BRESCIA 2030 A nature-based city for the well-being of its citizens

THE CLIMATE TRANSITION STRATEGY

The Climate Transition Strategy is a local climate policy for the radical transformation of the city of Brescia. Adopted in 2021 by the Municipality, the Strategy sets both climate mitigation and adaptation targets with a 2030 horizon.

The strategy envisions a city that in ten years will be: **Oasis City**, by creating areas of shade and coolness, bringing nature into the city for the well-being of people and to improve the urban microclimate; Sponge City, to

Brescia profile Country: Italy **Residents:** 199 375 (2020) Location: Lombardy's plaine, in the foothills of the Brescia and Garda pre-Alps Future climate trends: Extension of dry Increase of eriods. More average and ntense autumn precipitation

return space to water and permeability to the earth to accommodate life, with increased urban drainage and increased natural capital and biodiversity;

City for People, by creating even more livable spaces where the right to health, meeting and inclusion is guaranteed.

The Strategy includes an analysis of the climate in Brescia and a study of the expected climate in the next century according to IPCC scenarios. To cope with a city that will be warmer and with more severe autumn rainfall, the Strategy puts in place a series of adaptation actions. Many of these involve the use of nature-based solutions, with multiple benefits in the mitigation of air and soil pollution as well as greenhouse gas emissions.

UN FILO NATURALE

Brescia's Climate Transition Strategy was developed and **SCAN** it is currently implemented in the framework of the



project "Un Filo Naturale" (A natural thread). The project is co-funded by Fondazione Cariplo, through the open call "Strategia Clima", and by Regione Lombardia. The project is

implemented by a partnership led by the Municipality of Brescia, together with Ambiente Parco, CMCC and Parco delle Colline di Brescia.





summer sunshine









1. Urban Forestation

The project involves the renaturalization of marginal spaces in the peri-urban area of the city of Brescia. The intervention restores the forest cover, using species of the original mid-European vegetation, namely oak and hornbeam, with shrubs species. In the design, a mixture of species of various sizes was favored to give greater stability and resilience of the plant community being created, as well as being more aesthetically pleasing and contributing to a more diverse habitat for wildlife. The intervention covers 5 distinct areas of the city (Via Malga, Via Duca degli Abruzzi, Via Acerbi, Via del Serpente, San Polo) with co-benefits in terms of CO, storage and air pollutants abatement



Area of



intervention m^2

species

3. Road de-paving

141 236

The project includes a pilot intervention to redevelop via Metastasio, a street located in the suburbs of Brescia. The objective is to achieve improved climate comfort on a mi-

cro-urb<mark>an scal</mark>e, enhance landscape and ecological quality, increase urban drainage and improve bike mobility. Specifically, the road section will be redesigned



and de-paved in favor of the inclusion of two bike lanes, a "rain garden" flowerbed on the south side (with plant species that contribute to the functionality of the drainage system) and leaking wells on the north side (to drain rainwater underground). The species are selected to withstand alternating periods of drought as well as heavy rainfall and to increase urban biodiversity. 25 new trees will shade the

ground, reducing temperature and increasing the comfort of the area. Sidewalks will be asphalt with a light-colored resin to reduce the temperatures generated by



Area of intervention







Here you will find a selection of 4 adaptation actions of Brescia's Climate Transition Strategy, all of which are nature-based solutions:





Giulia Galluccio (CMCC) Chiara Trozzo (CMCC)

Stefania Boglietti (Comune di Brescia) Ilaria Salvadori (Comune di Brescia) Pierandrea Gaggero (Comune di Brescia)