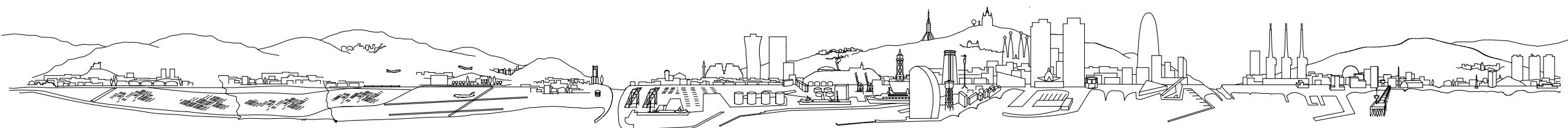


# Barcelona Metropolitan strategy towards electromobility



# Barcelona Metropolitan Area



# Metropolitan territory

**36 municipalities**

**636 km<sup>2</sup>**

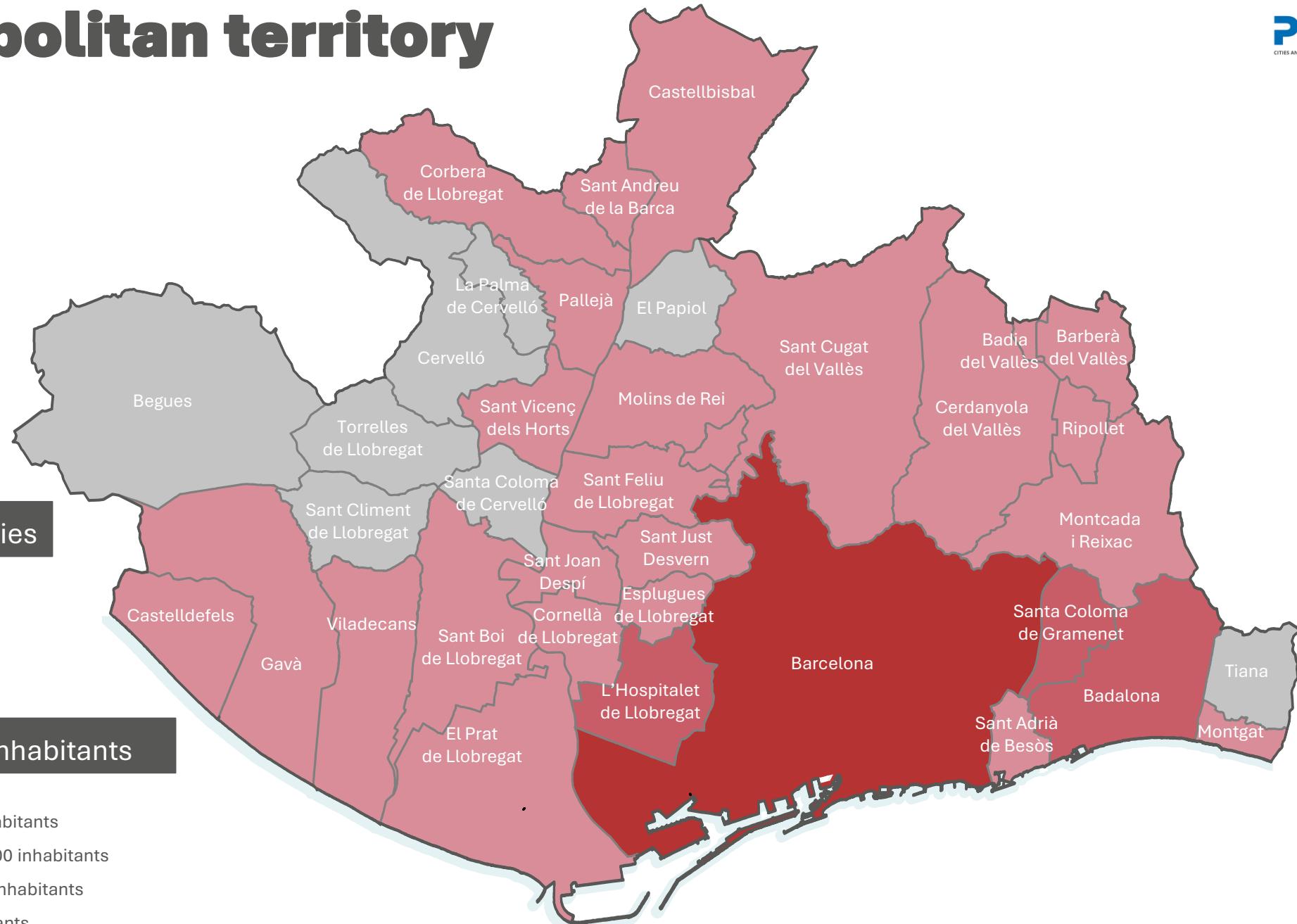
**3.35 million inhabitants**

More than 1,000,000 inhabitants

From 100,000 to 1,000,000 inhabitants

From 10,000 to 100,000 inhabitants

Less than 10,000 inhabitants



# Competences



Territory



Urbanism



Housing



Mobility and transport



Environment



Social and economic  
development

Innovation and digitalisation

Strategic planning

International action



# Mobility and transport

Sustainable mobility

Public transport



**11.2 M**

daily trips of metropolitan area  
of Barcelona's residents  
(2022)



**754 M**

metro and bus  
passengers



**545 km**

Bicivia network



**74.9 %**

sustainable mobility  
trips



**5,534**

bus stops



Collective urban public surface transport

Underground public transport service

Planning and administrative operation of the Taxi service

Metropolitan Urban Mobility Plan

Planning and management of cultural and tourist transport

Promotion of sustainable transport and mobility

Traffic programming in the basic road network



**239**

bus lines



**8**

metro lines



**10,517**

taxi licenses



Transports  
Metropolitan  
de Barcelona



Soler i Sauret



Baixbus



avanza



moventis



MONBUS



Transports  
Metropolitan  
de Barcelona



# Services



Bus Metropolità (TMB)



Bus Metropolità (indirect management)



Metro



Taxi



Park and ride



Low emissions zones



Electric stations



Bicivia



Bicibox service



AMBici service

# Social and economic benefits of the transport electrification

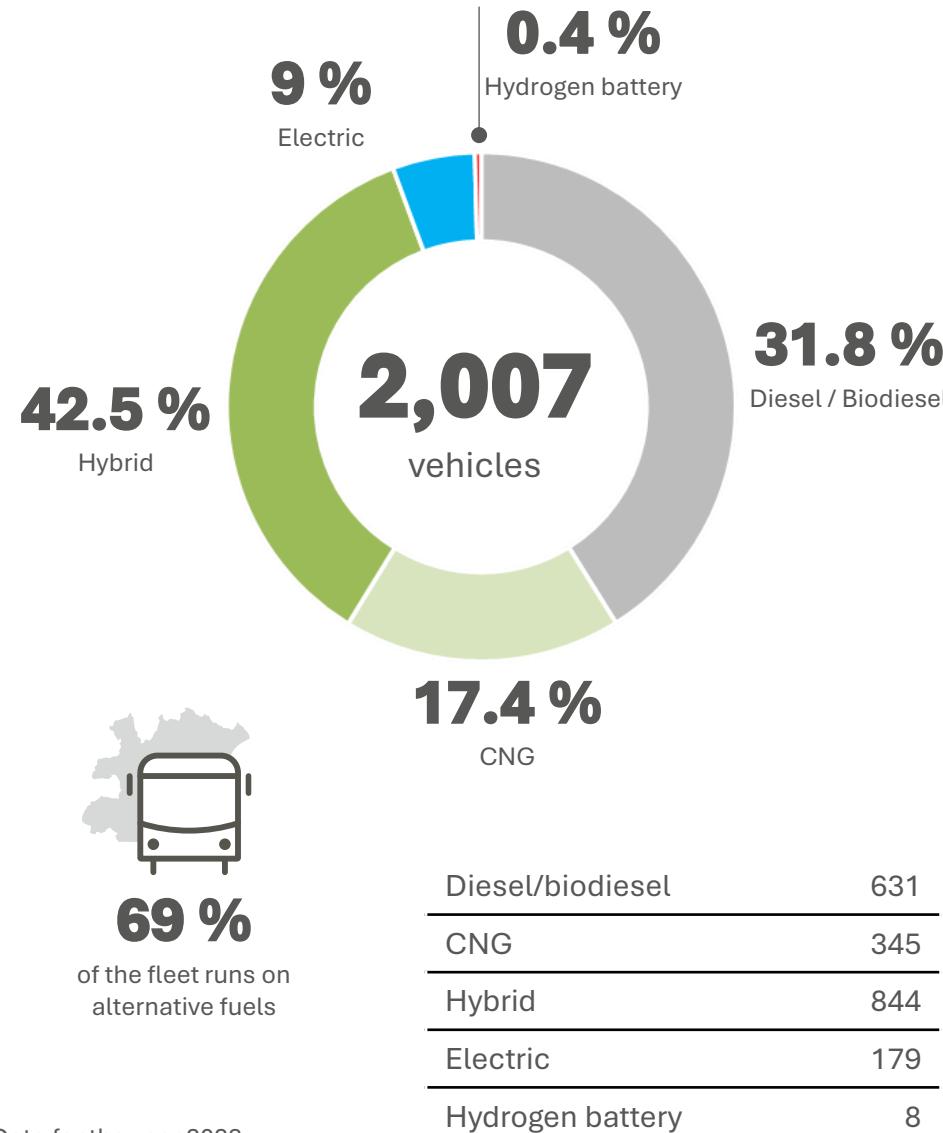


- Improvement of public health
- Better air quality
- Reduction of noise pollution
- Improving the habitability and urban environment



- Promotion of the sustainable business fabric
- Job creation

# Bus fleet



# Bus fleet

End of 2024: 76% fleet with alternative fuels

+ 1.500  
Low  
Emission  
Buses

(46% híbrids,  
17% GNC,  
11% electric,  
2% hidrogen)

Mid-term electrification:

- Forecast TMB: up to 300 buses
- Forecast AMB: up to 250 e-buses by 2030

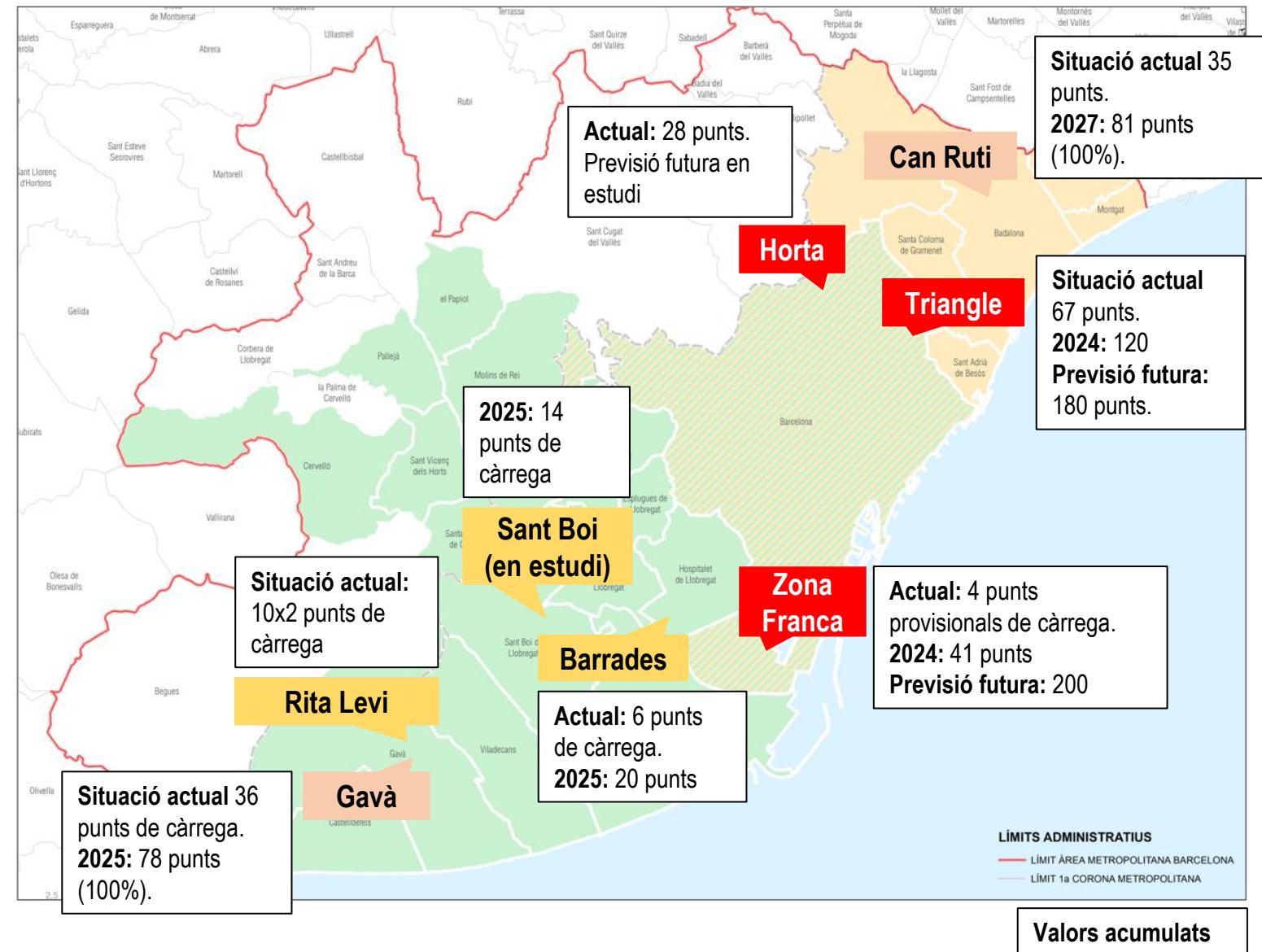


# Buses charging infrastructure

## Challenges:

- Electrification of public depots  
200 electric parking places in next years. 100 South-Llobregat and 100 North-Besòs.
- Electrification of private depots.  
Collaboration to adapt private depots of the operators to electrify. Next years the operator will have to add 100-150 electric parking places.

**TMB** Infr. TMB  
**AMB** Infr. public AMB  
**AMB** Infr. private - services AMB



# ZBE. Low emissions zones



**+14,000**

people who have switched to public transport with the T-verda



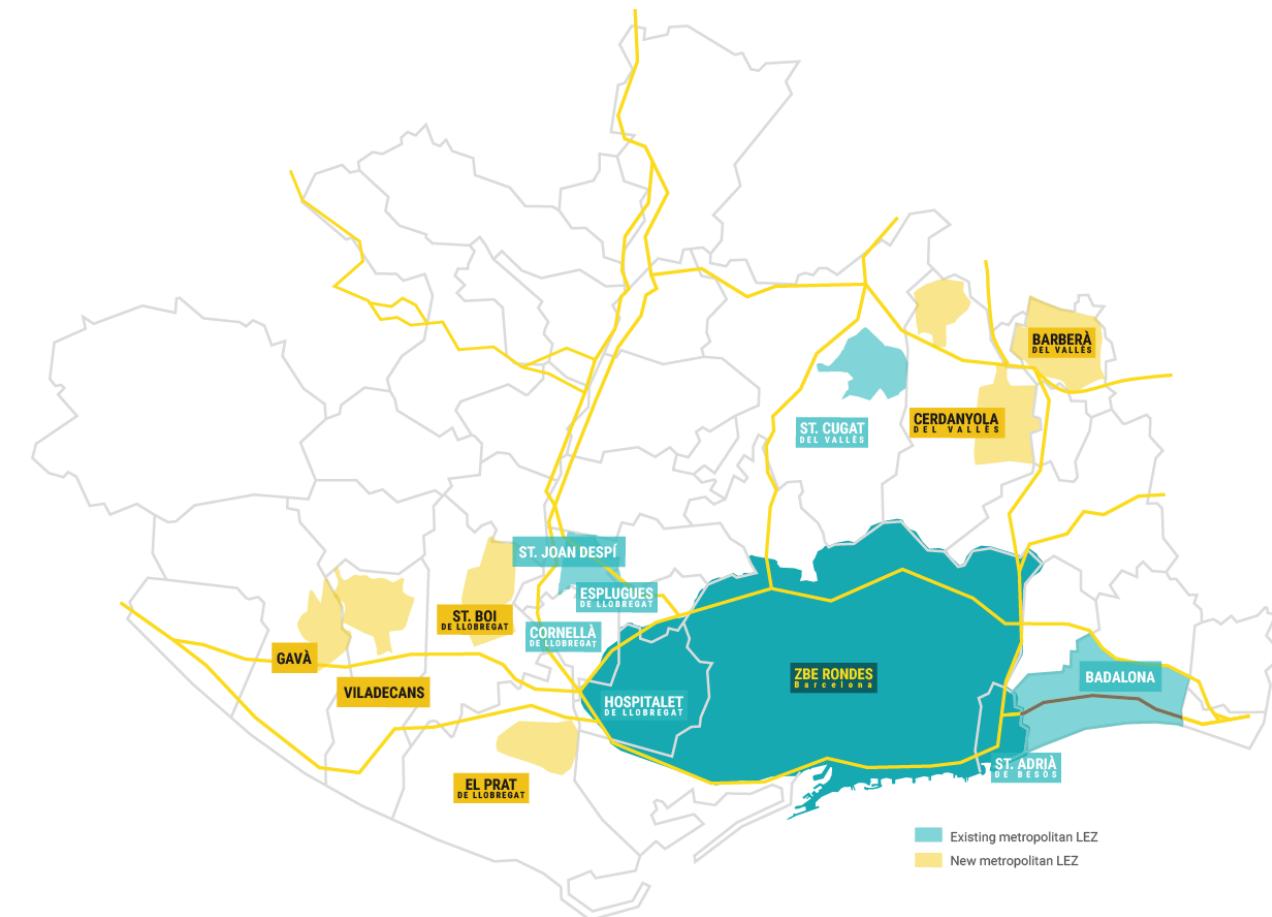
**98 %**

reduction of the number of most polluting vehicles driving in the area



**30 %**

reduction of emissions in Barcelona



On January 1<sup>st</sup> 2020, the first permanent low emissions zone was put into operation. From Monday to Friday from 7 a.m. to 8 p.m. It restricts circulation to vehicles without an environmental label.

During 2021 and 2022, the restriction has been extended to vans, trucks, buses and coaches.

The T-verda is a free transport card delivered to users who scrap a polluting vehicle. This card allows unlimited free use of public transport during three years.



# AMBici

Metropolitan shared electric bike

Operational since January 30<sup>th</sup> 2023



**204**

stations in 15 municipalities



**2,255**

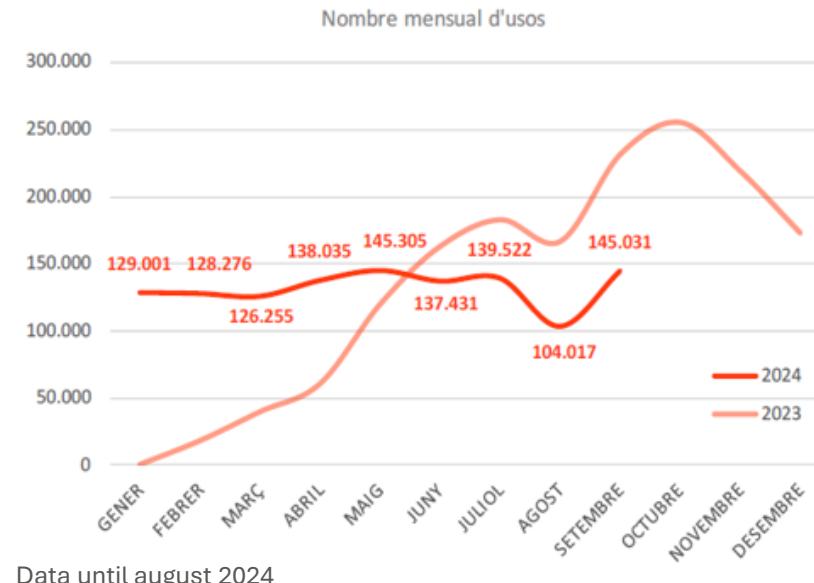
electric bikes in service



**16,866**

active users

## Utilisation



Rati mensual d'usos per bicicleta i dia



# Motosharing

e-scooters metropolitan sharing system

*Barcelona*

*L'Hospitalet de Llobregat*

*Sant Just Desvern*

*Esplugues de Llobregat*

*Sant Feliu de Llobregat*

*Santa Coloma de Gramenet*

*Sant Adrià de Besòs*

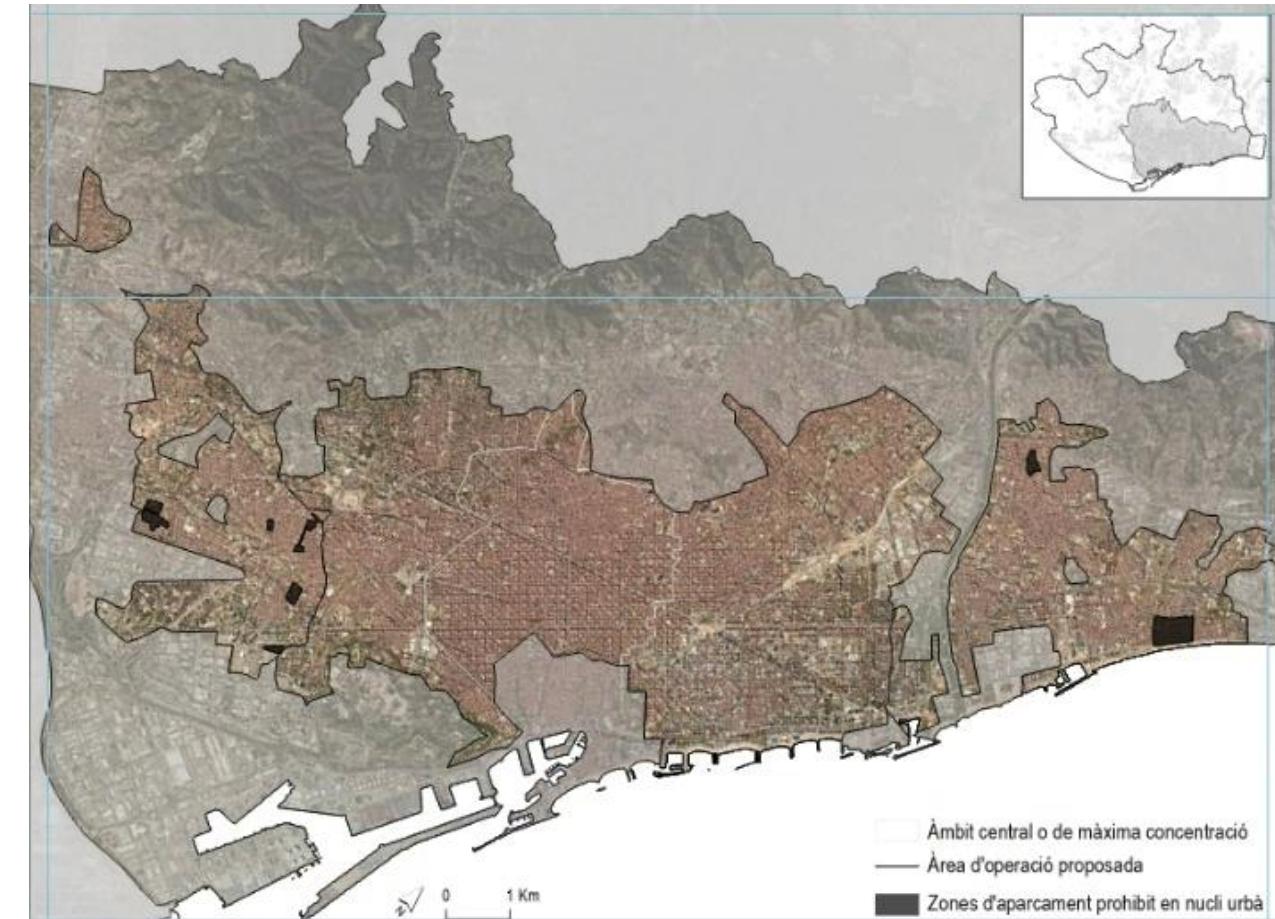
*Badalona*

8  
municipalities

9.950  
e-scooters

D'1,6M a  
2,5M  
inhabitants

**1.800 to 9.950 electric scooters:**  
**The largest regulation of shared electric scooters on the European continent**



hori

Hori  
2.050 motos



Yego  
2.050 ciclomotores



cooltra  
1.950 ciclomotores



Go sharing  
1.950 ciclomotores



Acciona  
1.950 motos

# Electric charging network



**12,300**

registered users



**70,000**

charges / year

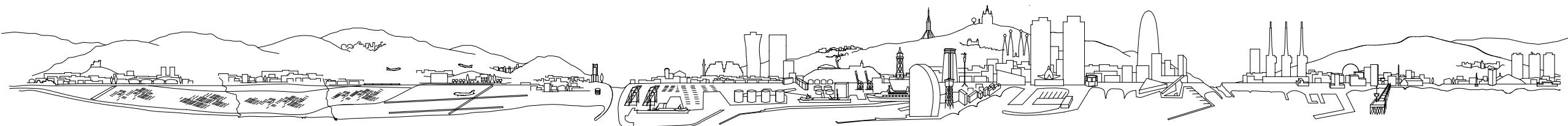
70 electric stations at the end of 2024.  
100 in 2025. The AMB network will be one of  
the largest public fast EV charging networks  
in southern Europe

All electric stations have at least one quick  
charging point.

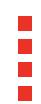
Data for the year 2023



[www.amb.cat](http://www.amb.cat)



**AMB**



Àrea Metropolitana  
de Barcelona