

### **Barcelona Parking Strategy**

**Curb management challenge** 

**Mobility Department** 

**Barcelona City Council** 

November 2023



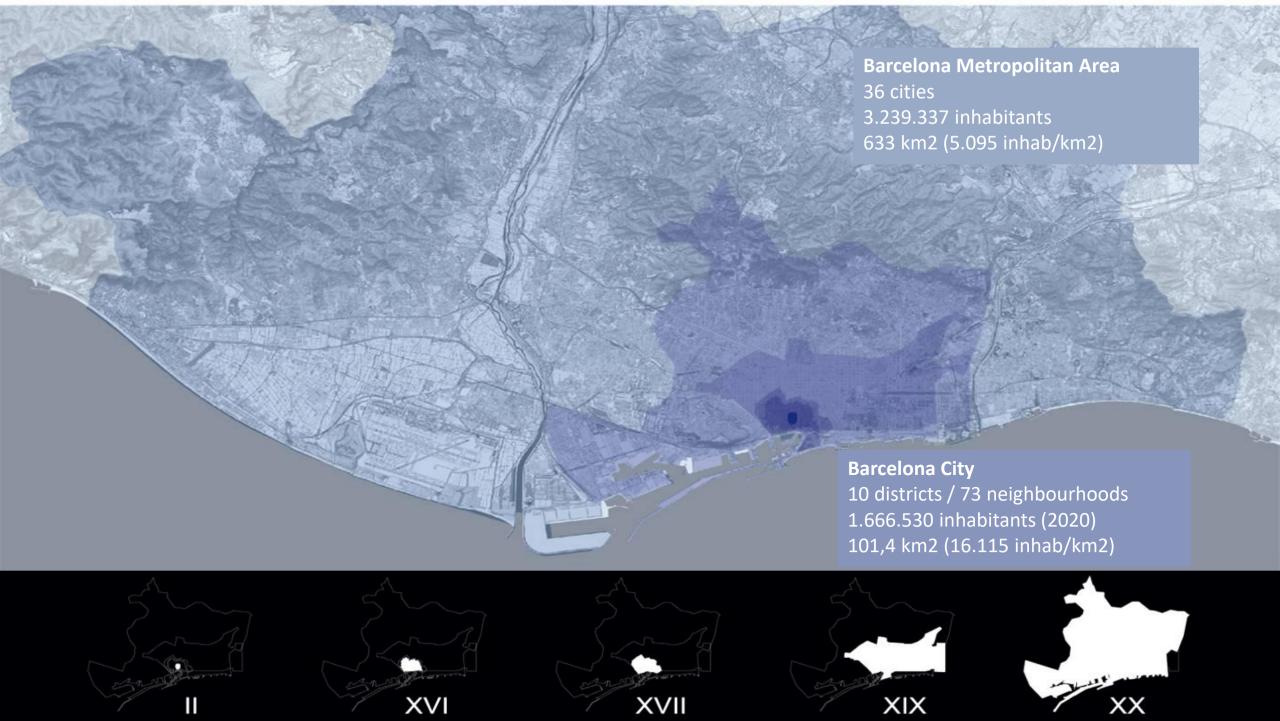
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# Barcelona parking data







### **RESIDENTS PARKING DEMAND**

### 1. Tipologia del parc de vehicles. Any 2021

1.1. Per Barcelona	
Tipologia	TOTAL
TOTAL	811.673

Turismes	471.145
Motos	220.656
Ciclomotors	49.341
Furgonetes	38.320
Camions	14.650
Remolcs i semiremolcs	7.237
Vehicles d'obres i serveis i altres	7.836
Autobusos	2.488

Font: Ajuntament de Barcelona. Departament d'Estadística i Difusió de Dades. Cens de Vehicles 2021



### 2. Índex de motorització del parc de vehicles per 1000 habitants. Any 2021

### 2.1. Per Barcelona

Tipologia	Vehicles/1000 habitants
TOTAL	488,9

Turismes	283,8
Motos	132,9
Ciclomotors	29,7
Furgonetes	23,1
Camions	8,8
Remolcs i semiremolcs	4,4
Vehicles d'obres i serveis i altres	4,7
Autobusos	1,5

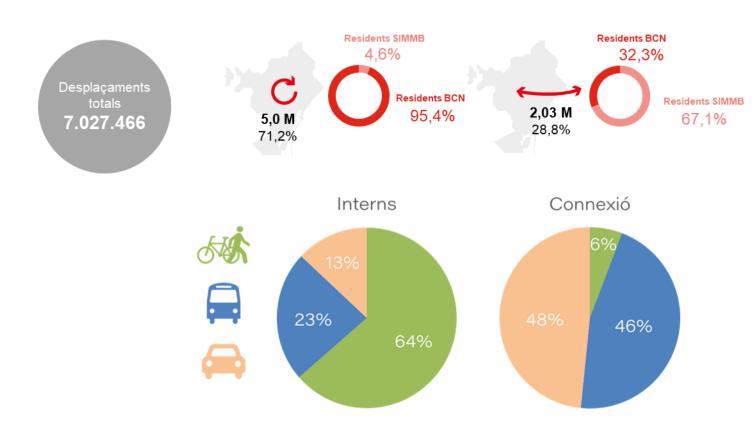
Font: Ajuntament de Barcelona. Departament d'Estadística i Difusió de Dades. Cens de Vehicles 2021. Lectura del Padró Municipal d'Habitants a 1 gener 2021







### **COMMUTERS PARKING DEMAND**

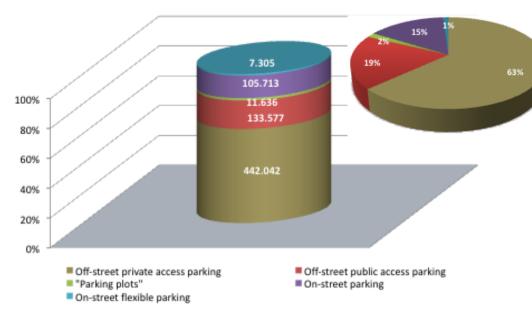


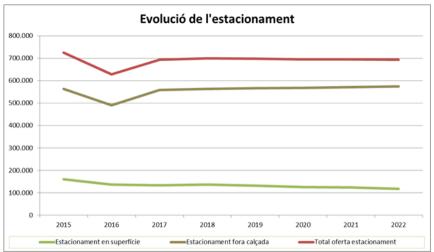


250.000 motorized vehicles come into the city daily and require parking slots



### **TOTAL CAR PARKING OFFER**



















## Barcelona SUMP 2024





### **PARKING STRATEGY – SUMP**

### 7 KEY OBJECTIVES

- 1. Increase modal share of sustainable modes: walking (+7,5%), public transport (+15,7%) and bicycle (+129%).
- 2. Guarantee the right to mobility, increasing and improving pedestrian areas accessibility and safety.
- 3. Increase and enhance **urban and metropolitan public transport network** and boost construction of new and pending infrastructures.
- 4. Increase and improve cycle infrastructure as well as safety, parking, coexistence and intermodality of bicycles and scooters.
- **5. Conditioning use of motorized vehicles**, encouraging energy transition towards clean energies, parking regulation, efficiency and sharing.
- **6. Extend logistics regulation** and improving sustainability, efficiency and territorial integration.
- **7. Move from mobility to** safety, efficient and sustainable **mobility services** focused on clients and using ICT, Internet and data management.

Note: Barcelona is currently updating its SUMP



Pla de Mobilitat Urbana de Barcelona 2019-2024



### Reviewing and improving parking management



### Goals

- Drive the modal shift and reduce pressure on the public highway to improve the quality of the public space.
- Minimise on-street parking at destination through measures that discourage journeys with a private vehicle to Barcelona.







### **Actions:**

Adapting parking management and regulation tools to citizens' new requirements.

- 1. Developing and implementing the city's Parking Strategy.
- 2. Extending the regulation of the Area throughout the city, until achieving 90% of the regulated on-street spaces.
- Promoting the use of off-street car parks.
- 4. Identifying the deficit of off-street residential parking and evaluating the possibility of building new off-street car parks for local residents.
- Reducing the number of on-street parking places.
- 6. Minimising the increase of new off-street rotation places.
- 7. Promoting a network of car parks with more diversified mobility services (bicycles, motorcycles, UGD, e-vehicles and shared vehicles).
- 8. Improving accessibility to off-street car parks, especially for people with reduced mobility.



Pla de Mobilitat Urbana de Barcelona 2019-2024



### Improving management of motorbike parking



### Goals

- Organise motorbike parking.
- Minimise and regulate parking on pavements to reduce the impact on pedestrian spaces.
- Create and regulate limited on-street parking in accordance with the increase in the number of off-street parking spaces.







### **Actions:**

Motorbike parking must be planned so that its impact on the urban space is minimised and peaceful coexistence between motorcyclists and pedestrians is ensured.

- 1. Developing and implementing the city's Parking Strategy.
- 2. Creating new on-street parking places for motorbikes.
- Increasing control on illegal parking on pavements.
- 4. Expanding the areas where motorcycle parking on pavements is prohibited.
- 5 Studying a flexible parking model for motorcycles.
- 6. Encouraging motorcycle parking in off-street car parks, by increasing the number of available places at competitive prices.
- 7. Studying the introduction of regulated parking for motorbikes (Green Area/Blue Area).



## 03 Parking strategy scope





### **PUBLIC SPACE PERSPECTIVE**

On-street parking management is a key factor to enhance public space quality as on-street parking has:

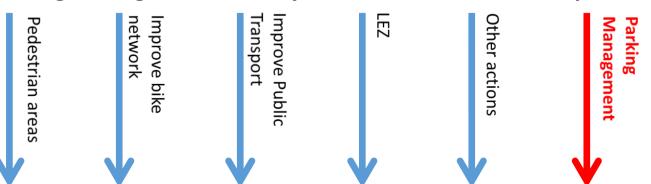
- A. High occupancy of public space.
- B. High visual impact.
- C. Impact on **pedestrian areas**, bicycles and public transport, which is even worse in case of **indiscipline** and it is specially critical due to **huge urban compactness** and **limited public space**.





### **MOBILITY PERSPECTIVE**

Parking management is a key factor to boost the transport modal change.



<u>To dissuade</u> citizens to use private cars.

<u>To discriminate positively</u> the most sustainable vehicles (bicycles, electric cars, sharing...)

### **MOBILITY CHANGES**

















04

Parking criteria implementation



**VEHICLE TYPE: CARS. ORIGIN** 

### **GOAL IN ORIGIN:**

To minimize the deficit of off-street parking spaces for residents

### **CARS GENERAL GOAL**

To boost a transport modal change and to reduce public space occupancy

### **ACTIONS IN ORIGIN:**

- > To identify the current deficit of residential off-street parking spaces per areas.
- > To dimension the residential on-street parking offer only to compensate the current deficit of residential off-street parking.
- > To transfer residential on-street parking to existing off-street parking.
- > To improve off-street parking quality to encourage users to use them.
- > To rebalance on-street and off-street parking rates to promote off-street parking.









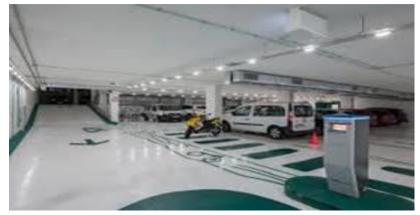
### **VEHICLE TYPE: CARS. DESTINATION**

### **GOAL IN DESTINATION:**

To minimize on-street parking in destination by implementing measures to dissuade the use of private cars inside Barcelona

### **ACTIONS IN DESTINATION:**

- > To improve more overcrowded destinations connectivity to public transport.
- > To reduce and regulate on-street parking spaces.
- To encourage users to use off-street parking.
- > To rebalance on-street and off-street parking rates to promote off-street parking.
- To minimize creation of new rotation off-street parking spaces.
- > To boost new urban and metropolitan Park & Ride for cars and motorbikes.





### CARS GENERAL GOAL

To boost a transport modal change and to reduce public space occupancy





### **VEHICLE TYPE: MOTO**



To minimize and regulate motorbike sidewalk parking to reduce its impact on

**GOAL**"Tidy up" motorbike parking

To increase parking spaces and regulate on-street parking



To increase off-street parking use by increasing the offer of parking spaces and competitive rates









### **VEHICLE TYPE: BICYCLES**

### **On-street**

To increase number of on-street parking spaces as part of the bicycle network improvements.

### Off-street

To increase number of off-street parking spaces and promote them.

### **GOAL**

To increase offer of tidy and secure bicycle parking spaces

### **Modal hubs**

To promote intermodality by building high capacity parking near by main train stations and metropolitan bus stations.

### **Residential buildings**

To boost bicycle parking spaces inside residential buildings

### **Work centres**

To boost bicycle parking spaces inside work centres and schools as well as to promote active mobility

### Malls

To boost bicycle parking spaces inside malls and enable specific parking areas for "riders"

### Touristic, leisure and cultural areas

To promote the use of bicycles for touristic trips







# Curb Management









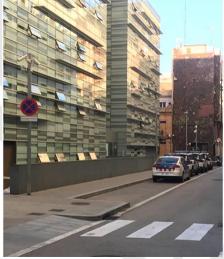
















### **LOGISTICS**

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### **OTHER SERVICES**

Waste containers Electric vehicles (charging points)

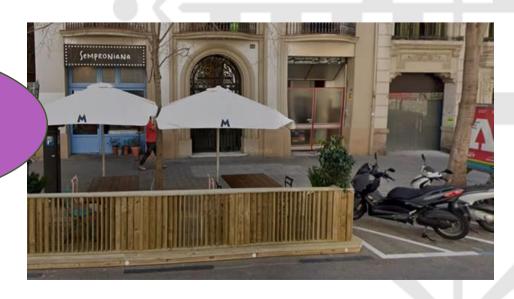




### **OTHER USES**

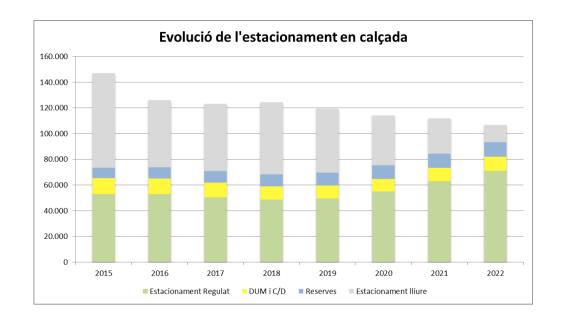
Bar/Restaurant terraces School protection areas

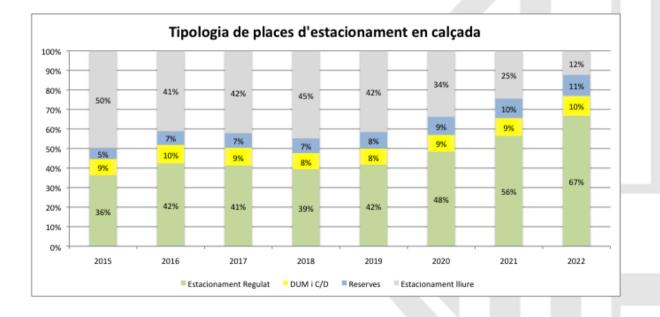




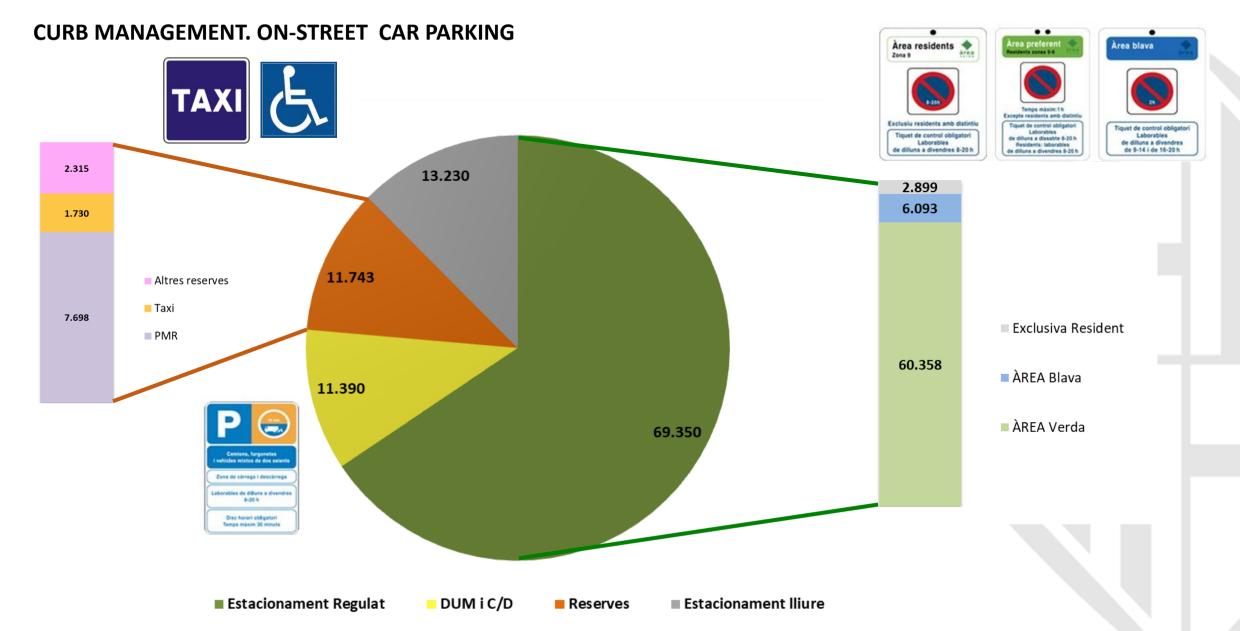


### **CURB MANAGEMENT. ON-STREET CAR PARKING**



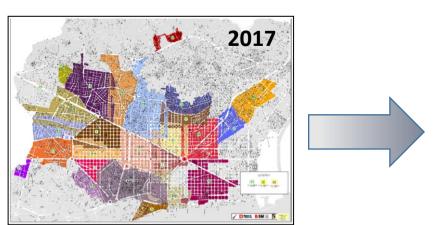


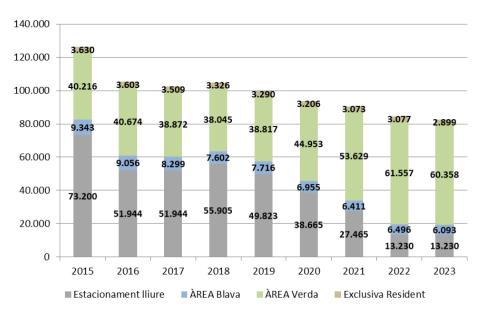


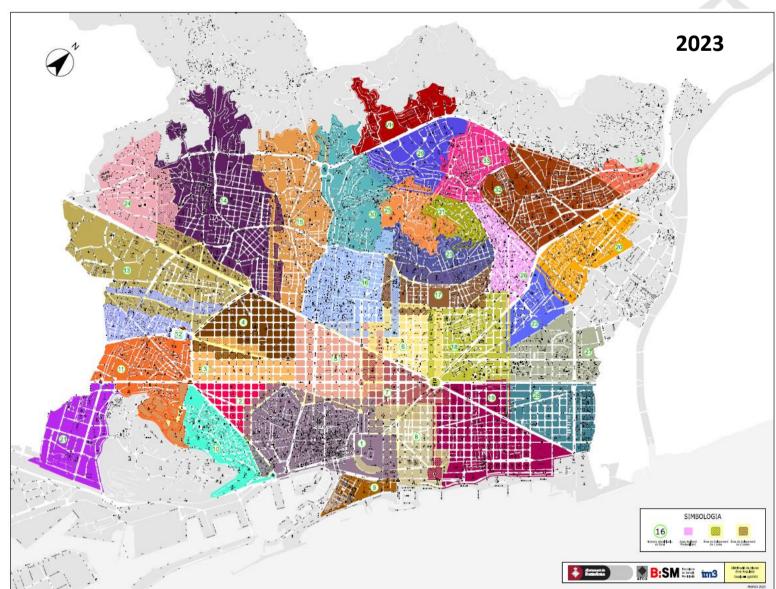




### **CURB MANAGEMENT. ON-STREET REGULATED CAR PARKING AREA**









### **CURB MANAGEMENT. ON-STREET REGULATED CAR PARKING AREA. RATES (2023)**

Classificació DGT	AREA Blava A	AREA Blava B	AREA Verda A	AREA Verda B	Residents	
	€/h	€/h	€/h	€/h	€/dia	
"Cero emisiones"	0,00€	0,00€	0,50€	0,50€	0,20€	
ECO	2,50€	2,25€	3,00€	2,75€	0,20€	
Etiqueta C	3,25€	3,00€	3,75€	3,50€	0,20€	
Etiqueta B	3,50€	3,25€	4,00€	3,75€	0,20€	
Resta vehicles	3,75€	3,50€	4,25€	4,00€	0,20€	

In the event that an episode of pollution has been activated, the rate will be increased by the amount of 2.00 euros/hour in all cases, except for "Eco" and "zero emissions", in which it will exceptionally be 0,00 euros/hour.



### **CURB MANAGEMENT. CURB FLEXIBLE USE**





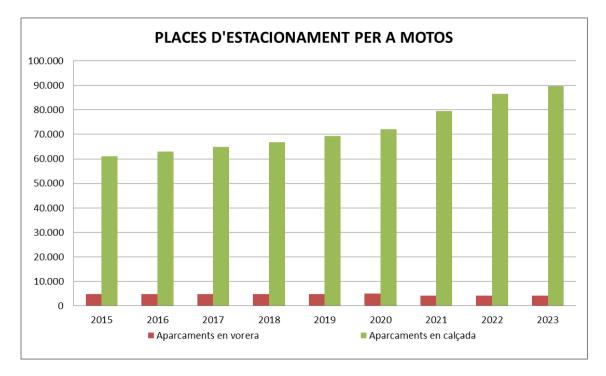


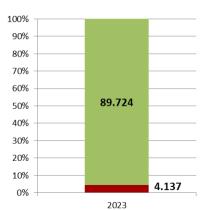




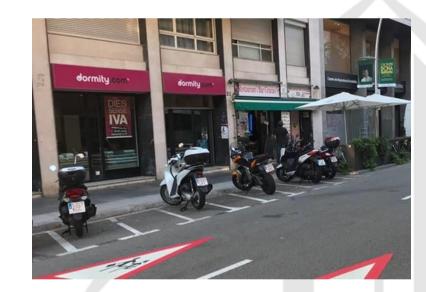


### **CURB MANAGEMENT. MOTORBIKE PARKING**





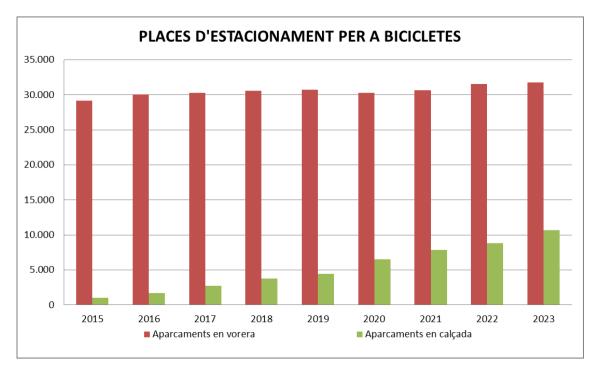
MOTOCICLETES	2015	2016	2017	2018	2019	2020	2021	2022	2023
Aparcaments en vorera	4.961	4.898	4.808	4.825	4.765	5.149	4.238	4.179	4.137
Aparcaments en calçada	61.104	62.918	64.891	66.875	69.299	72.200	79.453	86.536	89.724
Total aparcaments en superfície	66.065	67.816	69.699	71.700	74.064	77.349	83.691	90.715	93.861

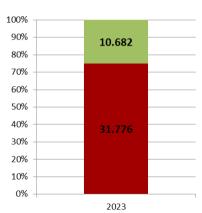






### **CURB MANAGEMENT. BICYCLE PARKING**





BICICLETES	2015	2016	2017	2018	2019	2020	2021	2022	2023
Aparcaments en vorera	29.211	30.031	30.299	30.605	30.701	30.316	30.693	31.582	31.776
Aparcaments en calçada	1.037	1.719	2.717	3.812	4.434	6.539	7.893	8.852	10.682
Total aparcaments en superfície	30.248	31.750	33.016	34.417	35.135	36.855	38.586	40.434	42.458







### Thank you

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