

Annual Conference London, October 2-4, 2019

Session 1 – Dealing with uncertainty IN PLANNING AND TRANSPORT

"JUST APPROVED: THE SUSTAINABLE URBAN MOBILITY PLAN (SUMP) FOR ROME"



Ing. Fabio Nussio International Co-operation Mobility Agency of the City of Rome













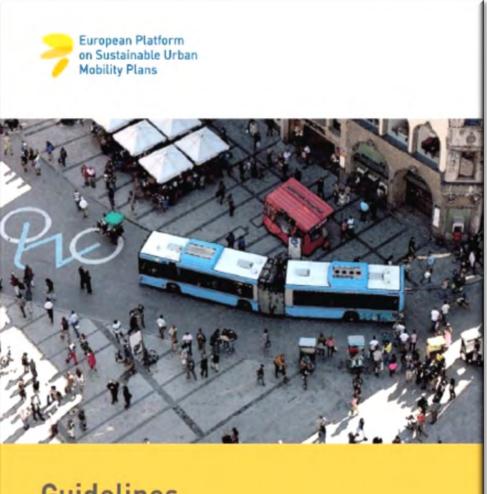


Mid term infrastractural measures – SUMP in Italy

EU provides at Local level Best Practice and Guidelines:

- Action Plan for Urban Mobility, https://ec.europa.eu/futurium/en/urbanmobility
- Europe on the Move 2017: Package of measures for a more connected and less polluting mobility
- **Guidelines** for Sustainable Urban Mobility Planning (SUMP), now in the 2° edition

Italian Ministry of Transport: adoption in 2017 of the National Guidelines for SUMP in Italian Cities, to be approved in each city in **24 months**.



Guidelines **Developing and Implementing**

a Sustainable Urban Mobility Plan







SUMP guiding principles

Overcome the "traffic approach" towards "Plan for people" with:

- Integration of mobility resources
- Promotion of multimodality with private car minimization for individual use
- Safety levels for PT and road traffic increase
- Public transport capacity increase
- Soft & sharing mobility increase (car pooling, car, bike, van sharing, mobility manager activities)
- Less congestion and atmospheric & acoustic pollution -energy consumption reduction – CO2





INTRODUZIONE

A LONG PATH IN ROME...







Rome PUMS guidelines publication in march 2017 "Fixed Intervention Plan" **Opening of the portal for citizen participation**

PUMS Guidelines approval by the Local Authority

Analisys of the proposals received in the listening phase

Participation process with organization of events on each relevant topic

Building scenarios for each Component Plan

Checking the General and Specific Objectives Plan

SUMP Document drafting

Official Participation phase.

Adoption and publication of the SUMP – 8/19

Strategic Environmental Impact Assessment (EIA)

Observations transposition to the SUMP

SUMP final approval by Local Authority







2nd Listening phase

Consultation phase

PARTICIPATION APPROACH

- CITIZEN LISTENING PHASES
- THE CONSULTATION
 - CITY USERS
 - ASSOCIATIONS
 - **STAKEHOLDERS**
 - BUSINESS OWNERS
 - CITY DISTRICTS















PARTICIPATION APPROACH: WWW.PUMSROMA.IT

1^a LISTENING PHASE

18 SEPTEMBER 2018

Listening phase

28 FEBRUARY 2018

At the same time:

- **Public meeting** in City District
- **Interview** and analysis (published on the Portal)
- account on social channel Twitter@PumsRoma

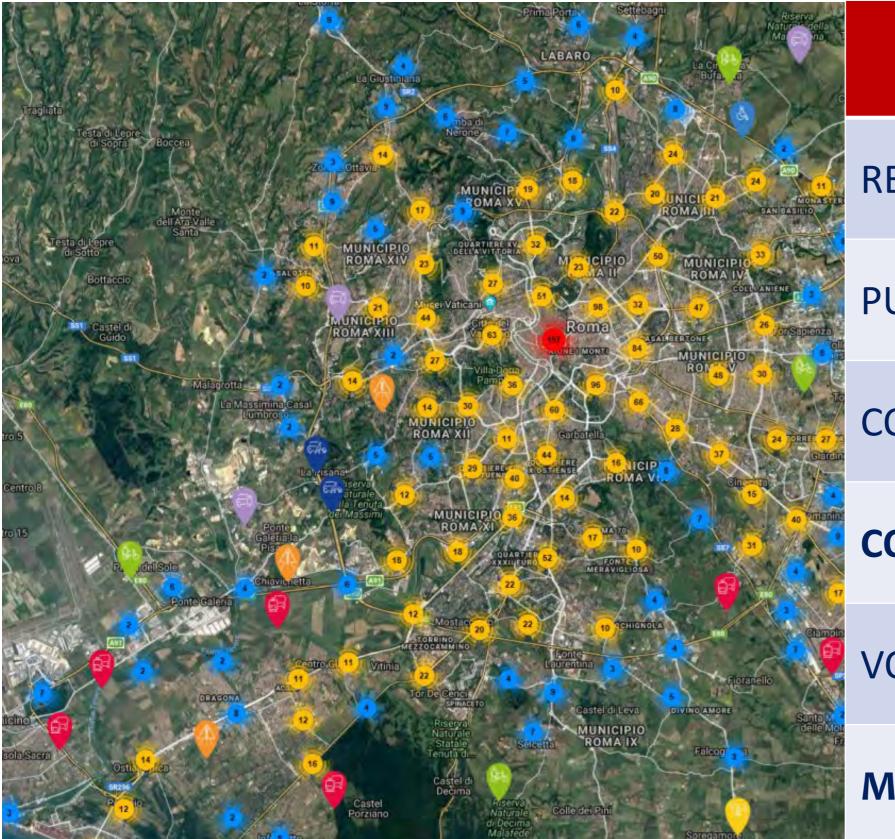








PARTICIPATION



RECEIVED PROPO

PUBLISHED PROP

COMMENTS MAD

CONTACTS

VOTES CAST

MEAN TIME

All the proposals have been examined and each has been answered

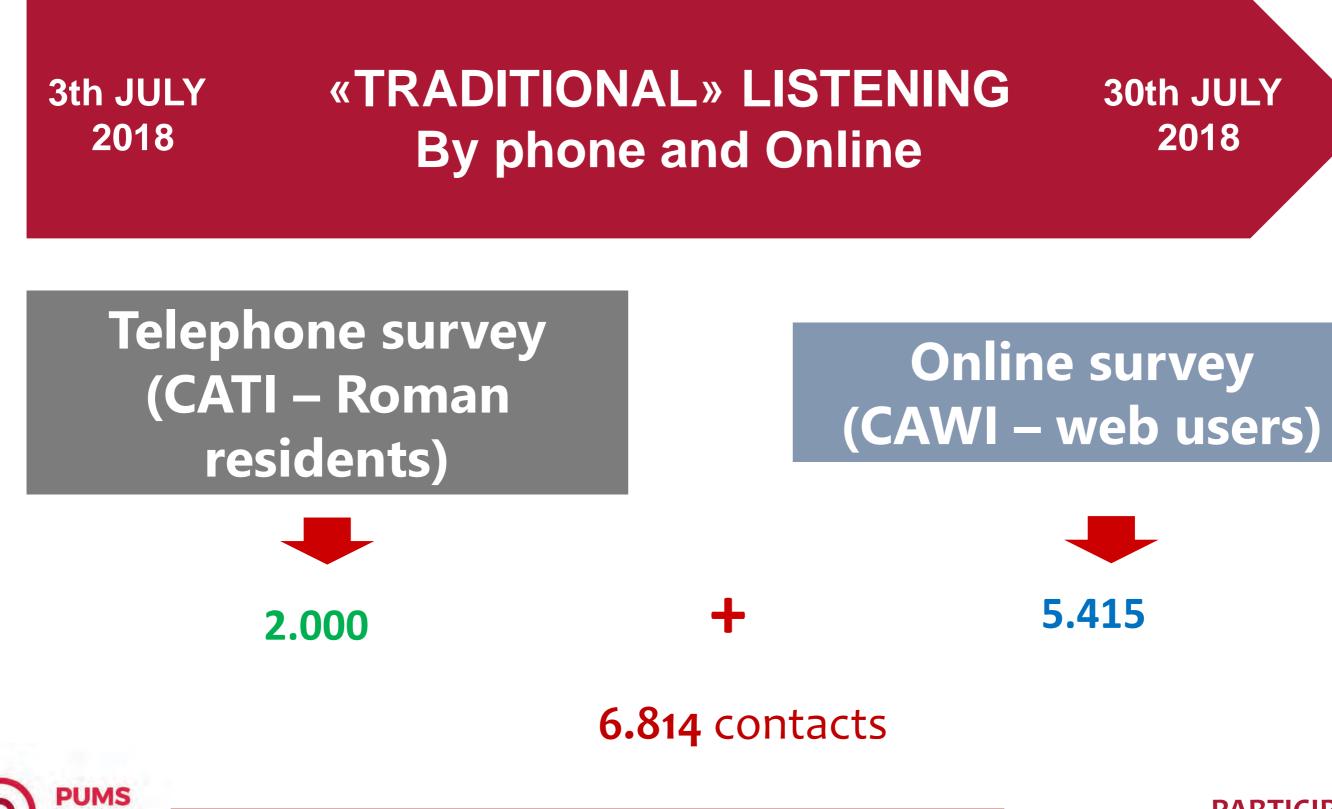


1st LISTENING PHASE The figures

SALS	4,106
POSALS	2,668
DE	3,132
	43,651
	28,123
	4,3 MIN

PARTICIPATION APPROACH: WWW.PUMSROMA.IT

2^a LISTENING PHASE





PARTICIPATION

PARTICIPATION – LISTENING PHASES

Rankings

Top 3	By phone	On Line
1	Reduce the accident rate	Strengthen infrastructure for
2	Reduce traffic jams and congestion	Reduce traffic jam congestion
3	Reduce polluting emissions	Promove urban cy



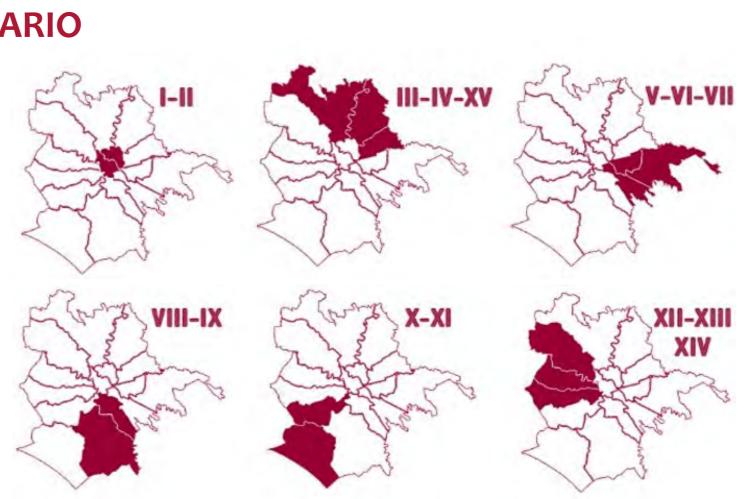




CONSULTATION PROCESS on the SUMP PROPOSAL - 1

BUILDING TOGETHER FINAL SUMP SCENARIO

The municipal area has been divided into **six** territorial areas defined by the union of two or three Municipalities and, for each area, three meetings have been held in the period 18 March - 20 May.



The majority of institutional stakeholders were also involved, starting with the trade unions. Meetings were also held with the business owners categories, commerce and tourism association and with the Municipality Commissions.





CONSULTATION PROCESS on the SUMP PROPOSAL -2

The **proposals and observations** have been summarized on tables and tables and classified into 5 themes detecting some macro-needs:

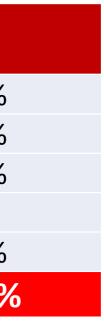
- improve the quality and supply of public transport;
- Improve road safety;
- complete itineraries and routes dedicated to **soft mobility**, especially **cyclepedestrian** in order to improve the network effect and safety.

SUMP Proposal: participation path	N° Proposal	%
Public Transport	135	45%
Intermodality	36	12%
Cycling	76	25%
Env & pedestrian Areas	20	7%
Sharing+Logistic+Safety	34	11%
TOTAL Proposal	301	100%









THE APPROVED SUMP (D.A.C. 60/19 – August 2, 2019)

DOCUMENTS AVAILABLE ON HTTPS://WWW.PUMSROMA.IT/PARTECIPA/DELIBERE -DI-GIUNTA/

IN THE FOLLOWING

REFERENCE SCENARIO (SR): INCLUDES THE ACTIONS ALREADY FINANCED, EVEN NOT YET IMPLEMENTED.

THE SUMP SCENARIO (SP): ACTIONS AND INTERVENTIONS TO BE IMPLEMENTED IN 10 YEARS FROM PLAN APPROVAL.





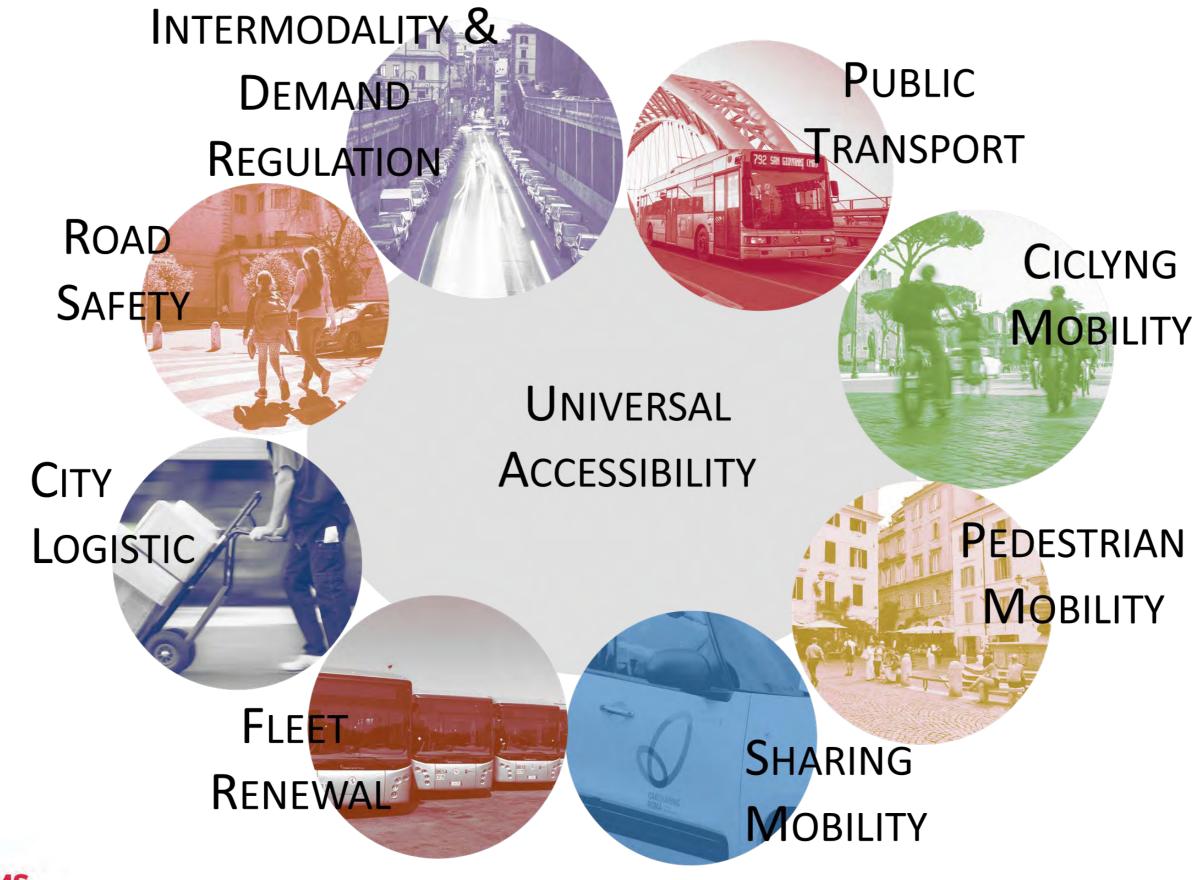








SUMP MAIN COMPONENTS











DEVELOPMENT OF PUBLIC TRANSPORT: Figures

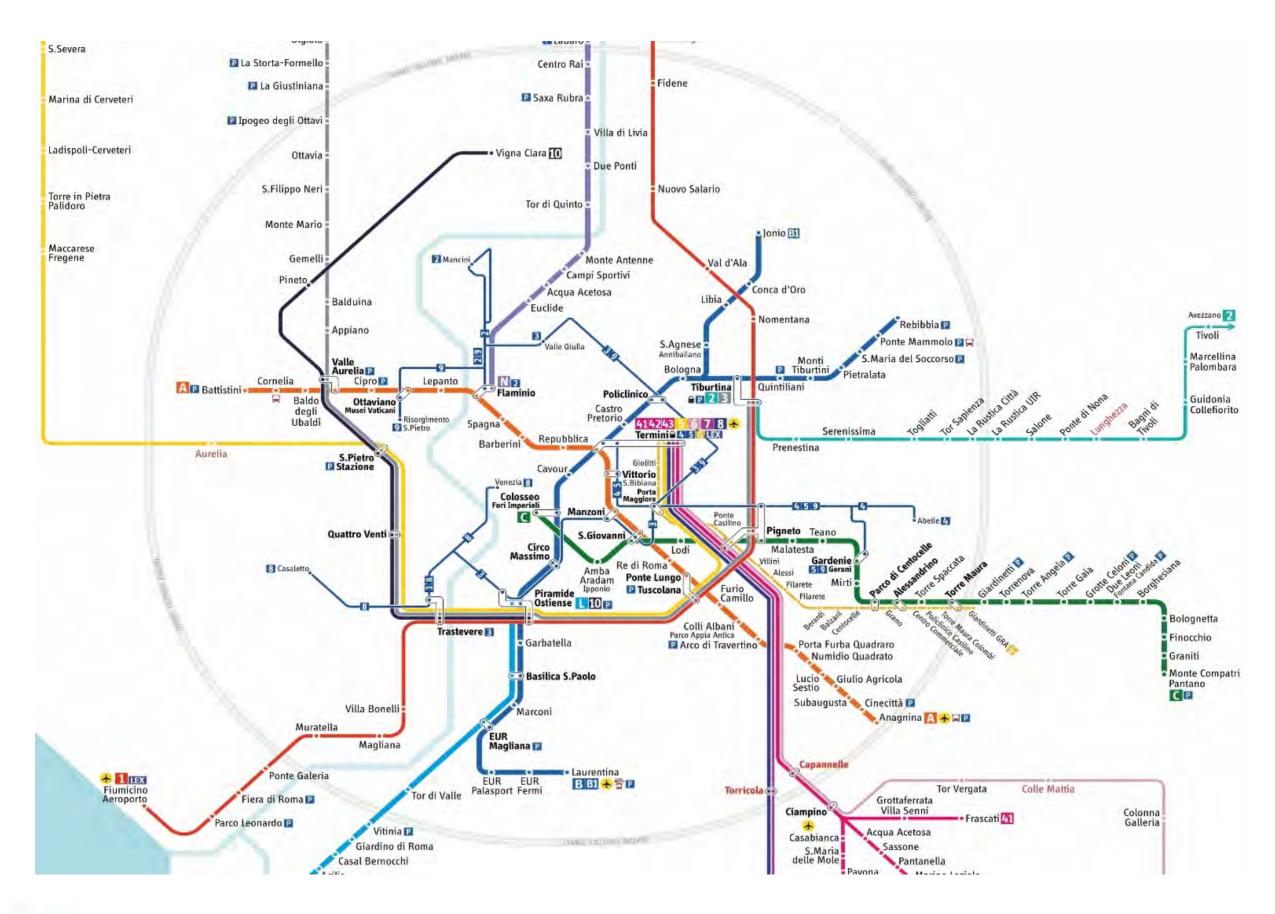
Extension of PT infrastructure	km
METRO & RAILWAYS Extensions	43,4
New intermediate lines (cableway, people mover, etc.)	9,8
New tramway branch / link / connection	58







REFERENCE SCENARIO: Rail PT Network







SUMP SCENARIO: Whole Rail PT Network



PUMS Piano Urbano della Mobilità Sostenibile



M linee metropolitane

Anagnina-Monte Mario FS
 Casal Monastero-Laurentina
 Al Scambiatore Nord-Laurentina
 Monte Compatri/Pantano-Farnesina
 Ojetti-EUR Agricoltura
 Piramide/Ostiense-Ostia C.Colombo
 Flaminio/Piazza del Popolo-Montebello

I linee tramviarie

Stazione Termini-Auditorium/Gittà della Musica
 Flaminio/Piazza del Popolo-Vigna Clara
 Cornelia-Ponte Mammolo
 Togliatti/Abelie-stazione Trastevere
 piazza dei Gerani-stazione Termini
 largo Preneste-stazione Ostiense
 Basilica S.Paolo-Ponte Mammolo
 largo Preneste-Casaletto
 piazza dei Gerani-piazzale Clodio
 Ponte Mammolo-Basilica S.Paolo
 metrotram Giolitti-Scambiatore A1 Sud
 metrotram Torre Angela-Anagnina

linee ferroviarie regionali

Orte-Fiumicino Aeroporto Roma Tiburtin a-Tivoli-Avezzano Roma Tiburtina-Cesano-Viterbo Roma Termini-Frascati Roma Termini-Albano Laziale Roma Termini-Velletri Roma Termini-Civitavecchia-Grosseto Roma Termini-Cassino Roma Termini-Minturno/Scauri Roma Termini-Nettuno Roma Flaminio/Piazza del Popolo-Viterbo 10 Anello metropolitano EX servizio espresso Termini-Fiumicino Aeroporto capolinea bus regionali bus per aeroporti treni nazionali P parcheggio di scambio limite di validità della tariffa urbana Metrebus

- F impianti a fune
- 1 Casalotti-Battistini
- 2 Bufalotta/Porta di Roma-Jonio
- 3 Villa Bonelli-EUR Magliana
- 4 piazzale Clodio-Ponte della Musica

SUMP SCENARIO: PT Network

First interventions for the next 5 years

SHORT TERM < 5 years	Financin request
Cableway Battistini-Casalotti	2018
CablewayVilla Bonelli-Magliana-Eur Magliana	2018
Tram branch Verano-Stazione Tiburtina	2018
Tram connection Piazza Vittorio-Largo Corrado Ricci Fori Imperiali/Piazza Venezia	2018 2019
Tram Line Roma-Giardinetti da Termini a Tor Vergata	2018
East tangential tramway link Subaugusta-Viale Palmiro Togliatti-Ponte Mammolo	2018
Tram connection Stazione Termini-Piazza Venezia-Piazza Risorgimento	2019
Upgrading and upgrading of the railway line Roma Lido and transformation into Metro E	
Upgrading and upgrading of the railway line Roma Nord and its transformation into Metro F	
New stations Torrino e Giardini di Roma on Roma-Lido	
Improvement of station node Ostiense-Piramide MB-Porta S.Paolo	
Link Ponte Lungo Metro A- Stazione Tuscolana FL	
Link Libia Metro B1-Stazione Nomentana FL	



ella Mobilità



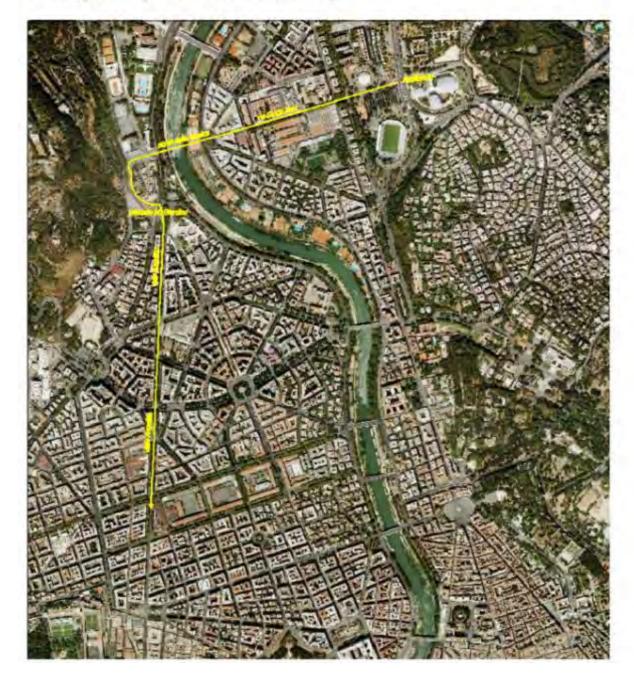


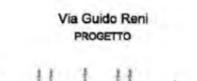
SUMP - I step for PT network – project sample recovering urban spaces

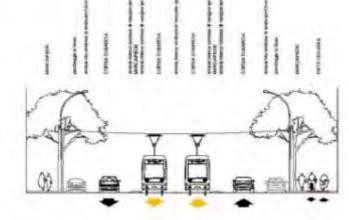


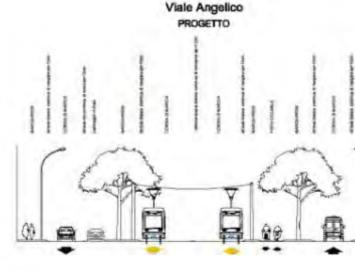
Schede progetto Tramvia della Musica

Corografia generale e sezioni tipo















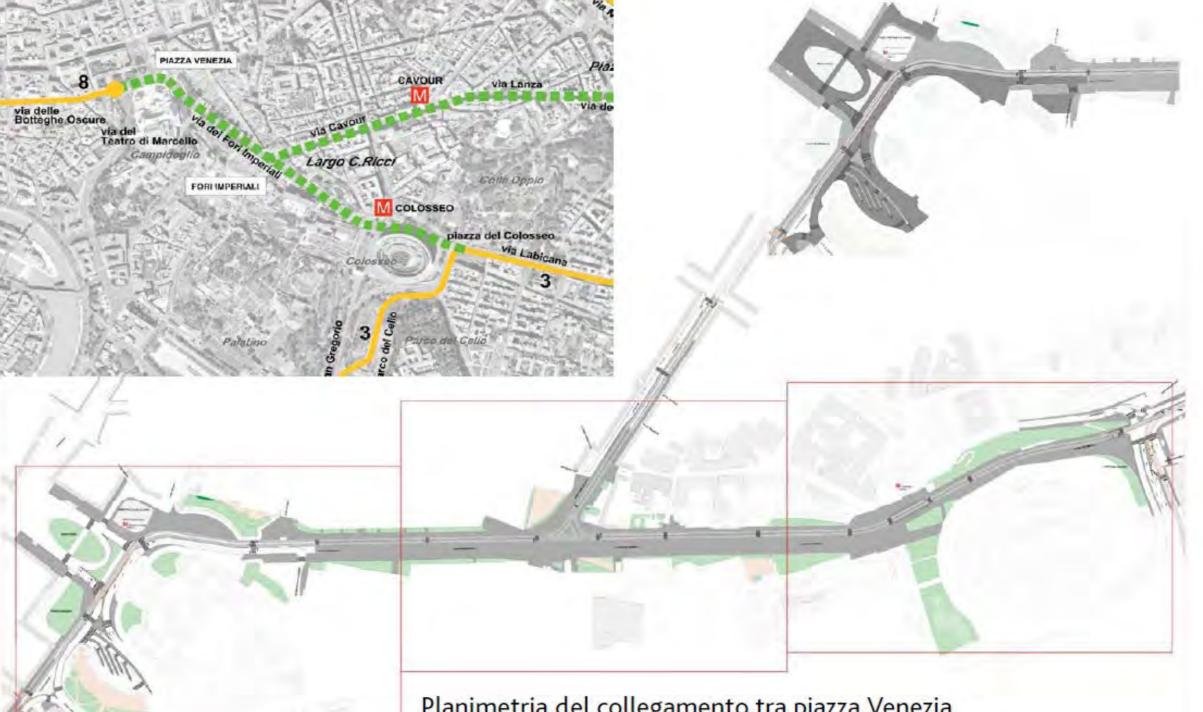


SUMP - I step for PT network – project sample



Schede progetto Tramvia dei Fori

Corografia generale

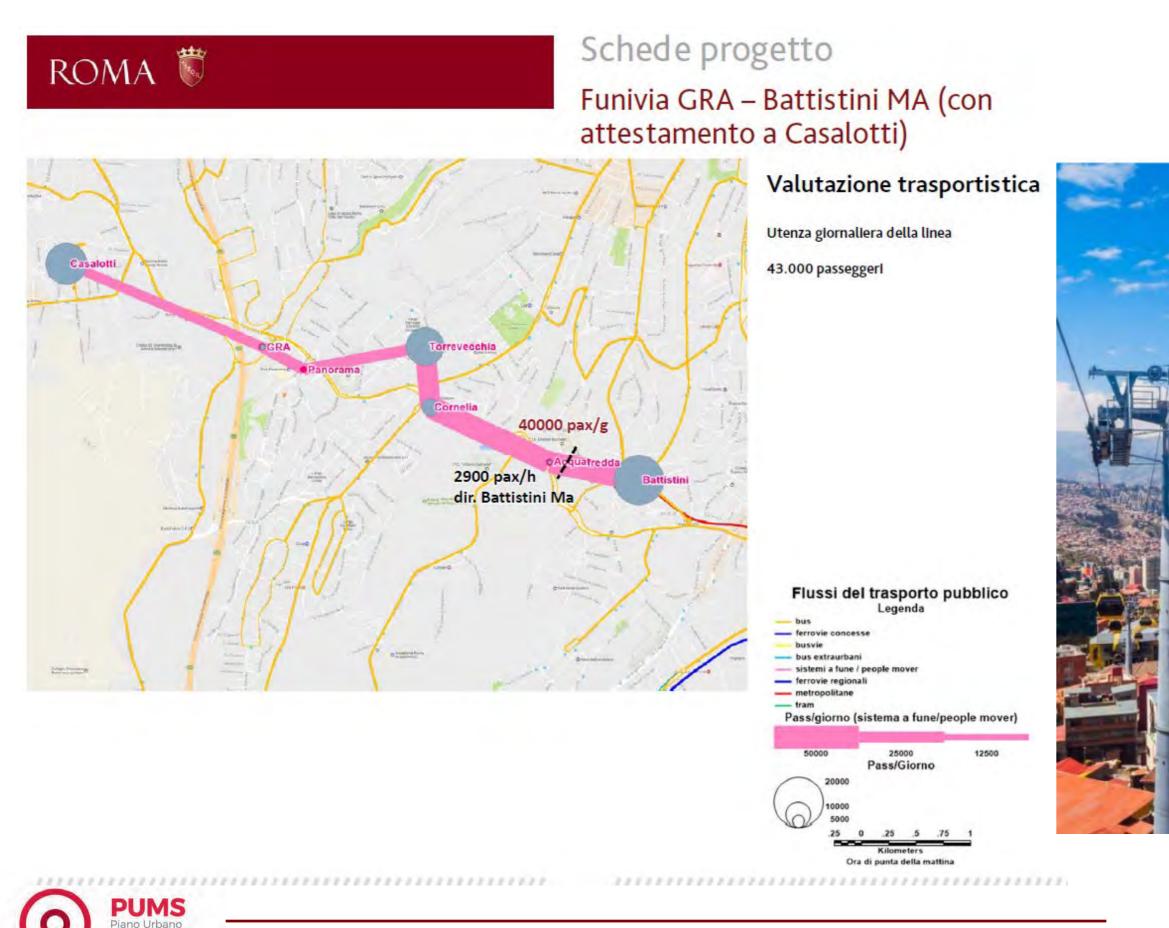


Planimetria del collegamento tra piazza Venezia, piazza del Colosseo e la sede esistente su via Labicana





SUMP - I step for PT network -**Innovative solutions to connect peripheral areas**



lella Mobilità







DEMAND REGULATION

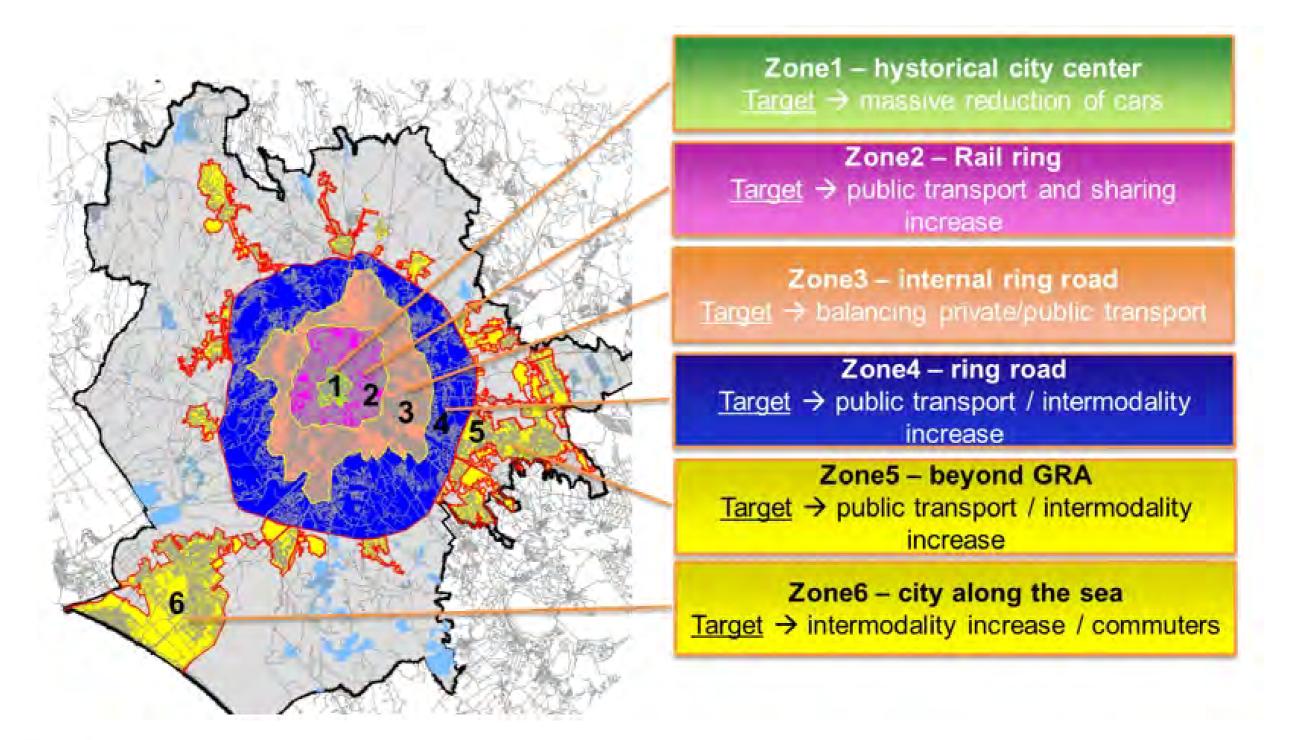
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SUMP: Demand Management Policies

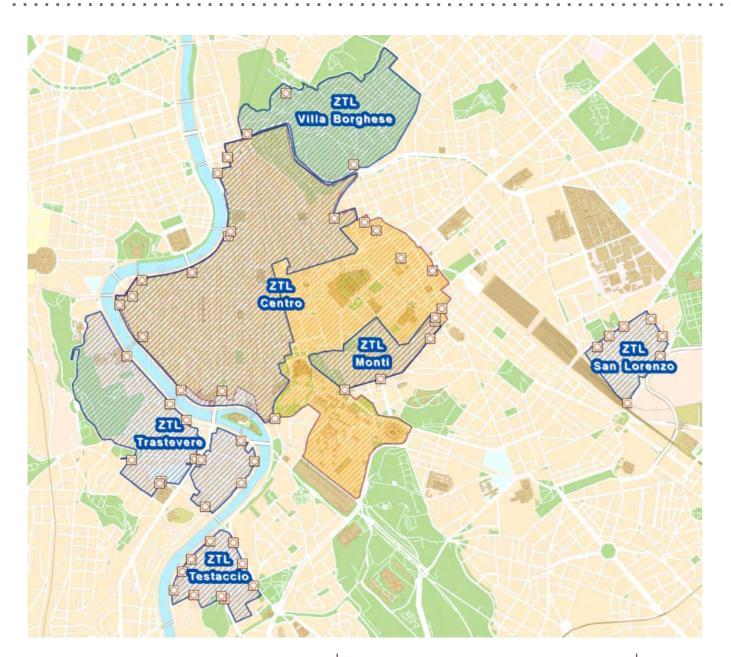
City zoning always more in 6 areas with increasing constraints to private mobility and focusing on multimodal mobility with emphasis to soft modes, supported by ITS measures.







SUMP: Demand Management Policies Prescent status of 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

SUMP SCENARIO: Demand Management

Adoption of the C40 protocol - FFFS

Participation in the "FOSSIL FUEL FREE STREETS" (FFFS) Declaration of the C40 international network which consists of two objectives:

- Purchase of only emission-free PT vehicles starting from 2025
- Realization of at least one urban area "with zero emissions" from transport by 2030

UVAR in the Railway Ring Area

Installation of the **53 gates of the ZTL AF1 - VAM** missing for vehicle control. Next development of an innovative technological and management model towards "Pollution Charge" and shared mobility.

Policies for on-street parking

Adjustment and strengthening of the hourly rates, with reduction of free permits for categories.

Upgrading P&R

Extension of the P&R system with 7 new controlled parking areas and extensions of existing ones.



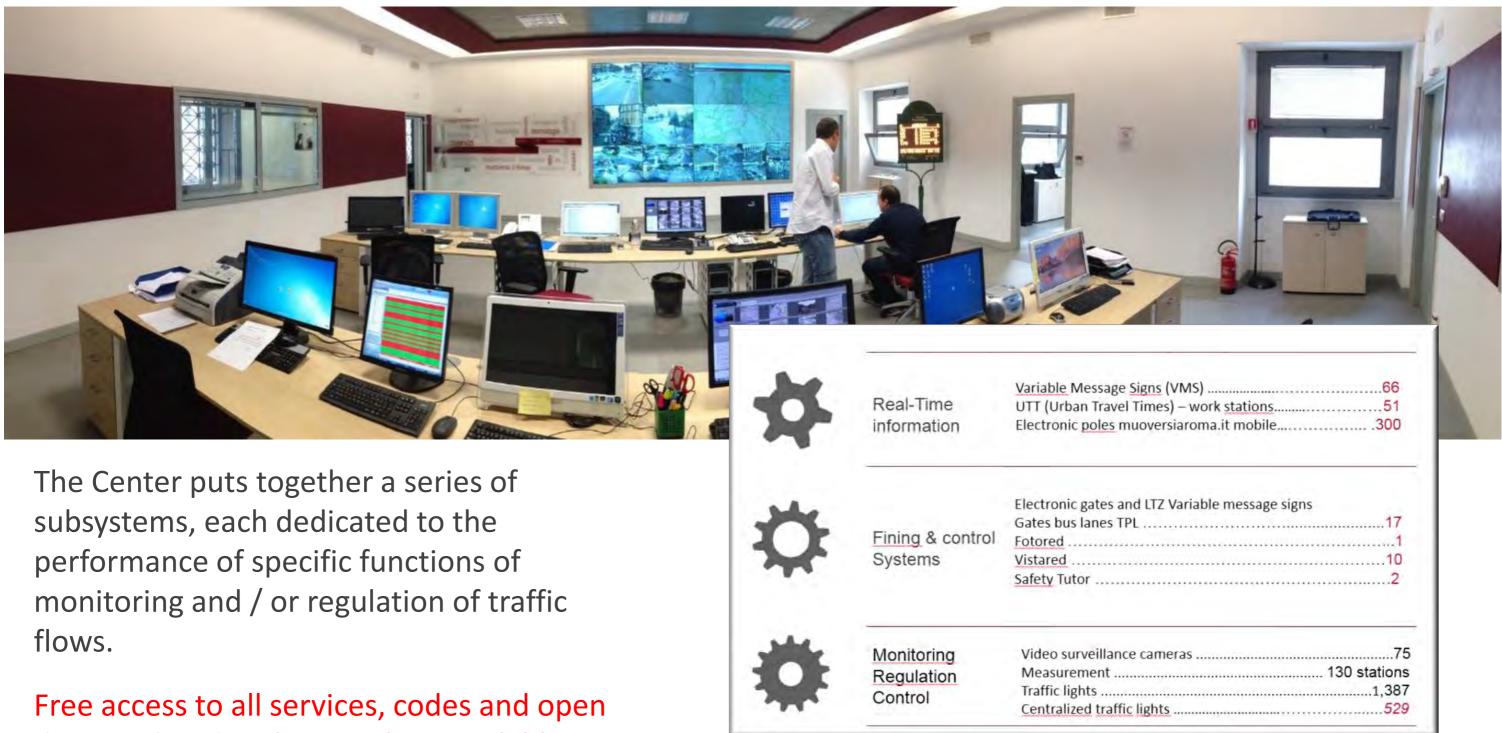






ITS choice - The Mobility Centre

P.Le Degli Archivi, Roma



data, updated real-time when available

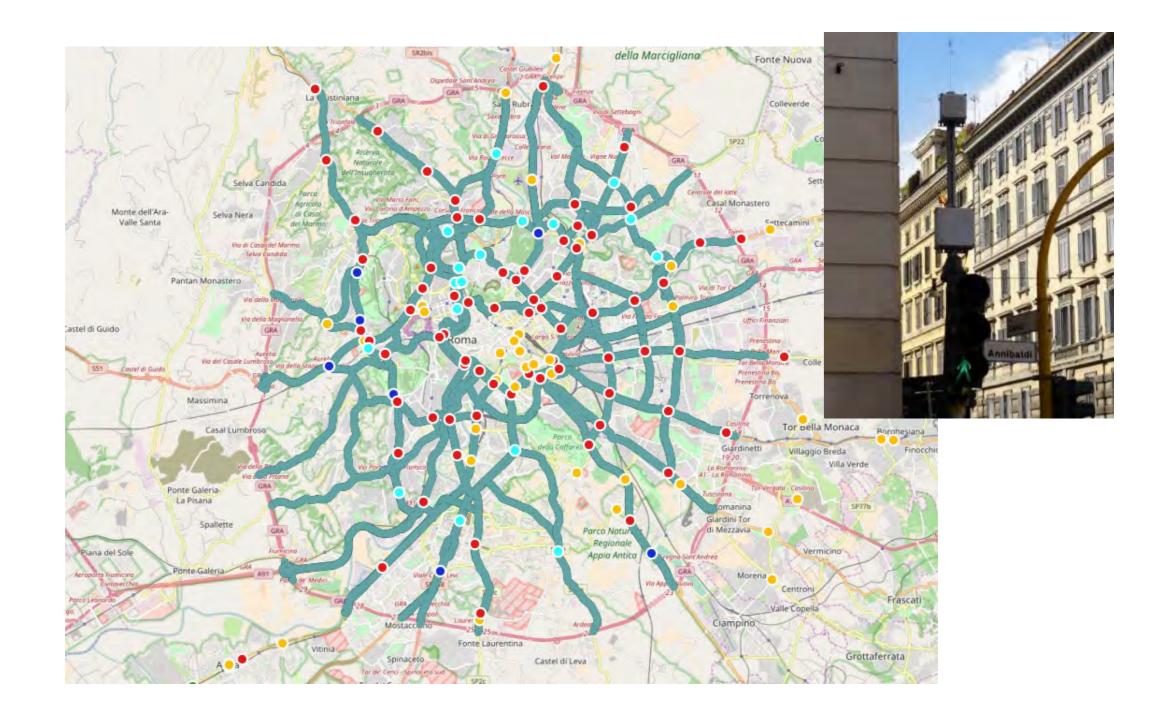






New UTT system – monitoring main routes

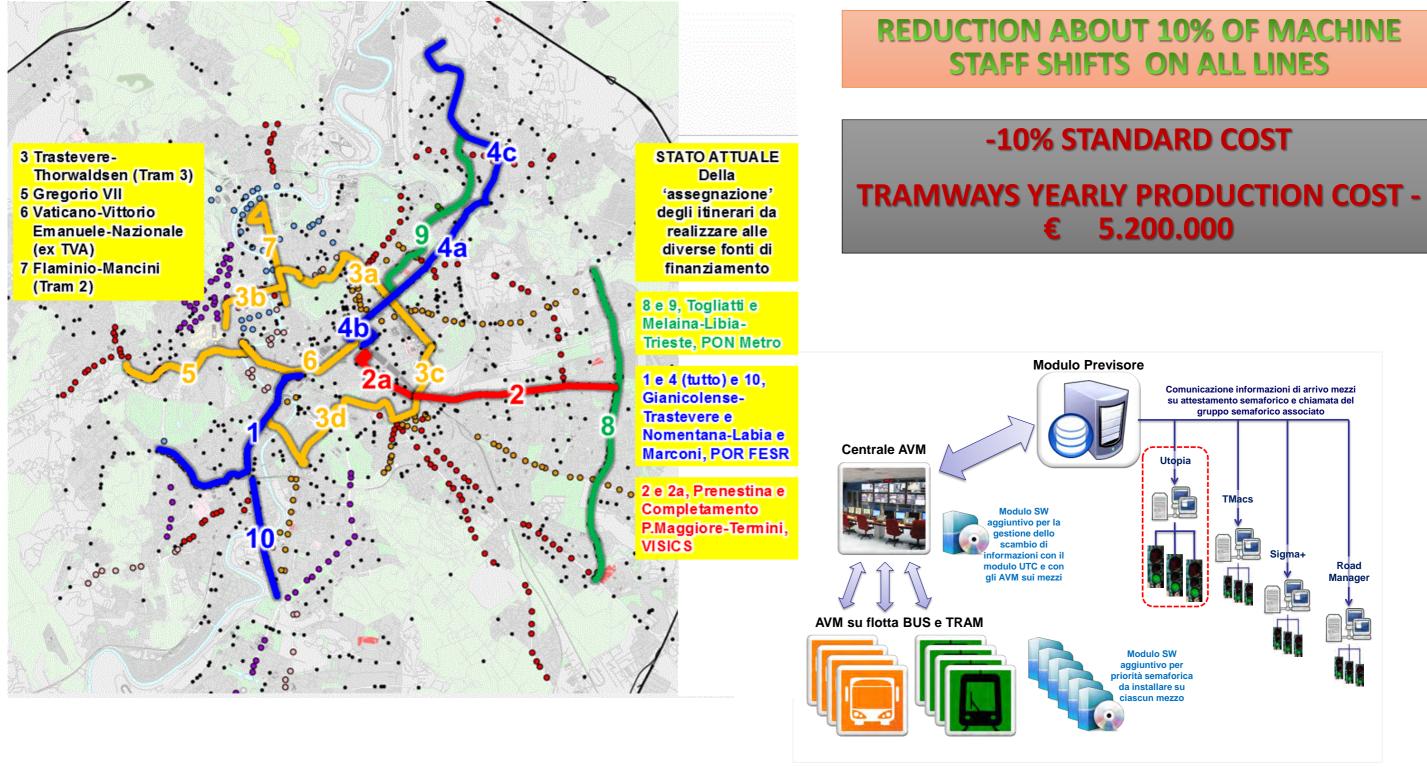
- Bluetooth[®]/Wi-Fi[®] sensors on road: realtime information on travel times and O/D dynamic matrix
- 30 main routes, each one constitued by 3-4 bidiretional paths.
- O/D Matrix: 90
 Origin/Destination relations.







PT & Tramway network: new priority systems on traffic lights





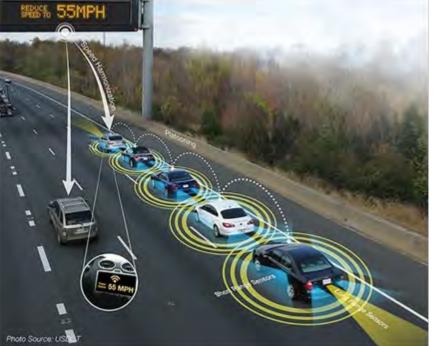
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The Mobility Centre – Future Development

Elementi innovativi per il trasporto e la mobilità Nuove prospettive di integrazione tra sistemi, infrastrutture, veicoli e persone



Sistemi di guida cooperativa



Sistemi ADAS







CONNETTIVITA' veicolo-veicolo veicolo-infrastruttura

DEVELOPMENT OF CYCLING MOBILITY

SUMP Scenario: 91 km of new cycling routes

SUMP Scenario: 304 km of new cycling routes

DEVELOPMENT OF PEDESTRIAN AND ENVIRONMENTAL AREAS

SUMP Scenario

80 new complex pedestrian and semi-pedestrian areas:

- 3 work in progress
- 8 already designed
- 16 call by City Districts,
- 11 in the Historical Centre
- Furher interventions also in peripheral areas proposed directly by the citizens and civil society

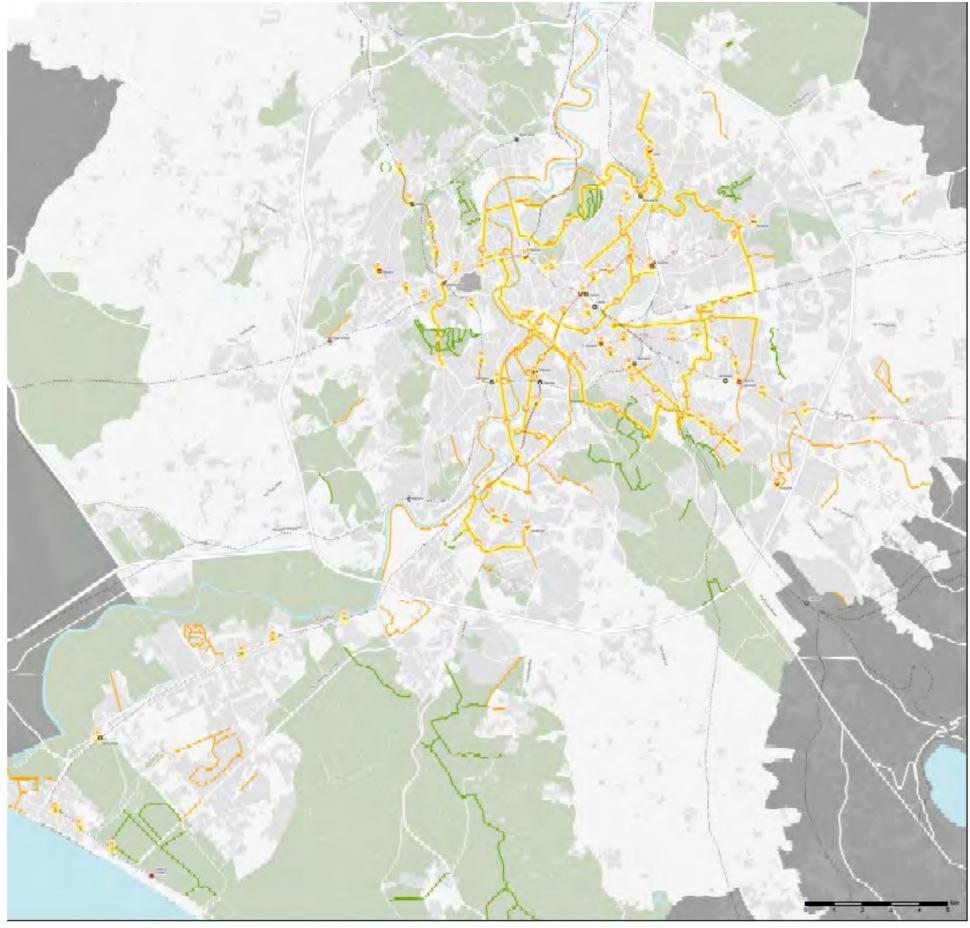






DEVELOPMENT OF CYCLING MOBILITY

REFERENCE **S**CENARIO

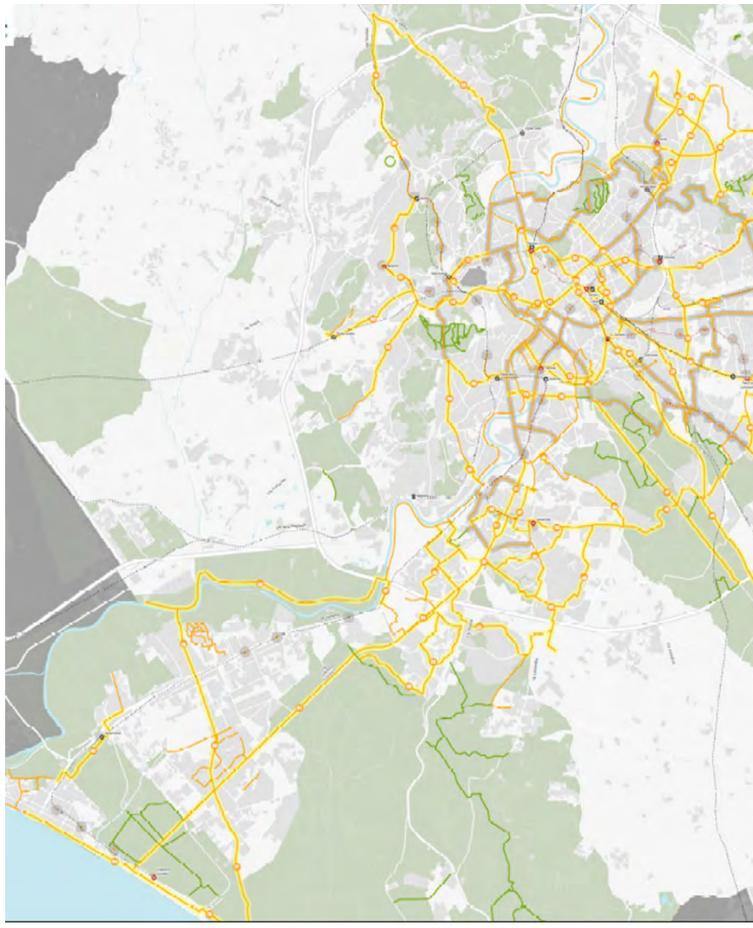






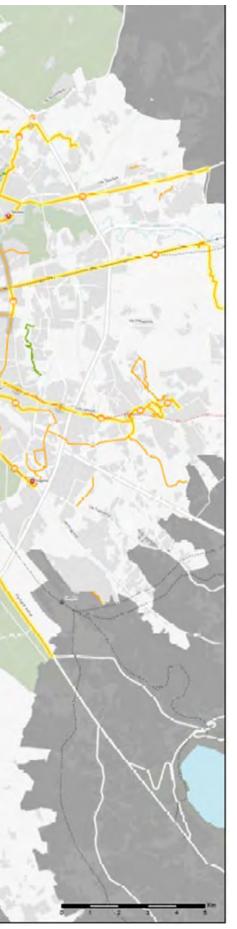
DEVELOPMENT OF CYCLING MOBILITY

SUMP SCENARIO









Extending active mobility across the city: zooming on new Tridente LTZ

Tridente zone is controlled from June 2019 by a dedicated e-gates system.

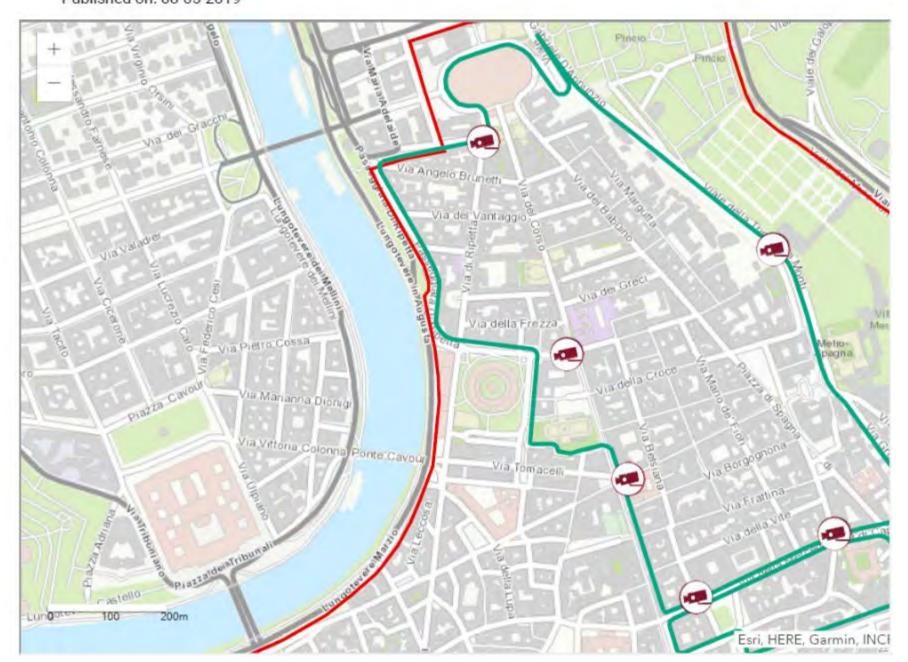
Only residents and craft enterprises located in Tridente can still access the Tridente and must park in designated areas during 6.30-19.30 weekdays and 10-17.00 on Saturdays.

First LTZ where PTW are controlled and not exempted.

Electric vehicles are exempt as well as special category vehicles (emergency services, municipal vehicles, transport of medicine, etc).

ZTL Tridente (A1)

Ztl Tridente, from May 13 to the pre-exercise of electronic gates (/it/ztl-tridente-da-luned%C3%AC-al-pre-esercizio-deivarchi-elettronici-1) Published on: 08-05-2019









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SHARING MOBILITY

ROMA D





DEVELOPMENT OF SHARING MOBILITY: SUMP SCENARIO

- **Strategic action of the plan:** further impulse to car / bike / scooter sharing schemes, car-pooling and taxis towards low environmental impact solutions, with rewarding criteria for operators extending the service in the external areas of the city
- **Mobility Manager (MM) Corporate and Scholastic:** Common soft mobility projects for home-school connection and for Home Work Travel Plans with monetizable benefit.
- Prize-winning adoption of smart working in the various working realities in the territory of Roma Capitale.
 - Initial target (reference scenario): 10% threshold of employees over emergency smart working.
 - Estimated reduction of private vehicles: 4% private car use (home-school and home-work).





SHARING MOBII

Sharing mobility: fixed and free-flow schemes for any city user

Car sharing fixed scheme: managed by Mobility Agency. Annual fee, fixed places, return to same place to be extended as one-way service in 2018, low hourly costs.

Car sharing free-flow schemes: working in 35 sq km of the city, free entrance to city centre, catch & leave where you want, higher costs (per minute).

Managed by Private Operators: Car2go (with Smart), Enjoy (with FCA 500), Sharengo (with ecars, Feb 2016), eCooltra (with e-scooters, Feb 2017), ...

+ 2.000 shared vehicles > 200.000 users











SHARING MOBILITY

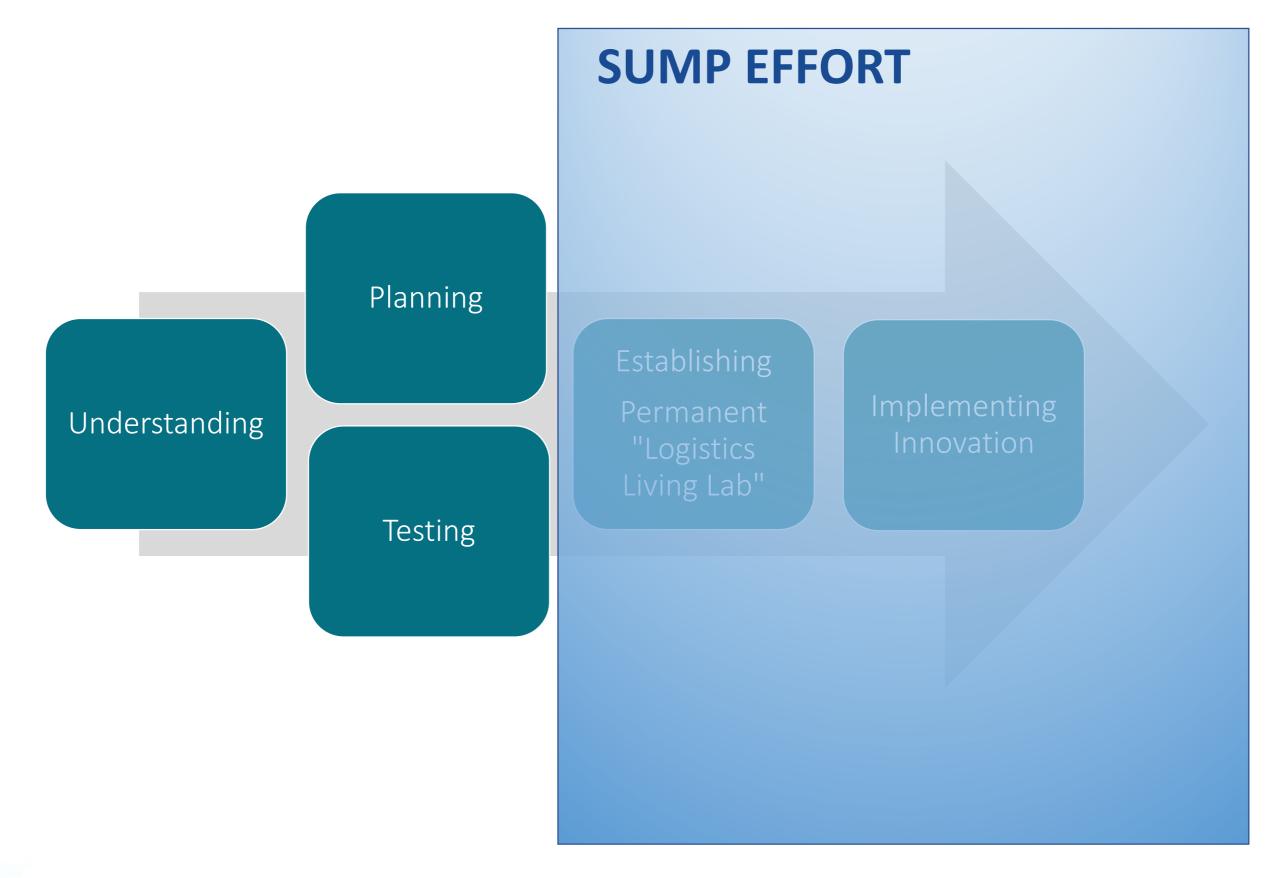


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CITY LOGISTIC



CITY LOGISTIC PATH







CITY LOGISTIC

SUMP LOGISTIC PLAN

SHORT TERM (<3 years)	MEDIUM TERM (3-7 years)	LON
 Incentives for the purchase of low environmental impact vehicles Work tables with "logistic living lab" approach Increased offer of freight stalls Extension of the "Freight LTZ" to "Rail Ring VAM LTZ" 	 Activation of vehicle accreditation systems Creation of mini-platforms (mini-hubs) Creating parcel lockers Implementation of technological systems for the management and control of freight stalls Introduction of electric charging points Crowdshipping promotion 	 Creat freightermini Reven Promonion van-s
	 Promotion of delivery systems with cargo bikes Out of hours delivery systems 	
	 Out-of-hours delivery systems 	





NG TERM (7-10 years)

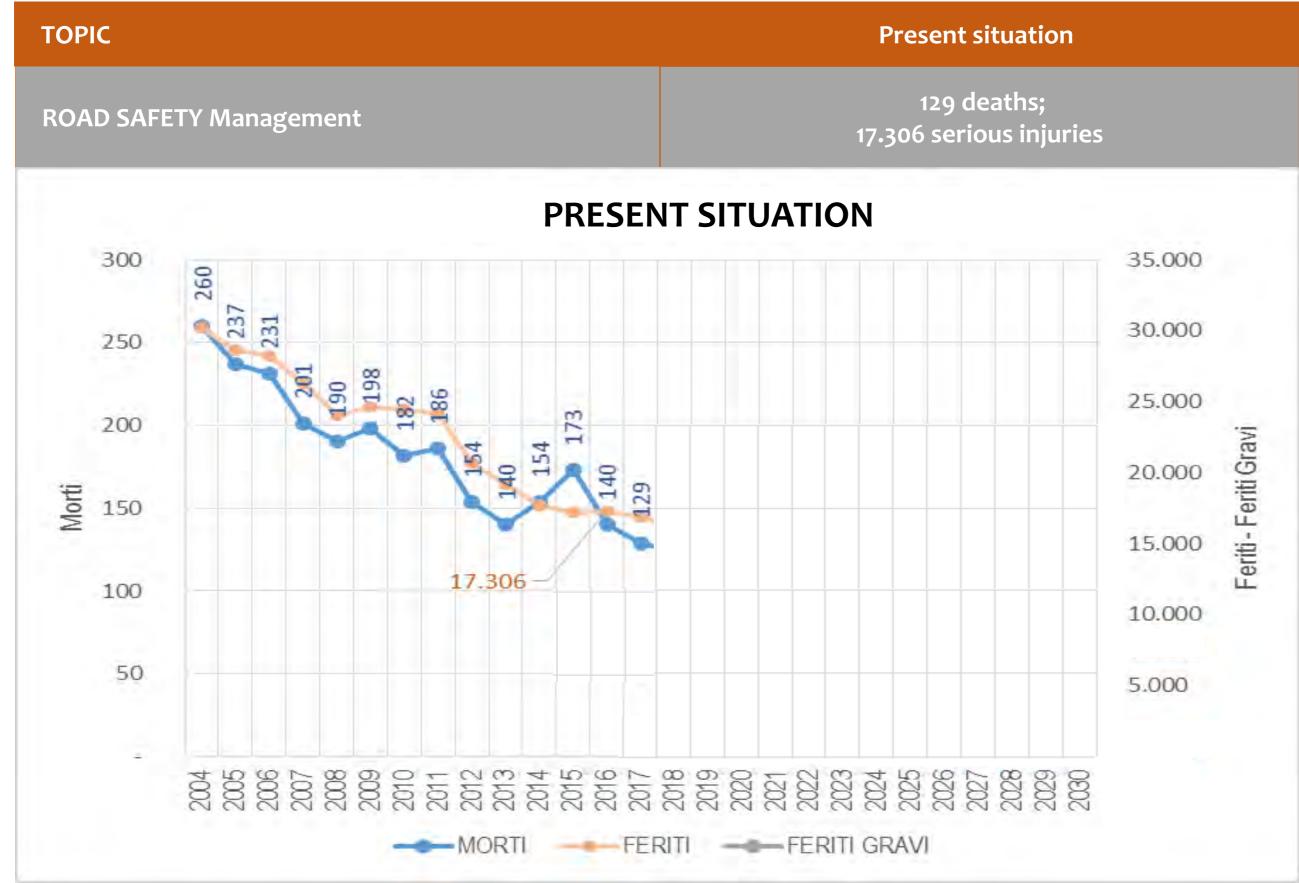
- ation of urban ght distribution ninals (UFT) erse logistics motion of electric
- sharing







ROAD SAFETY: The present unacceptable situation







ROAD SAFETY

Rome, Road Safety Centre

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

According to safety priorities and critical situations, interventions are planned in the SUMP with increasing investment each year.







ROAD SAFETY

EXPECTED RESULTS





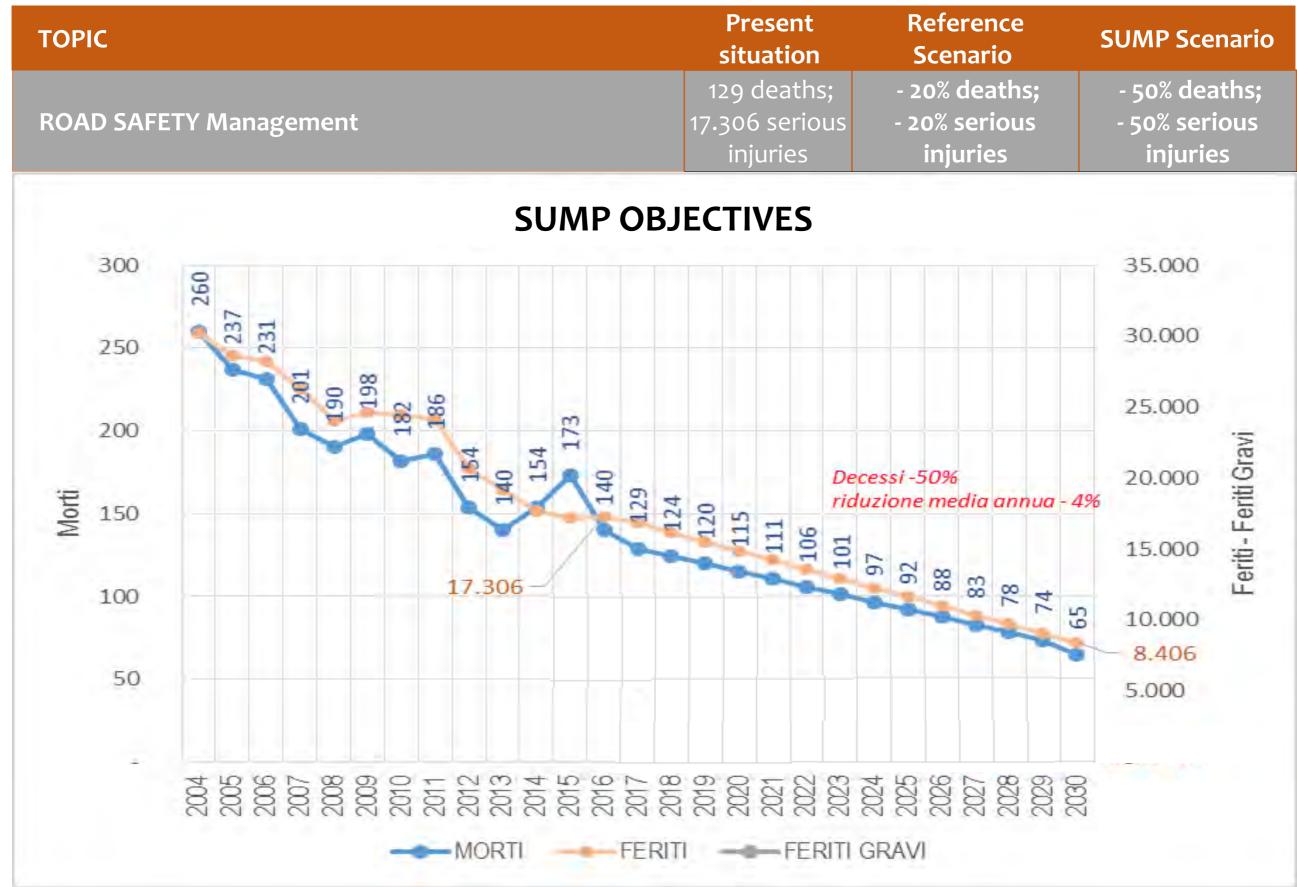








ROAD SAFETY: SUMP OBJECTIVES







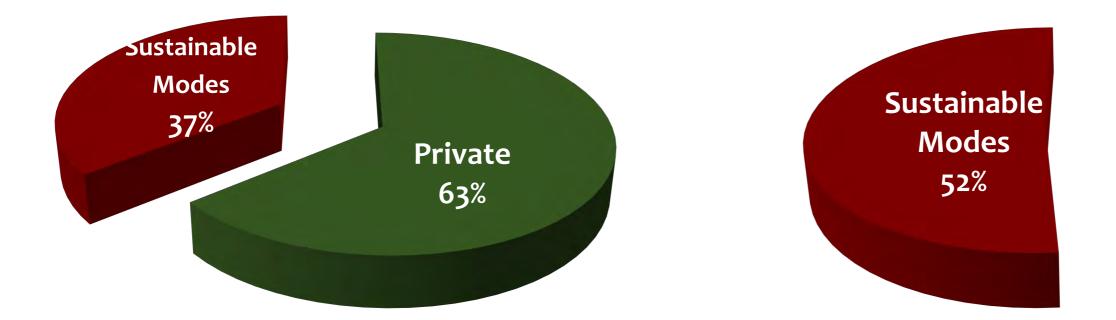
RESULTS



MODAL CHANGE

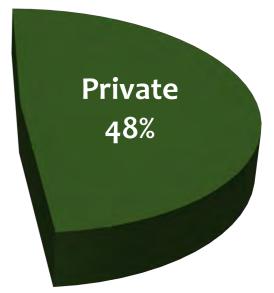
Reference Scenario (SR)

SUMP Scenario (SP)











EXPECTED RESULTS

Modal Change – Peak hour movements

Mode	Reference Scenario (SR)	SUMP Scenario (SP)	
Public Transport	168.165	231.161	
Private vehicles + PTW	359.049	261.229	
Bike + Sharing + Ped	42.617	55.770	

Saved Emissions (tons/year)

conservative hip on private fleet renewal

Pollutant	Reference Scenario (SR)	SUMP Scenario (SP)
NOx	9.364	7.649
PM10	639	518
CO2	3.856.431	3.140.903









RESULTS



Thank you

for

your attention!



International Co-operation Mobility Agency of the City of Rome fabio.nussio@romamobilita.it













