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Medio Ambiente
y Movilidad

BOSQUE METROPOLITANO Y OTRAS INICIATIVAS DE TRANSFORMACIÓN VERDE DE MADRID





Environmental Sustainability Strategy of Madrid



- In 2019, Madrid 360 Environmental Sustainability Strategy was approved.
- Madrid 360 is a living and holistic strategy, with more than 280 initiatives.
- The strategy has evolved to respond to citizens' new needs.
- It contributes to improve air quality in our city and meet European Union's targets.

Axes of transformation of Madrid



City

It aims, among other things, to increase energy efficiency and boost electrification, improve infrastructure management and promote the development of green areas



Mobility

The aim of this axis is among other things, to promote micro-mobility, optimise public transport and increase the number of clean vehicles in the city



Administration

The aim is to make the administration an example and benchmark for sustainability, adapting the regulatory framework to facilitate the implementation of the Strategy



Main figures



1.74

Million of trees of City Council's management



3,800

Parks and green areas



506

Different species of trees



54%

Of streets with trees



29,176 tons of CO₂ per year stored

Million of trees of City Council's management



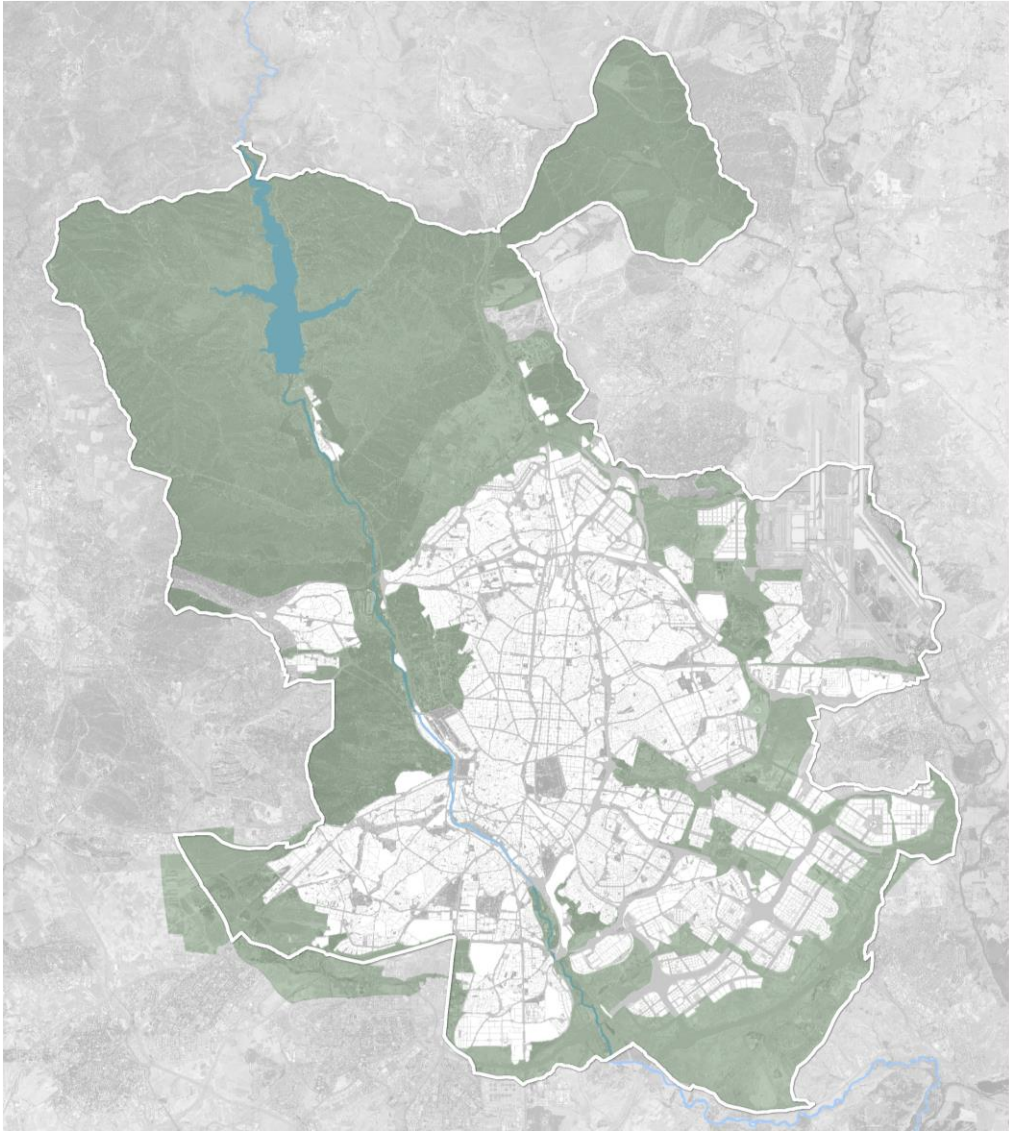
5.7

Million of trees (total)





Bosque Metropolitano. Overview



“**Bosque Metropolitano**” is part of Madrid 360 Environmental Sustainability Strategy. It consists of an **extensive green infrastructure** that connects the current green zones of the city of Madrid, through new plantings of native shrubs and tree species.

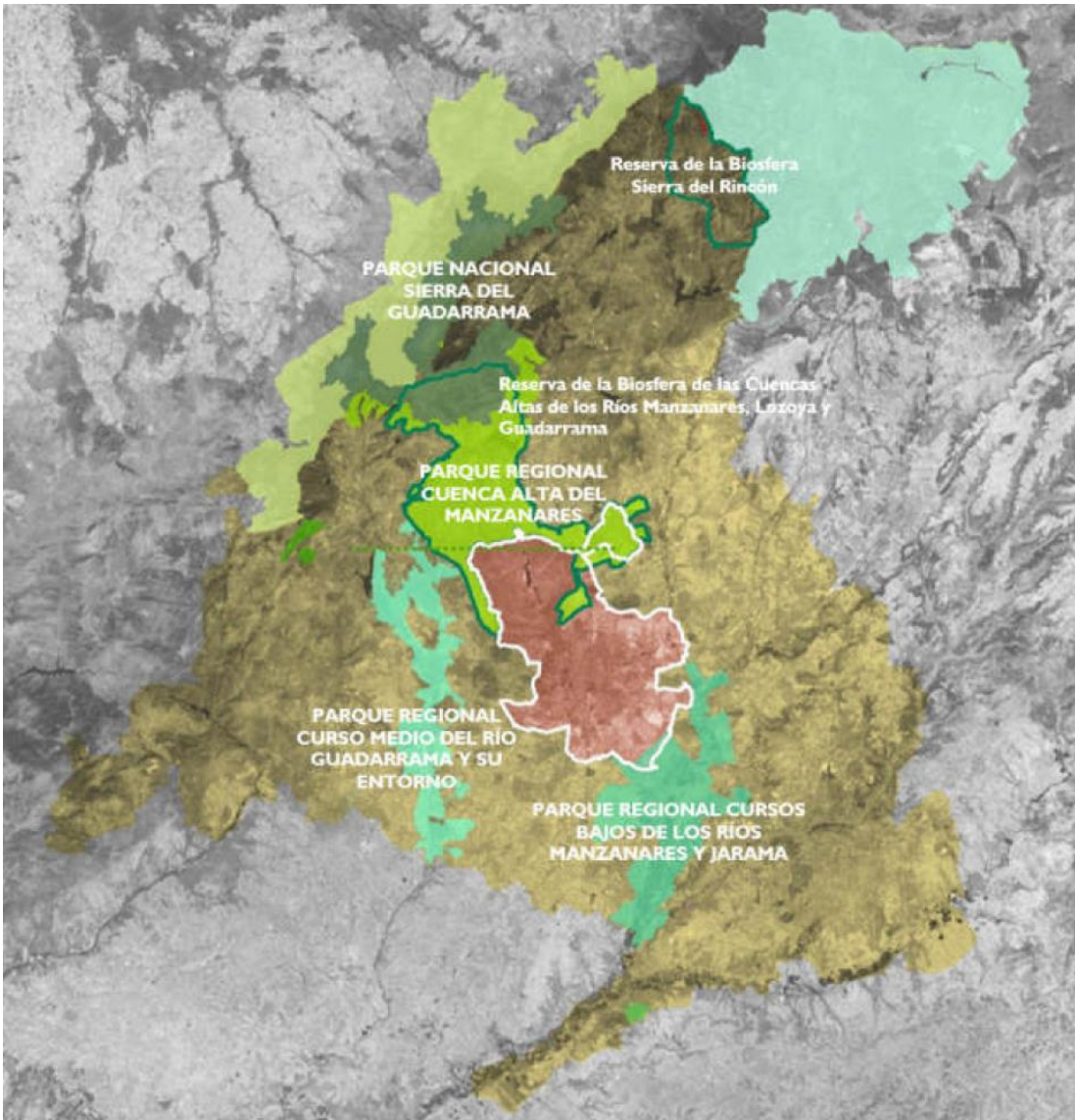
It is a key instrument in the **re-naturalization strategy** of the city, contributing the following **objectives**:

- New **Green areas connected with the existing ones**
- **Improvement** of citizens' health and well-being
- Contribution to the sustainable development goals, making Madrid a **more environmentally, socially and economically sustainable city**.

Bosque Metropolitano

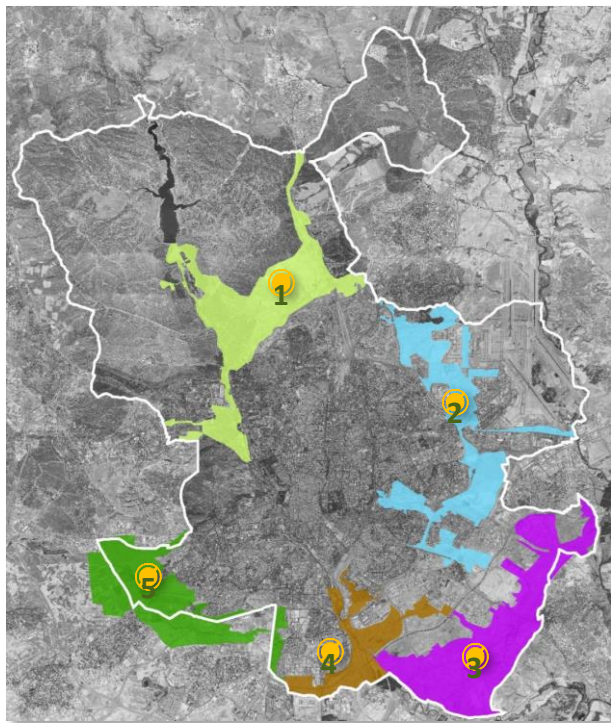
Objectives:

- New approach to urban planning
- Tool **against climate change**: “heat island effect”
- Increase and **conservation of biodiversity**
- Restoration of natural water cycles and degraded areas
- Support agro-ecological production
- New jobs in an urban agriculture market
- New facilities and opportunities for **healthy leisure of citizens**
- Promoting healthier food habits





Bosque Metropolitano. Landscapes



LOT 1: BETWEEN NATURAL MOUNTAINS

Connections of the El Pardo mountain with the Valdelatas and Casa de Campo. Continuity of the fluvial axis of the Manzanares River.

LOT 2: LINKING URBAN PARKS

Connections of the system of metropolitan open spaces, Valdebebas, Recintos FERIALES, O'Donnell Wedge, Vicalvarada, Valdebernardo and Cerro Almodóvar with Nueva Centralidad del Este.

LOT 3: THE SOUTH-EAST GREEN RING

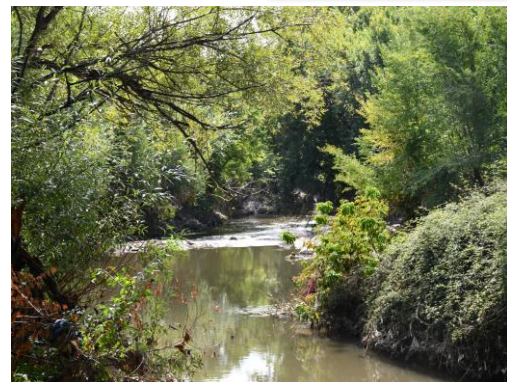
Enhancement of the open space systems of the south-eastern growth areas, from Cerro de la Herradura to the Cantiles del Manzanares.

LOT 4: THE SOUTHERN RIVER PARKS

Connections of the fluvial systems of the Manzanares River and La Gavia stream with the integration of large peripheral pieces of free spaces in Entrevías, La Atalayuela, Mercamadrid and Butarque.

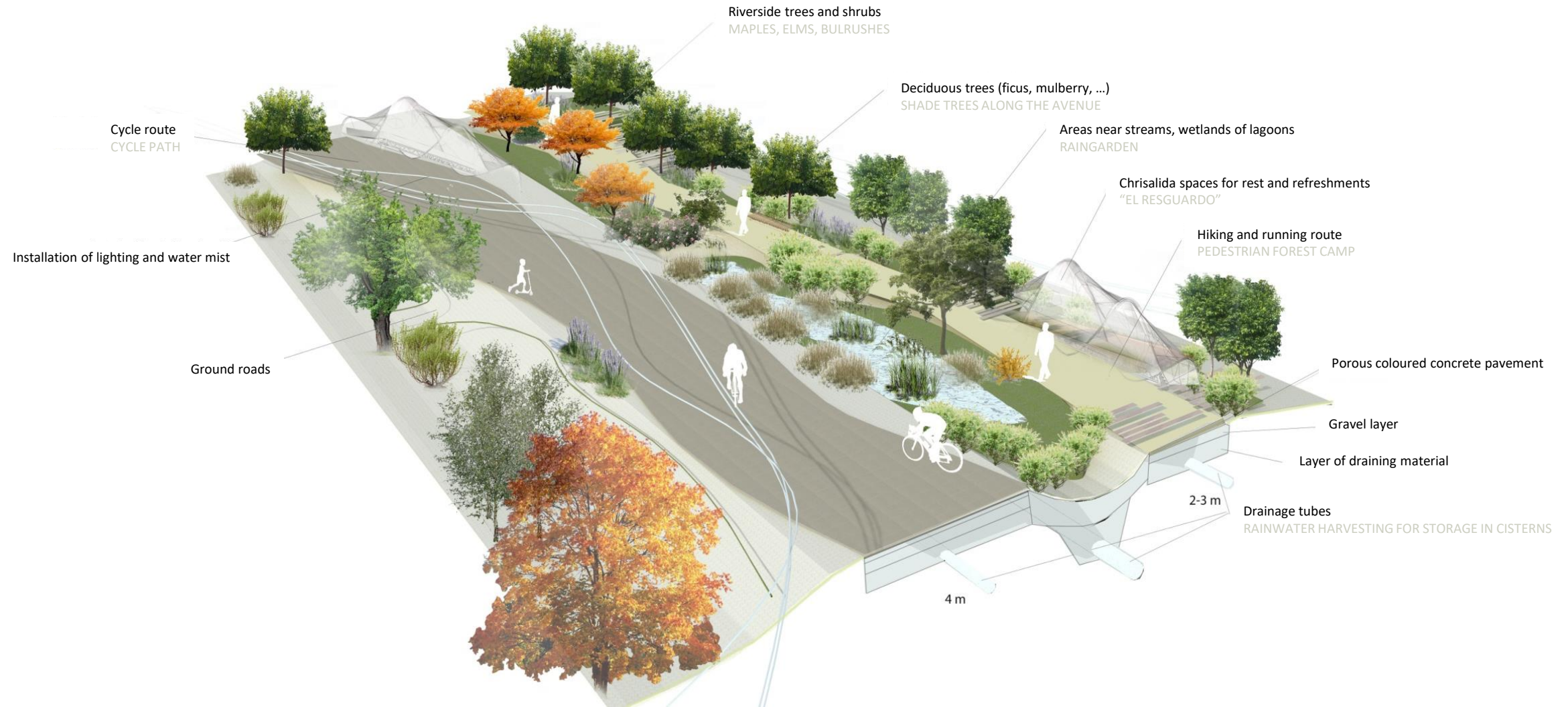
LOT 5: ON THE METROPOLITAN RING ROAD

Integration of the southwest metropolitan system (Getafe, Leganés, Alcorcón) with Casa de Campo. Enhancement of the Meaques stream fluvial environment.





A Key component of Bosque Metropolitano: connectivity



“Entre Montes Naturales”

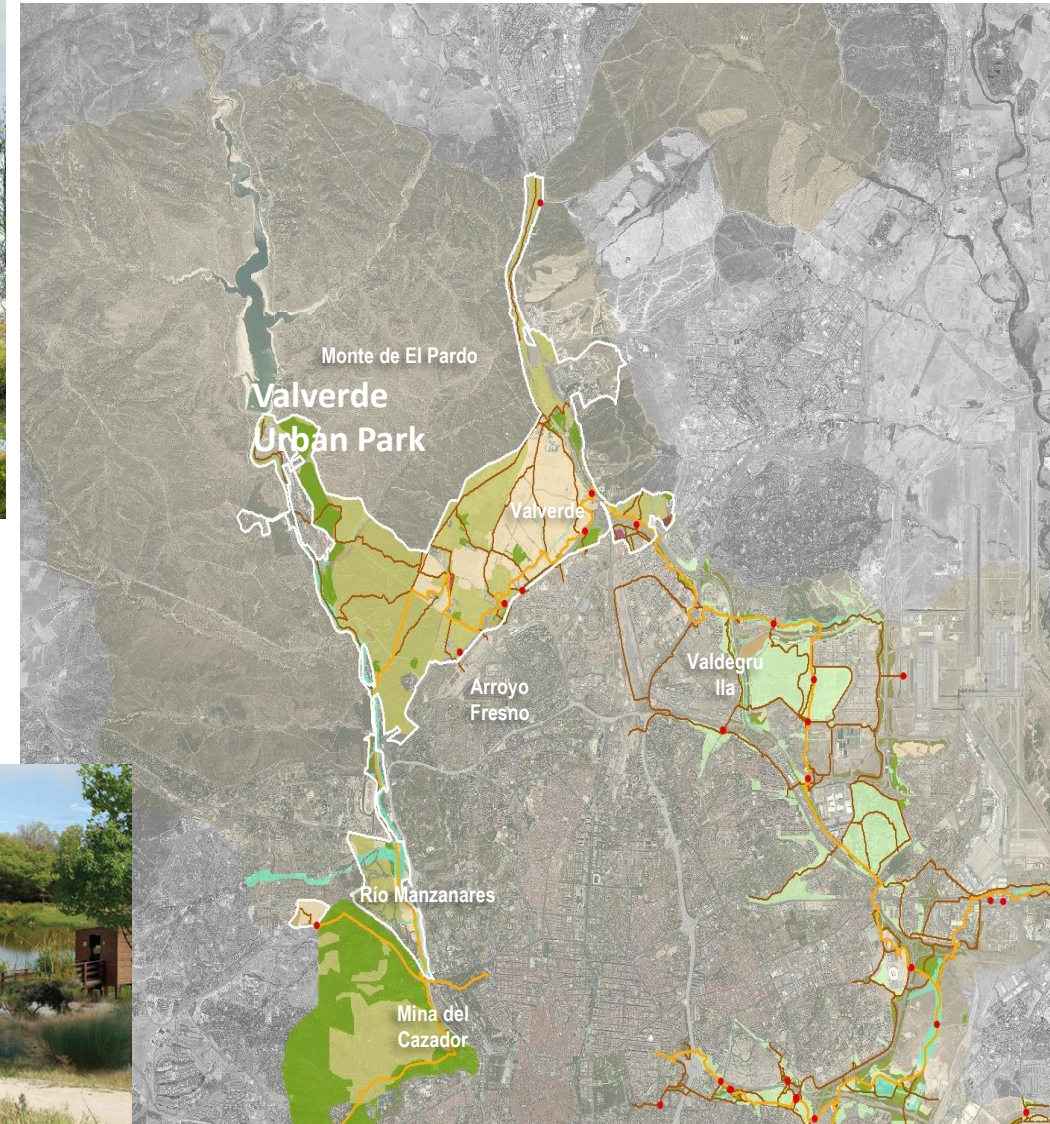
Fusion of two principal concepts **Water and Biodiversity**

Beauty and significant potential:

- Stunning landscapes
- Bird-watching hotspot (Iberian Imperial eagle in Monte de El Pardo)

•Key Actions:

- Reinforce natural features (Mediterranean “Dehesa” forest)
- Establish environmental education center
- Promote traditional activities (dryland farming)
- Enhance Manzanares River as an ecological corridor





“Uniendo Parques Urbanos”

This site of the Madrid Metropolitan Forest structurally connects critical urban Parks

Network for urban articulation: To reconnect the areas divided by roads and railway lines—which create separation and isolation—several connecting routes are planned.

An alternative for sustainable mobility



Eco-connectors





“El Anillo verde del Sureste”

Environmental Corridors extend the surrounding forest into southeastern Madrid, transforming the urban edge. The project reconnects fragmented landscapes, recovering historic paths and revealing the site’s identity, heritage, and views from the “Cantiles del Manzanares”.

Strategies

- Organic spatial design
- Nature-based solutions
- Circular economy processes

Key Framework

- New green infrastructure conceived as a **“green open space system”**
- Opportunity created by the **new southeastern urban developments**
- Integration of **five different housing areas**





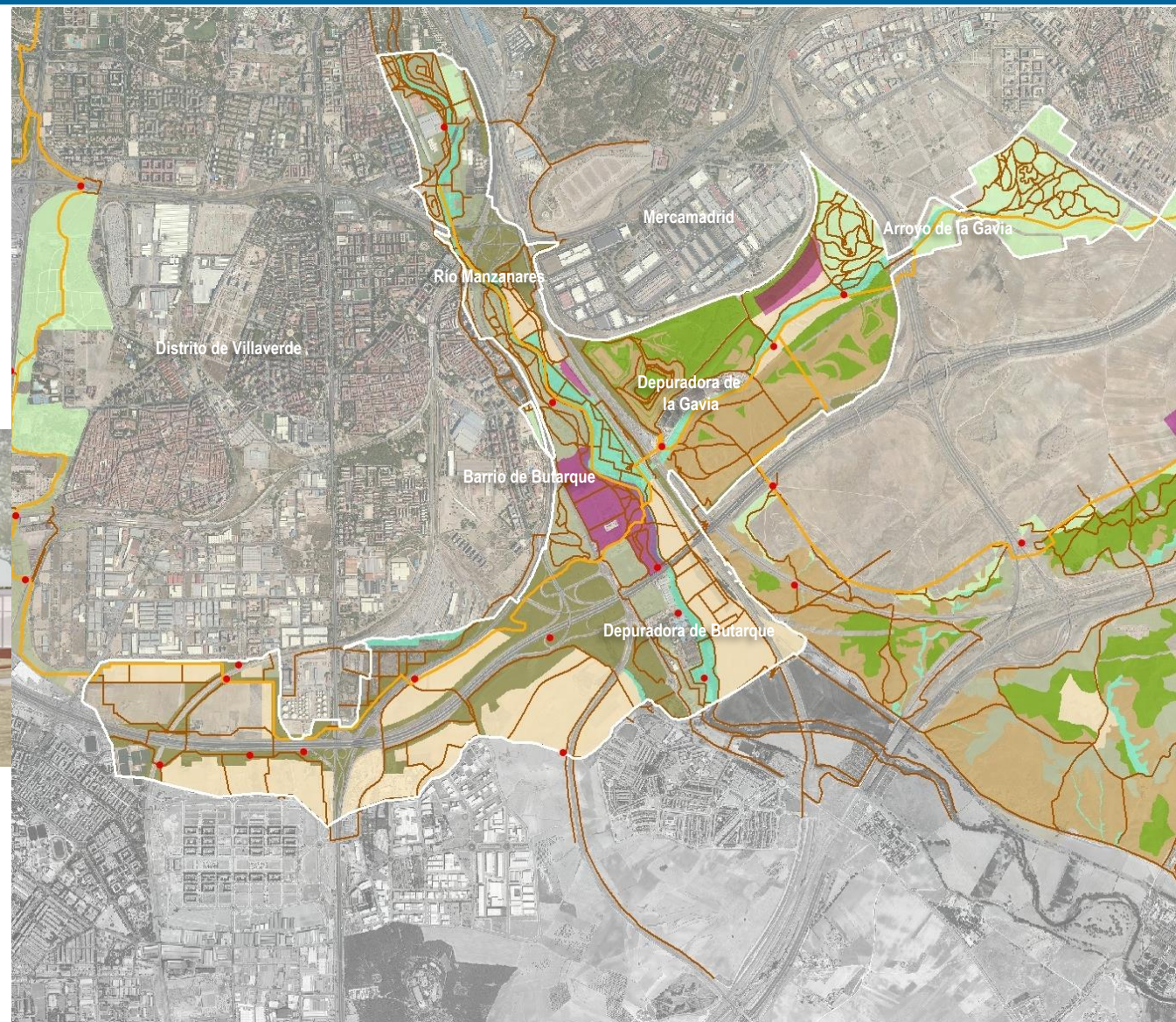
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“Los parques fluviales del Sur”

The southern area of Madrid, along the Manzanares River, has been **fragmented by infrastructures** but holds significant **environmental, historical, and social potential**.

Manantial Sur proposes a strategy of **social and ecological regeneration**, restoring connectivity, fostering biodiversity, and transforming infrastructures into ecological corridors within an agroforestry landscape.





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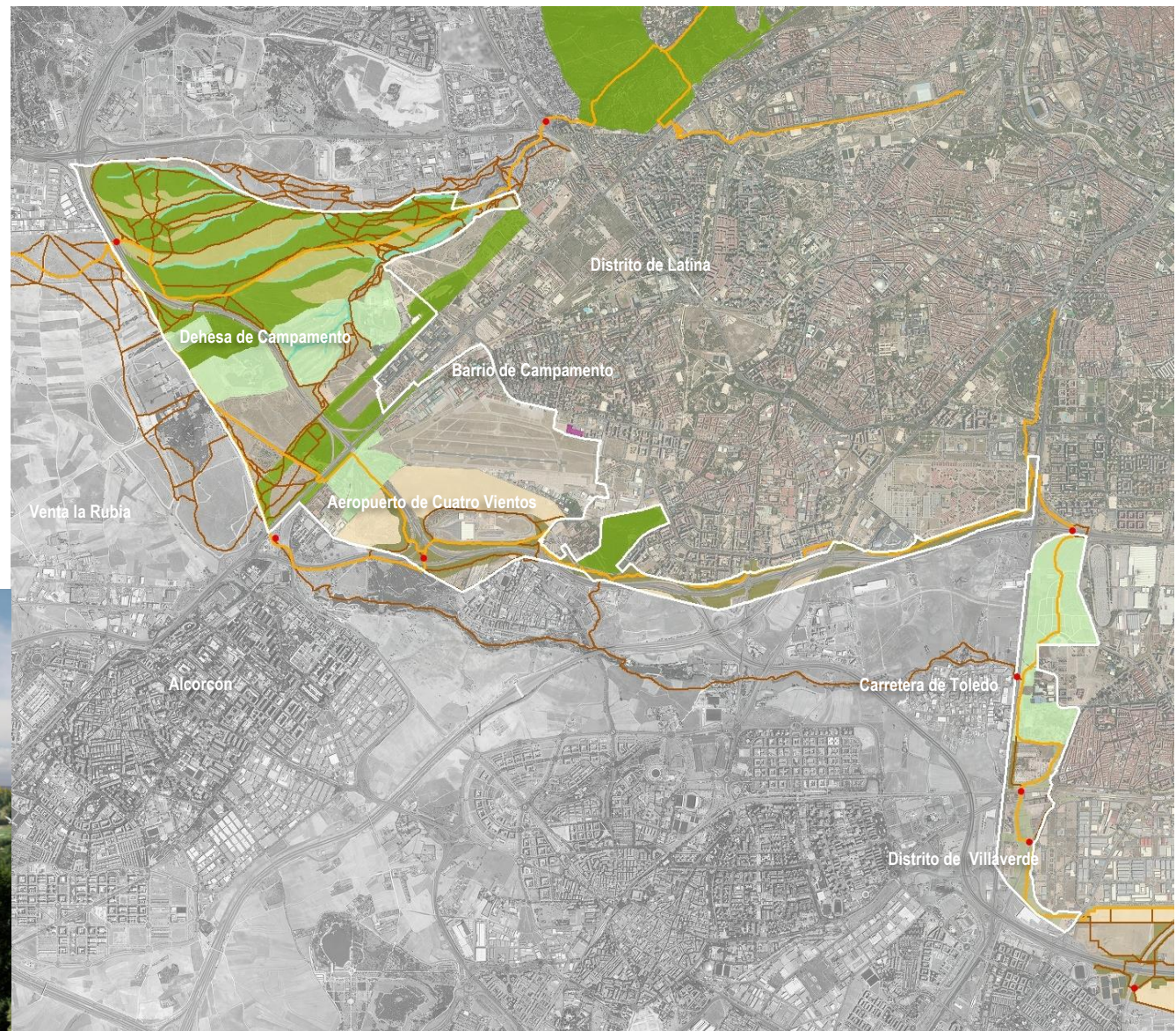
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“El Anillo metropolitano”

The proposal reads the site through its **natural and artificial layers**: geography, geology, water systems, and vegetation.

Located between the **mountains and the plains**, the area brings together this two key biotopes of the Madrid region.

This unique position allows the creation of a **large green corridor** connecting the **Manzanares River**, the **Guadarrama River**, and **Madrid with its surrounding mountains**.



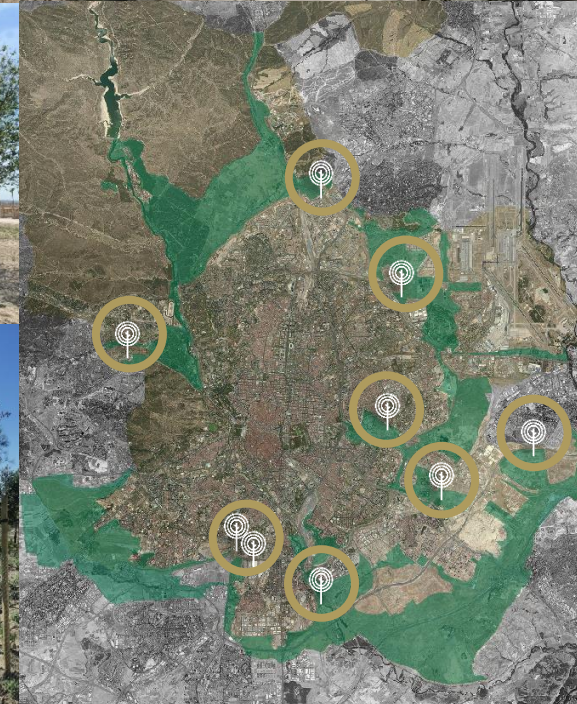


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Pilot Projects

Small-scale plantings designed to **test and refine different techniques adapted** to the specific spatial and environmental conditions of each site.



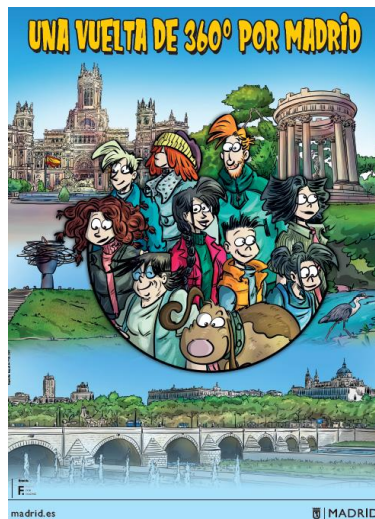


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Communication initiatives.

Promote “Bosque Metropolitano” project,
raise **environmental**
awareness, and highlight
the city’s rich heritage



Communication initiatives

Activities in early childhood, primary and secondary education centres:

-  Visits to nearby green spaces
-  Workshops in educational centres
-  Visits to distant green spaces



Communication initiatives



Implementation of activities related to the Metropolitan Forest in **municipal libraries** and **environmental education centres**.





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Communication initiatives. Outreach activities at Fairs





Conclusions

- Improving the health and well-being of citizens.
- Sustainability, making Madrid a more environmentally, socially and economically sustainable city.
- Mitigation and adaptation to climate change.
- Reduction of the heat island.
- Increase and conservation of biodiversity.
- Ecological and landscape restoration of degraded areas.
- Incorporation of urban and peri-urban agro-ecological production, linked to the acquisition of healthy and sustainable eating habits of citizens.
- Creation of new facilities and opportunities for healthy leisure.
- Promotion of the green economy and local consumption of agri-food products.
- Creation of new jobs.
- New approach to urban planning and how the management of European funds is being approached by Madrid City Council.



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Thank you

Raquel Bravo Rubio

Chief of Communication and Institutional Relations Service

e-mail address: bravorra@madrid.es