





From a smart and sustainable city...







... towards a human adaptative city





DIGITAL TRANSFORMATION STRATEGY

2023-2027







Madrid in Europe, Europe in Madrid



A strategy that is coherent with the European, national and local context, and which is aligned with the city plans of the different municipal areas.





EU Digital Compass 2030



European Declaration on Digital Rights and Principles for a Digital Decade





Recovery, Transformation and Resilience Plan.



Digital Spain 2026 and plans





Strategic Plan for the City of Madrid



Recovery, Transformation and Resilience Plan for the city of Madrid



Village Agreements



Government Area Strategies and Plans



Madrid's Digital Transformation Strategy 2023-2027



DIGITAL TRANSFORMATION STRATEGY

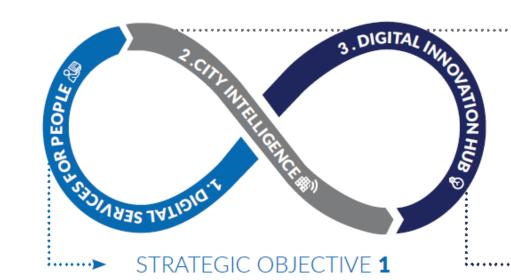


IT'S NOT JUST ABOUT TECHNOLOGY

Strategic axes

IT'S ABOUT PEOPLE

Two strategic axes are configured around each of the strategic objectives, which are outlined as a tool for defining the scope and sphere of action of the objective.



STRATEGIC OBJECTIVE 2



Safe, cybersafe, resilient and empowered city



AXIS 4

Managed based on evidence and data

STRATEGIC OBJECTIVE 3



The best digital administration with public employees as protagonists of change



AXIS 2

Technology to make people's lives easier



AXIS 5

Hyperconnected and hyperautomated city: Human adaptive city



AXIS 6



A reference in the world and in Europe and in Europe, in innovation and digital investment



The Strategy builds on and integrates action plans designed to incorporate emerging technologies that facilitate and accelerate digitisation of municipal and city services. PACKAGE OF IT STRATEGIES



An ambitious but realistic strategy

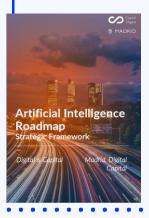


Digital Transformation Strategy 2023-2027

Rationalisation and simplification action plan



Artificial Intelligence Roadmap



Mobile App Strategy



Cybersecurity Strategy



Madrid GovTech Programme





Digital Administration Plan



5G Agenda



Multicloud strategy



Data Strategy



Digital Training Plan







Main Projects















5.0 City Council Smart Process Platform







PRESTACIONES

P2 - Componentes - Core

P1 - Análisis y KPI

P3 – IA

P4 – Govtech

P5 – Capacitación

P6 – Ciudadanos

P7 - Comunicación

Contracting

Digital Capital

Main characteristics of the specifications:

- They guarantee compliance with the measures of the Government Program
- Cross-cutting services: they respond to measures and strategies
- Managers by provision: transversal projects-transversal teams
- Monitoring indicators for permanent evaluation of the degree of compliance

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Management Intelligent Processes	Attention Integral Citizen	Spaces Urban Smart	Digital Twin	Digital Brain	Competences and Inclusion Digital	Contest Ideas Govtech	Center Transformation Digital
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OUR VISION TODAY AFTER 3 YEARS...





From the Smartcity to a 5.0 City

OPEN, NEUTRAL AND INTEROPERABLE City



Main topics:

- Madrid usercetricity:
- INTELLIGENT PROCESS MANAGEMENT
- New generation of Smart & Sustainable Cities
- Urban Intelligent spaces: People first
- Hyperconnectivity
 - Interoperability
 - 5G / 6G
 - loT
- Hyperautomation
 - Dataspaces
 - Al
 - Digital Twin
 - City Brain
- Dynamic & Flexible manage of services
- Intensity of use Flexible taxs
- Replicability & Scalability



DATA, DATA & WORE DATA



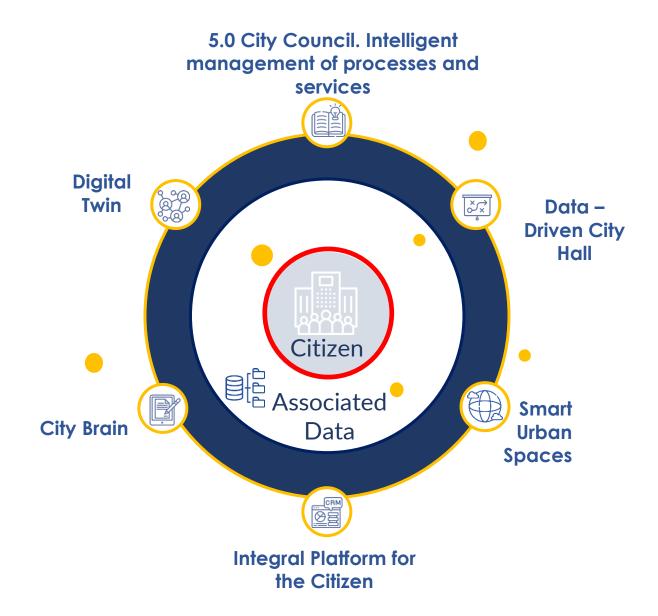


Projects Around the DATA





We identified a set of transversal and transformative projects for Madrid City Council related to the Digital Twin project, associated with a revolution in the use of data associated with the citizen in order to offer more personalised, adapted and higher quality services.





OUR VISION:

DIGITAL TWIN OF DIGITAL TWINS

MADRID
OPEN & INTEROPERABLE CITY





DIGITAL TWIN of DIGITAL TWINS









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® MADRID





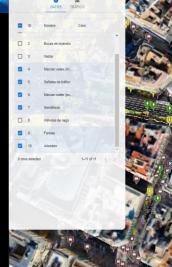


















DIGITAL-TWIN: USES CASES

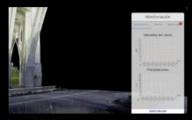
- The aim is to design a digital twin platform that provides a flexible, scalable and interoperable solution for various technologies, industries and use cases.
- The platform will be designed to be deployable across multiple cloud providers making it adaptive (agnostic and cloud-ready).
- It will use geo-featured data from municipal services that make up a GeoDataLake that will enable advanced analytics with geospatial capabilities (data is king).
- The capabilities of the Digital Twin Platform will be integrated and offered as a service that can be consumed by users and other systems through APIs (as a service).



https://gemelo.madrid.es/en



VSD Madrid New North



VSD Bailén Bridge



VSD Madrid Hair Marati



VSD City Inventory



VSD Mercamadrid



VSD Parade of Kin



EUI Smart Urban Space



VSD Landscape of Ligh



VSD Santiago Bernabe



VSD Citizen Sentiment



VSD M30 "Madrid Nudo Nort



VSD Urban Plannin Learn more ()



5G Corridors

Smart Urban Spaces with 5G connectivity to develop interoperable use cases in real-world demonstrator environments.



MONCLOA - ARAVACA

ETSIT

nvestigación en bandas milimétrica En licitació

Casa de Campo Drones, Videojuegos, SAMUR 5G

EME5GENCIAS

Network Slices para emergencias En licitación

Ciudad Universitaria

5G para otras especialidades Diseñado, pendiente de financiación (UNICO 5G)

https://youtu.be/7WDep Xg5SUc&list=PLaxP1gUf9 OHFZW8Q4SGWQV83Z6v -Gwnl2





What is a smart urban space?



DEMONSTRATOR, HYPERCONNECTED, DATA-DRIVEN SPACES, with intensive application of SUSTAINABLE TECHNOLOGIES for a smart and climate-neutral Madrid by 2030.

MADRID INTEROPERABILITY CITY FRAMEWORK: COLABORATION IS THE KEY: OMA, AIOTI, SMART DATA MODELS EIF4SCC - EUROPEAN INTEROPERABILITY FRAMEWORK FOR SMART CITIES AND COMMUNITIES

The EUI are

- 1. Specific **physical spaces** in Madrid
- 2. End-to-end IoT demonstrators: real citizen experience.

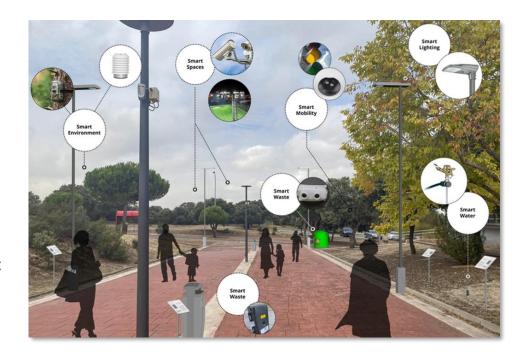
Services tailored to people and needs

TRANSITION (GREEN & DIGITAL).

- 1. **Measure**: SENSORS in urban facilities -> reliable data
- 2. **Interact**: apps on citizens' mobile phones, signage...
- 3. Data-based management: Big Data, AI -> Digital Twin

The challenges and advantages of the interoperability of the equipment installed in the EUI

Interdisciplinary: environmental sensors, energy meters, lighting network, traffic lights, street furniture, containers, sensors in trees, in urban installations, etc. Designing the city of the future according to the PRINCIPLES OF THE TWIN



They are not sandboxes. They are operated by the companies in charge of the public services there.



Vision & Conceptual Model



Current situation: automization

Orchestration: enabling autonomy while introducing a unified city vision









NO ONE BEHIND











Digital skills for all

"Digital Training, city talent"

Human technology

"Digital Services for people"

Volunteering

- Serving 500,000 seniors
- More than 18,000 volunteers















PALOMA

PALOMA is a social intervention project that uses Artificial Intelligence to <u>DETECT AND COMBAT UNWANTED LONELINESS</u> in people over 75 years of age. The system makes phone calls and analyzes responses to identify risk cases.

- 1 Detection
- 2 Intervention
- 3 Improvement

