Funded by the European Union

ENTi
ESTRATÉGIA NACIONAL
DE **TERRITÓRIOS INTELIGENTES**

Operationalisation Model

ENTI's vision is to position Portugal as a digital and smart nation

ENTI

VISION
ENTI's vision is to position Portugal as a **digital and smart nation**

Smart Cities — Smart Territories — **Smart Nation**

MISSION
Ensure a **network of smart and connected territories** that provide **inclusive and sustainable economic development**, with interoperable services focused on citizens and businesses, contributing to more informed decision-making and smart management of key resources.

The implementation of ENTI has the potential to bring numerous benefits to municipalities

STRATEGIC OBJECTIVES

1. DATA ACCESS
Improved access to and sharing of territorial data between the public and private sectors

2. DATA ANALYTICS
Flexibly analyse large volumes of data

3. ALARM MANAGEMENT
Monitor and manage critical governance areas in real time through alarm management systems

4. POLICY SIMULATION
Testing the impact of policies and measures on the lives of citizens and businesses

IMPROVE THE SUSTAINABILITY OF THE TERRITORY, CITIZENS' LIVES AND BUSINESS ACTIVITY

5. CAPACITY-BUILDING AND DIGITAL LITERACY
Empower citizens, businesses, public administration and policy makers for smart territories and digitalisation

6. CIRCULAR ECONOMY
Promote the smart use of resources and the circular economy

7. INNOVATION
Boost innovation and entrepreneurship with access to open and transparent data

8. PROTECTION AND SECURITY
Increased security and emergency response capacity through integrated systems

The Government has introduced new ENTI guidelines, with the aim of encouraging greater involvement from municipalities

NEW POLICY GUIDELINES FOR THE IMPLEMENTATION OF ENTI

1 **GREATER PROMINENCE OF MUNICIPALITIES IN THE ENTI GOVERNANCE MODEL**

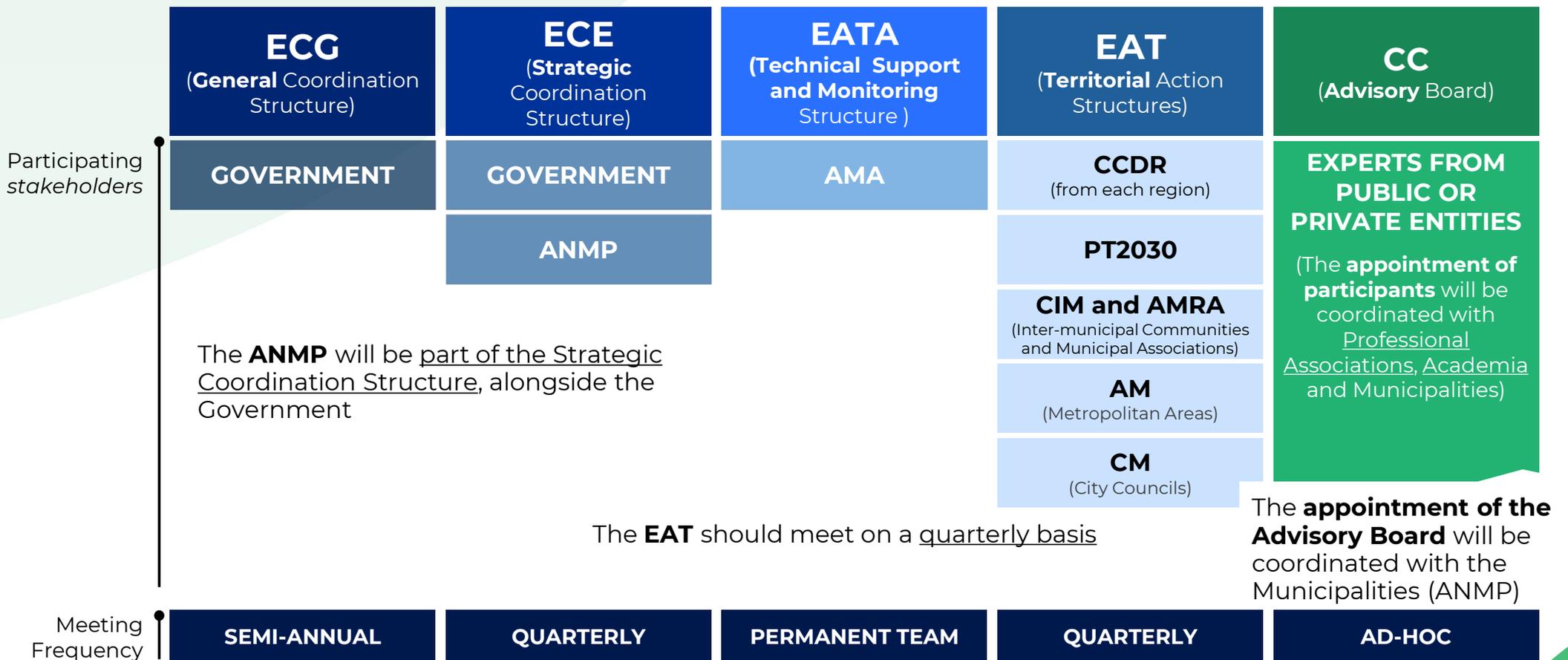**2** **NEW ARCHITECTURE FOR THE IMPLEMENTATION OF URBAN MANAGEMENT PLATFORMS (PGU)**

The **National Association of Portuguese Municipalities (ANMP)** will play an integral role in the **Strategic Coordination Structure**, alongside the Government
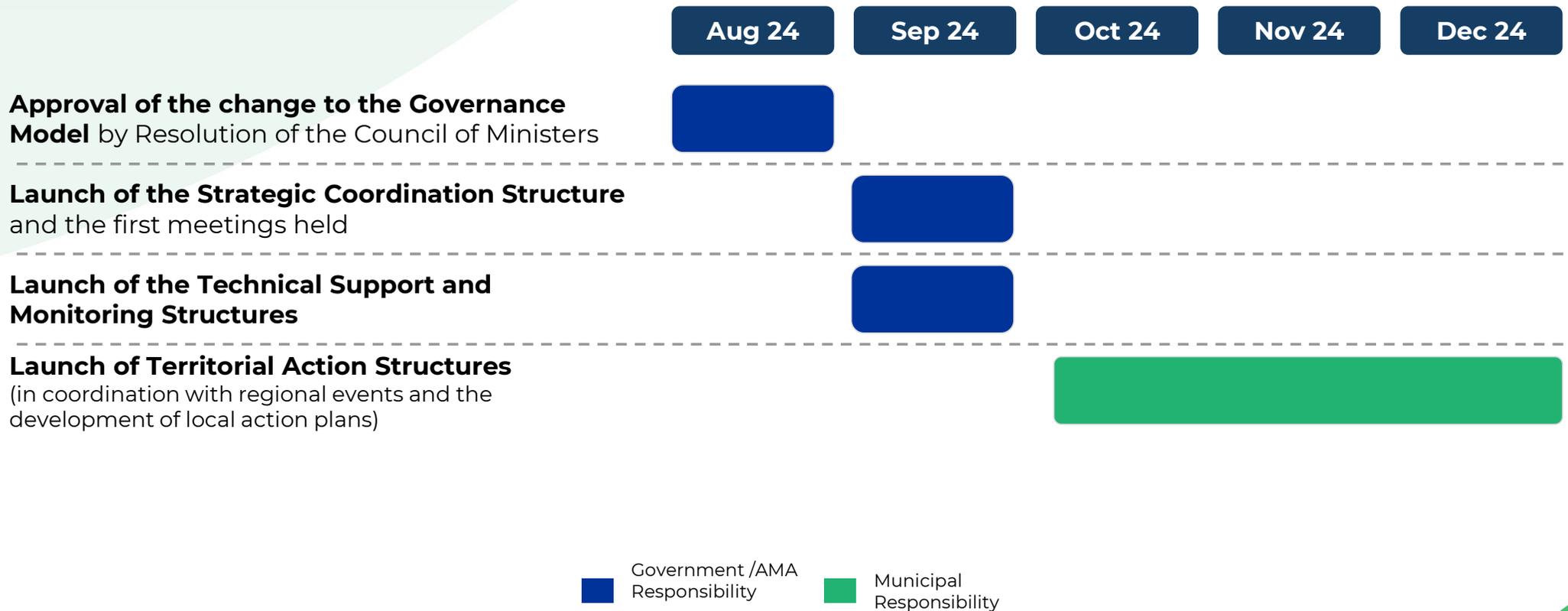
The CIM, AM, AMRA, and Municipalities will have **autonomy in implementing PGUs**

The supervisory authority has proposed that municipalities should play a more active role in implementing ENTI

ECG (**General** Coordination Structure)	ECE (**Strategic** Coordination Structure)	EATA (**Technical Support and Monitoring** Structure)	EAT (**Territorial** Action Structures)	CC (**Advisory** Board)

Participating *stakeholders*

GOVERNMENT	GOVERNMENT	AMA	**CCDR** (from each region)	**EXPERTS FROM PUBLIC OR PRIVATE ENTITIES** (The **appointment of participants** will be coordinated with Professional Associations, Academia and Municipalities)
	ANMP		**PT2030**	
			CIM and AMRA (Inter-municipal Communities and Municipal Associations)	
			AM (Metropolitan Areas)	
			CM (City Councils)	

The **ANMP** will be part of the Strategic Coordination Structure, alongside the Government

The **EAT** should meet on a quarterly basis

The **appointment of the Advisory Board** will be coordinated with the Municipalities (ANMP)

Meeting Frequency

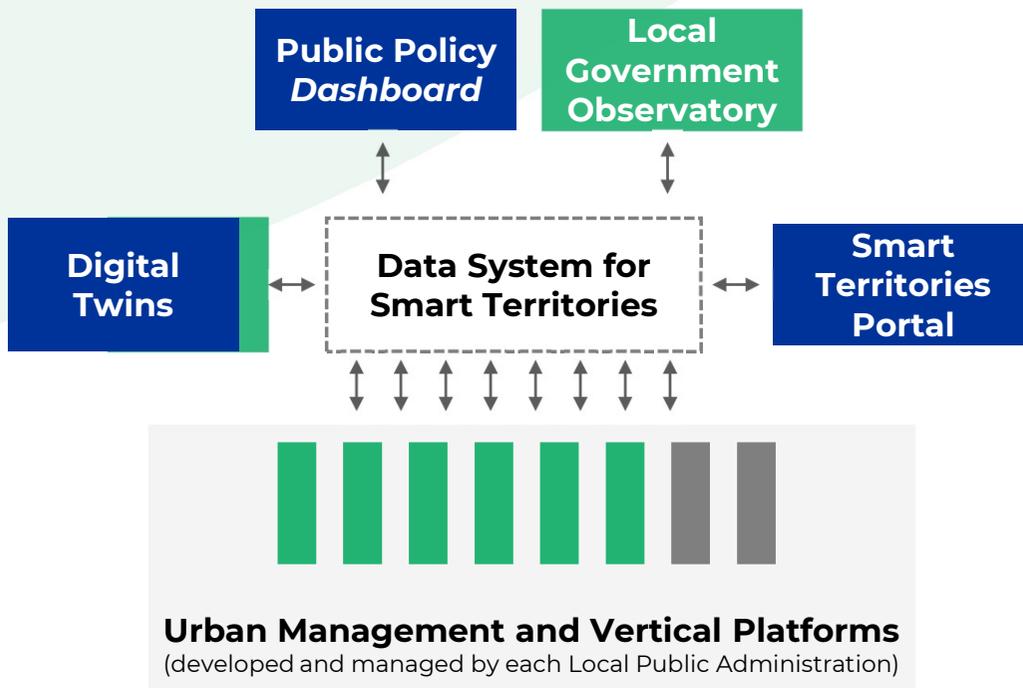| SEMI-ANNUAL	QUARTERLY	PERMANENT TEAM	QUARTERLY	AD-HOC

The supervisory authority will activate the Governance Model structures following the Approval of changes by Resolution of the Council of Ministers

	Aug 24	Sep 24	Oct 24	Nov 24	Dec 24

Approval of the change to the Governance Model by Resolution of the Council of Ministers

Launch of the Strategic Coordination Structure and the first meetings held

Launch of the Technical Support and Monitoring Structures

Launch of Territorial Action Structures (in coordination with regional events and the development of local action plans)

■ Government /AMA Responsibility

■ Municipal Responsibility

The strategy's architecture comprises a range of technological platforms, each with its own specific objectives

ENTI Architecture

Public Policy *Dashboard*

Local Government Observatory

Digital Twins

Data System for Smart Territories

Smart Territories Portal

Urban Management and Vertical Platforms
(developed and managed by each Local Public Administration)

Platform objectives

Dashboard / Observatory — **Support political decision-making** at the central and local levels using territorial data

Digital Twins — **Conduct studies of the country's strategic and priority areas** through prototype modelling

Smart Territories Portal — **Sharing policies and good practices** on smart territories to promote investment and transparency

Urban Management and Vertical Platforms — **Support decision-making and territorial management** in municipalities and regions through data collection and analysis
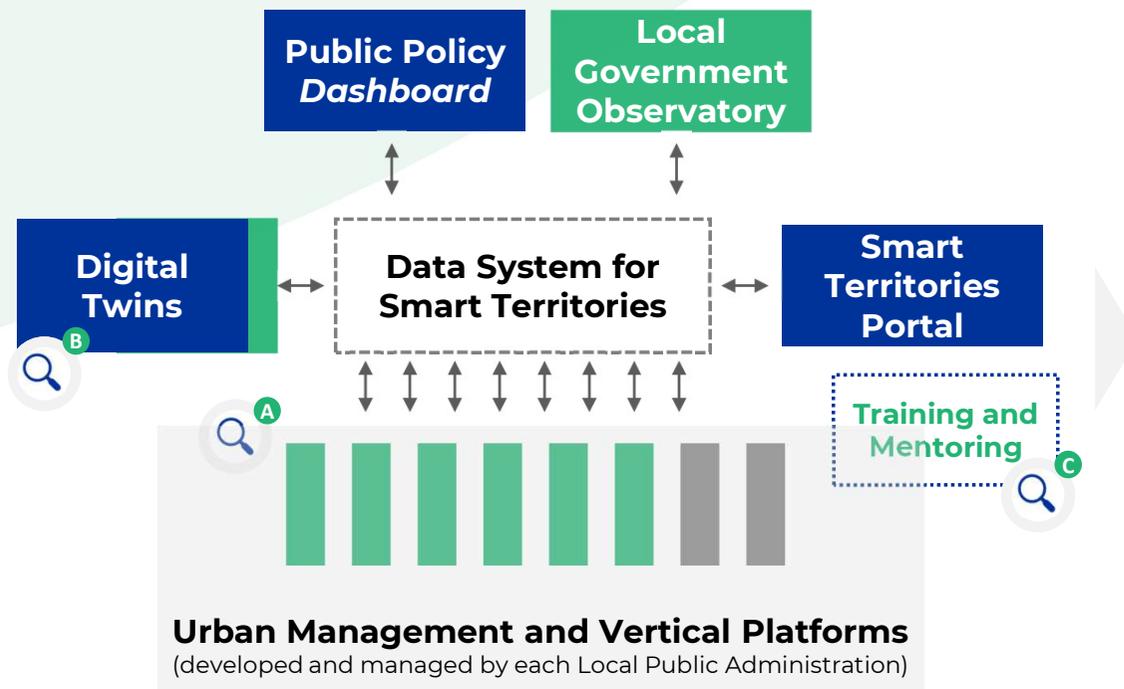
Caption:
- New central Public Administration (CPA) platforms
- New local Public Administration (LPA) platforms
- Existing platforms in municipalities

The strategy's architecture comprises a range of technological platforms, each with its own specific objectives
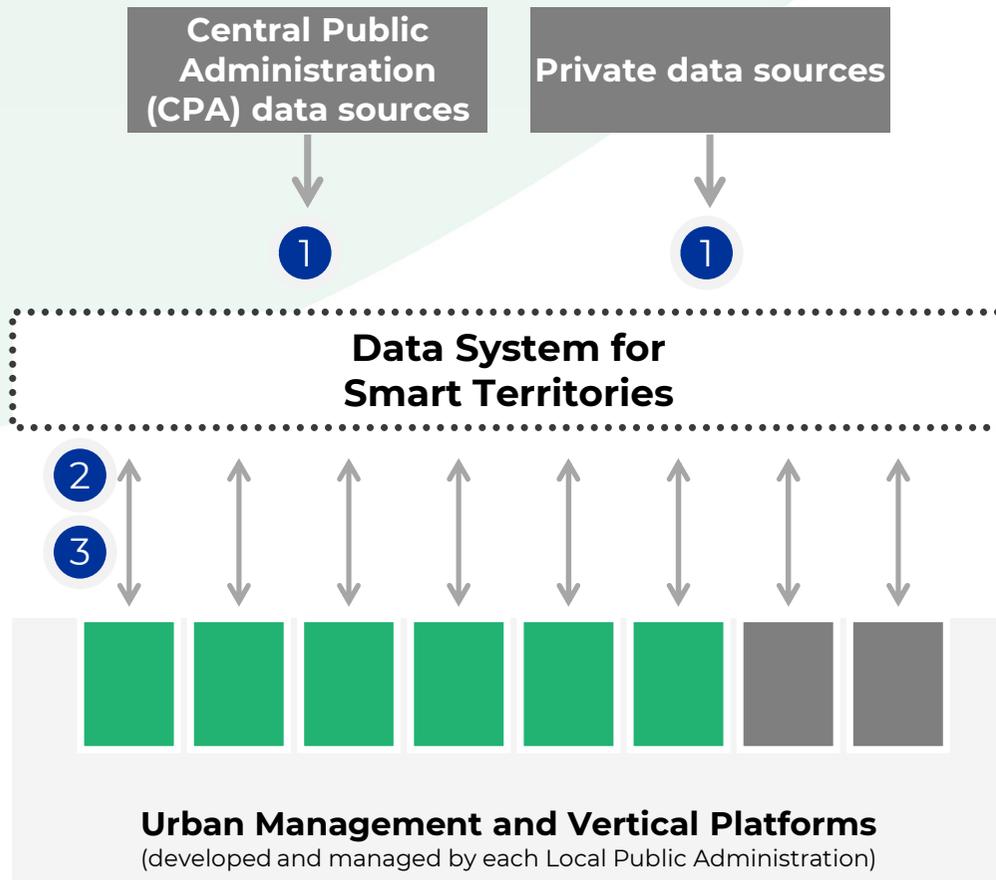
ENTI Architecture

Public Policy Dashboard

Local Government Observatory

Digital Twins

Data System for Smart Territories

Smart Territories Portal

Training and Mentoring

Urban Management and Vertical Platforms
(developed and managed by each Local Public Administration)

THREE COMPONENTS:

A Urban Management Platforms

B Digital Twins

C Capacity-building and Mentoring

Caption:
- New Central Public Administration (CPA) platforms
- New local Public Administration (LPA) platforms
- Existing platforms in municipalities

Municipalities will be able to access private and central Public Administration data via the Smart Territories Data System

Central Public Administration (CPA) data sources

Private data sources

1   **1**

Data System for Smart Territories

2

3

Urban Management and Vertical Platforms
(developed and managed by each Local Public Administration)

DATA FLOWS

1 The centralised **collection of data from the public and private sectors** is intended to reduce the effort and costs of data collection for the various data beneficiaries

2 **Sharing data from various sources with municipalities** to improve access to data for analysis, early warning systems, and municipal land management

3 **Sharing data among municipalities** to enable better decision-making at a central Public Administration level, and to improve the development of products and services for municipalities

Calendar of interactions between AMA and municipalities

| Aug 24 | Sep 24 | Oct 24 | Nov 24 | Dec 24 | Jan 25 | Feb 25 | (...) | Jun 26 |

Municipalities share their opinions, on the draft request for tenders prepared by AMA — 23 August

Validation of the request for tenders with the Mission Structure, followed by **the release of the RFT (Request for Tenders)** — 16 September

Deadline for RFT applications, by CIM, AM, AMRA and municipalities — 31 October

Analysis of tender applications and explanations regarding any requests for clarification — 31 December

Release of final report on selection of winning bidders and **contract award** — 26 February

Development of Urban Management and Vertical Platforms

■ Municipal Responsibility   ■ Government/AMA Responsibility

The RRP target encompasses the development of 5 digital twins
(by the end of the first quarter of 2026)

OBJECTIVES & TARGETS

- **Development of Digital Twin prototypes in priority national areas** such as water and agriculture, climate change resilience, mobility, decarbonisation, health, energy, tourism and civil protection.

- The target is a minimum of **5** digital twin prototypes

- Completion deadline: by the end of

  Q1 2026

STAKEHOLDERS

- Launch of requests for tenders and evaluation of applications through a **partnership between AMA and FCT**

  fct Fundação para a Ciência e a Tecnologia   ama AGÊNCIA PARA A MODERNIZAÇÃO ADMINISTRATIVA

- Applications for the request for tenders must be **submitted by a consortium**. Municipalities may apply through partnerships or protocols with other entities, such as technology suppliers

NEXT STEPS

1. **Signing of the protocol between FCT and AMA**

2. **Launch of the request for tenders** (Q4 2024)

3. **Deadline for submitting applications** (by the end of December 2024)

4. **End of the implementation process** (by the end of March 2026)

Proper ENTI implementation and application depend on effective capacity-building and mentoring

OBJECTIVES & TARGETS

CAPACITY-BUILDING:

1. The following objectives will be achieved through **capacity-building of Municipalities on Smart Territories**:

   i. Provide capacity-building programmes to **650 trainees** who provide services to municipalities

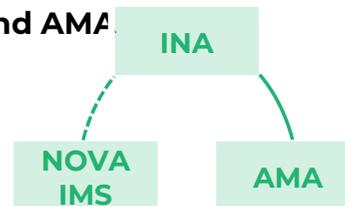   ii. Develop **Local Action Plans**, for ENTI application at regional/local level

MENTORING:

1. **Strengthen the capabilities of local mentors to streamline the execution of Local Action Plans** for Smart Territories

STAKEHOLDERS

CAPACITY-BUILDING:

Capacity-building plans and methodologies will be developed through a protocol signed between **INA and AMA**.

MENTORING:

Mentoring plans and methodologies will be developed through a similar protocol

NEXT STEPS

CAPACITY-BUILDING:

1 **Training in Smart Territories** (Q4 2024 – Q1 2025)

2 **Development of Local Action Plans for training on Smart Territories** (by the end of Q1 2025)

MENTORING:

3 **Training of mentors to support the implementation of Local Action Plans** (Q4 2024 - Q1 2025)

Notice regarding funding for Urban Management (PGU) and Vertical Platforms

SUMMARY NOTICE

- Implementation of a <u>new</u> **PGU** or <u>evolution</u> of an existing one
- **Use of the PGU by all municipalities**
- Implementation of **various vertical platforms**
- Use of vertical platforms may be limited **to municipalities** participating in the tender process
- Each municipality can only submit **one application**
- Commitment by all municipalities to **share data with the Smart Territories data system**

(Urban Management and Vertical Platforms)

WHAT IS THE INTENDED OUTCOME?

RRP target

75 municipalities with PGU, by the end of the first half of 2026

Investment objectives

1. Prioritise applications that **promote greater territorial cohesion**, particularly those involving a large number of <u>low-density municipalities</u>
2. <u>Prioritise applications with a larger number</u> of municipalities to **ensure high coverage of the national territory**
3. **Generate a high volume of data** and intelligence about the territory, prioritising **applications** capable of producing more data services

Notice regarding funding for Urban Management (PGU) and Vertical Platforms

SENSORS AND COMMUNICATION NETWORKS

VERTICAL PLATFORMS
Management or monitoring of a specific activity

URBAN MANAGEMENT PLATFORMS
Integrated management of various activities

SMART GOVERNANCE: Participatory budgeting | Incidents | Occupation of public spaces | Public procurement contracts

SMART ECONOMY: Trading estates | Business parks

SMART MOBILITY: Traffic | Parking | Soft mobility | Public transport | Traffic restrictions | On-demand transport

SMART ENVIRONMENT: Public lighting | Building stock | Solid waste | Water consumption | Irrigation of green areas | Air quality | Noise | Water flows and flood marks

SMART SOCIETY: Cultural agenda | Events

SMART QUALITY OF LIFE: Senior citizens | Facilities

Integrated management of vertical platforms

Reports