





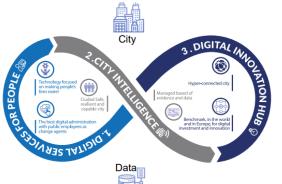
Madrid,

M MADRID

Digital Capital

MADRID, DIGITAL CAPITAL - CITY INTELLIGENCE







Technology



Economy

Strategic objective 2: City Intelligence

In order to boost this strategic objective, the City of Madrid has various enabling and driving projects for transformation, structured in the two strategic axes:

Strategic axis 3:



Capital Digital

Safe, resilient and capable city



Program 5. SUSTAINABLE AND DIGITAL INTELLIGENCE FOR MANAGEMENT



Because Digital is

Capital







WHAT CAN AI BRING
TO THE PUBLIC
SECTOR?

Reading and distilling large volumes of information

to support analysis and decision-making



Transparency and auditability

to detect inconsistencies and anomalous patterns



Detecting patterns and anticipating needs

in public services, mobility, procedures, etc.



Decision-making support

scenario simulation, intervention prioritisation, etc.

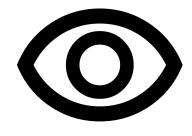












Understand

processes and meaning

Create

text, summaries, insights

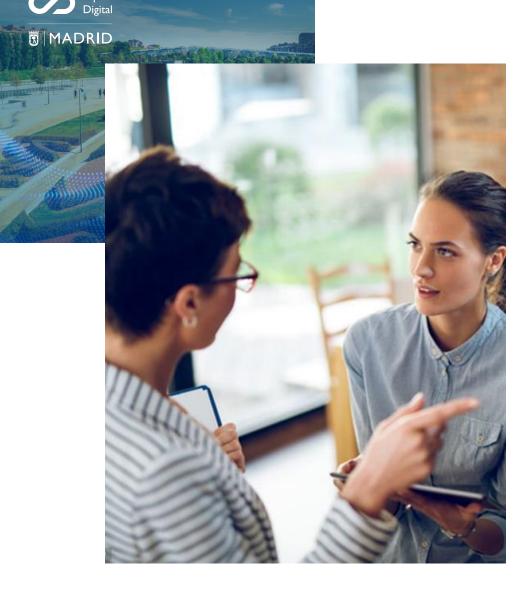
See

images and patterns

From <u>understanding</u> \rightarrow to <u>generating</u> \rightarrow to <u>perceiving</u> the world

These three capabilities are the base for everything else Al can do





FROM GENERIC AI → TO MISSION-ALIGNED AI

Generic capability

1.- Foundation

Large models (LLMs, CNNs, etc.) trained on public, *multilingual* data sources



2.- Tailored / Mission aligned Al

Models aligned with *our* knowledge, rules and domain

Domain Expertise

3.- Integrated Al

Agentic AI: systems that reason, adapt and support action







AIOT: ARTIFICIAL INTELLIGENCE FOR IOT

Edge computing

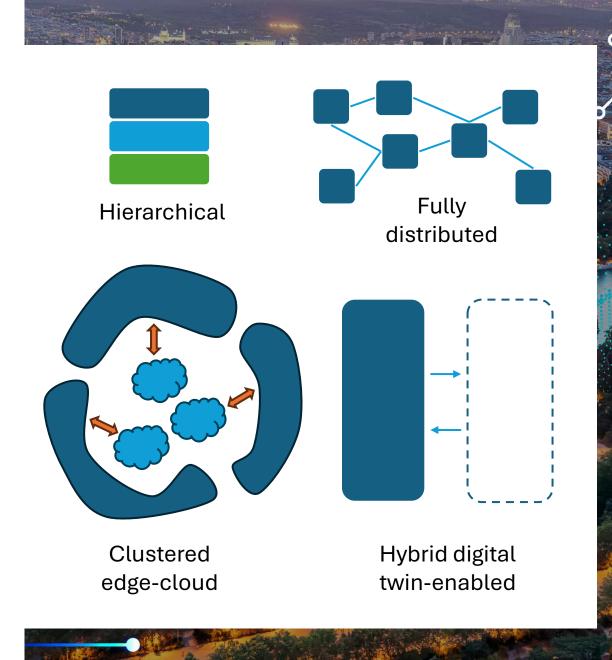
Relocating computing capacity to peripheral areas of the infrastructure

Hybrid architectures

Balancing power consumption, scalability and real-time response.

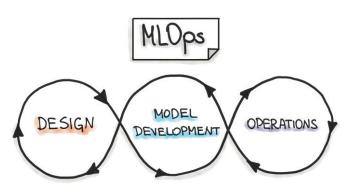
Embedded AI algorithms

Smart IoT devices running energy-efficient algorithms, saving bandwith and enabling autonomous response.









Model

versioning

Data orchestration

ARTIFACT VERSIONING AND MLOPS

Data version control

Enable data provenance, lineage identification, auditable models/algorithms.

Data pipelines versioning (orchestration)

Reproducible data processing, improved documentation and bug fixing.

Models/algorithms versioning

Model publication, reusability and productization.



Data versioning

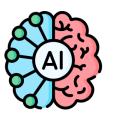


MODEL SECURITY: FINGERPRINTS



Preventing malicious artifact substitution

Model A









Model B (rogue)

