



2017 ANNUAL POLIS
CONFERENCE

6-7 December 2017, Brussels
Innovation in Transport for Sustainable Cities and Regions



Parallel Session 2A. Network Management policy and implementation

Integrating ITS in urban transport planning. The Rome approach



Ing. Fabio Nussio
Mobility Agency of the City of Rome

Credits

This presentation is dedicated to Maurizio Tomassini, Past POLIS President and former Director for Innovations in Mobility and ITS in Rome, where he built the ITS Mobility Centre.

He passed away few days ago.



The set-up of Rome SUMP

Italian Transport Ministry emitted last August the National Guidelines for the SUMP development in Italian cities.

At the same time, Rome started its *SUMP* (*PUMS Roma*) to provide in 18 months the city with a **new mobility model for the next 10 years**.

PUMS ROMA www.pumsroma.it



Guidelines

Developing and Implementing
a Sustainable Urban Mobility Plan



ROMA

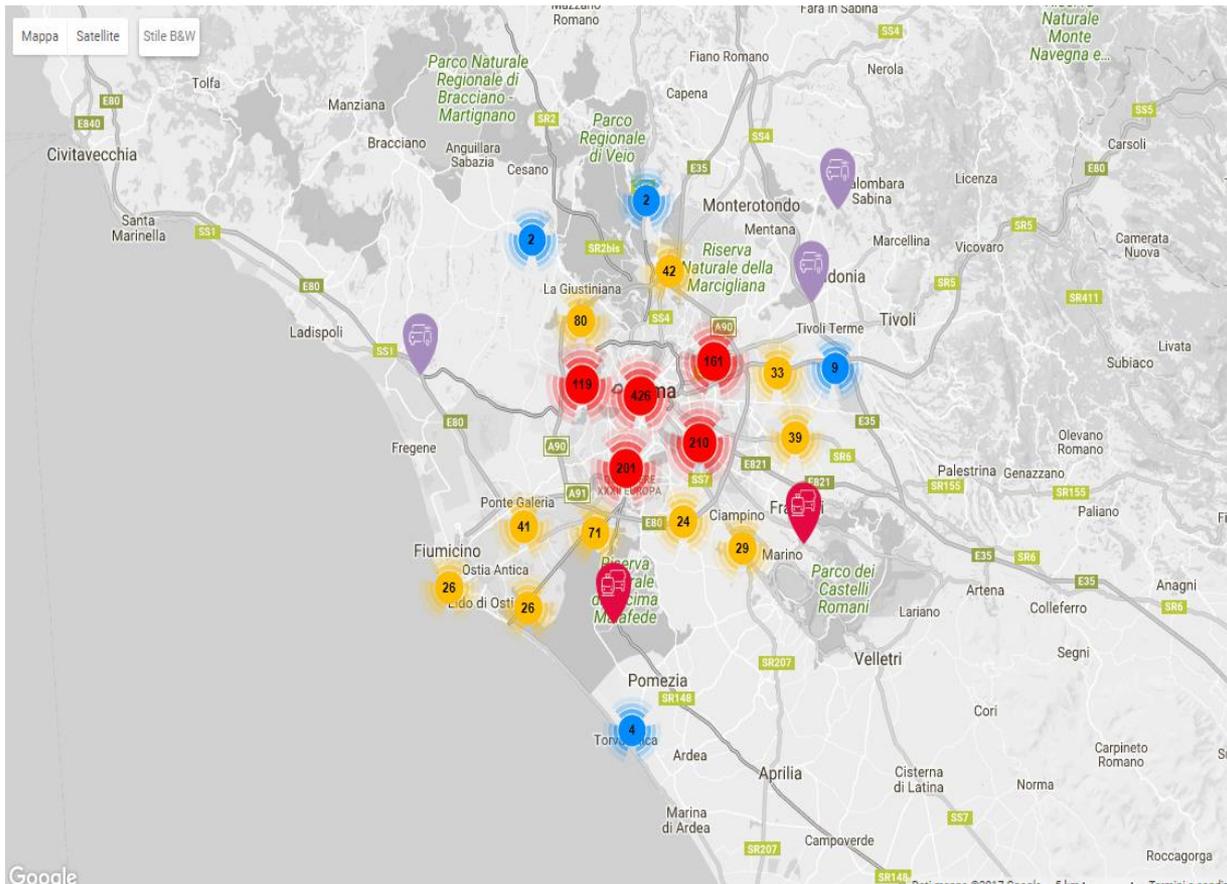
mobilità
roma

M

RISORSE

The Web portal: +1.500 proposals from sept.

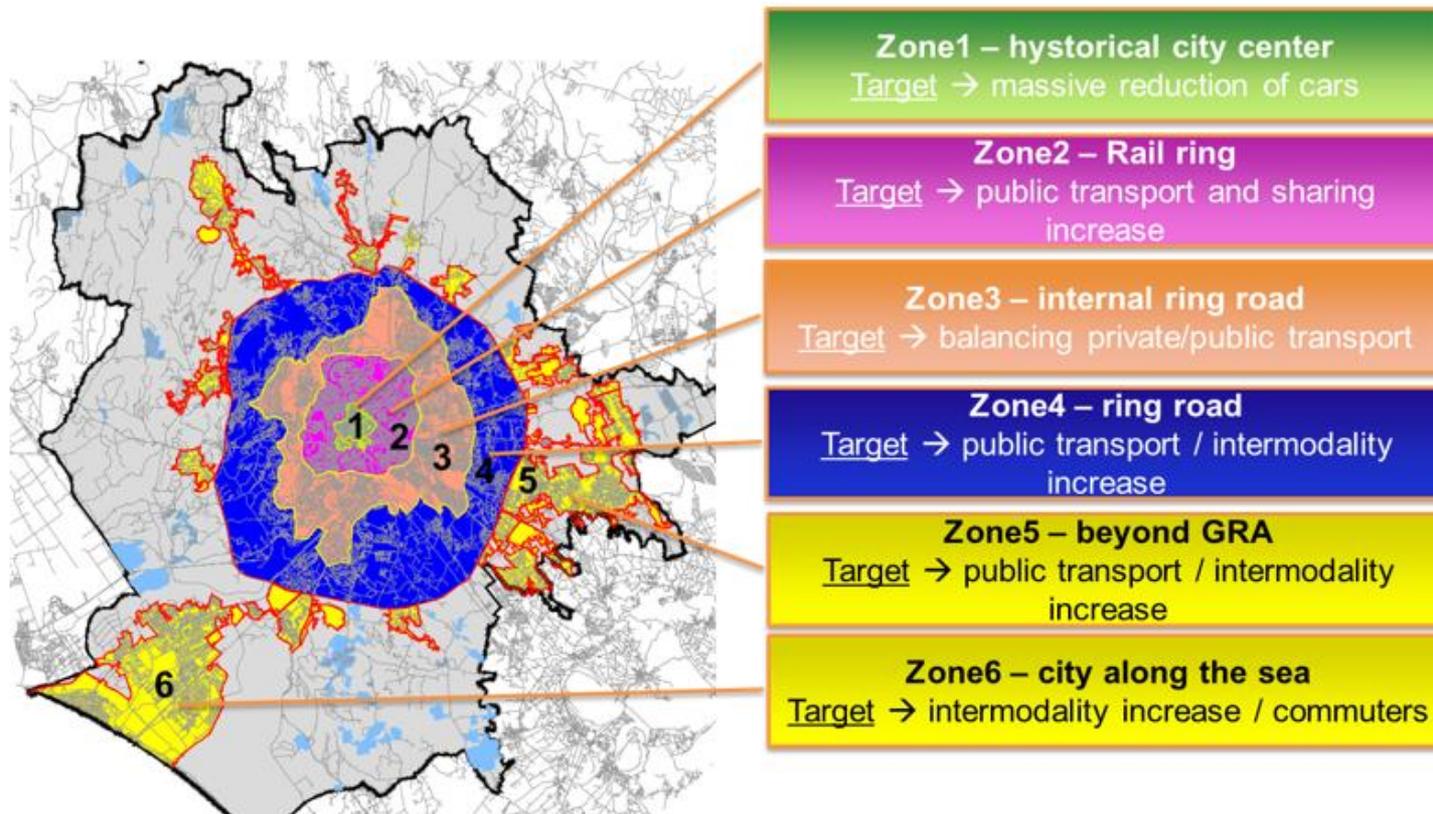
- www.pumsroma.it Let's build Rome together!



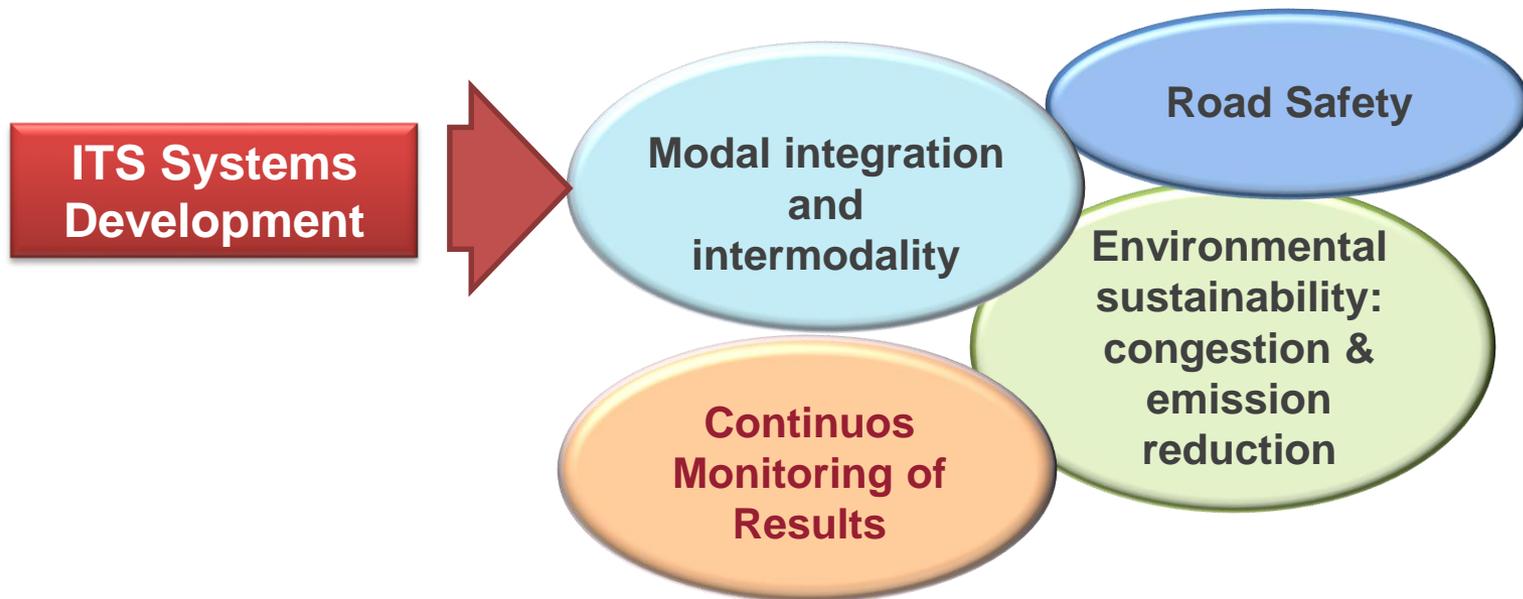
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<input checked="" type="checkbox"/>		Sistema della ciclabilità	313
<input checked="" type="checkbox"/>		Isole ambientali	62
<input checked="" type="checkbox"/>		Sicurezza stradale	148
<input checked="" type="checkbox"/>		Accessibilità per tutti	38
<input checked="" type="checkbox"/>		Tecnologie telematiche	18

UMM Mobility model – 6 areas with increasing constraints

The Urban Mobility Masterplan is a short-term **approved measure** focusing on maximum accessibility, livability, social inclusion, competitiveness, environmental sustainability and equity.

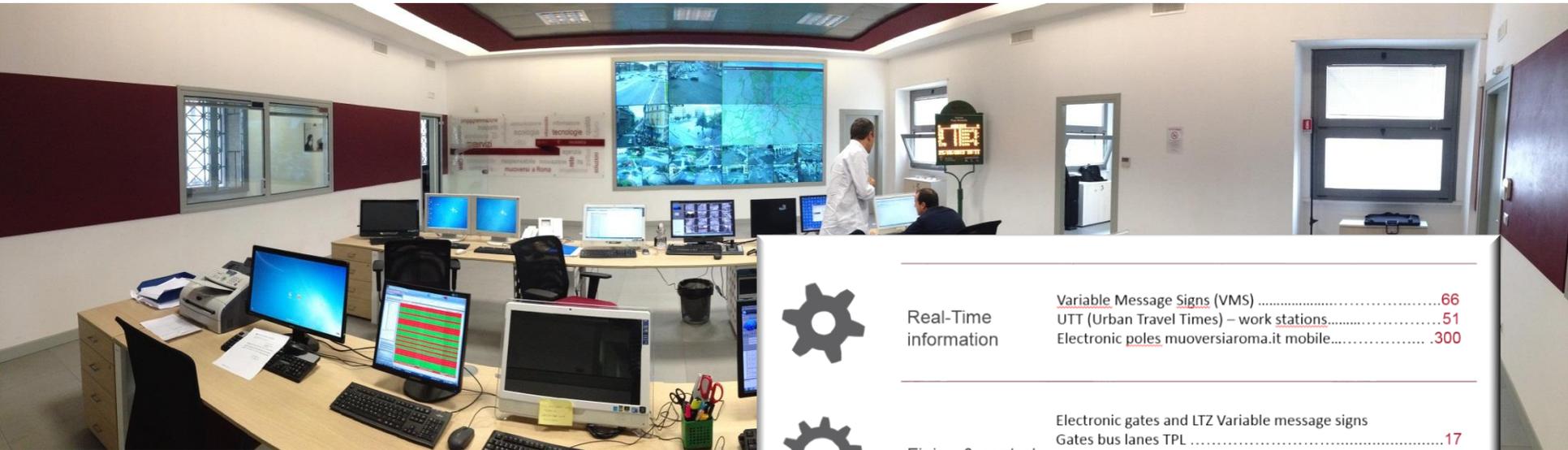


From Urban Mobility Masterplan to SUMP: ITS use & development



The Mobility Centre

P.Le Degli Archivi, Roma



The Center puts together a series of subsystems, each dedicated to the performance of specific functions of monitoring and / or regulation of traffic flows.



Real-Time information

<u>Variable Message Signs (VMS)</u>	66
<u>UTT (Urban Travel Times) – work stations</u>	51
<u>Electronic poles muoversiaroma.it mobile</u>	300



Fining & control Systems

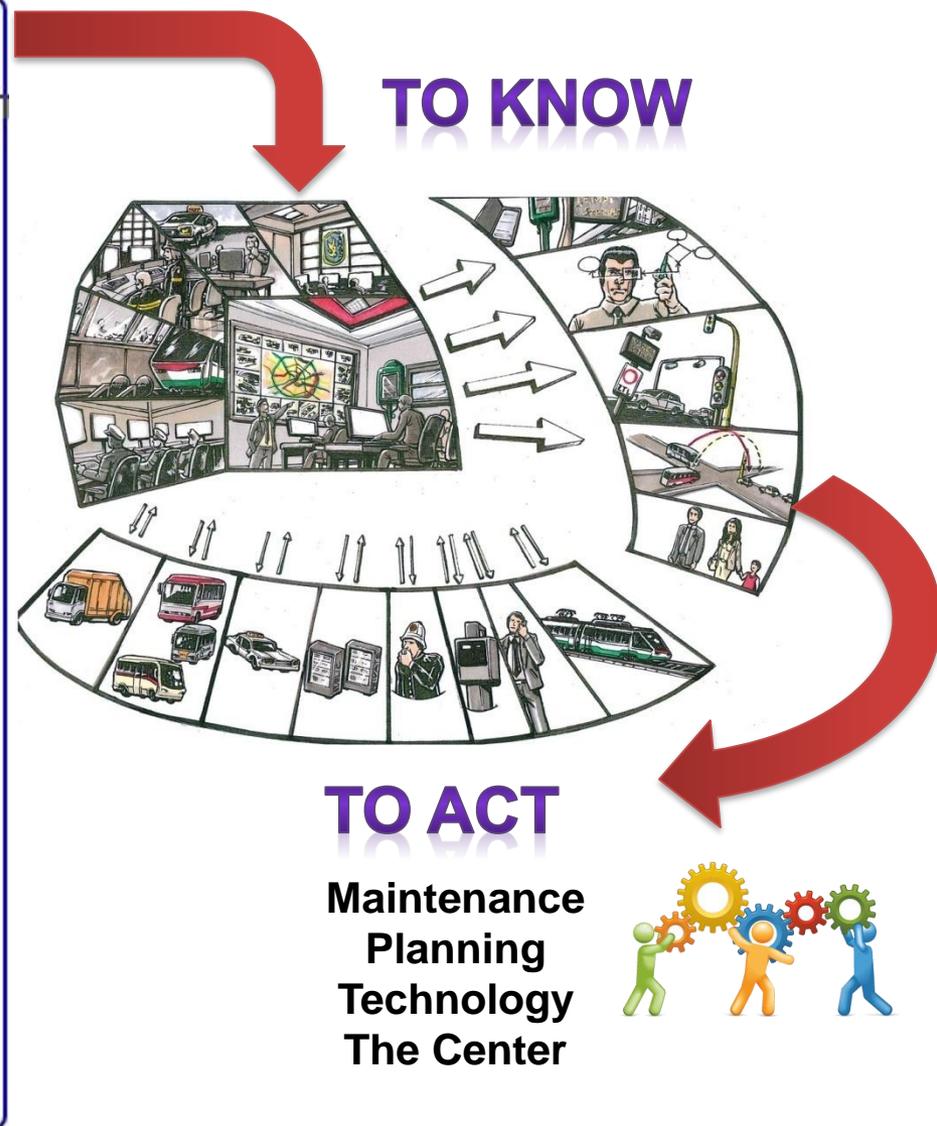
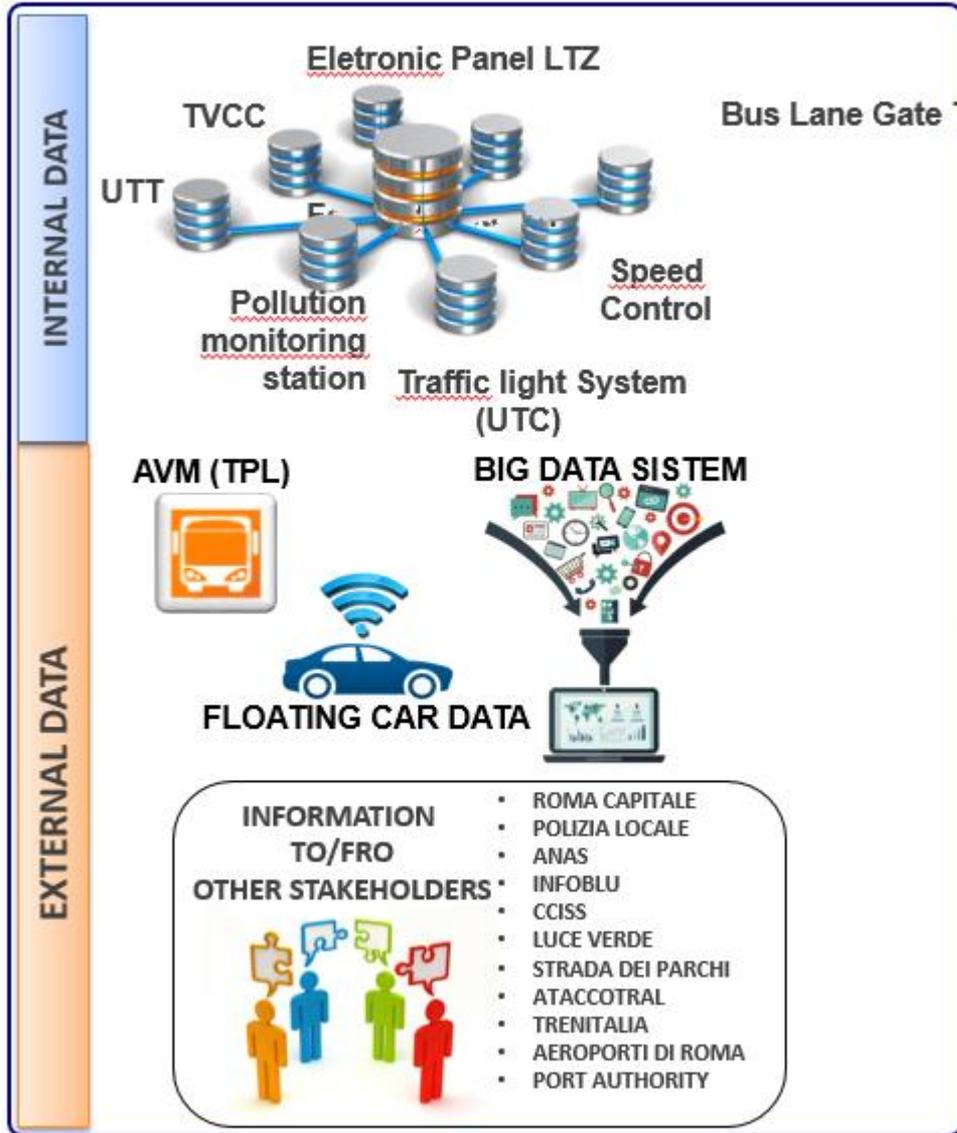
Electronic gates and LTZ Variable message signs	
<u>Gates bus lanes TPL</u>	17
<u>Fotored</u>	1
<u>Vistared</u>	10
<u>Safety Tutor</u>	2

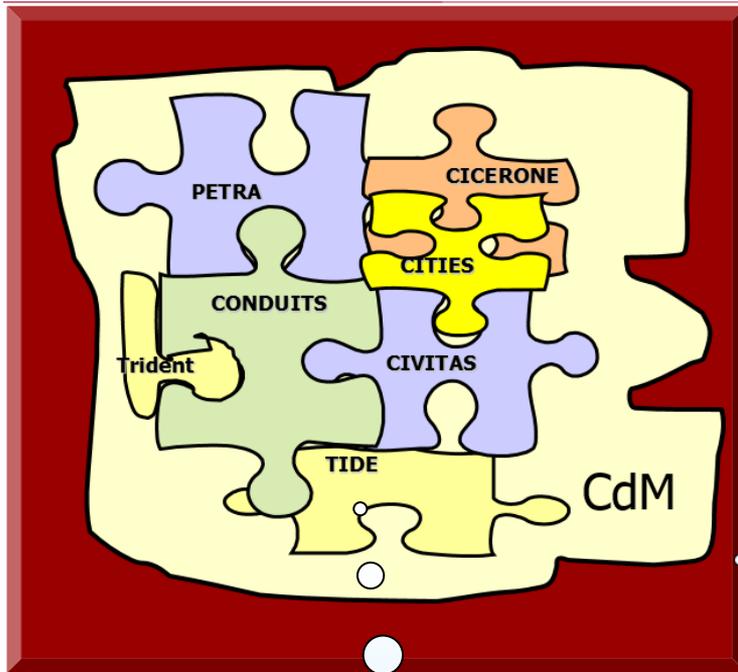


Monitoring Regulation Control

<u>Video surveillance cameras</u>	75
<u>Measurement</u>	130 stations
<u>Traffic lights</u>	1,387
<u>Centralized traffic lights</u>	529








ROMAMOBILITA.IT

mobilità ROMA

Azienda Piani e progetti Comunicazione Servizi Tecnologia

CERCA PERCORSO CERCA LINEA SCARICA APP SPORTELLI ON LINE

muoversiaroma.it

parto da arriva a CERCA linea, fermata, indirizzo CERCA

Mobilità oggi: cantieri e deviazioni? In questo momento

Le ZTL attive

EVENTI FREEPRESS RADIO TV INFOGUIDE ASCOLTA ROMARADIO

Scarica l'App Muoversi a Roma

Via di Santa Croce in Gerusalemme chiusa tra piazza di Santa Croce in Gerusalemme e via Sebastiano Grandis - traffico deviato

Servizi

- ZTL
- Car Sharing
- Pullman Turistici
- Stivare Mto
- Taxi
- Persone con disabilità
- Licenze NCC e battente
- Distribuzione merci
- Mobility Manager

Ultime notizie

CAR SHARING Promozioni 17-10-2016

NCC BUS Dal 17 ottobre e immatricolazione/dis... 18-10-2016

CAR SHARING Attivato p... 11-10-2016

CHIAMATA TAXI Consegna 03-10-2016

BUS TURISTICI Lavori in Farnesina e Olimpico-To 20-09-2016

Sciopero dei trasporti venerdì 21 ottobre

Atac, ecco i nuovi bus Arrivati i primi 25

HO SCELTO DI ANDARE AL LAVORO IN BICI

Open Data service

- Web section of Romamobilita.it dedicated to webmaster e developers.
- **Static data on mobility, API real time, source codes to contribute to service developments servizio.**
- Free access to all services, codes and data are open and updated real-time when available

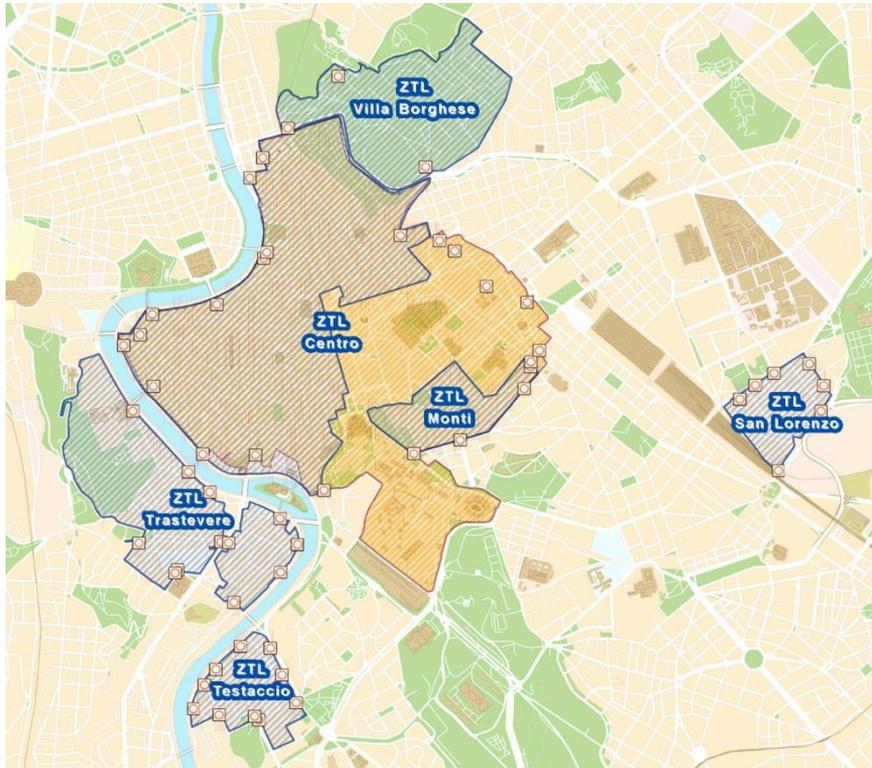
Open Data

App e developer community

internet

Social networks

City Centre LTZs & electronic access control



LTZ Historic Center

Mon. to Fri. 6.30 am - 6 pm

Sat. 2 pm – 6 pm

Fri. & Sat. 11 pm – 3 am

LTZ Trastevere

Mon. to Fri. 6.30–10 am

Fri. & Sat. 9,30pm–3am

LTZ Villa Borghese

Mon. to Sun. 0 –24

LTZ San Lorenzo

From Wed. to Sat. 9.30 pm – 3 am

(May to July & September- October)

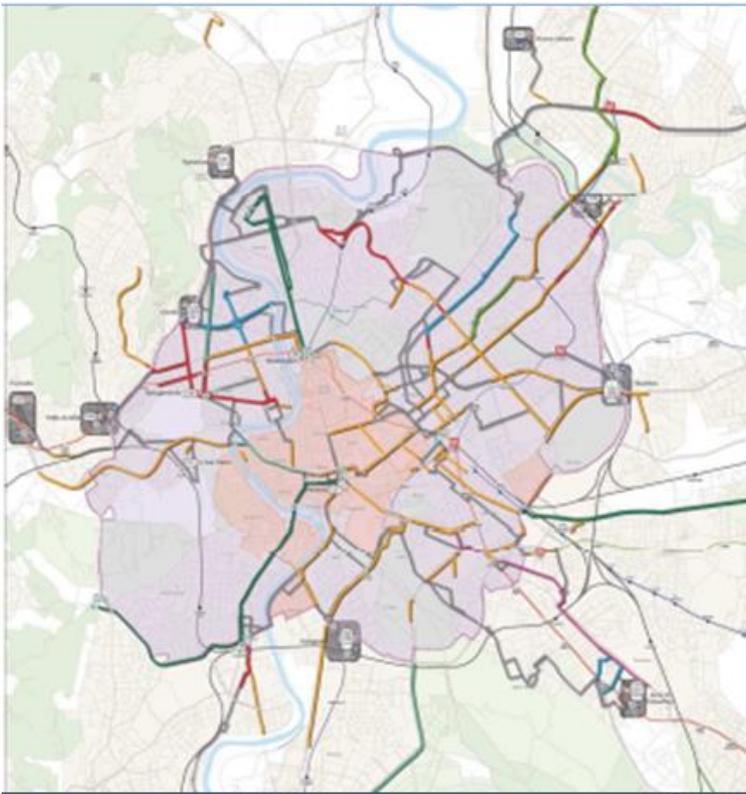
Fri. & Sat. 9,30pm–3am

(November – April)

LTZ Testaccio

Fri. & Sat. 9,30pm–3am

Rail Ring zone: PT reorganization and rewarding scheme



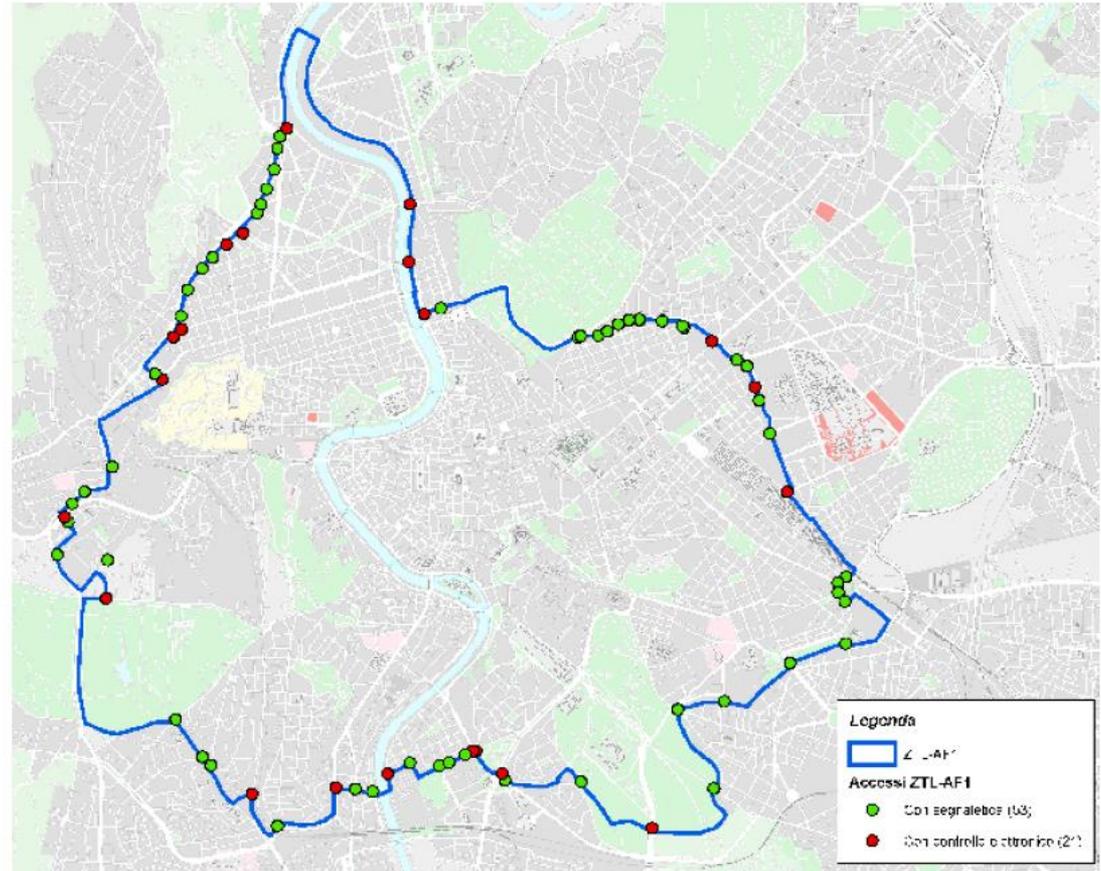
- Rail Ring zone (700,000 inh.): revised rules to limit private traffic according increasing Euro categories.
- **Rationalization of PT:** more integrated with Metro, Tram and Railways nodes. Optimizing stops and lines with multiple steps program (10 steps already done).
- Promotion of **sharing and electric mobility** in a **multi-modal approach**;
- New **LEZ concept:** installation of e-gates to control rules respect.
- by 2018 **rewarding scheme** for non-pollutant drivers with pollution charging concept.

New LTZ VAM – from January 2017

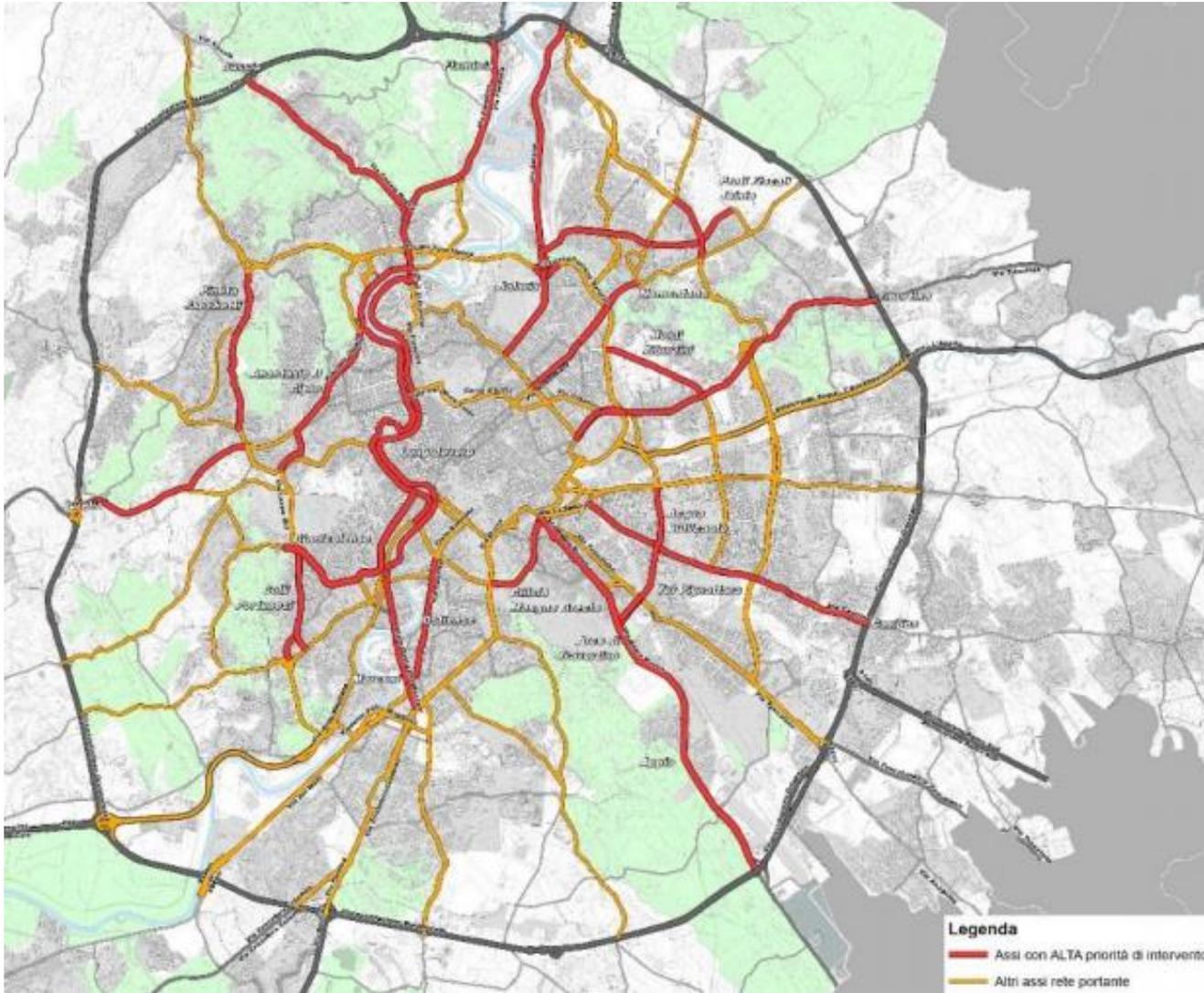
2017
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VAM-AF1: 21 gates

- VAM Rail Ring LTZ : **electronic control on 21 gates** (red dots) for vehicles > 7,5 m. already working
- Signal (PM) control on remaining 53 gates (green dots) within 2018



E-gates on the whole LTZ Rail Ring: 2018-19



The Core Road Network

Over **8,000 km** of real road network

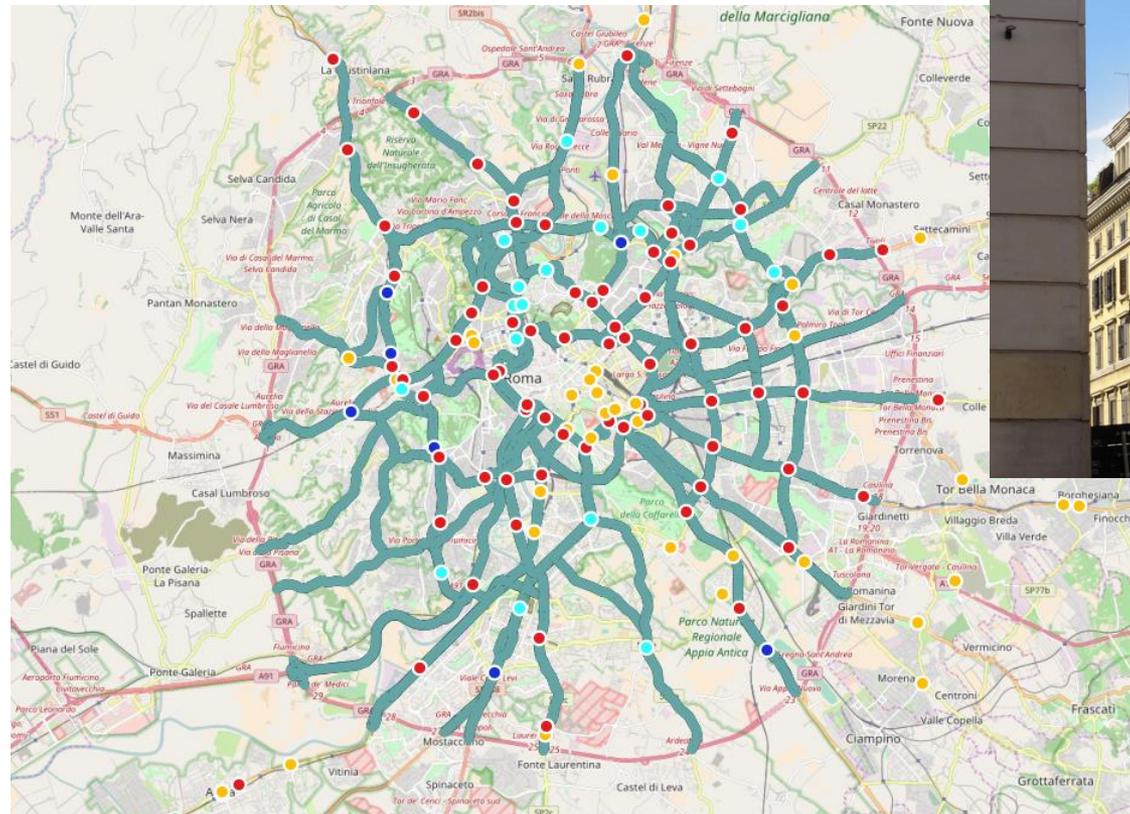
Main network:
approximately 1,279 Km

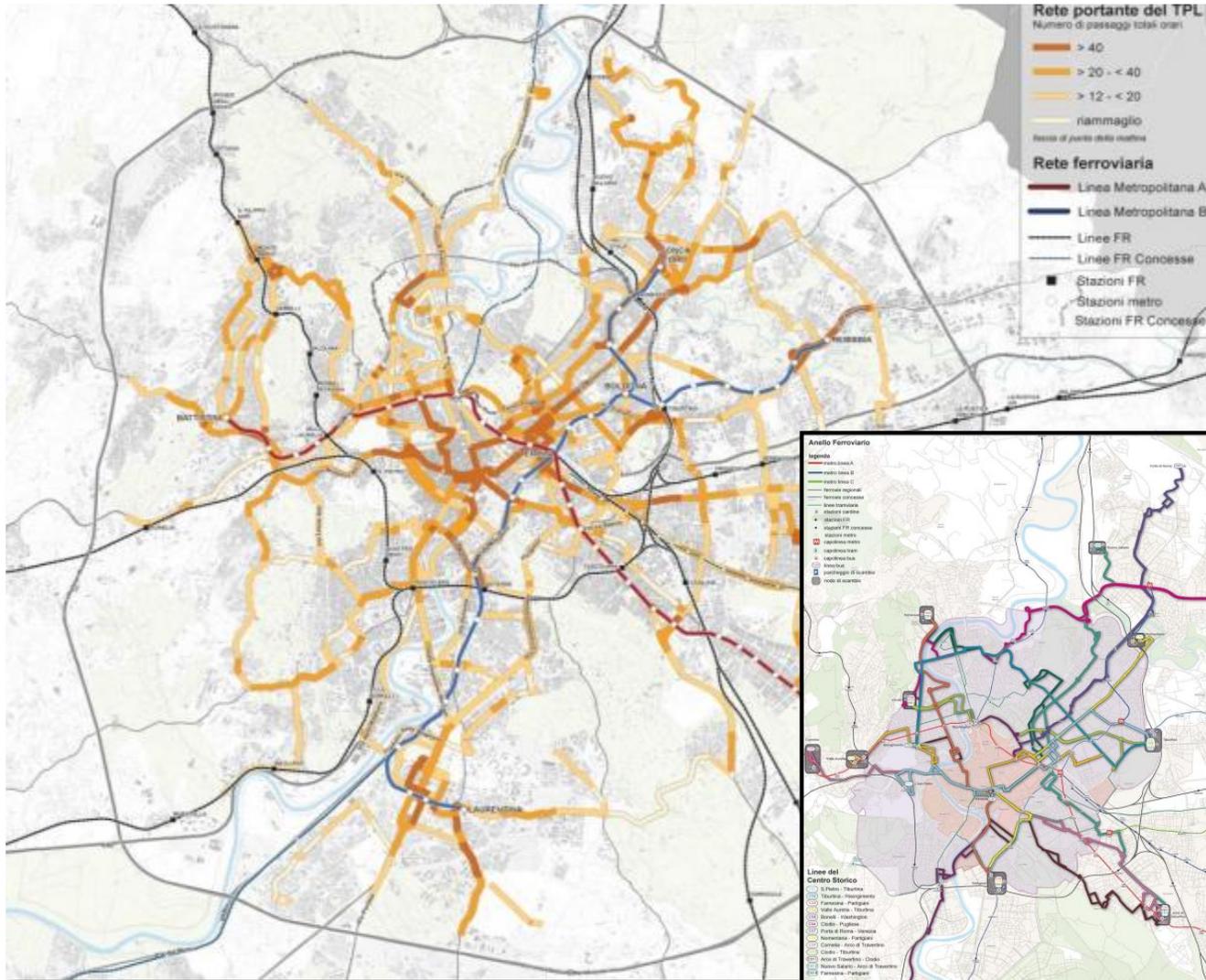
Core Road network is about **400 km** of roads.

It should give maximum fluidity, the highest levels of service, capacity and road safety.

New UTT system – monitoring main routes

- Bluetooth®/Wi-Fi® sensors on road: real-time information on travel times and O/D dynamic matrix
- 30 main routes, each one constituted by 3-4 bidirectional paths.
- O/D Matrix: 90 Origin/Destination relations.
- Becoming a Urban Priority Area with real-time traffic data
- To be integrated with external sources (Google, Inrix, Infoblu, ecc) in partnership agreements



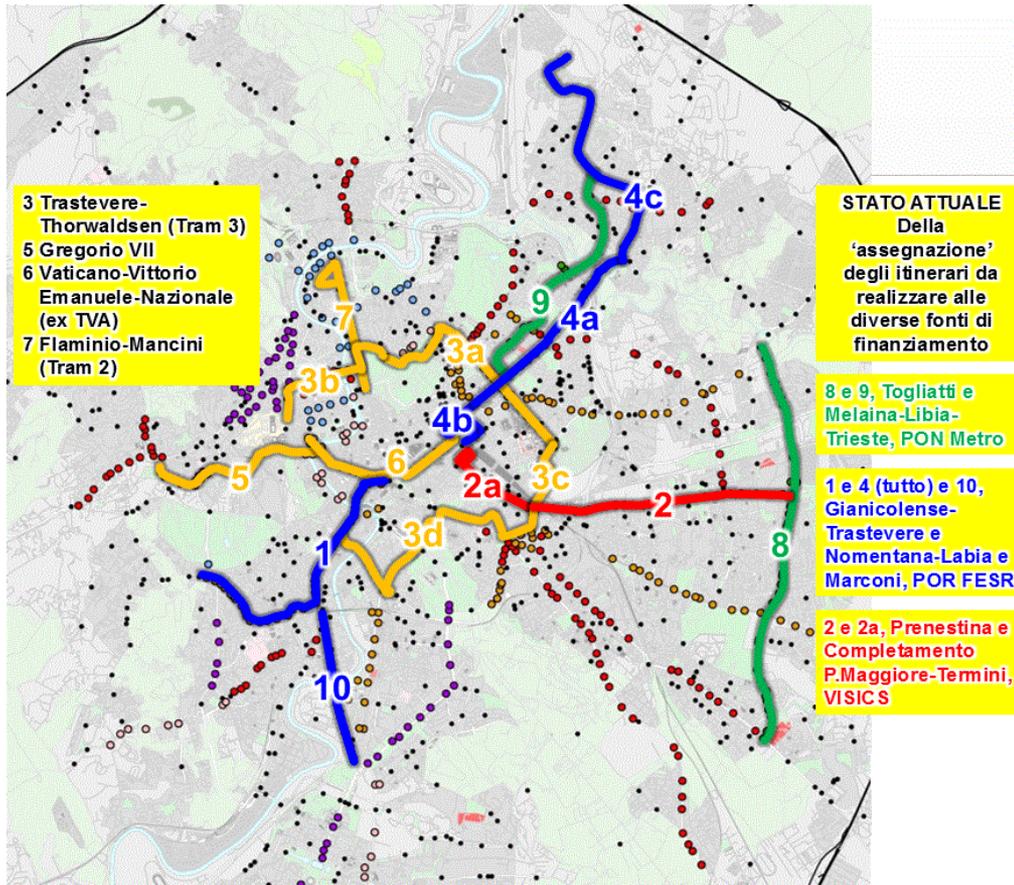


The Core Network of LPT

about 386 Km, released on tangential and radial routes, characterized by high capacity and high frequencies through the reorganization of the intersections, improving the traffic light regulation and the possible reorganization of the parking disciplines.

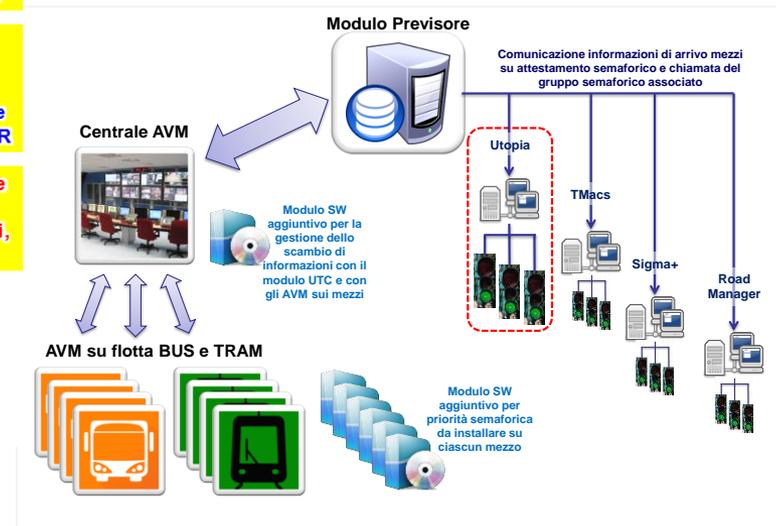
The Core Network LPT in the old city center - main itineraries

PT & Tramway network: new priority systems on traffic lights



REDUCTION ABOUT 10% OF MACHINE STAFF SHIFTS ON ALL LINES

-10% STANDARD COST
TRMWAYS YEARLY PRODUCTION COST - € 5.200.000



Road Safety Centre

The Centre gathers and process accidents data detected and released by the Urban Police (approx 30.000 record/yr), via a dedicated Info System.

- gathering and managing of road accidents data
- analyzing and monitoring mobility measures to be implemented
- planning and promoting project activities and road safety measures





Integration among financing funds

- **Ministry of the Environment:** projects CICERONE, VISICS, PICOR & for IoT
- **Ministry of Transport:** Integrated projects MP2 & MP3
- **EU direct funds: PON Metropolitan Areas** - Infomobility development and ITS infrastructures
- **EU direct funds: POR FESR Regione Lazio** - e-gates for Rail Ring, TP priority systems, ecc
- **H2020 projects PETRA e MYCORRIDOR** R&S on Open Data, crowdsourcing & MaaS



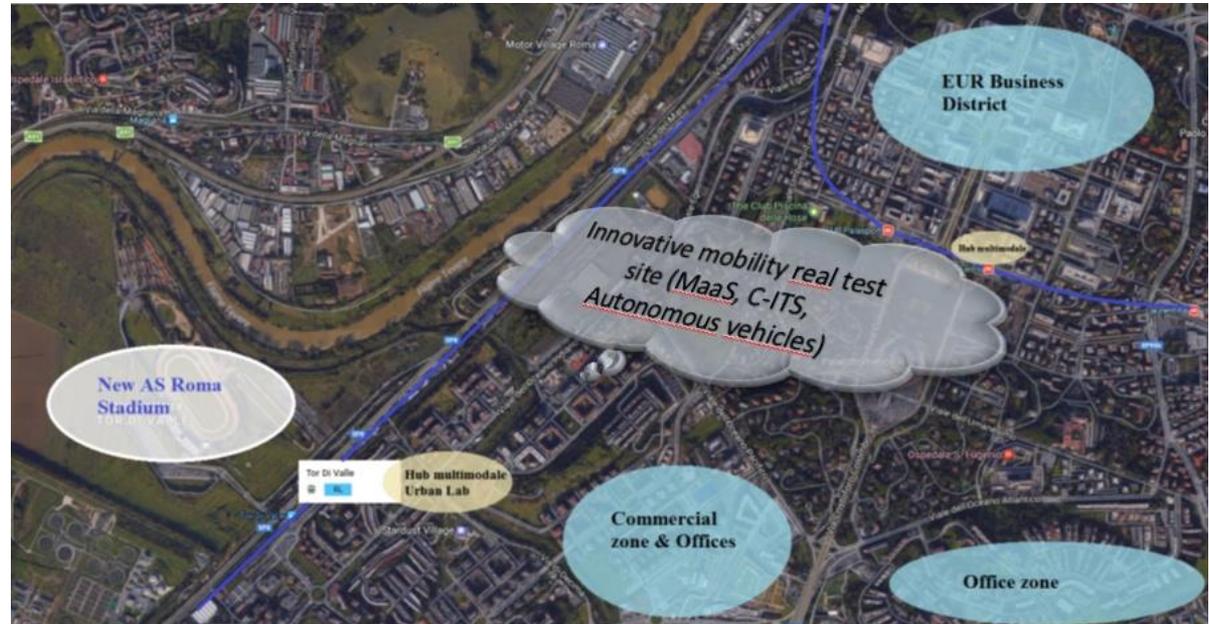
Extending actions in suburbs and towards future

1) Peripheral national funds:

Rome participated to a national bid and it is now receiving funds for two regeneration projects in suburbs, expanding ITS & sustainable mobility policies in the outskirts.

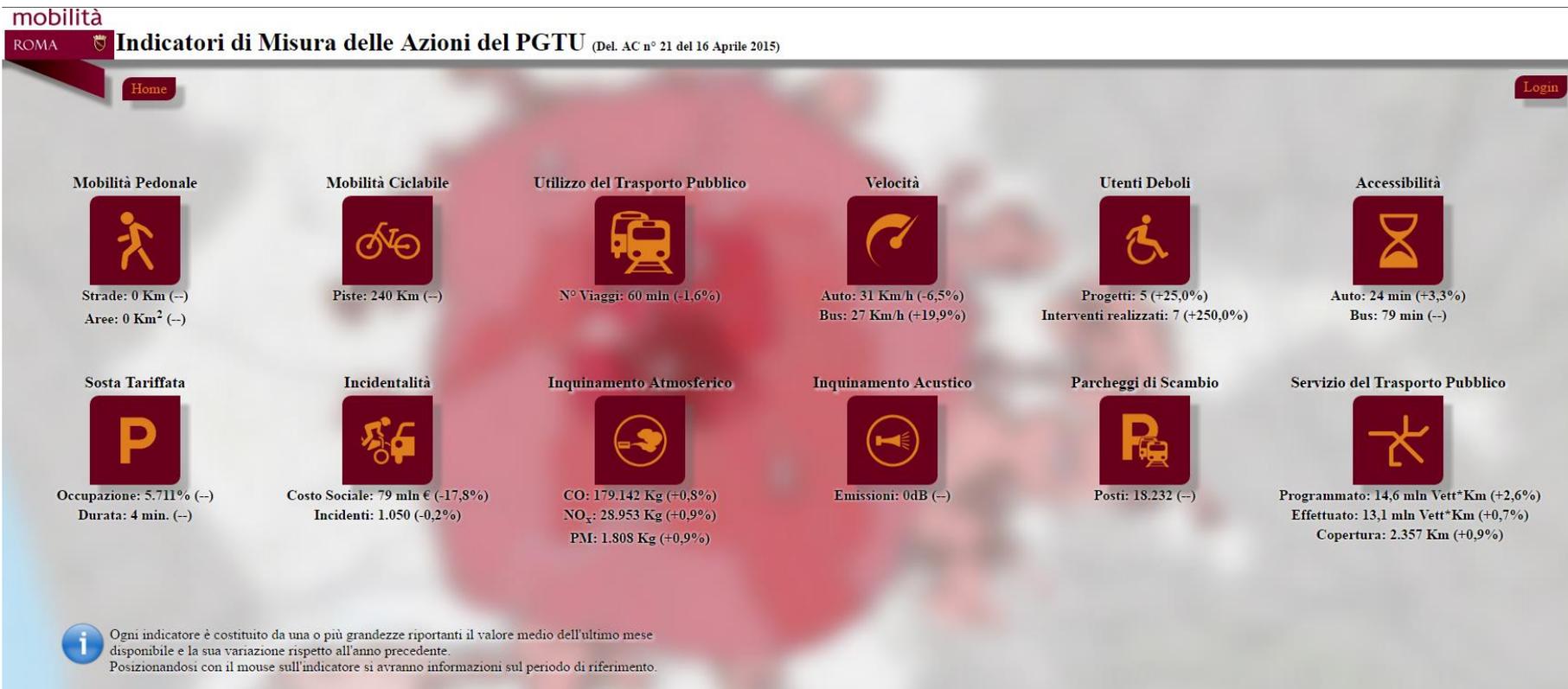
2) Future pilots: from MaaS to C-ITS & CAV

Integrate innovative transport services for passengers and goods in **development of most important business districts of the city.**

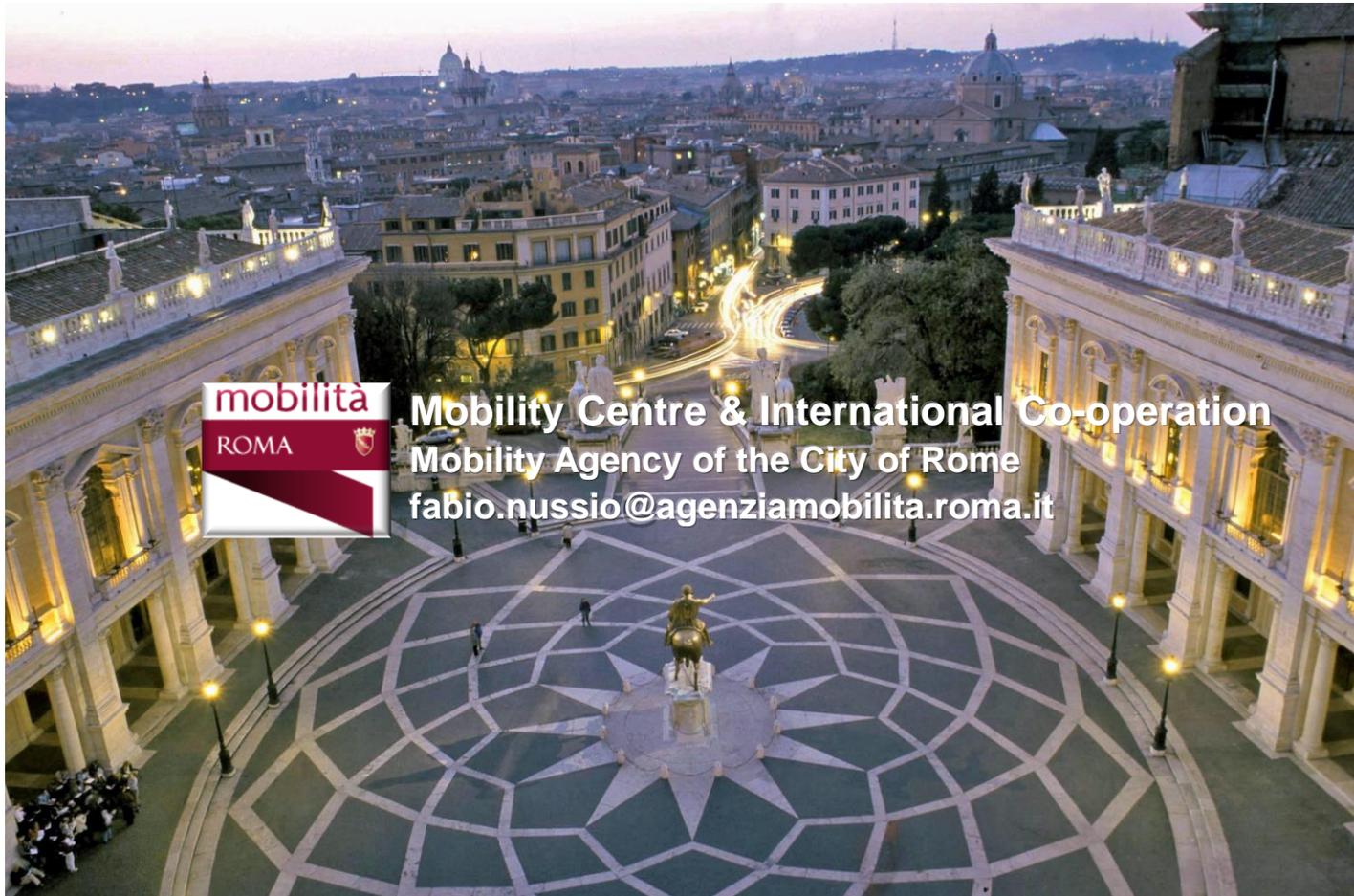


Monitoring the implementation of Mobility Masterplan

- Building the mobility dashboard: work in progress...
- Based on indicators updated in real-time in some case.



Thanks for your attention!



Mobility Centre & International Co-operation
Mobility Agency of the City of Rome
fabio.nussio@agenziamobilita.roma.it