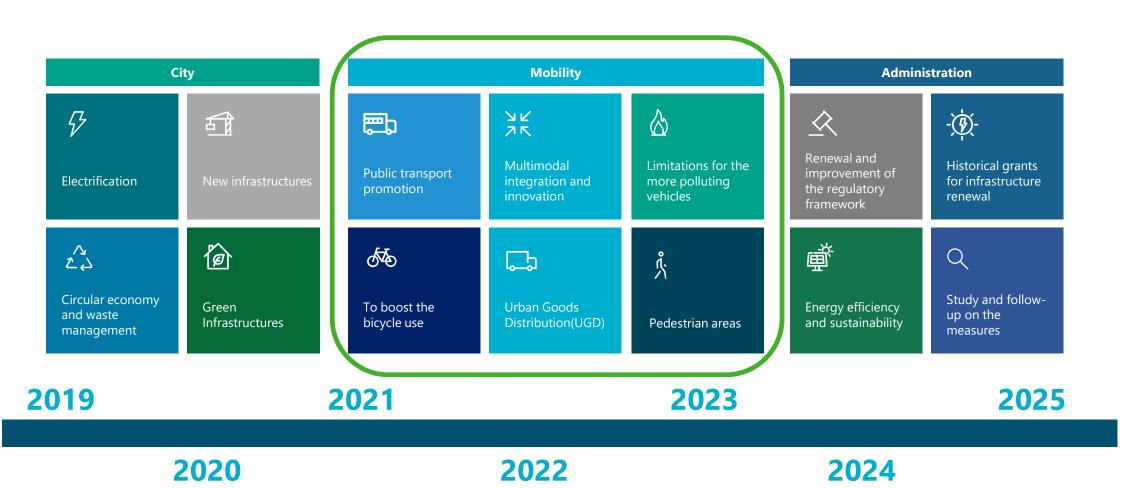


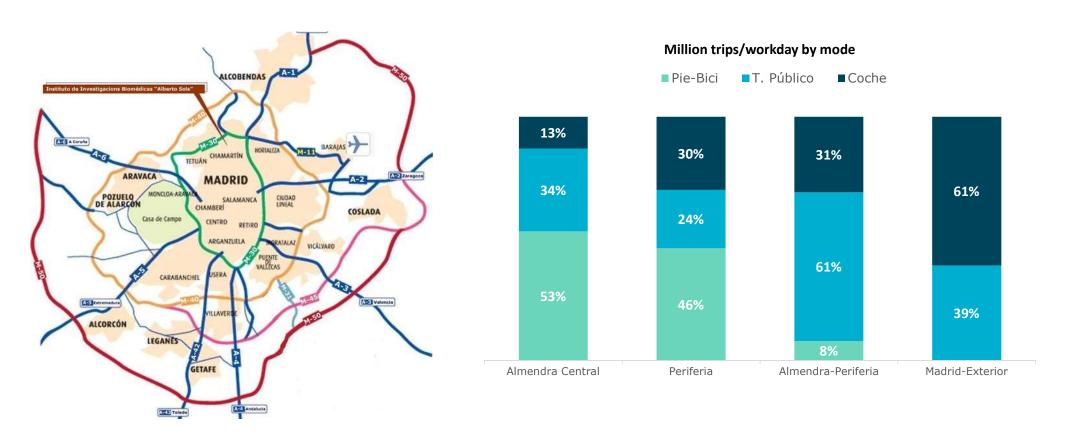
# **SUMP**AND

# **MADRID 360 ENVIRONMENTAL SUSTAINABILITY STRATEGY**

# **MADRID 360 ENVIRONMENTAL SUSTAINABILITY STRATEGY**



# Where we started: Madrid 2019



2.25 million inhabitants living in periphery (75% of population)750.000 jobs in Madrid's periphery

2030: + 1.5 million daily journeys in periphery

# **MOBILITY OBJECTIVES**

# **TEN-T NETWORK**

# **Sustainability**

Decarbonizing transport

#### **Cohesion**

Geographical coverage and multimodality

# **Efficiency**

Digitalisation and interoperability

### **User benefits**

Promoting high quality while ensuring affordability

# MADRID (SUMP)

# **Safety**

High quality transport network

# **Wellbeing**

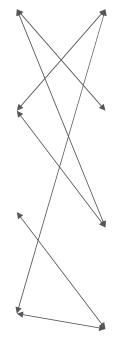
Reducing contamination through active mobility

# **Sustainability**

Modal shift through inclusivity & accesibility

### **Efficiency**

Reducing travel time



**SUMP related to TENT-T Network** 

# **10 SUMP MEASURES**

- More public transport
- **2.** Improving transport infrastructure
- **3.** Promoting active mobility
- 4. Managing parking for sustainability 9. Moving towards safe mobility
- 5. Modal integration through innovation & multimodality

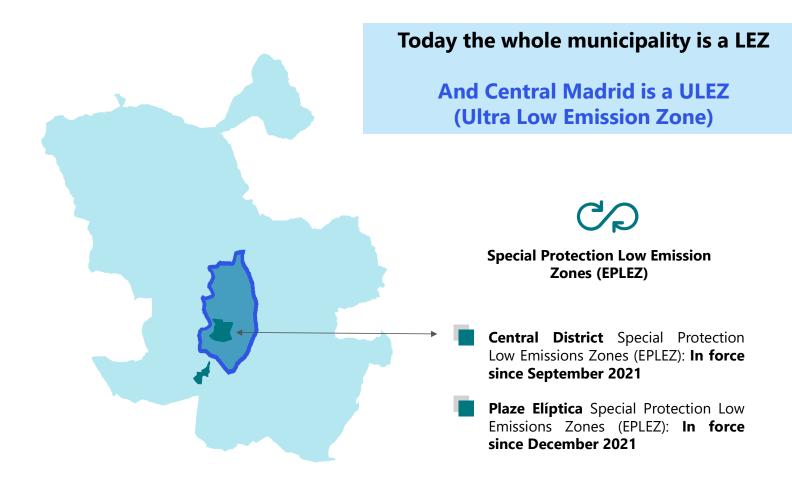
- **6.** Shift to cleaner vehicles
- 7. Optimization of urban logistics
- 8. Technological change
- 10. Encouraging responsible mobility

# **SUMP MEASURES**



# Madrid Low Emission Zones (LEZ)

- In force since January 2022
- Implementation in 4 phases
- Covering the entire city
- 4 months pre-warning period



- >> SHIFT TO CLEANER VEHICLES
- >> SHIFT TO MORE SUSTAINABLE MODES

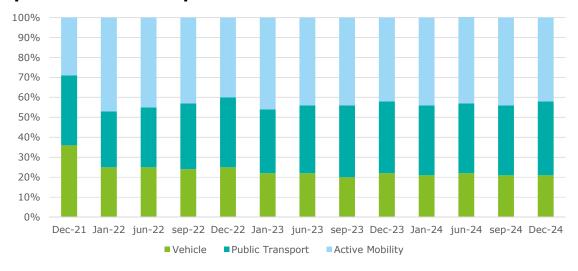
#### **SUMP MEASURES**

# LEZ, ULEZ >> SHIFT TO MORE SUSTAINABLE MODES

# How regulation and enforcement has helped?



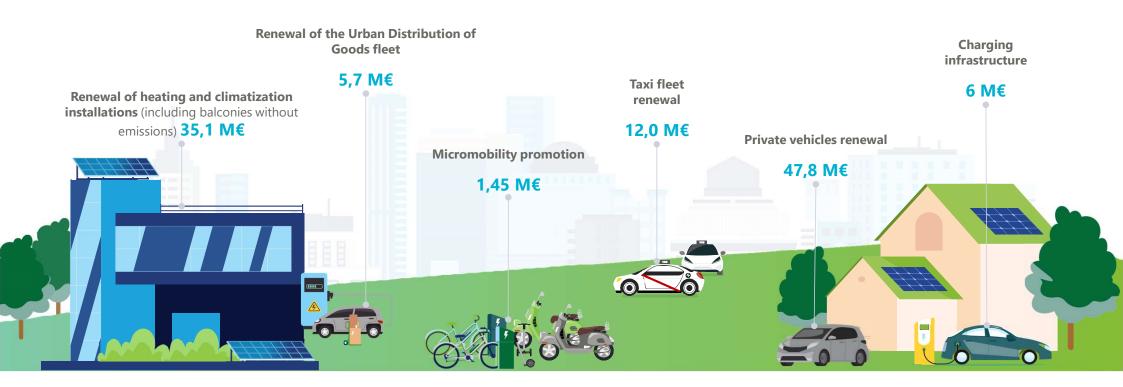
- Modal split has stabilized since 2023: the vehicle represents around 21%
- The greatest impact has been seen when sanctioning started.
  - √ 140 thousand vehicle trips less
  - ✓ reduction of 10 percentage points in the modal split
- In total the weight of the vehicle has been reduced by 15 percentage points since the implementation of the LEZ.



# SUMP MEASURES. SHIFT TO CLEANER VEHICLES.

# How can cities guarantee inclusion and avoid poverty in transport?

Strategic grants accompany the implementation of the Low Emission Zone to foster public acceptance of the measures implemented



# SUMP MEASURES. MULTIMODALITY THROUGH INNOVATION.

What is the best spatial focus for our strategies?

Spreading benefits equally in all communities requires a thorough understanding of peoples' needs and customized solutions



### **Park and ride facilities**

- ✓ Public transport
- ✓ Charging infrastructure
- ✓ Carsharing
- ✓ Bicycle (and PMV) parking

# SUMP MEASURES. MULTIMODALITY THROUGH INNOVATION.

What is the best spatial focus for our strategies?

Spreading benefits equally in all communities requires a thorough understanding of peoples' needs and customized solutions

# **Mobility hubs**

- ✓ Charging infrastructure
- ✓ Carsharing
- ✓ Motosharing
- ✓ Battery swapping
- ✓ Bicycle (and PMV) parking
- ✓ Logistics

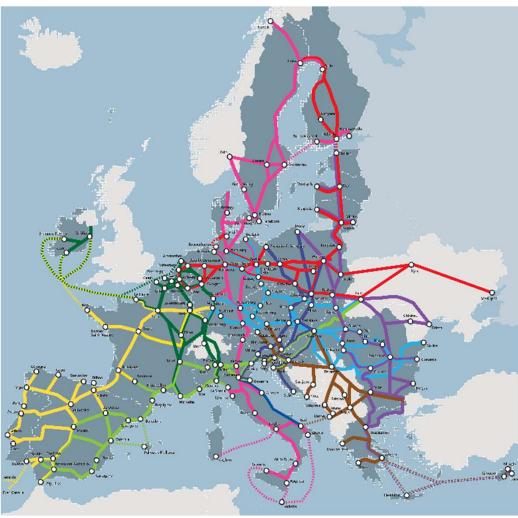


# **TEN-T NETWORK**

**Madrid belongs to 2 TEN-T Networks** 

# **TEN-T NETWORK**





# **URBAN NODES**

Points of origin, destination and transfer of passenger and freight

49 Urban nodes in Spain

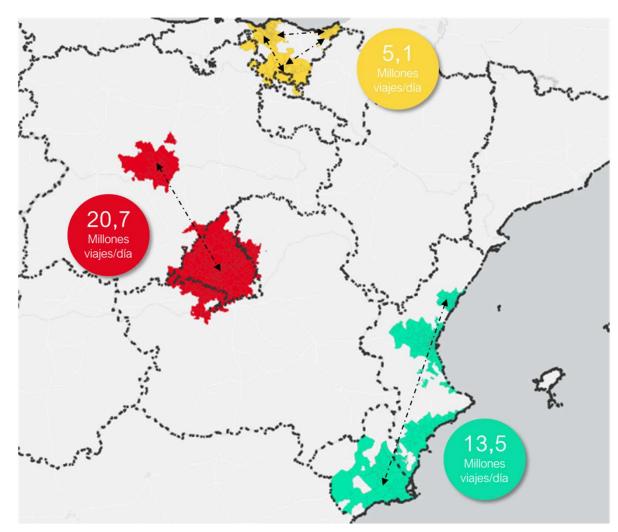


# **FUNCTIONAL URBAN AREA**

# MINISTRY OF TRANSPORT & SUSTAINABLE MOBILITY

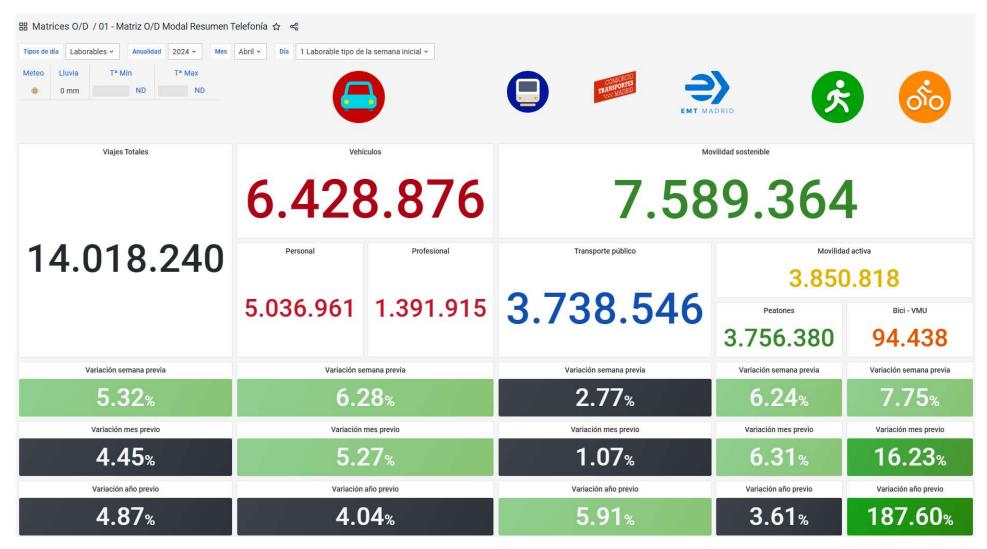
# Debate governance issues and prepare urban nodes for the implemeting act

- ✓ Local administration
- ✓ Regional administration
- ✓ Transport authorities
- Data ownership
- 2. Data sharing

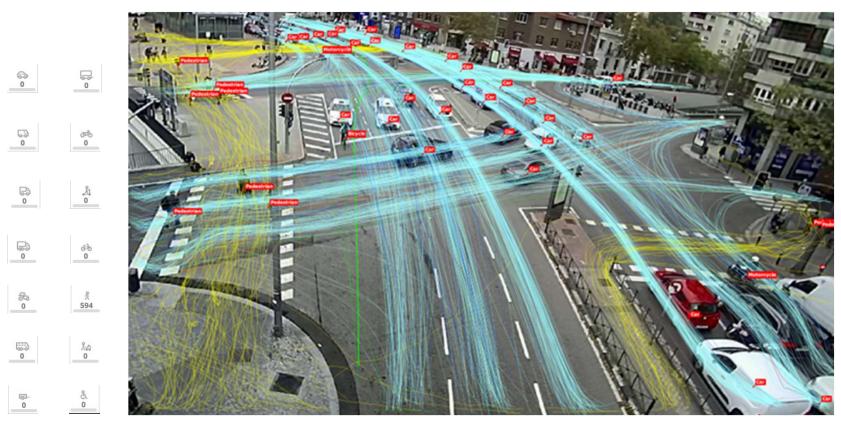


# MADRID MOBILITY MONITORING AND EVALUATION

# MADRID MOBILITY MONITORING AND EVALUATION



# MADRID MOBILITY MONITORING AND EVALUATION



0 0

Innovation and technology are key to addressing climate change by enabling emission reduction, resilience, and sustainable development. They support decarbonization through renewable energy, sustainable mobility with electric vehicles and AI traffic management, and a circular economy via smart recycling. Additionally, they enhance climate adaptation with predictive data and smart city solutions for efficient resource use.

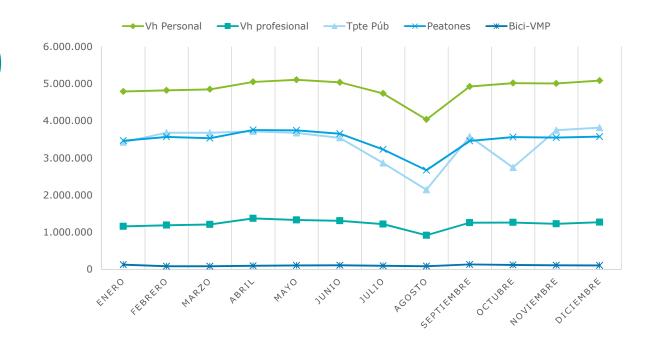
# **MOBILITY STATISTICS 2024**

How can we make changes introduced by measures permanent?

13 million daily trips

53% sustainable modes

Inside M30 (19% of total trips)
82,1% sustainable modes
25,4% public transport
56,7% active mobility



# ROADMAP TO CLIMATE NEUTRALITY FOR THE CITY OF MADRID

#### ROADMAP TO CLIMATE NEUTRALITY FOR THE CITY OF MADRID

The Roadmap to Climate Neutrality for the City of Madrid is a strategic plan to achieve net-zero carbon emissions before 2050, aligning with the European Green Deal.

#### **Key Objectives:**

- ✓ Reduce greenhouse gas emissions (GHG) in transport, energy, and buildings.
- ✓ Enhance energy efficiency and promote renewable energy.
- ✓ **Foster sustainable urban mobility**, including Low Emission Zones (LEZ) and electrification.
- ✓ **Strengthen climate adaptation** through resilient infrastructure and green spaces.
- ✓ Promote a circular economy and efficient waste management.



Projects and actions can help Madrid address the challenges posed by European regulations by **accelerating compliance** with key sustainability and mobility targets.

#### ROADMAP TO CLIMATE NEUTRALITY FOR THE CITY OF MADRID

#### **Main Actions:**

- **1.Sustainable mobility**: Expansion of LEZs, active mobility, and electrification.
- 2.Energy efficiency and urban renewal: Reduction of building energy consumption.
- **3.Renewable energy**: Solar power expansion and self-consumption initiatives.
- **4.Green infrastructure and climate adaptation**: More green spaces and heat island reduction.
- **5.Industrial and waste decarbonization**: Circular economy promotion.

Madrid is part of the **EU "100 Climate-Neutral Cities by 2030" initiative**, benefiting from EU funding and technical support to accelerate its transition.



# ROADMAP TO CLIMATE NEUTRALITY FOR THE CITY OF MADRID

#### **HOW TO MAKE THE INITIATED CHANGE PERMANENT**

To make the initiated change **permanent** for **climate neutrality in Madrid**, the city must focus on:

- **1.Regulatory & Policy Framework** Strengthening long-term policies and integrating EU regulations into local planning.
- **2.Sustainable Infrastructure** Investing in **green mobility, renewable energy, and circular economy projects** to ensure lasting impact.
- **3.Public & Private Sector Collaboration** Engaging businesses and citizens in sustainable practices through incentives and partnerships.
- **4.Education & Awareness** Promoting climate literacy to build a culture of sustainability.
- **5.Monitoring & Adaptation** Establishing clear KPIs to measure progress and adjust strategies as needed.

# Thank you!



Maria José Aparicio Sanchiz Madrid City Council **Mobility General Coordinator**