



ECOBULEVARD

ECOSISTEMA URBANO

ECOLOGICAL BOULEVARD FOR A SOCIAL AND BIOCLIMATICALLY CONDITIONED PUBLIC SPACE

MADRID
SPAIN

2004-2007

The Eco-boulevard in Vallecas can be defined as an urban recycling operation consisting of the following actions: insertion of an air tree-social dynamizer over an existing urbanization area, densification of existing alignment trees and reduction and asymmetric arrangement of wheeled traffic circulation.

Superficial interventions reconfiguring the existing urbanization (perforations, fillings, paint, etc.) that defaces the executed kerb development.

The project has two main objectives: one of a social nature, aimed at activating public space, and another of an environmental nature, the bioclimatic adaptation of an outdoor space, achieved with a system of passive air conditioning based on chilling by evapotranspiration.

This system, commonly used in the green house industry, is capable of lowering temperature by

around 10° C, depending on humidity conditions and temperature.

The system goes into action when a temperature sensor detects temperatures above 27°C in its surroundings. It is particularly efficient with high temperatures and low relative humidity (typical conditions in Madrid during the summer).

The Air Trees are objects of an exportable nature, so they may be re-installed in similar locations or in other types of situations requiring an urban activity or reactivation.