

2025 IMPACTS  
Rome 9-11 April 2025

# The new European TEN-T regulation on urban nodes: Challenges for cities and regions on sustainable mobility and clean, intelligent transport solutions

*Eugenio Patanè, IMPACTS President,  
City of Rome, Deputy Mayor for  
Mobility*





# Managing mobility in Rome: the complexity of the transport offer is directly proportional to the vastness of the territory



**Rome 1.285 km<sup>2</sup>**

City	Extension km <sup>2</sup>
Milan	181,6
Bologna	140,7
Turin	130,2
Genoa	240,5
Naples	117,3
Palermo	158,9
Catania	180,9
Florence	102,4
Bari	116,2
<b>Total</b>	<b>1369</b>



# Car predominance in Rome

## Challenges

**Motorization rate:** 1,82 ML vehicles (parked at least 90% time); 1,4 ML driving licenses

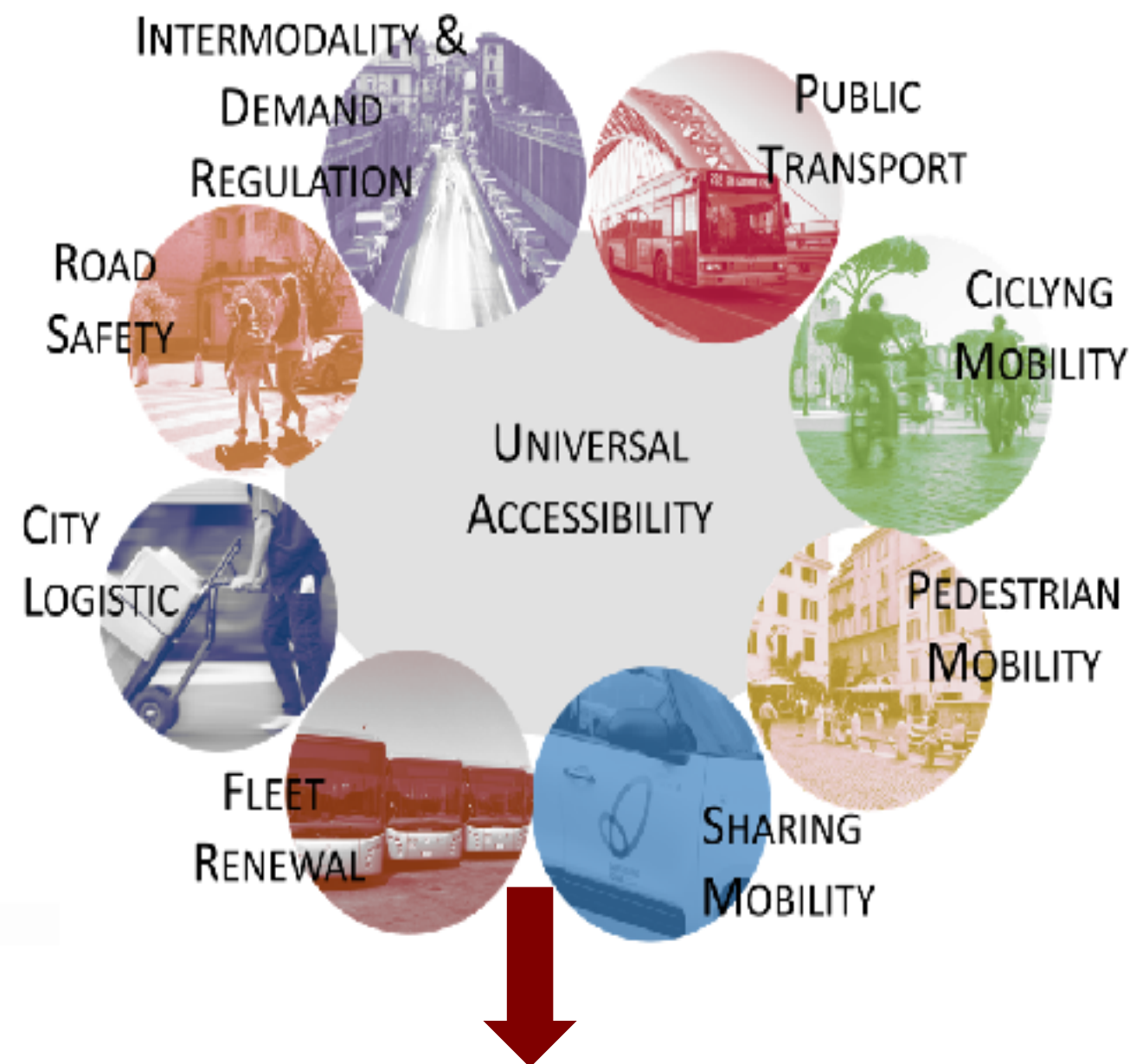
**Modal Share:** PT: 21%, Car: 52%, Motorbike: 10%, Walking: 14%, Cycling + Sharing: 3%

**Air Pollution:** non-compliance with EU Directive on ambient air quality for NO<sub>2</sub> & PM<sub>10</sub>. Obligations to limit mobility of most polluting vehicles





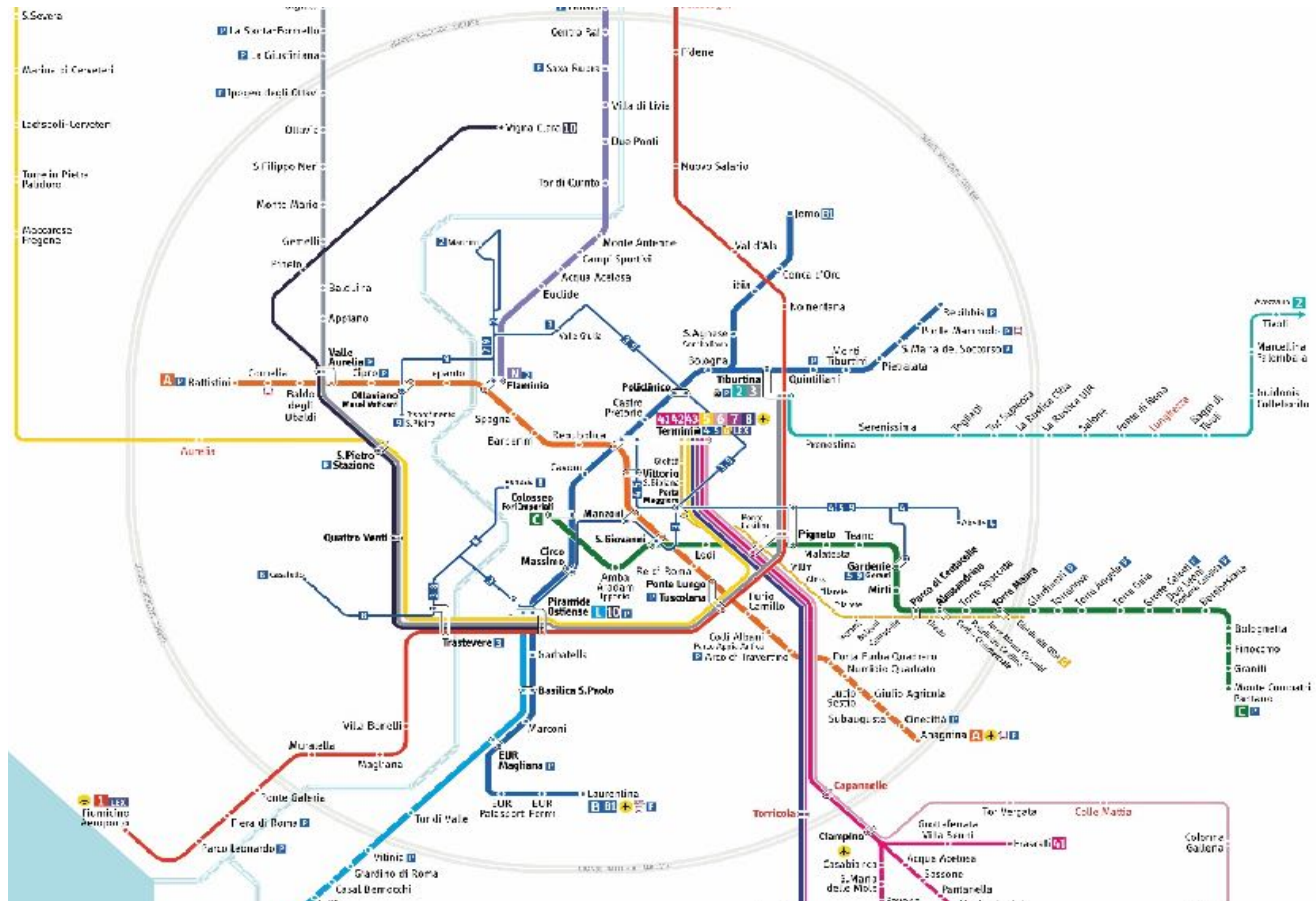
# Strategies: Implement the **SUMP** approved in 2022 with focus on



**8 billion euros  
for mobility by the end of administrative mandate**



# The Baseline: City Railways + Metro + Tram Network <sup>5</sup>



# Improvement of Public Transport: a challenging scenario for new infrastructures

## NEW TRAMWAY LINES :

- + 4 new lines (before 2026) Tramway TVA Termini-Vaticano-Aurelio/Tramway viale Palmiro Togliatti/ Tramway via Tiburtina/ Tramway Termini-Giardinetti
- + 7 Green lines designed (PFTE), not yet financed (SUMP Scenario)

ROLLING STOCK: Purchase of 121 new tram

## NEW TRAM DEPOT PLAN

## NEW TRAINS AND RENOVATION OF EXISTING METRO LINES

METRO C COMPLETION (opening of Porta Metronia and Colosseo Station in mid 2025) +  
METRO EXTENSIONS

New infrastructures on the REGIONAL AND NATIONAL RAILWAY SYSTEM OF ROMA (RFI)

6 billion euros  
until 2027



# TRAMWAY NETWORK:

## *From present status...(32,1 km)*

### Legenda

#### Infrastrutture per la mobilità

-  Rete metropolitana
-  Rete ferroviaria
-  Rete tranviaria
-  Corridoi TPL
-  Stazioni nazionali
-  Nodi di scambio

#### Stato di attuazione delle tranvie

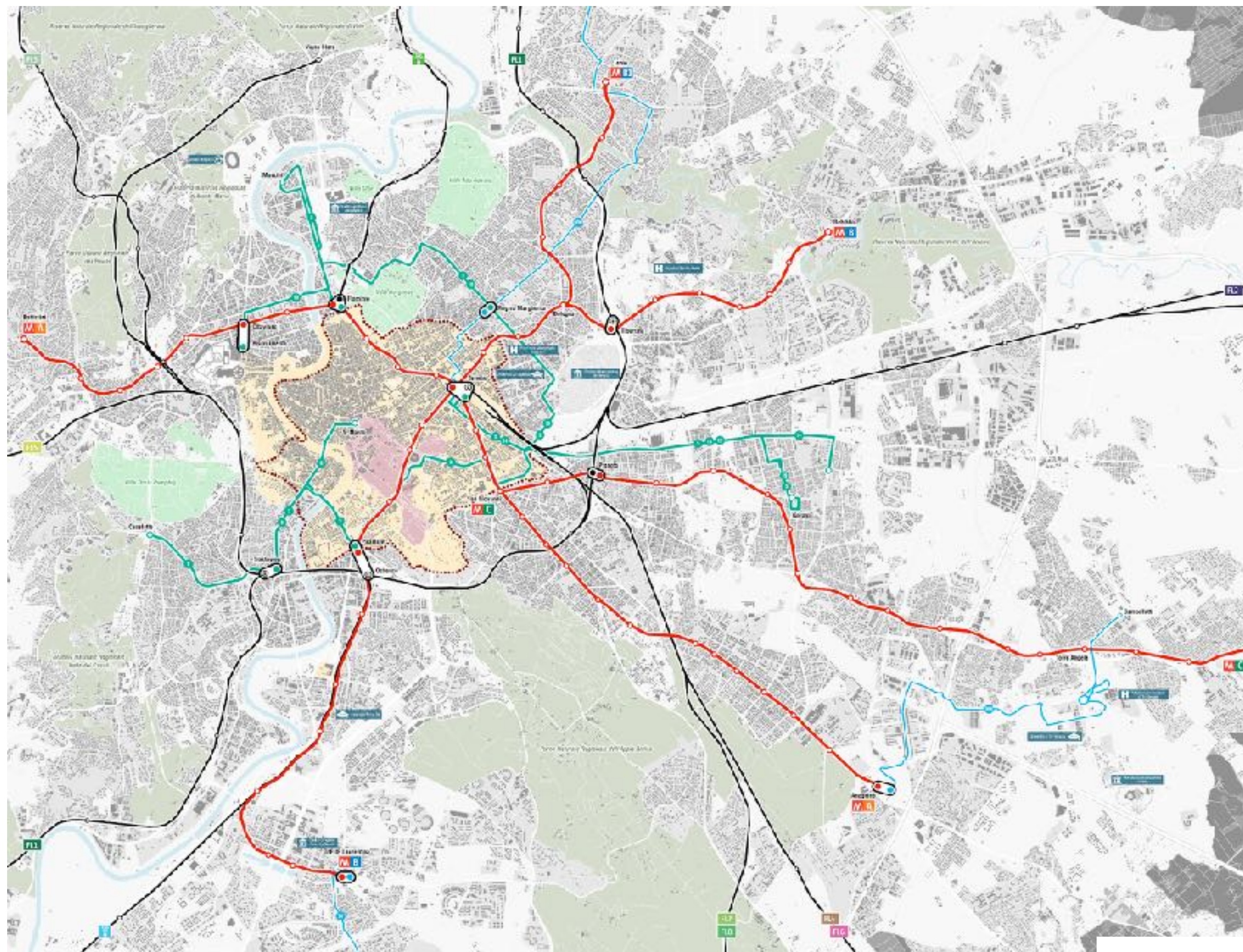
-  Esistente
-  Opera finanziata (MIT)
-  Opera finanziata (PMRR)
-  PFI-E rotativo

#### Il Sistema storico-monumentale e naturalistico

-  Patrimonio dell'UNESCO
-  Centro Archeologico Monumentale (CAM)
-  Mura Aureliane (II sec. d.C.)
-  Parchi Istituti e Riserve Naturali
-  Ville Storiche

#### Punti di interesse

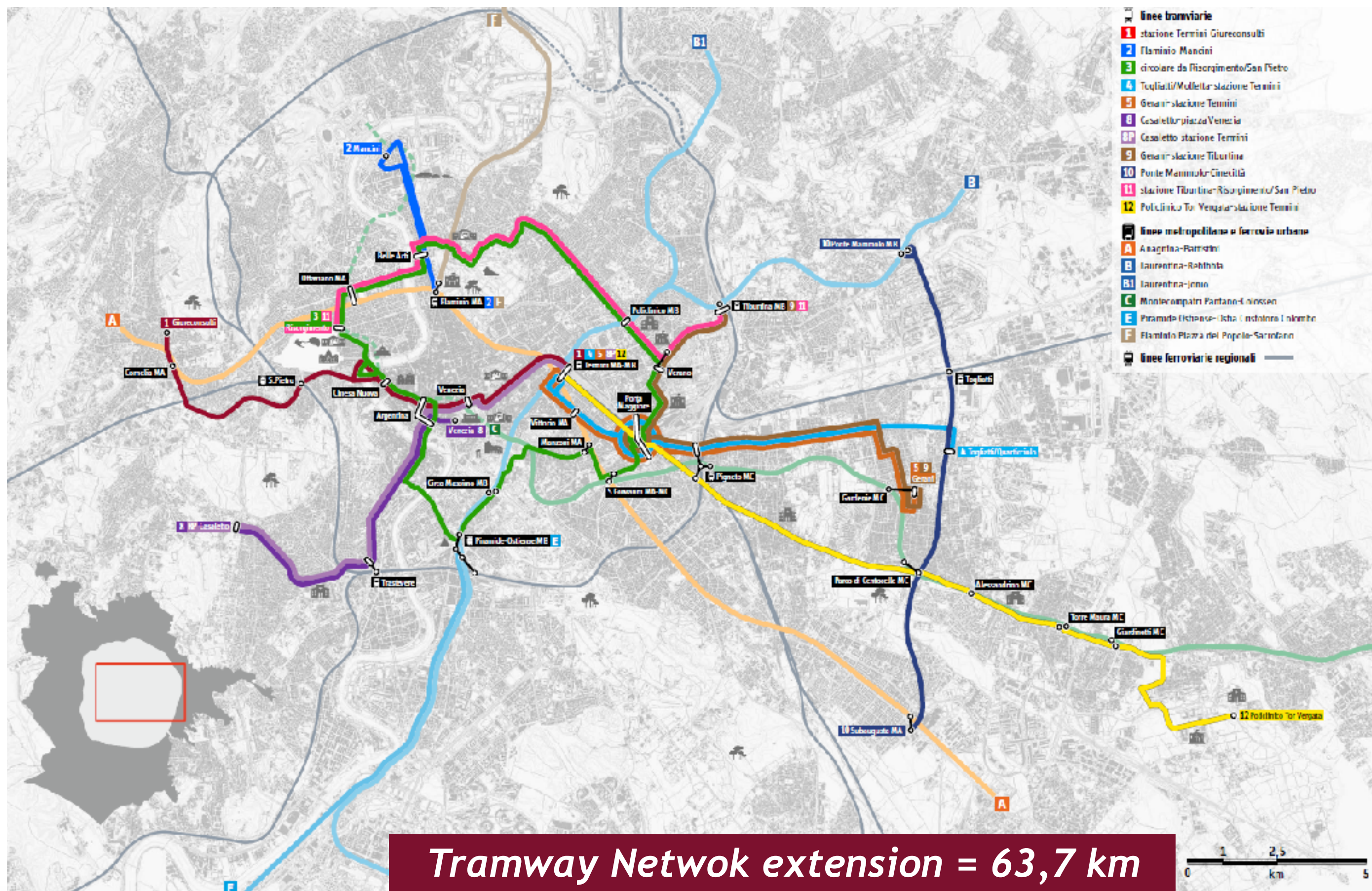
-  Poli ospedalieri
-  Poli universitari
-  Emergenze storico-architettoniche
-  Impianti ed attrezzature sportive





# TRAMWAY AND METRO NETWORK

## ...an outlook to 2026



**Tramway Network extension = 63,7 km  
+98%**



# TRAMWAY NETWORK

## The Plan Scenario

### Legenda

#### Infrastrutture per la mobilità

-  Rete metropolitana
-  Rete ferroviaria
-  Rete tranviaria
-  Corridoi TPL
-  Stazioni nazionali
-  Nodi di scambio

#### Stato di attuazione delle tranvie

-  Esistente
-  Opera finanziata (MIT)
-  Opera finanziata (PMRR)
-  PFTE rotativo

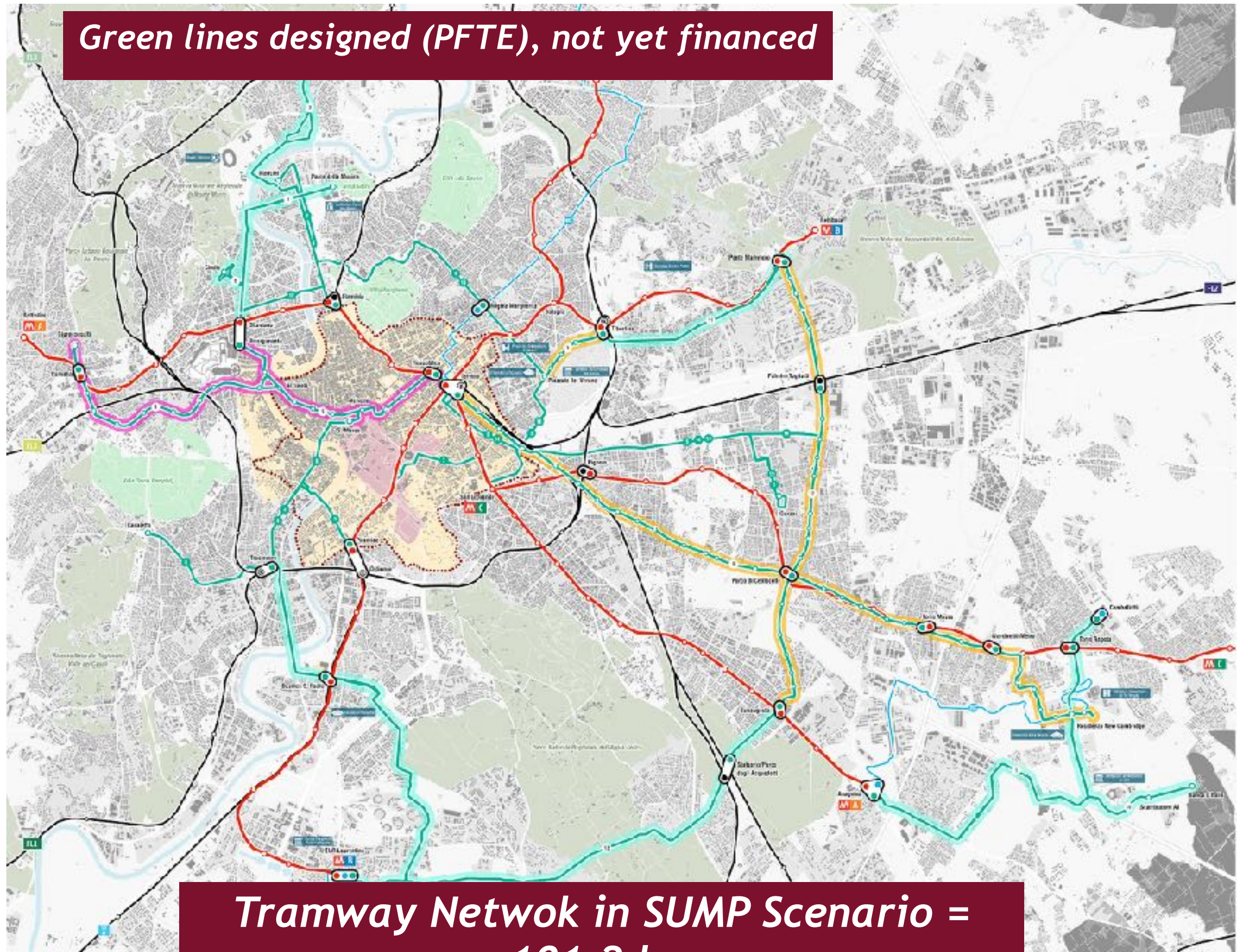
#### Il Sistema storico-monumentale e naturalistico

-  Patrimonio dell'UNESCO
-  Centro Archeologico Monumentale (CAM)
-  Mura Aureliane (II sec. d.C.)
-  Parchi Istituti e Riserve Naturali
-  Ville Storiche

#### Punti di interesse

-  Poli ospedalieri
-  Poli universitari
-  Emergenze storico-architettoniche
-  Impianti ed attrezzature sportive

*Green lines designed (PFTE), not yet financed*



*Tramway Network in SUMP Scenario = 101,2 km*





# A challenging scenario for new infrastructures

## Line C: the section under construction and in planning





# The new archeo-metro stations: Colosseo Fori Imperiali and Porta Metronia





# The new archeo-metro station: Piazza Venezia



85 metres  
below Roma





# Improvement of Public Transport: New public transport vehicles



## Purchase of zero-emission buses

- Purchase of 411 electric-powered urban buses, to be put into service by 30/06/2026 for 208 ML€
- Infrastructure necessary for the commissioning of e-bus for 84 ML€

## Integration with EU & Jubilee funds

- 110 hybrid 18-metre for 84 MLN€
- 244 methane 12-metre buses for 69 MLN€

**+ 1057 new vehicles  
before 2026**

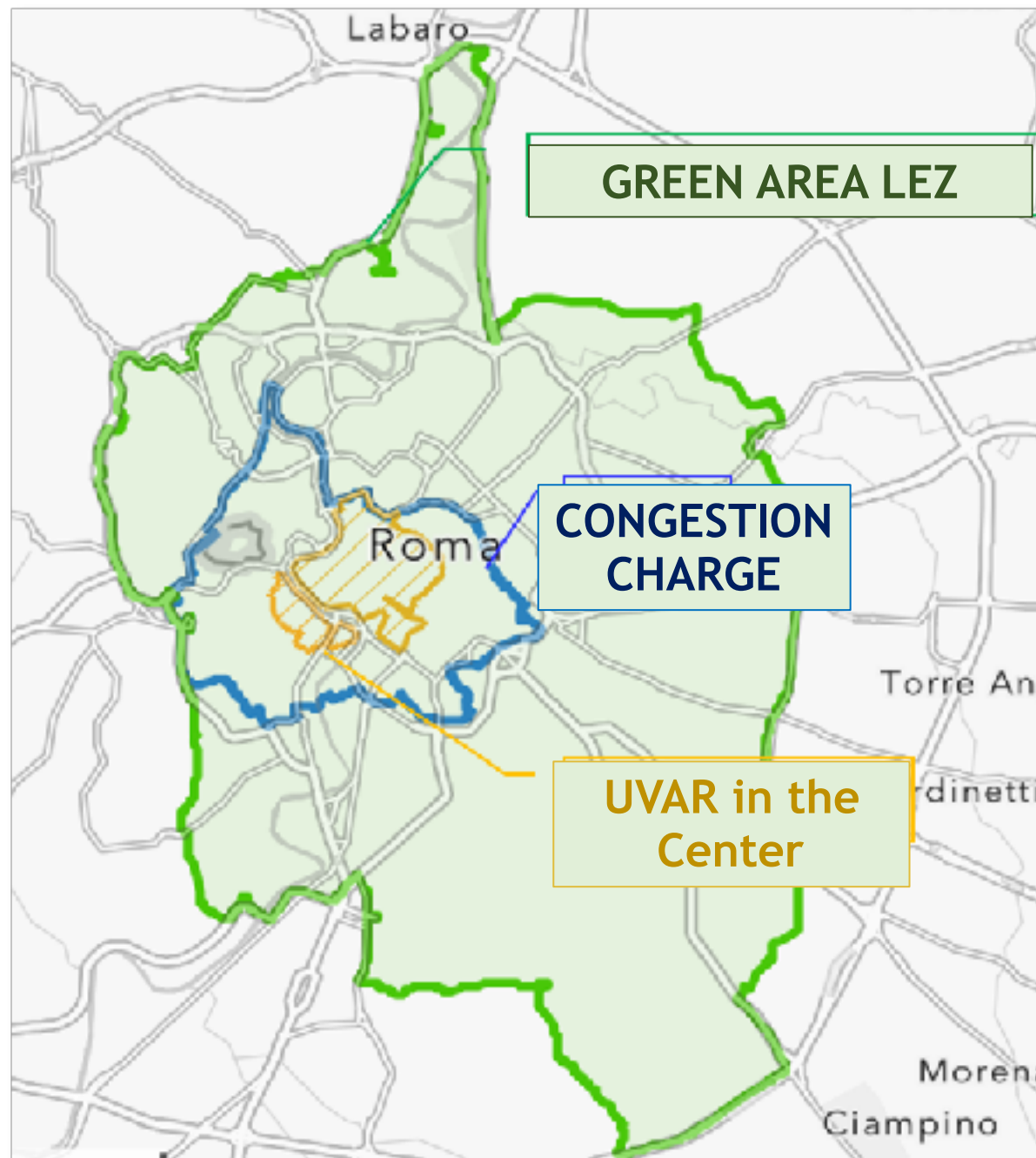


# Demand Management Policies



From November 2023 new regulations (with gradual bans over the years)  
with new access and circulation rules to limit air pollution

14



**UVAR in the Center:** already fully controlled by electronic access control systems: Time-based, Permits given to selected categories, subject to different annual fees

**CONGESTION CHARGE:** 63 electronic gates; Time-based, Restriction for all vehicles with total length over 7,5 meter controlled on the 21 e-gates in the red dots.

**GREEN AREA LEZ** to be controlled by electronic access control systems: A Council Act approved the LEZ in 2022. REACT-EU is funding the first batch of the e-gates project (8 ML€), while the completion is financed by Jubilee funds. **2023: Limitations for vehicles up to Euro 3 Diesel and Euro 2 petrol**



# Reshaping of urban spaces: from cars to active mobility





# Cycling path extension in Rome

## Current cycling network:

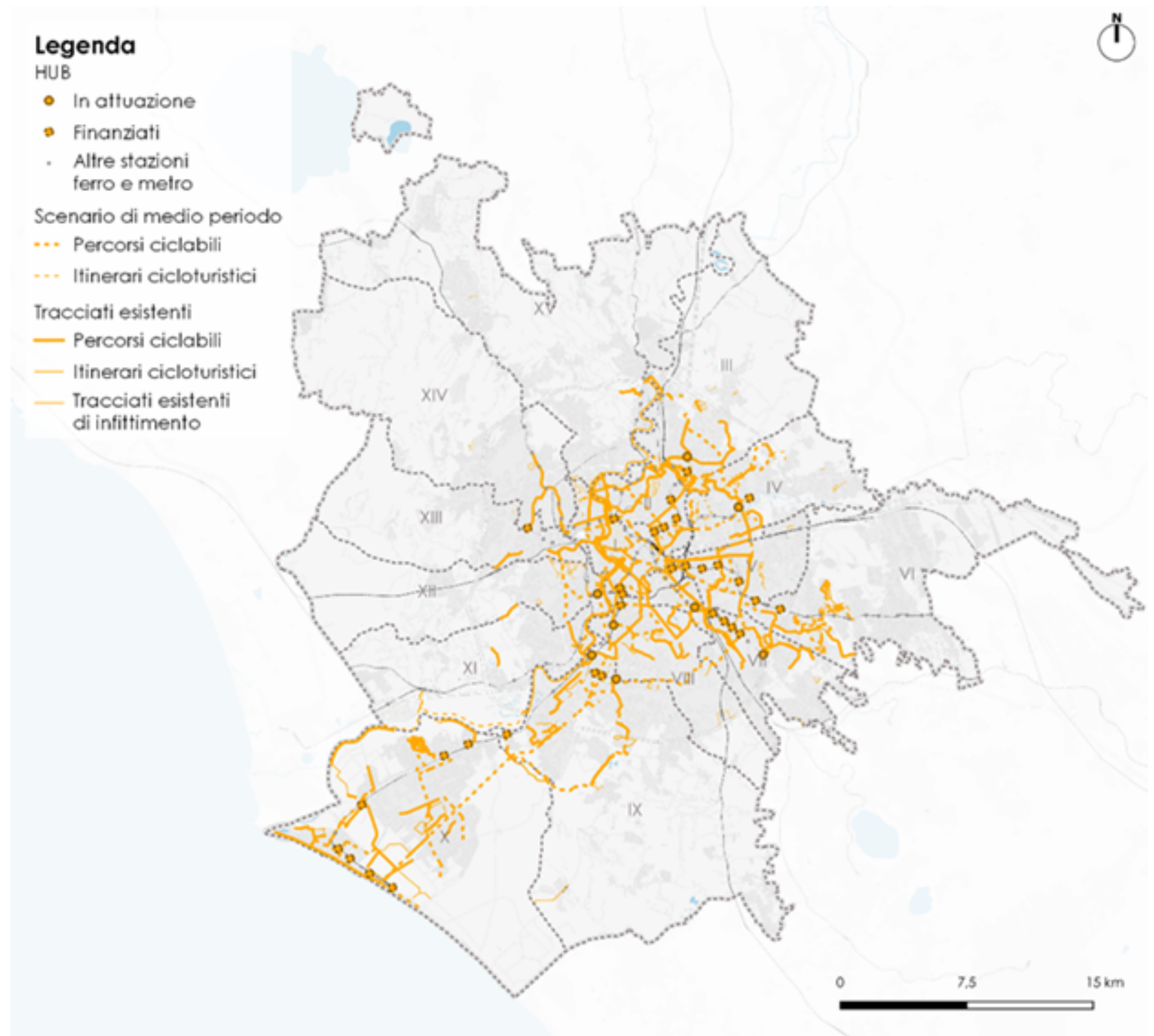
320 km (of which about 100 km in parks and historic villas)  
 925 racks for 4.625 bike spaces  
 700 Bike Boxes in 18 stations

## Short-term scenario (3 years):

+120 km cycling paths  
 +1,600 Bike boxes

## Medium-term scenario (5 years):

Further + 130 km (48Km every 100Kmq)





# Cycling path extension: GRAB

## Legenda

GRAB  
Grande Raccordo Anulare delle Bici

## Piste ciclabili - attuazione

Esistenti  
Nel breve periodo

## Il Sistema storico-naturalistico

Parchi istituiti e Riserve Naturali  
Ville storiche e giardini configurati  
Patrimonio UNESCO  
Mura aureliane

Stazioni internazionali  
Aree urbanizzate





# ...and more: from cars to multimodality



**Multimodal hub: bike-box parking**

**Sharing mobility - new rules and operators:** 3 e-scooter operators with new rules from 1 September 2023: 2 e-bike operators from 1 November 2023; 80 rides/month included in annual PT card (Mitrebus)

**Tap&GO**

**Mobility as a Service (MaaS) in Rome**

**Pedestrianization, zone 30 and environmental islands**

**School streets**

**Traffic monitoring and environmental analysis systems**

**The digitization path of the Rome Mobility Agency**



# From car to multimodality





# Thank you for your attention!



**PUMS**  
Piano Urbano  
della Mobilità  
Sostenibile



Città metropolitana  
di Roma Capitale

ROMA

