

# Mapocho Walkable and bikeable: a journey through the heart of Santiago





## SANTIAGO METROPOLITAN REGION

- A mosaic of **52 municipalities** with their own local governments, with more than **seven million inhabitants**.
- More than 18.5 million trips occur daily, weaving complex and varied commuting patterns.
- Distinctive challenges coexist, derived from a growing population, urban sprawl and the concentration of work areas.
- Major environmental challenges, mainly in the areas of mega-drought and air quality.
- First democratically elected Governor of the Metropolitan Region of Santiago: Claudio Orrego Larraín (2021 2024).







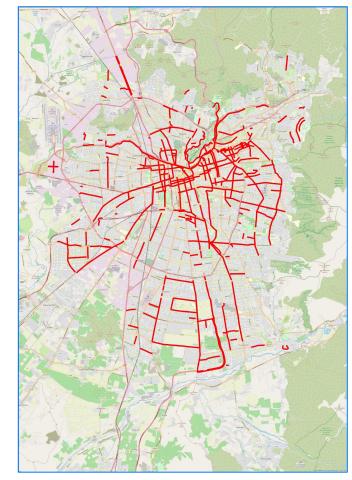


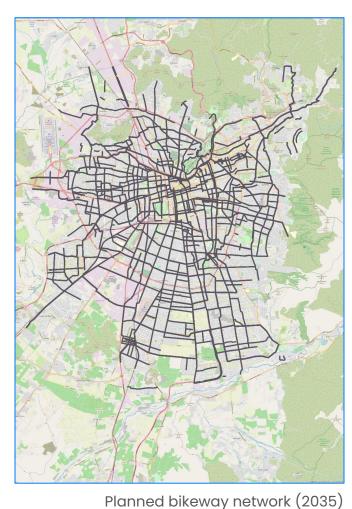


## SANTIAGO CONNECTED: RESHAPING MOBILITY



"In terms of mobility, our navigational chart will be the inverted mobility pyramid."





Current bikeway network (2023)









## MAPOCHO RIVER

Biodiversity: The maipo basin is located in the "Chilean winter rainfall-Valdivian forest" hotspot, which indicates a territorial context with a high level of endemism and a high degree of threat. it has two official SNASPE protected areas: the "Rio Clarillo" reserve and the "El Morado" natural monument.

#### **Hydrological regime:**

Mixed precipitation of snow and rain.

## Main rivers of the basin and length:

Mapocho River 110 km Maipo River 250 km

#### Fluviometry and mean annual flow:

Maipo River at El Manzano 110 m3/s Mapocho River at Los Almedros 6 m3/s Angostura river at Valdivia de Paine 24 m3/s Maipo River at Cabimbao 125 m3/s









The Maipo river basin is exorheic and has an area of 15,273 km3, which administratively covers more than 90% of the Metropolitan Region of Santiago, and a small fraction of the regions of Valparaíso and Libertador Bernardo O'higgins.

#### Water use:

- The water resource is shared by several water users, with irrigated agriculture being the main user.
- In potable water, there are about 2.4 million customers, mainly for residential use, followed by the industry.
- Rural Drinking Water Associations (APR) are largely located in aquifers with no availability to apply for new withdrawal rights.
- the hydroelectric sector registers 17 run-of-river plants
- The mining sector has a total of 56 projects environmentally approved by the Environmental Impact Assessment Service (SEIA).

## MAPOCHO RIVER



Upstream









In the city



## > PROJECT STATUS

## NAME OF THE PROJECT:

Habilitation of urban fluvial promenade along the Mapocho river bed.

## **STATUS:**

Design completed and approved, preparing for the tendering process.

## **BUDGET:**

USD \$9.425.115.-

#### **CONSTRUCTION:**

Estimated opening 2025.









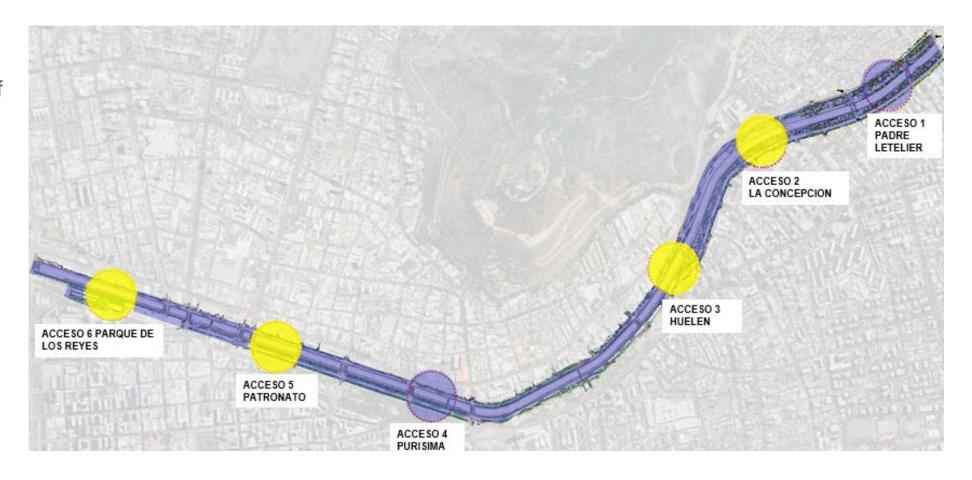


## > PROJECT SCOPE

**5.25 Kilometers** of extension through the municipalities of Santiago and Providencia.

**6 new accesses** to the river.

**Floodable promenade,** for pedestrians and cyclists.



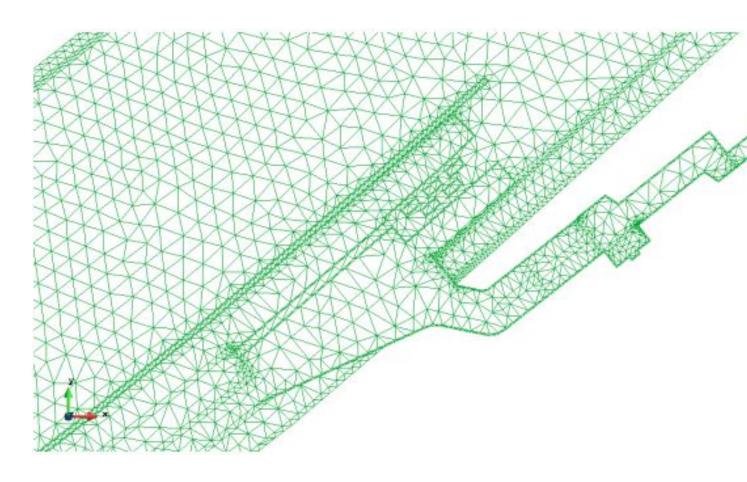








## > ENGINEERING CHALLENGES



Detail of the calculation grid built at the beginning of the wall and at the "Padre Letelier" access to the projected promenade.

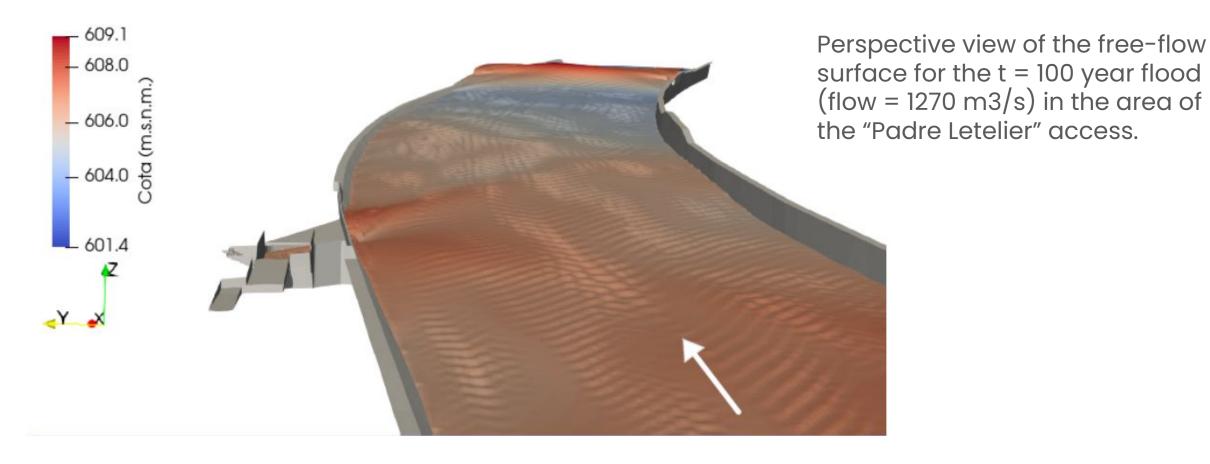








## **ENGINEERING CHALLENGES**









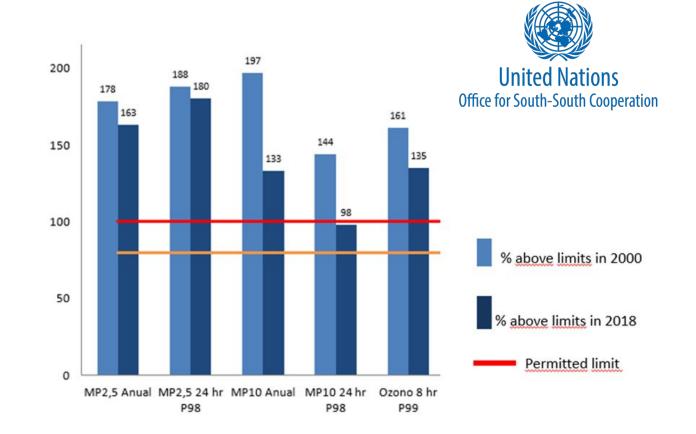


## CITIES PROJECT: HANGZHOU - SANTIAGO

CITIES THAT SHARE EXPERIENCES AND LESSONS LEARNED AROUND A SIMILAR PROBLEM TO PROMOTE A SUSTAINABLE AND INTELLIGENT TRANSPORTATION SYSTEM.

#### **MAIN OBJECTIVE**

Promote the development of sustainable, low-carbon transportation in the Santiago Metropolitan Region through digital technology, capacity building, technical transfer and city-to-city exchange.











## FUNDING AND GOVERNANCE: INSTITUTIONAL STRUCTURE

## P.R OF CHINA

China International Center For Economic And Technical Exchanges



## MEMORANDUM OF UNDERSTANDING

#### **FINANCIAL PLATFORM**

**UNOSSC** 

United Nations Office for South-South Cooperation



United Nations
Office for South-South Cooperation

#### **INITIATIVE**

**Cities Project** 

South-South and Triangular
Cooperation among
Continental Maritime Cities of
the Silk Road for Sustainable
Development

**USD \$ 150.000** 

Total contribution

## FUND SUPERVISOR



Chilean Office

## TECHNICAL DEVELOPER



SOBIERNO DE SANTIA

Juntos, mejor región.

Local government









## CITIES'S PROJECT: HANGZHOU - SANTIAGO

#### **ACTION LINE 1: TASKS AND PRODUCTS**

Analysis of the state of the metropolitan regional transportation system and development of technical guidelines on an intelligent and planned transportation network.

#### **ACTION LINE 2: TECHNICAL TRANSFER**

Increased social appreciation of sustainable transport and strengthening of the institutional capacities of the regional government and transport management professionals.

#### **ACTION LINE 3: PROMOTION AND MILESTONES**

Promotion of the South-South Cooperation Group of Cities on Sustainable Transport and Air Quality, and promotion of exchanges and relations between cities to share experiences.









#### **Output 1**

Interviews with key stakeholders Gaps and needs.

### **Output 2**

Diagnosis of public transportation in the Metropolitan Region of Santiago (urban and rural).

#### **Output 3**

Strategy for the use of data and analytics for the management and planning of the bicycle lanes network.

#### **Output 4**

Emissions monitoring plan focused on the bicycle lanes network.









# Thank you!



