	<a href="#">LIM landscape information modelling@</a> is a landscape approach to Building Information Modeling (BIM) which supports the design of Nature-based Solutions and steers informed decisions for greener and healthier cities based on a data-driven approach.
	The <a href="#">Thrive Zones project</a> suggests actionable urban design solutions and reduce exposure to poor air quality and increase access to better air quality at the neighbourhood and street scales.
	The <a href="#">H2020 Urban Nature Labs research project</a> develops nature-based solutions to enhance the climate and water resilience of cities, via co-creation with stakeholders and implementation of 'living lab' demonstration areas.
	The <a href="#">H2020 VARCITIES research project</a> is aimed at implementing nature-based actions in cities and at establishing sustainable models for increasing the health and well-being of citizens exposed to different climatic conditions and challenges.
	The <a href="#">LIFE VEG-GAP research project</a> is focused on developing a strategy for providing new reliable information in support of designing urban Air Quality Plans, considering the urban vegetation ecosystems characteristics.

[Nature-based Solutions to Mitigate Vehicular Traffic Pollution Beyond SUMP](#)s

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