



TWIN TRANSITION: DE LA ESTRATEGIA A LA IMPLEMENTACIÓN A TRAVÉS DE INNOVACIÓN, TECNOLOGÍA Y COLABORACIÓN, CON LA MOVILIDAD COMO EJE TRANSFORMADOR

Colaboración estratégica entre CARTIF y el Ayuntamiento de Madrid para impulsar la transformación digital y ecológica mediante soluciones reales de movilidad urbana.

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CARTIF



Centro Tecnológico

CARTIF

CARTIF Technology Center

AGRIFOOD AND PROCESSES



Circular Economy



Biotechnology and Sustainable Chemistry



Natural Resources and Climate



Agrifood



Testing Laboratory

ENERGY



Energy Efficiency



Smart Cities



Energy Systems



Smart Grids



Energy and Climate Policy

INDUSTRIAL AND DIGITAL SYSTEMS



Industry 4.0



Natural and Cultural heritage



Industrial Solutions



Construction and Infrastructures



Health and Wellness

CARTIF

Business models

CARTIF develop R&D projects for companies, offering personalized technological services and technological consulting of the highest level.

CARTIF develop R&D projects financed by public funds reached in national and international competitive calls.

CARTIF advise public administrations (city councils and regional governments) in the **planification and development of innovative projects** with high economic return.

01.

COLABORACIÓN ESTRATÉGICA: OBJETIVOS EN SINTONÍA





1. Strategic Framework



2. Technology Strategy



3. Operative Framework

- ▶ 5G Forum
- ▶ Enterprise Forum



Public-private collaboration

- ▶ UPM
- ▶ IoTLAB



Digital Transformation office:

- ▶ 5G Technical office



4. Main Current Activities

- ▶ Intelligent Urban Spaces (Espacios Urbanos Inteligentes)



- ▶ 5G Corridors



- ▶ Demonstrative projects



- ▶ 5G Agenda Update



IA



Cibersecurity



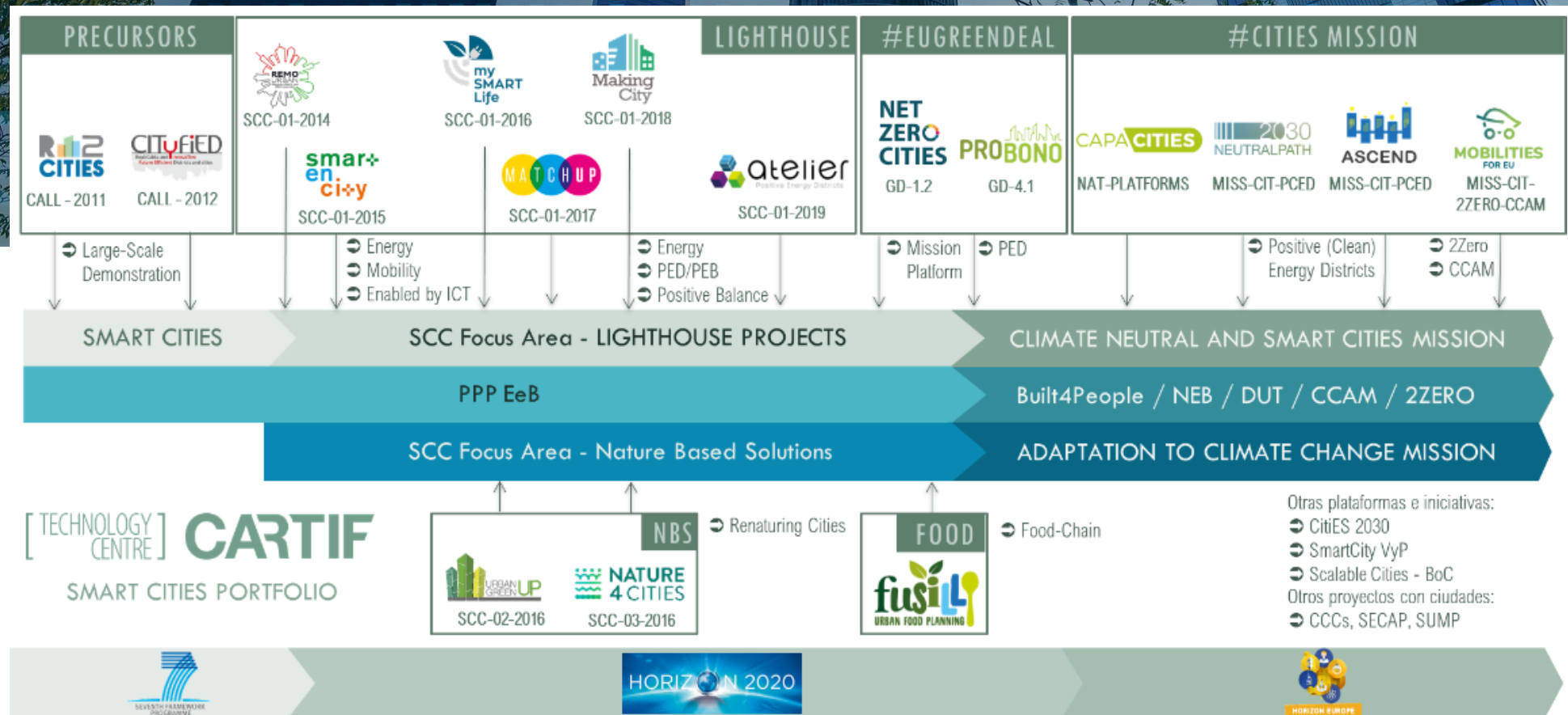
Data Strategy



Sustainability



Govtech



Colaboración natural

Construir sobre la colaboración natural, sin forzar procesos ni resultados.

Innovación urbana

CARTIF impulsa la innovación tecnológica, desarrollando y validando soluciones en entornos urbanos reales.

Ecosistema Madrid

Madrid ofrece un laboratorio urbano único, ideal para la implementación y validación de nuevas soluciones junto con su ecosistema de innovación.

Participación ciudadana

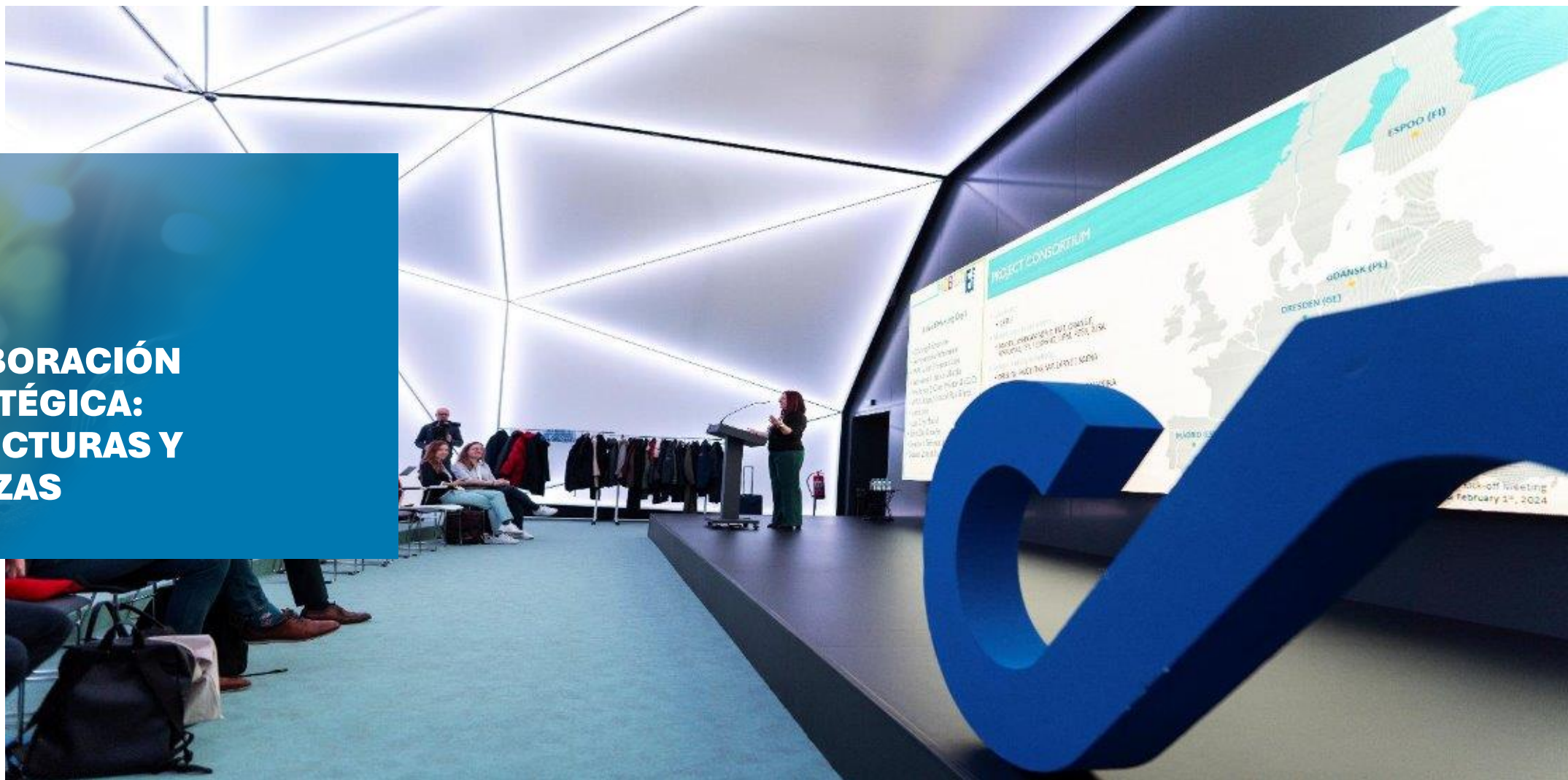
La ciudad facilita el contacto directo con la ciudadanía, promoviendo una adopción más cercana y participativa.

Valor compartido

La colaboración genera valor compartido, integrando soluciones adaptadas a las necesidades locales y mejorando la gestión sostenible e inteligente de la ciudad.

02.

COLABORACIÓN ESTRATÉGICA: ESTRUCTURAS Y ALIANZAS



PÚBLICO

PRIVADO



Capital
Digital



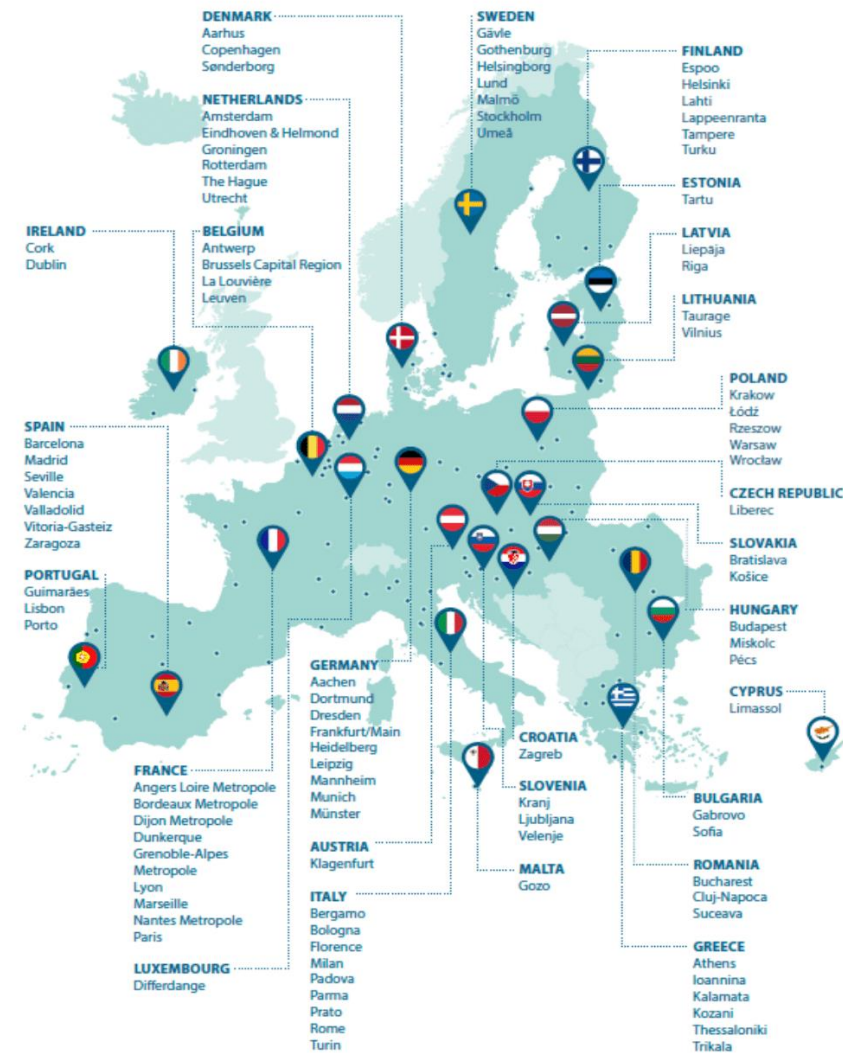
MADRID

E. PÚBLICA

I+D+i

EMPRESAS

CIUDADANOS



03.

**COLABORACIÓN
ESTRATÉGICA:
RESULTADOS TANGIBLES
“MOBILITIES FOR EU”**



PROJECT COORDINATOR:

[TECHNOLOGY
CENTRE] **CARTIF**

LEAD CITIES:

 **MADRID**

 **Dresden.**
Die Stadt

MADRID ECOSYSTEM:



















DRESDEN ECOSYSTEM:













REPLICATOR CITIES:













CROSS-CUTTING PARTNERS:

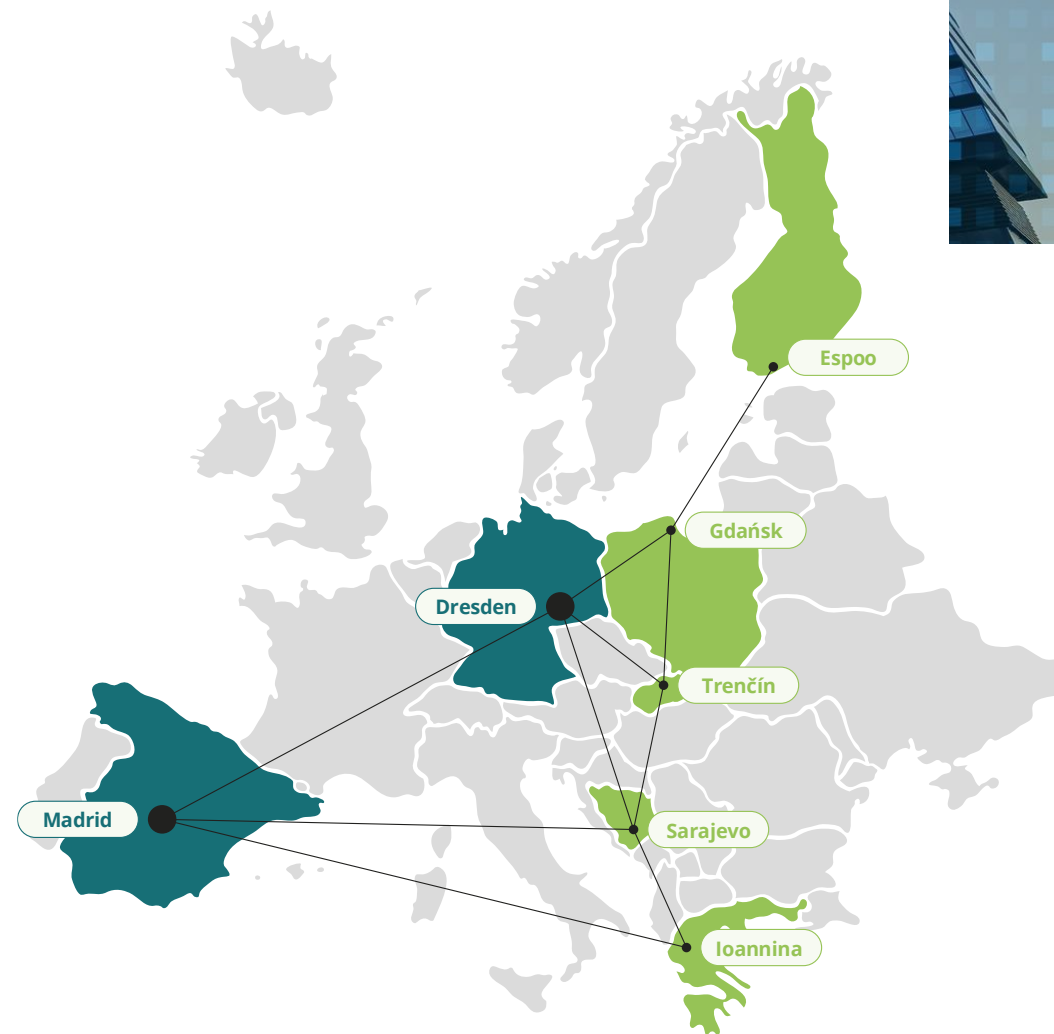














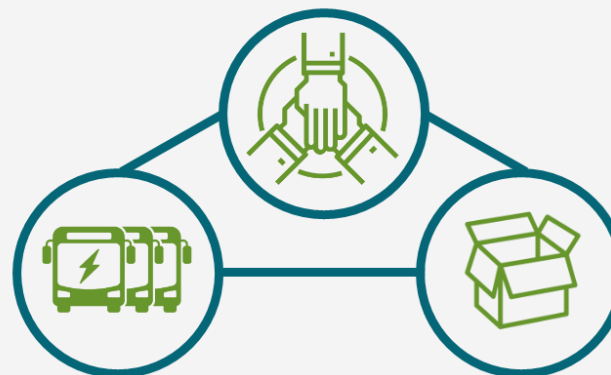
...wants to demonstrate that innovative **passenger mobility** and **freight transport** concepts designed and implemented following **participative and user-center principles**. These **cost-effective and feasible** solutions contribute significantly to the cities' transformation towards climate-neutrality, allowing to speed up the process even to reach SCOPE 2 emissions reduction in 2030.





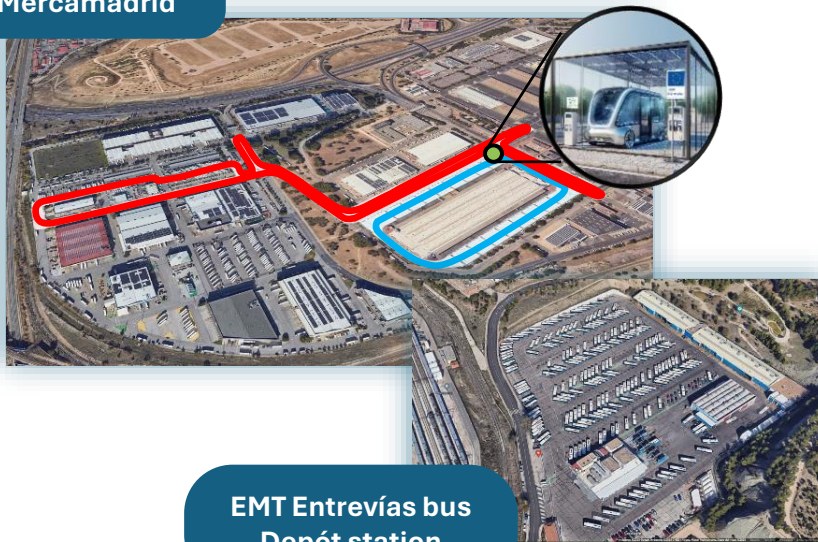
...exploiting the **combined potential of electrification, automation and connectivity** acting as **experimentation and innovation hubs** to help all EU cities to follow suit by 2050

...prioritizing the **co-design and implementation** of innovative solutions for **mobility of people and freight**



MADRID

Mercamadrid



EMT Entrevías bus
Depót station

Dresden.
Dresden



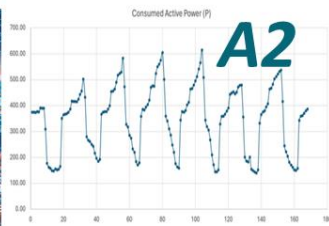
Ostra sports area & Messe
Dresden area

mercamadrid



3 autonomous electric vehicles within Mercamadrid for goods and people

mercamadrid



Power grid based on RES and V2G chargers in Mercamadrid. IA Smart grid



Electrification of fleets and intelligent sharing of charging infrastructure for EV for people and freight



Implementation of H2 recharging stations and 10 H2 fuel cell buses at EMT

mercamadrid



Implementation of high-value services. Data space and energy and mobility wallet in Mercamadrid



Capital
Digital



MADRID

THANK
YOU!

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Maps and pictures Slide 15: NetZeroCities and Climate Neutral and Smart Cities mission, <https://netzerocities.eu/>, Cities Factsheet [\[link\]](#)

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