

atac

ROMA



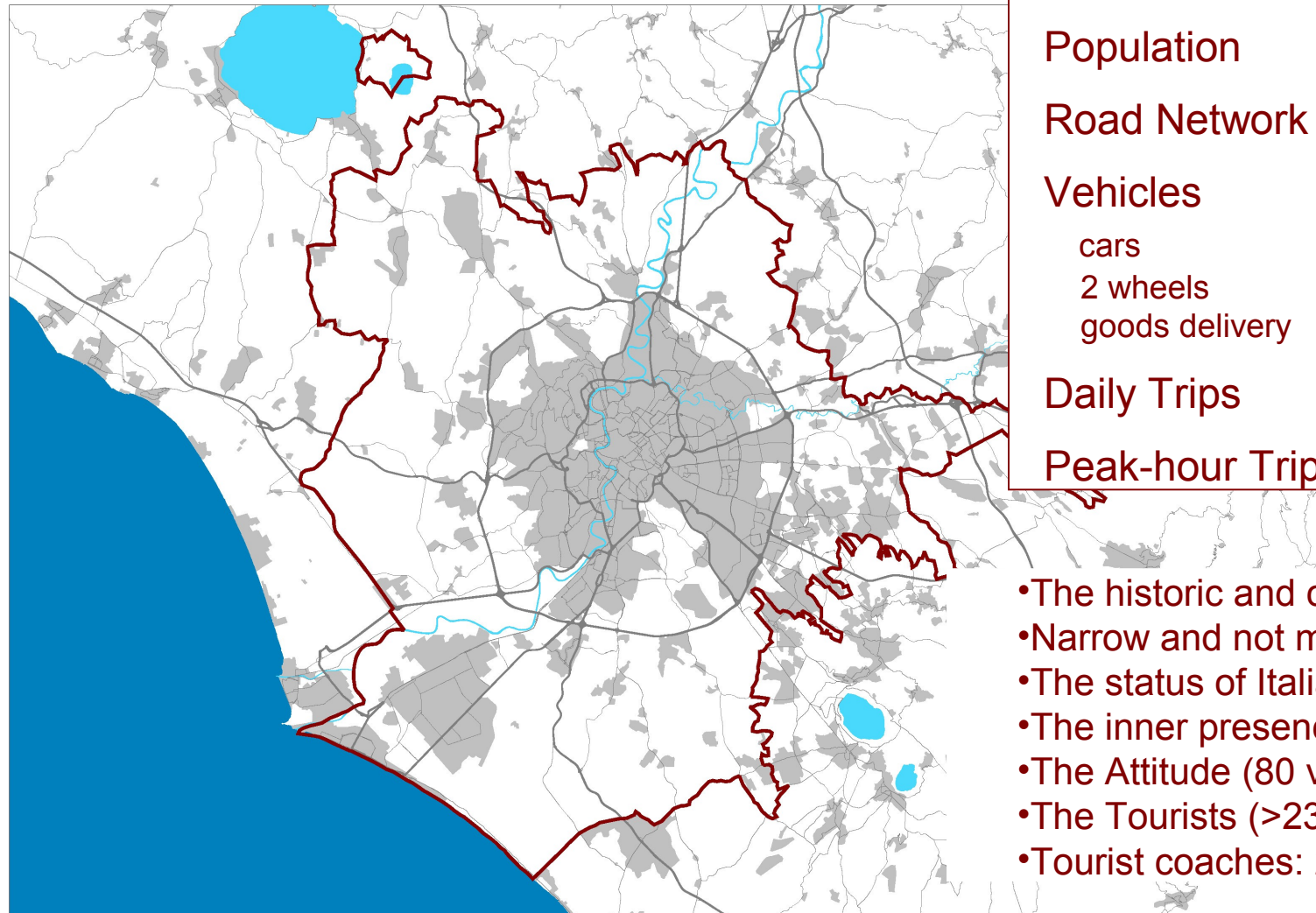
ATAC SpA, the Rome Mobility Agency: issues from city sprawling, mobility and environment



Europe 12th Annual Conference - New Mobility Requirements
within existing and Expanding Urban Fabric
7-9 May 2008, Sheraton Hotel, Zagreb, Croatia

Fabio Nussio, Head of International Activities ATAC SpA

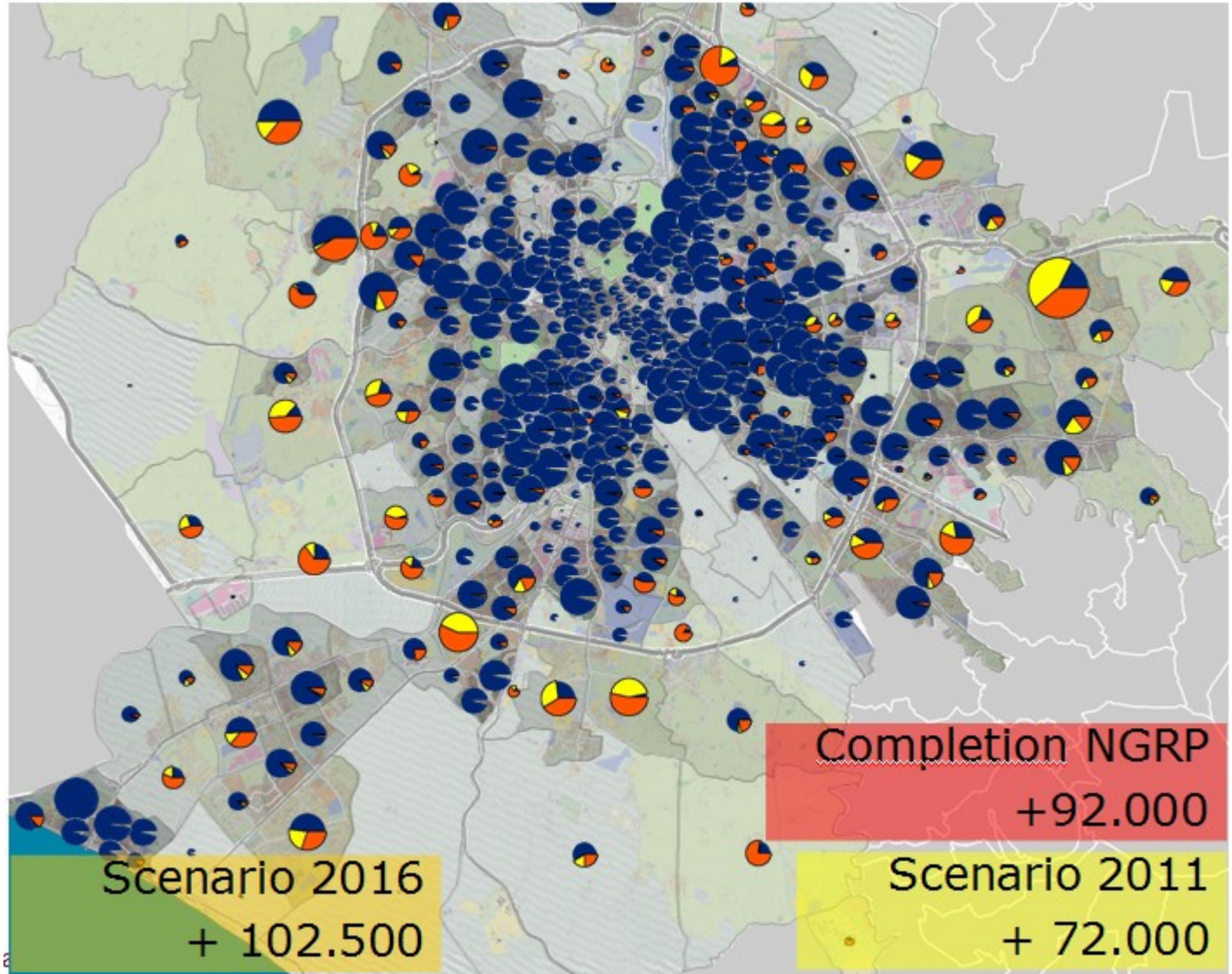
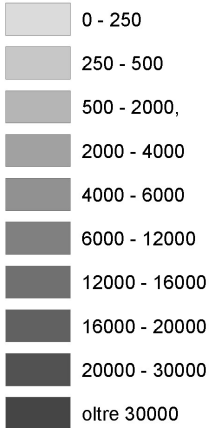
The context: Rome



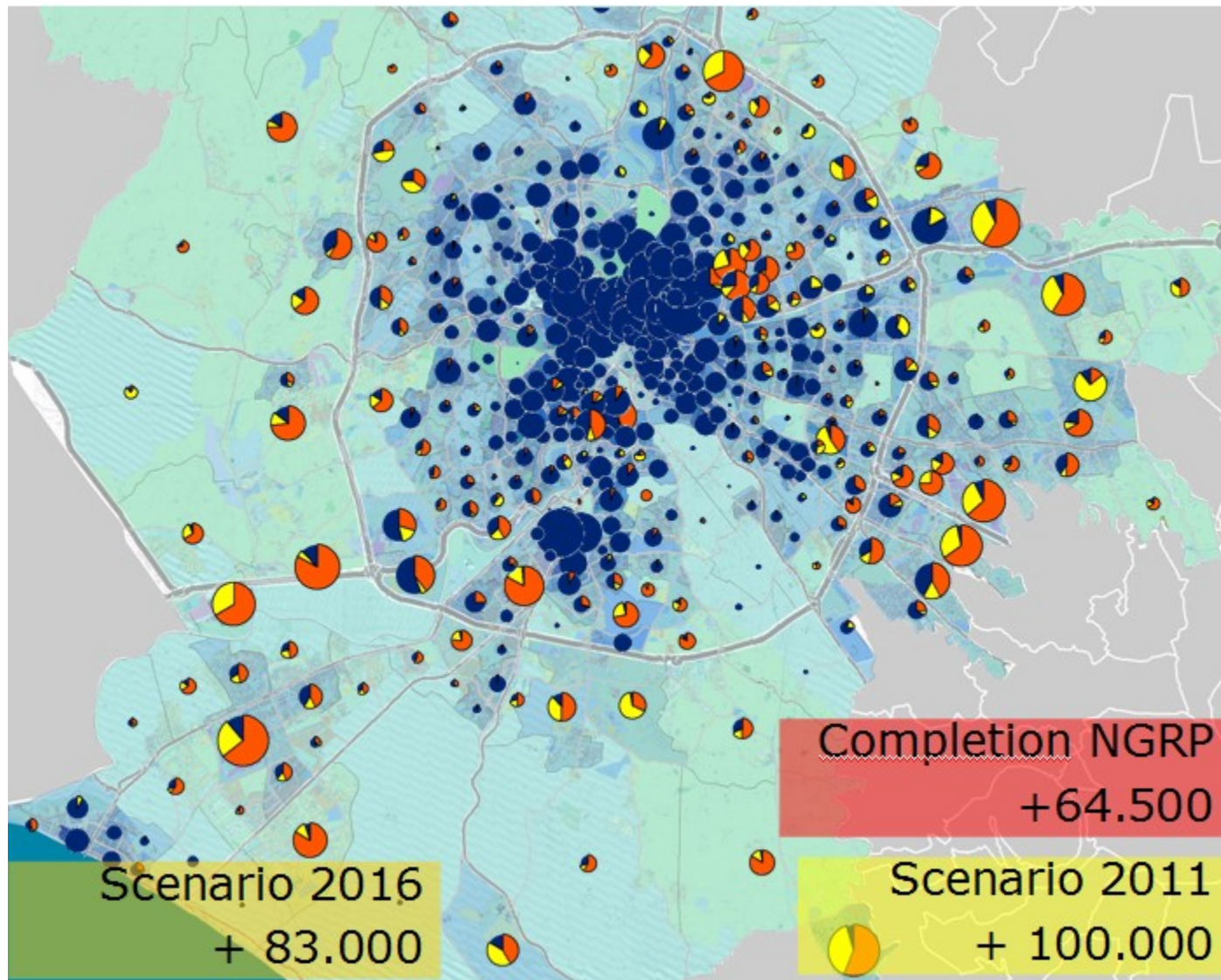
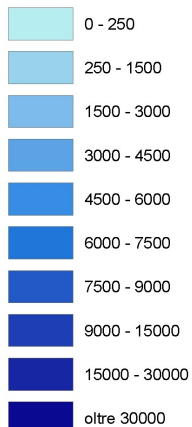
Municipal Area	1.285 skm
Population	2.800.000
Road Network	km 5.000
Vehicles	2.550.000
cars	1.950.000
2 wheels	450.000
goods delivery	150.000
Daily Trips	6.000.000
Peak-hour Trips	600.000

- The historic and cultural heritage
- Narrow and not modifiable roads
- The status of Italian Capital City
- The inner presence of the Vatican City
- The Attitude (80 vehicles/100 citizens)
- The Tourists (>23 millions per year)
- Tourist coaches: 200.000 per year

DENSITA' ABITATIVA
(Ab/Kmq)



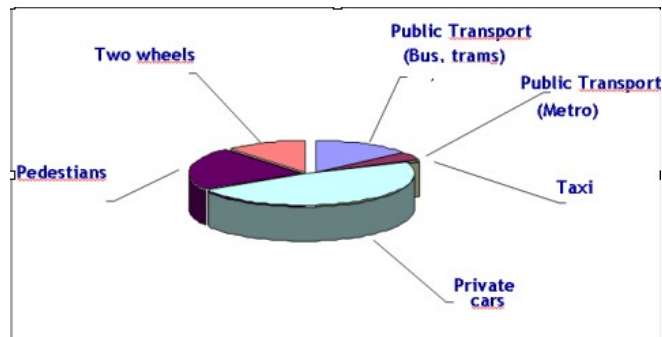
DENSITA' PRODUTTIVO
(Add./Kmq)

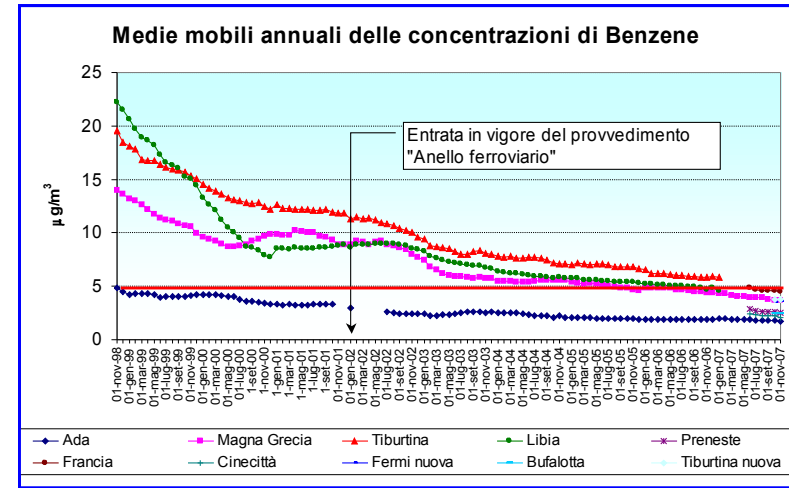
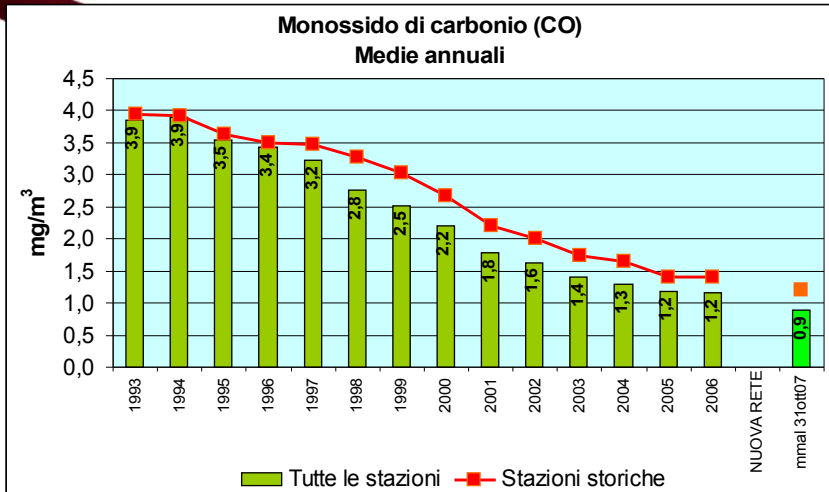


Rome: The impacts of mobility

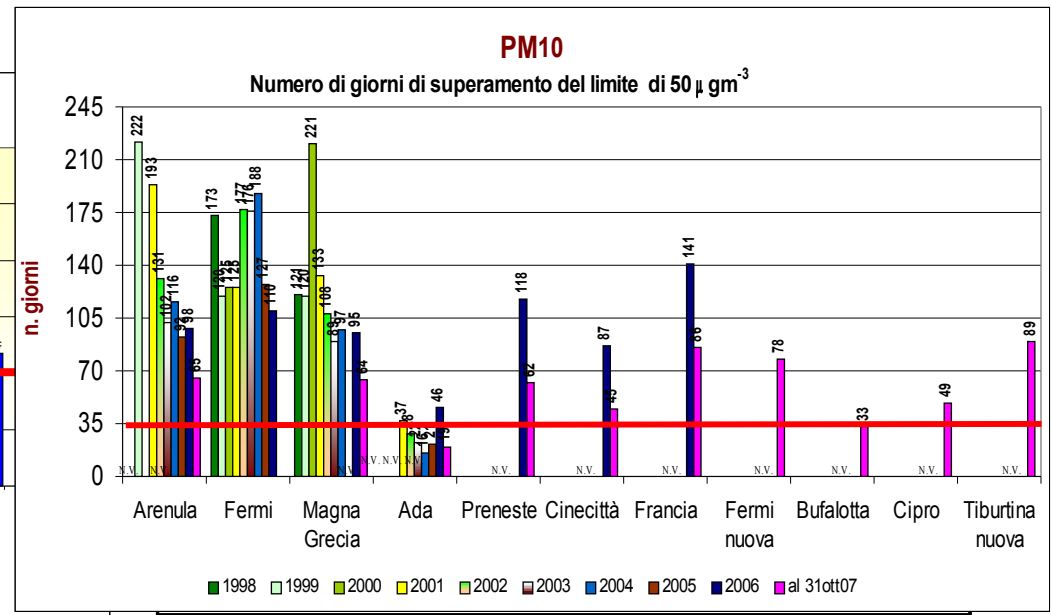
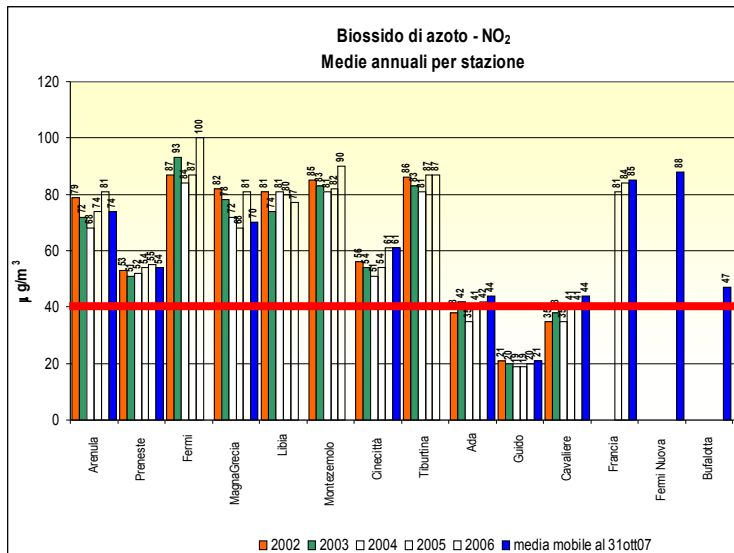
Modal Shift in Rome

Private vehicles	57%
Public Transport	21%
Pedestrians+bike	22%

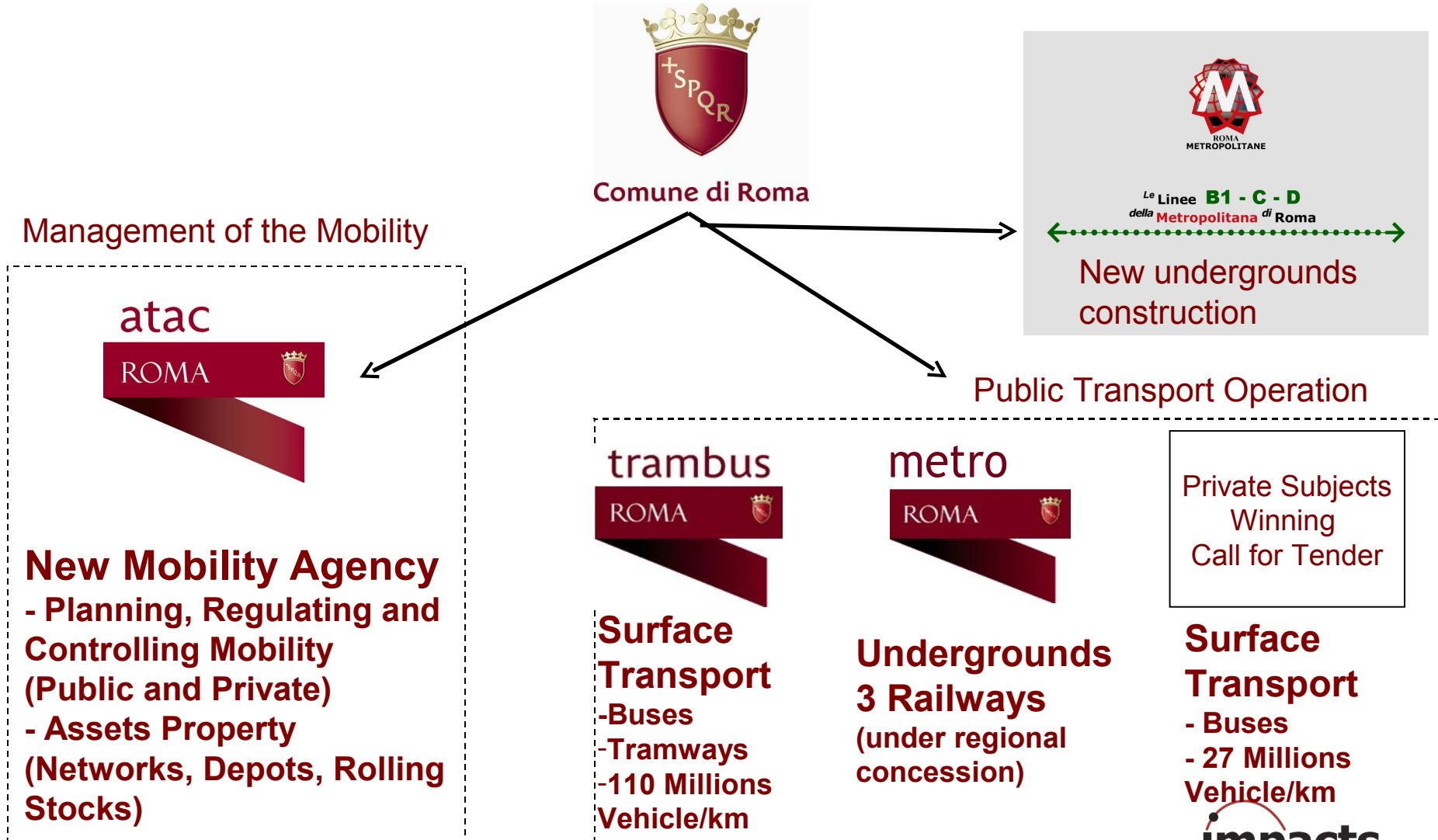




□ But NO2 and PM10



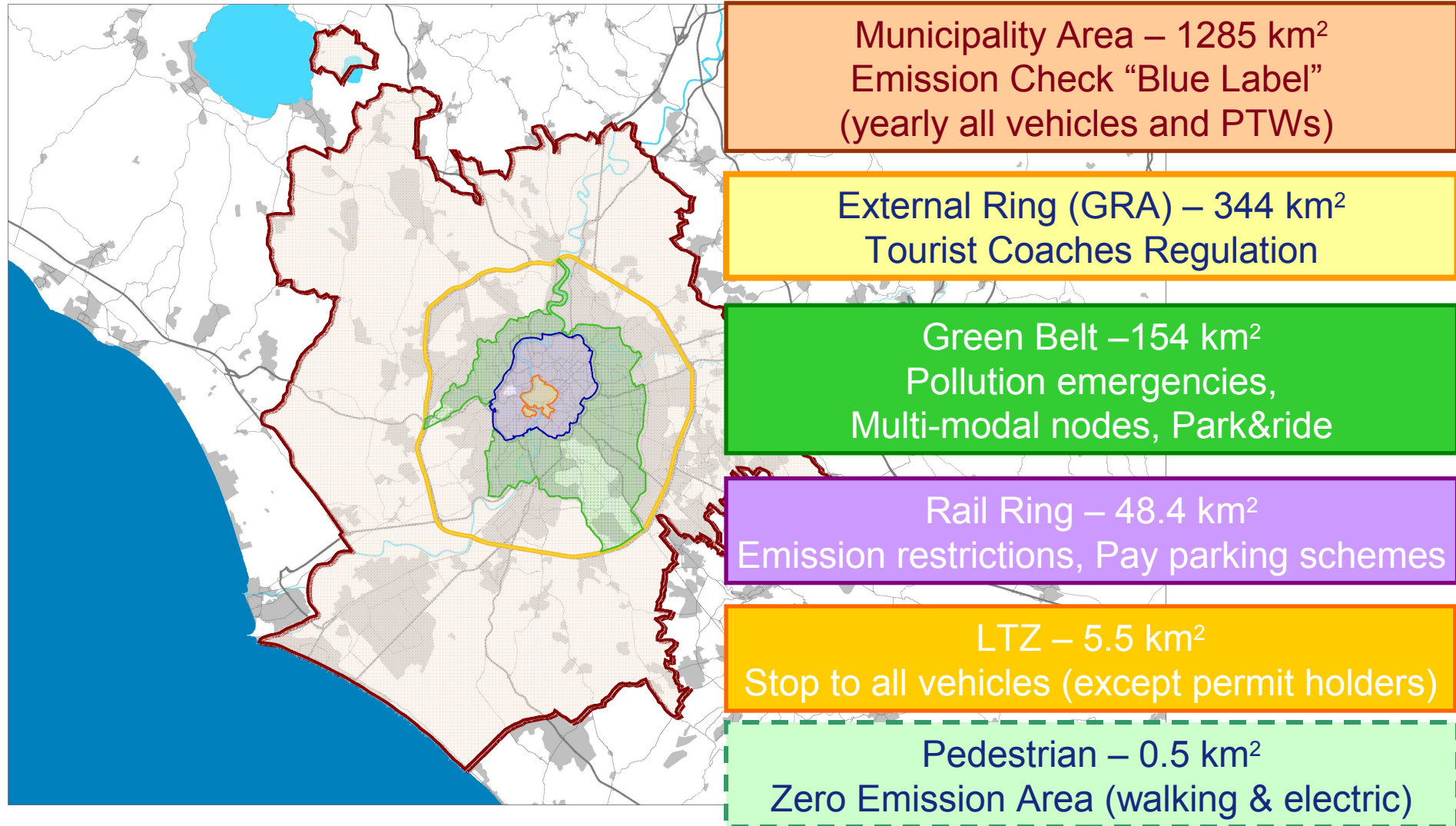
The Role of the Mobility Agency



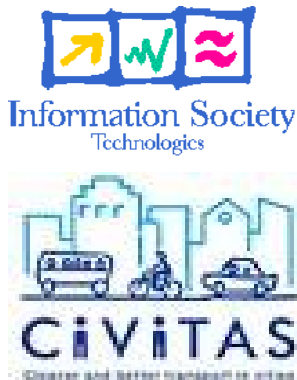
From the problem to the solution: the Management of Mobility issues

- Traffic Demand Management (Urban traffic Masterplan where PT priority, access limitations, area pricing are central issues);
- New “Hard” Mobility Infrastructures (Underground and Urban Rails)
- New “Mobility Corridors” and Reserved Lanes (Surface Transport)
- Fleet Renewal & Monitoring (bus and cars, towards lower emissions)
- Sustainable Mobility package (car sharing, mobility soft measures, awareness)
- Technologies and ITS for mgmt, monitoring & enforcement
- International Co-operation fundamental for Best Practices, info exchange

Managing Mobility – Restriction Zones



EU R&D Framework
Programmes:
More than 40 projects
(1998-2007)



Cooperation Rome-Beijing
(ITS-TAP & IBOCS project)
Cooperation Rome-Tongji



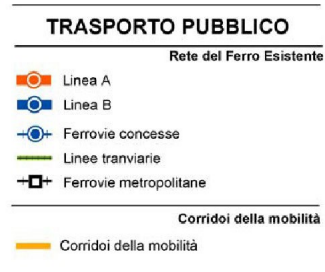
Cooperation with
Indian MUD



Cooperation with International
Associations like POLIS, UITP,
MMG, ECMT, IMPACTS, C40



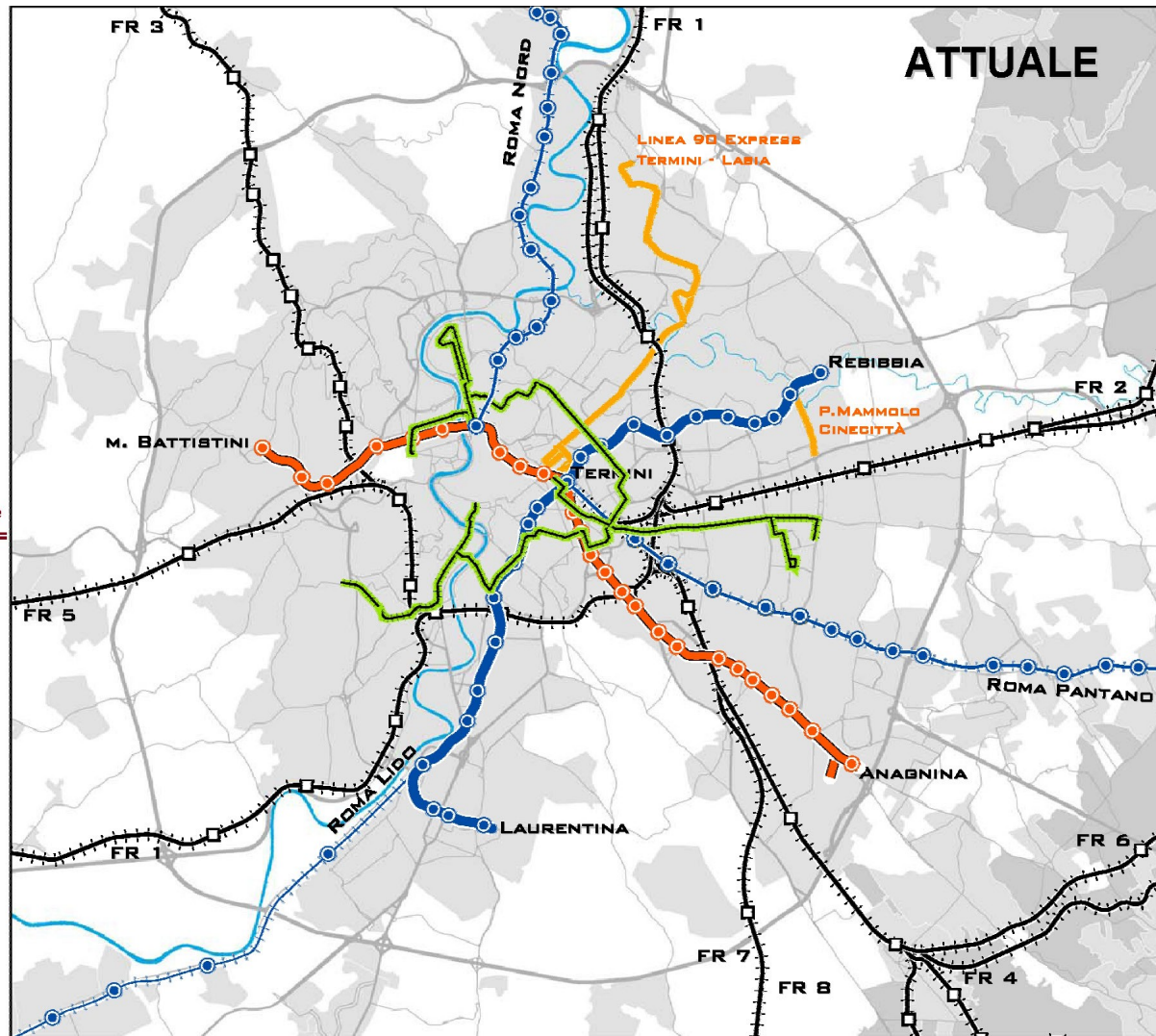
2006 – Actual network



Servizio	Estesa Km	n° fermate
Linea A	18,4	27
Linea B	18,2	22
Tram	38,0	188
Roma Lido	28,8	13
Roma Nord ⁽¹⁾	13,3	16
Roma Pantano	17,8	30
FR ⁽²⁾	112,7	53
Corridoi	12,8	16
TOTALE	260.0	365

(1) tratta urbana Montebello-Flaminio

(2) Tratte urbane

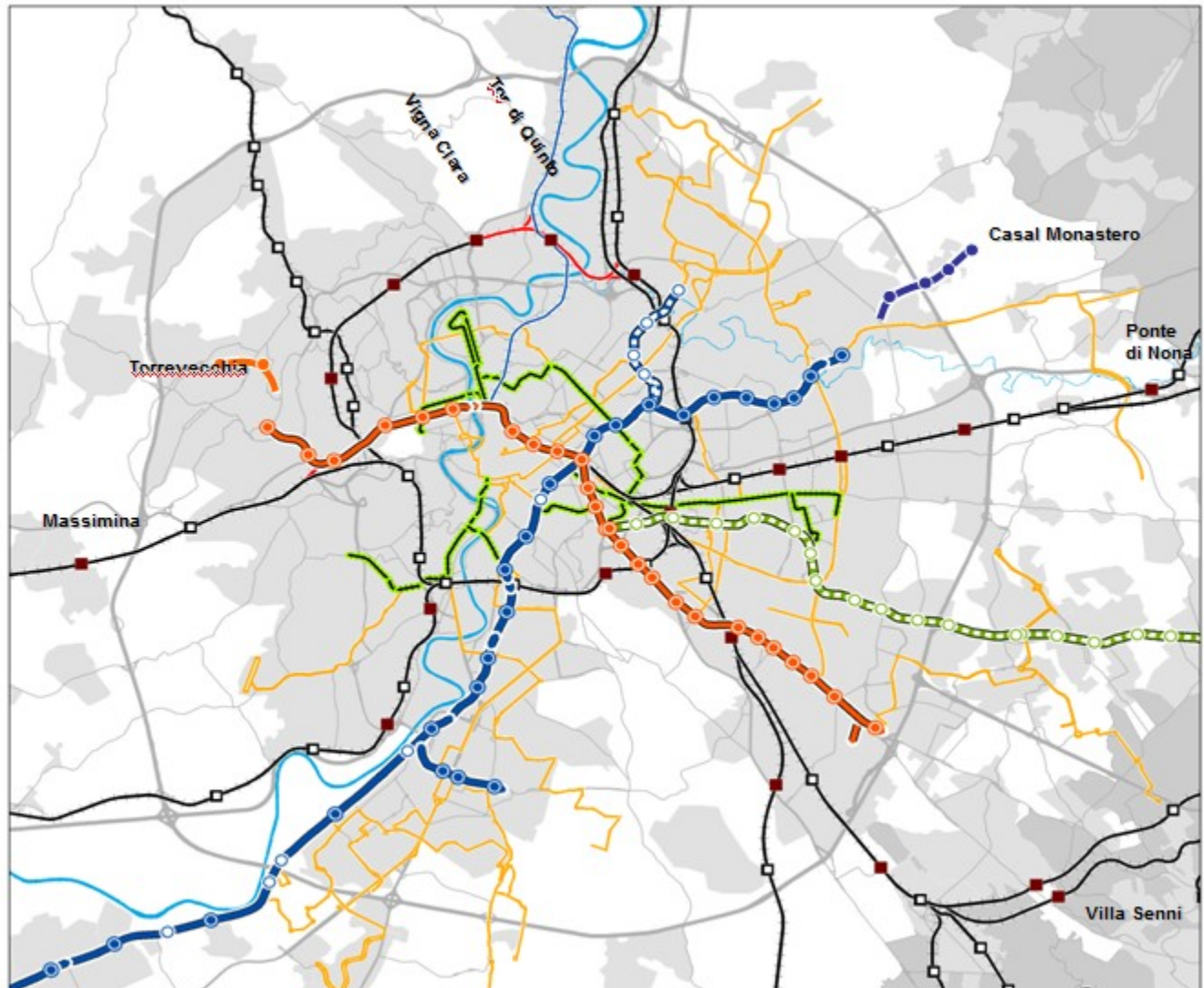


2012 Scenario: the evolution of the PT network



Servizio	Estesa Km	n° fermate
Linea A	18,4	27
Linea B	18,2	22
Tram	38,0	188
Roma Nord ⁽¹⁾	13,3	16
Roma Pantano	10,8	22
Linea C	18,4	21
Linea B1	3,9	5
Roma Lido⁽²⁾	28,8	16
FR⁽³⁾	123,5	74 + 11⁽⁴⁾
Corridoi	133,4	207
TOTALE	395,3	586

- (1) tratta urbana Montebello-Elencio
- (2) trasformata in metropolitana
- (3) tratte urbane
- (4) Studi di fattibilità





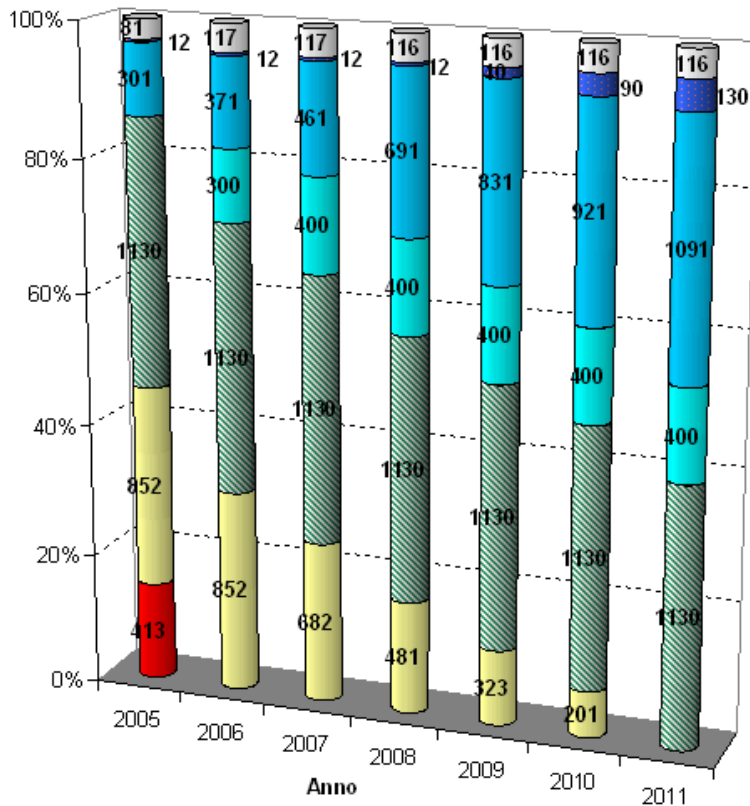
Evolution of PT infrastructure offer

Investment Plan of 3.000 MEuro until 2012, 9.200 until 2020

	2006	2012	
■ Urban railways (km)	112	123	(+10%)
■ Underground (km)	36	47	(+30%)
■ Bus Corridors (km)	13	130	(+900%)
■ Rail Network (km)	206	395	(+190%)
■ Stops (n.)	365	586	(+160%)
■ Seats/km (ml)	5,8	8,2	(+140%)

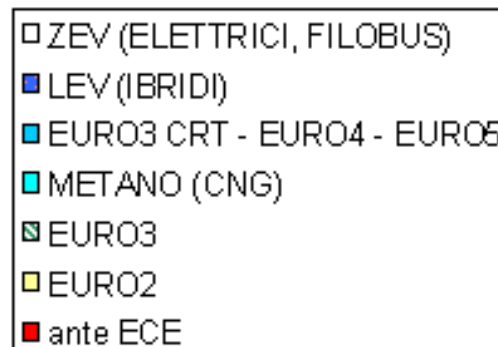
Bus Fleet Management & Renewal Plan

Vehicle Distribution according to emission class

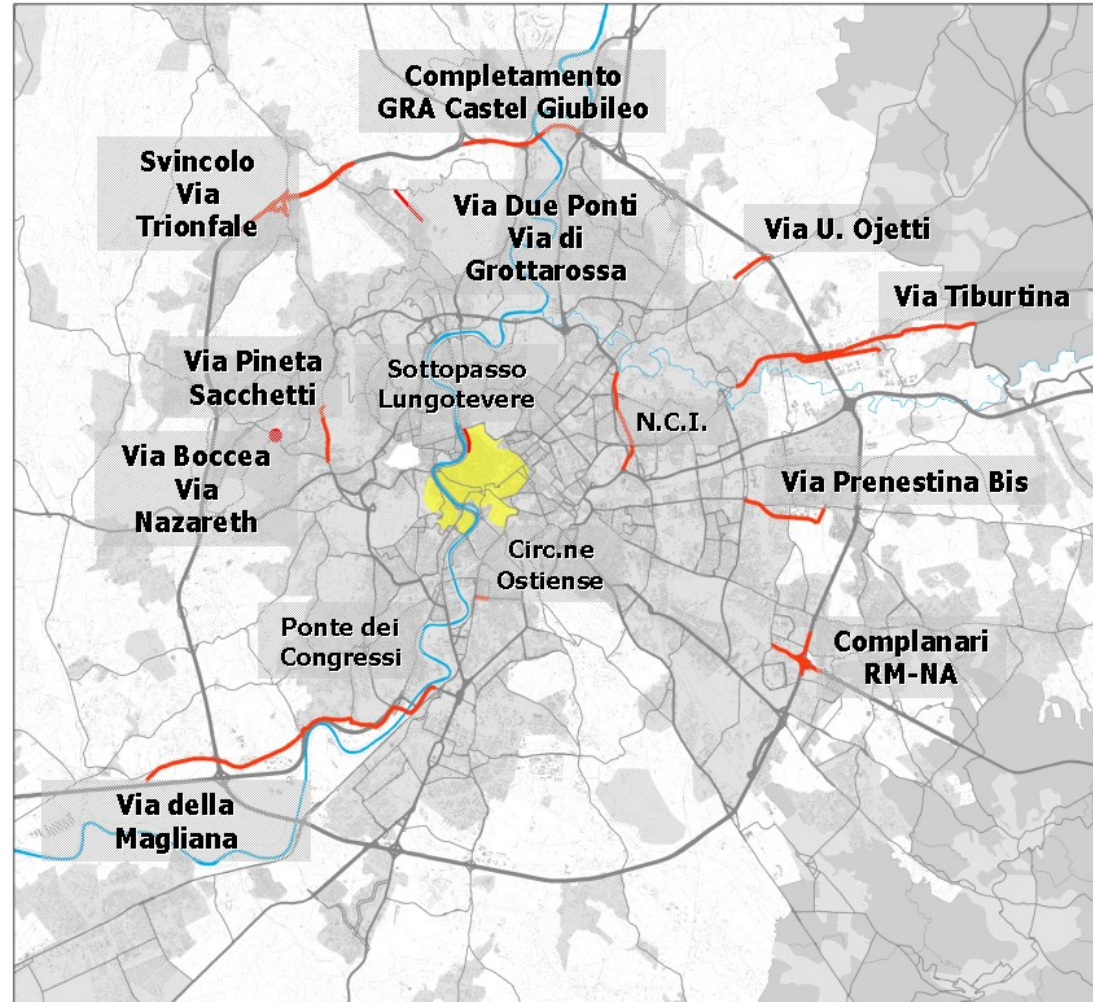


- 12 Hybrids Bus
- The Largest Electric Fleet in Europe:
 - 52 minibus
 - 1.500 000 km/year
 - 3 mln passengers/year
 - 5 lines
- 7 bus powered with biogas
- 371 bus EURO III CRT (= EURO IV)
- 30 New Bi-modal Trolley Bus
 - 1 new Trolley Bus line
- 200 (+200) CNG bus

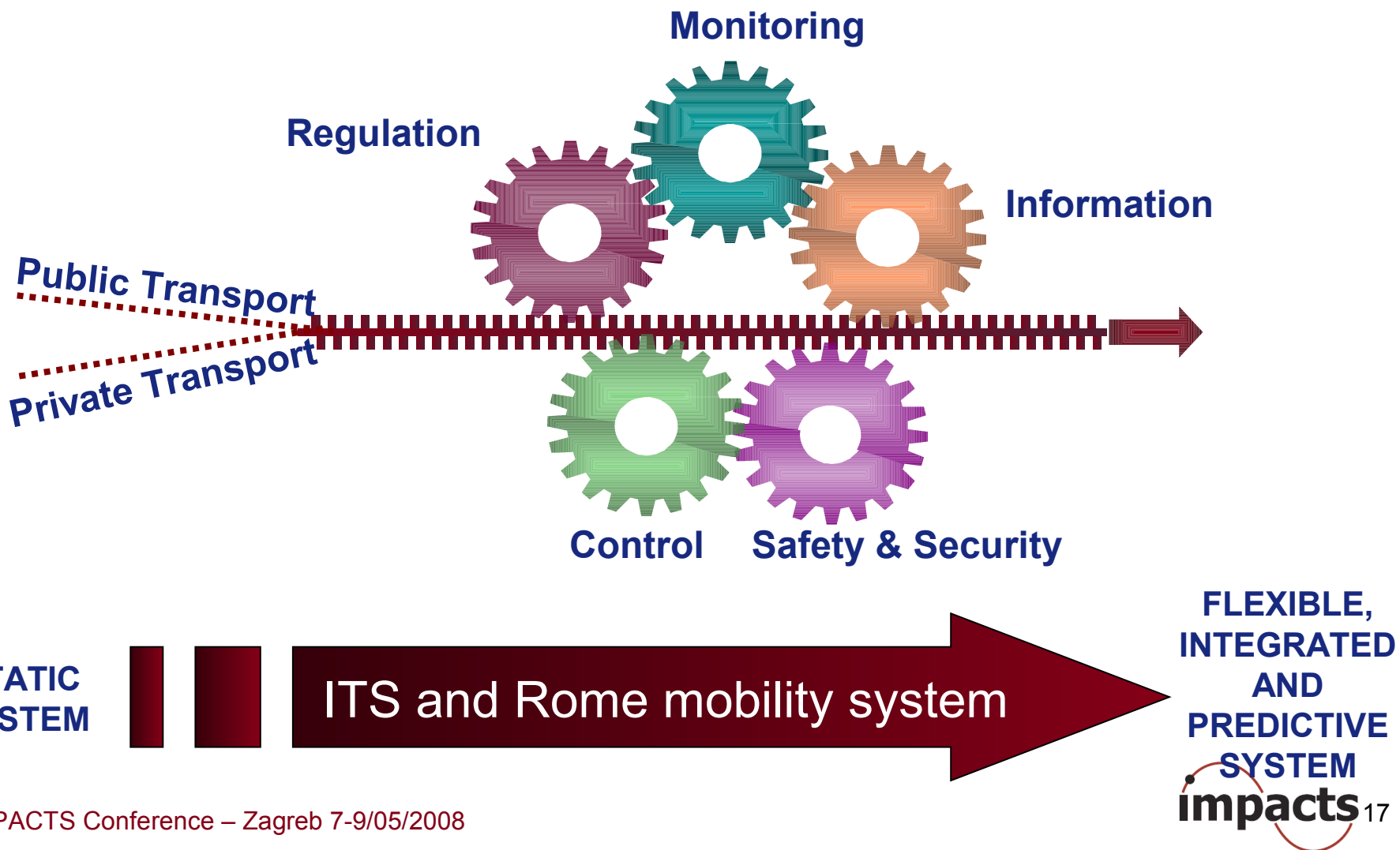
Fleet Average Age: 6 years (12y in 1998)



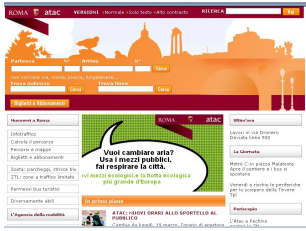
Interventions on road network



ITS technologies: Rome Mobility Centre



Information & Services: Atac Mobile



WEB



SMS/WAP



Roma Radio



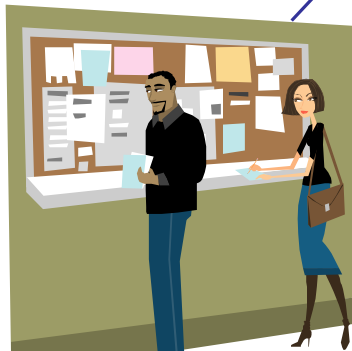
Contact Center



Chioschi Informativi



Depliant



Moby



Paline



PMV

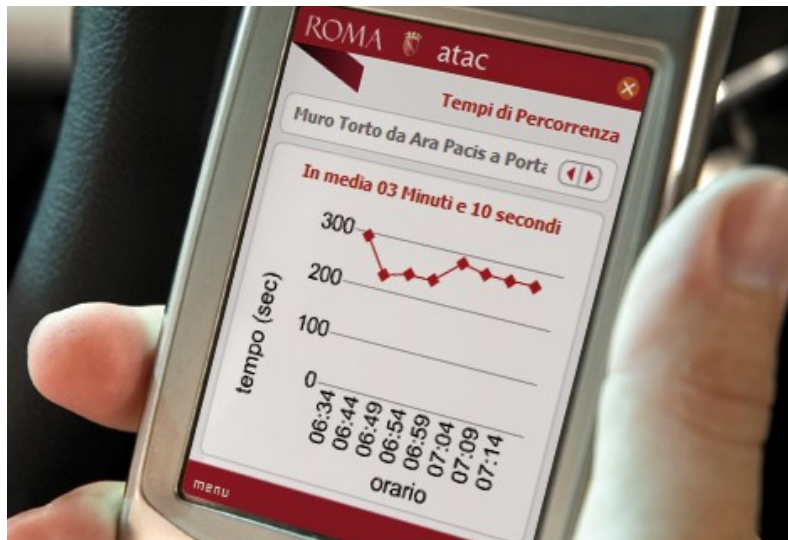
Infomobility – ATAC Mobile

ATAC Mobile project: infomobility prototypal application on mobile devices (palmtop and smart phone)

AIM → Produce a **new interaction mode with the citizen** in which the **mobile devices** is a direct communication channel between ATAC and Rome citizens: ***A city on the move!***

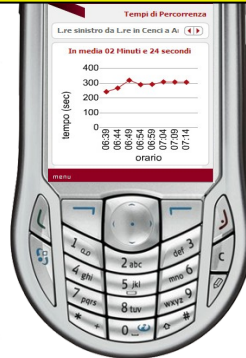
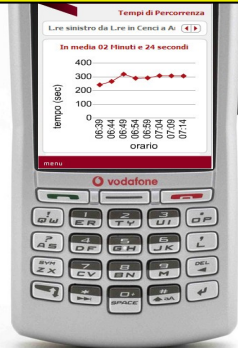


- Traffic bulletin
- Travel times
- Video surveillance cameras images
- Events (works, closures, demonstrations...)
- Forecasts on arrival times of public transport to each stop

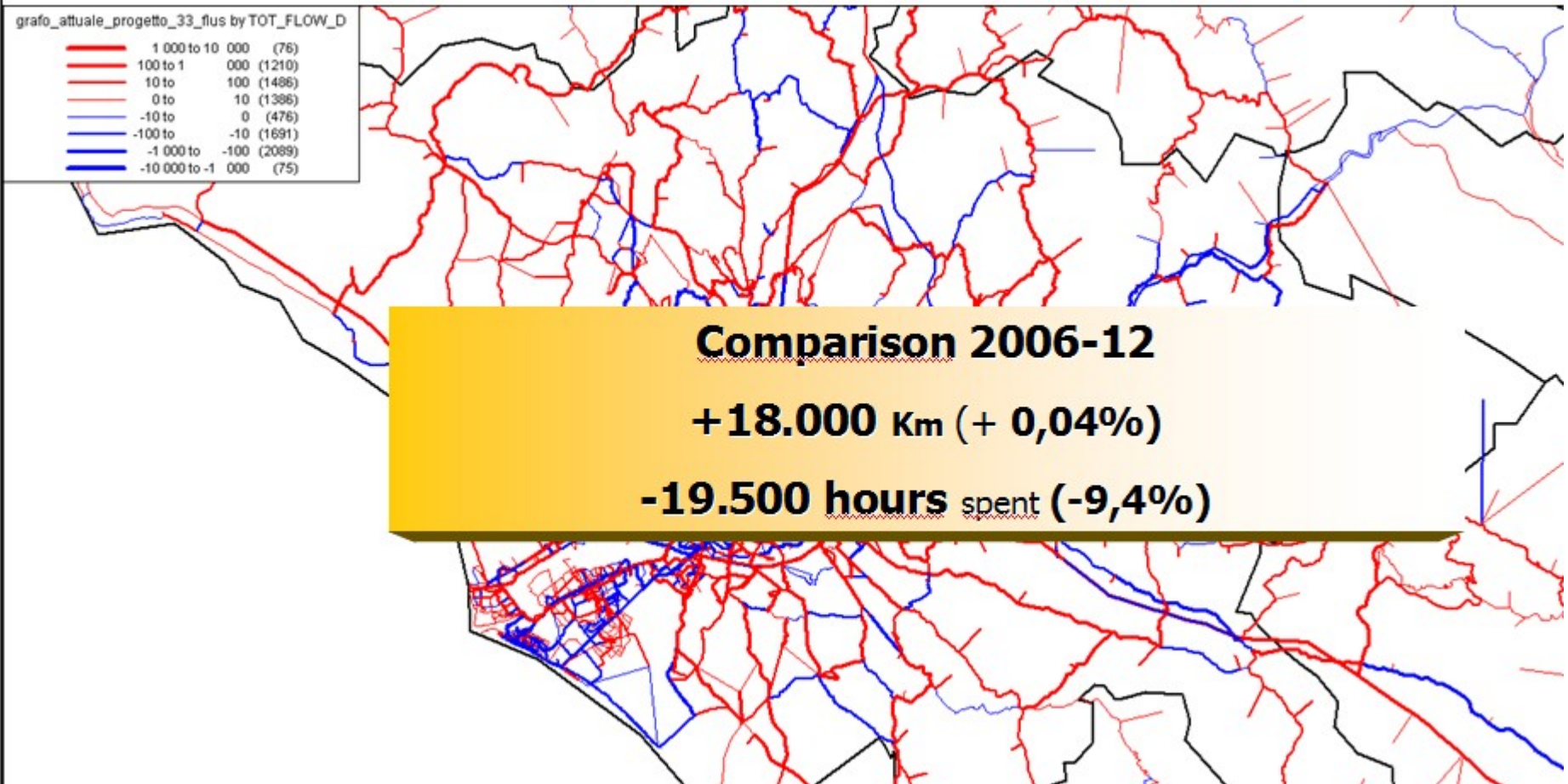


ATAC Mobile: UTT, PT information

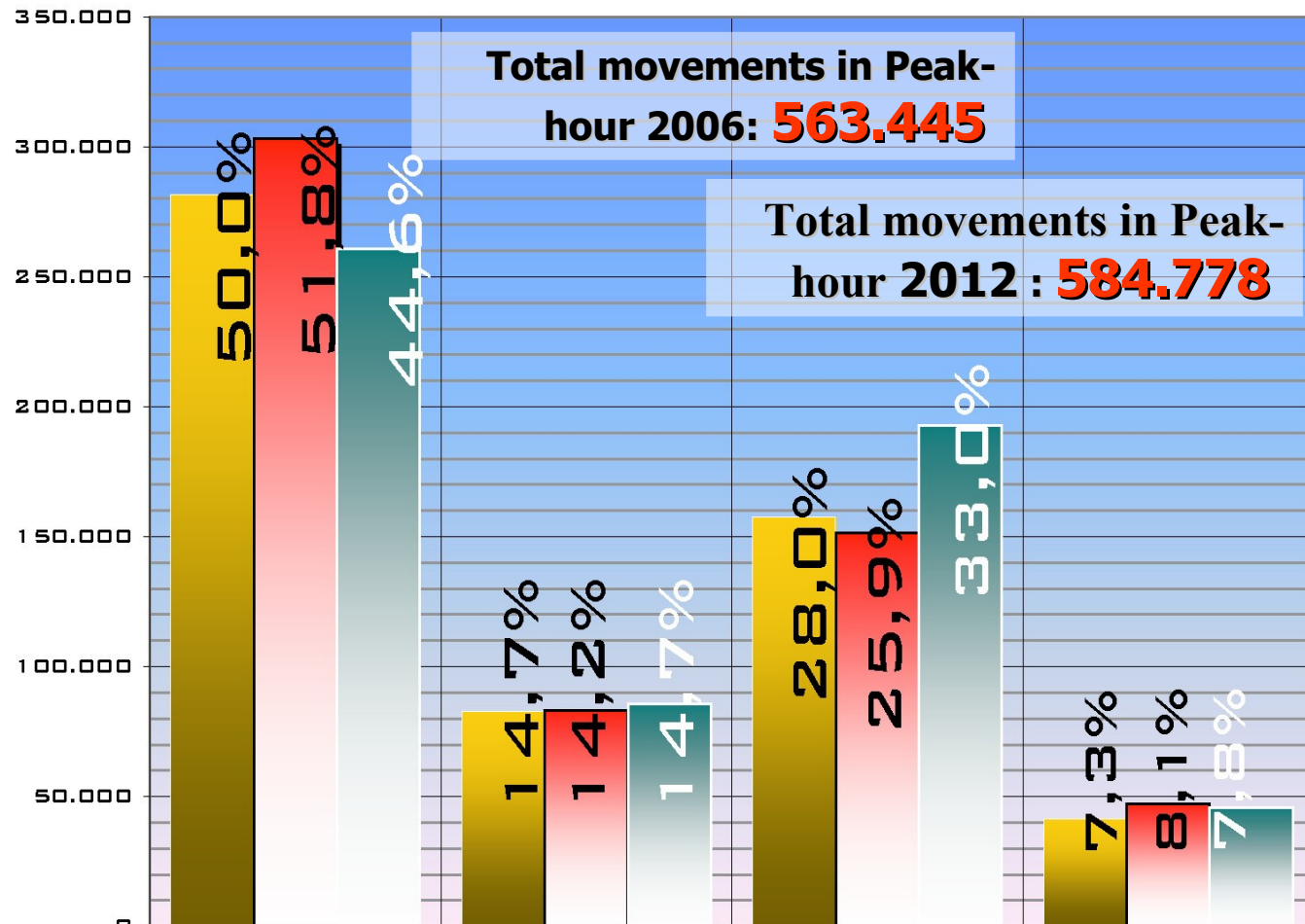
Winner of the International
Mobile Application award:
Barcelona – 10/2007



2006-2012 Peak hour: Traffic flow comparison



Results 2006-12 from models

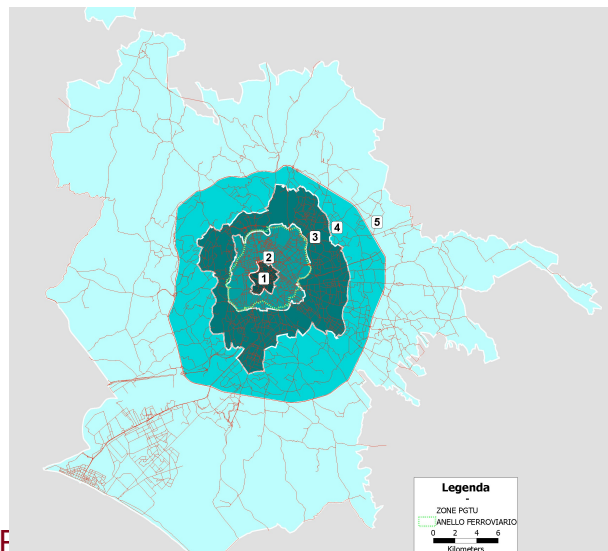


	AUTO	MOTO	PUBBLICO	PIEDI
■ SCENARIO ATTUALE	281.458	82.916	157.712	41.358
■ SCENARIO NON INTERVENTO	303.054	83.240	151.286	47.198
■ SCENARIO 2011	260.745	85.686	192.754	45.594

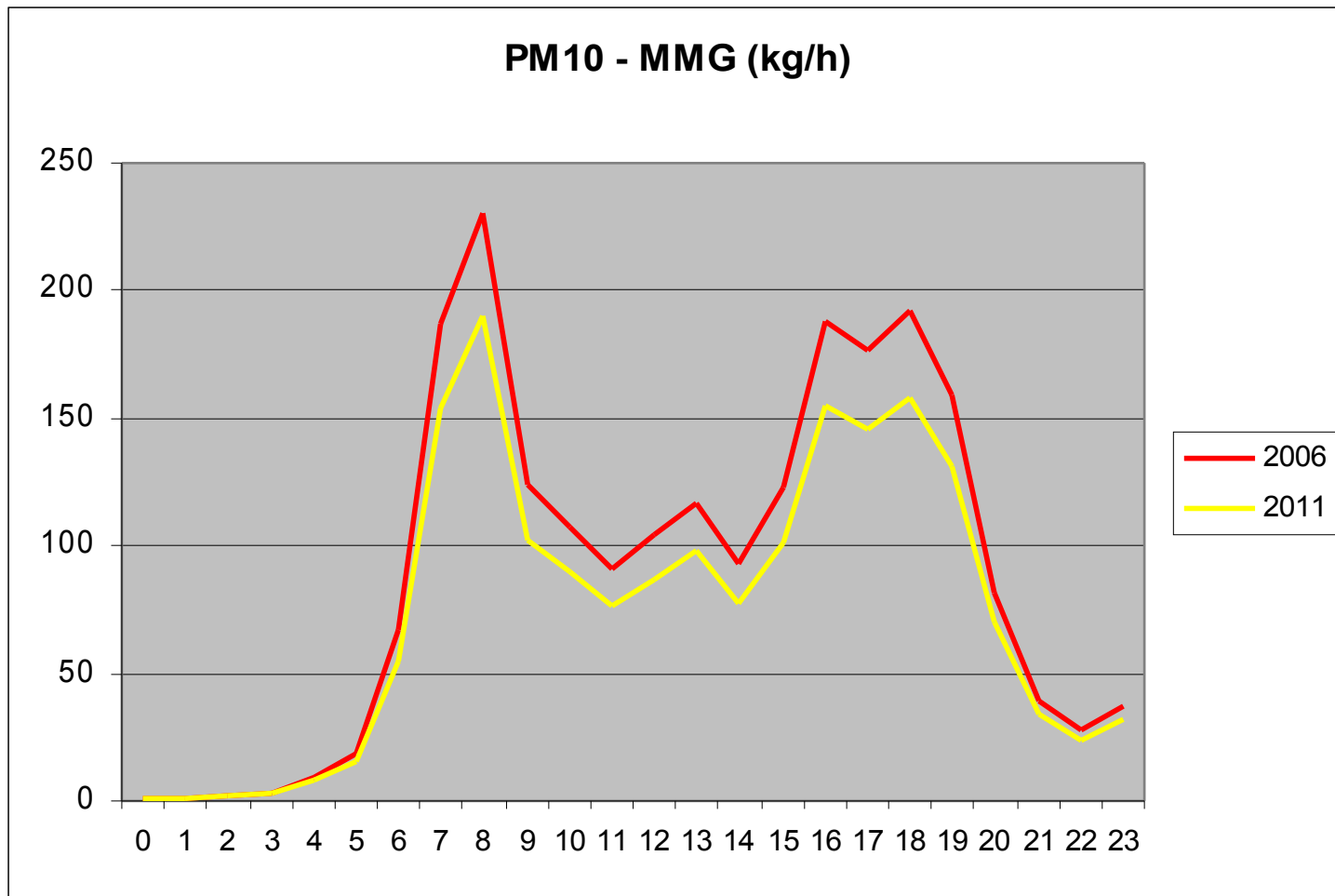
Pollutants emission from mobility

Comparison 2006 – 2011 in each traffic plan zone

POLLUTANT	Zone 1	Zone 2	Zone 3	Zone 4	Zone 5	Municipality Of ROME
CO	-18%	-26%	-26%	-17%	-9%	-19%
NOX	-25%	-31%	-29%	-28%	-27%	-28%
PM	-18%	-23%	-19%	-10%	-3%	-11%
COV	-14%	-22%	-21%	-17%	-14%	-18%

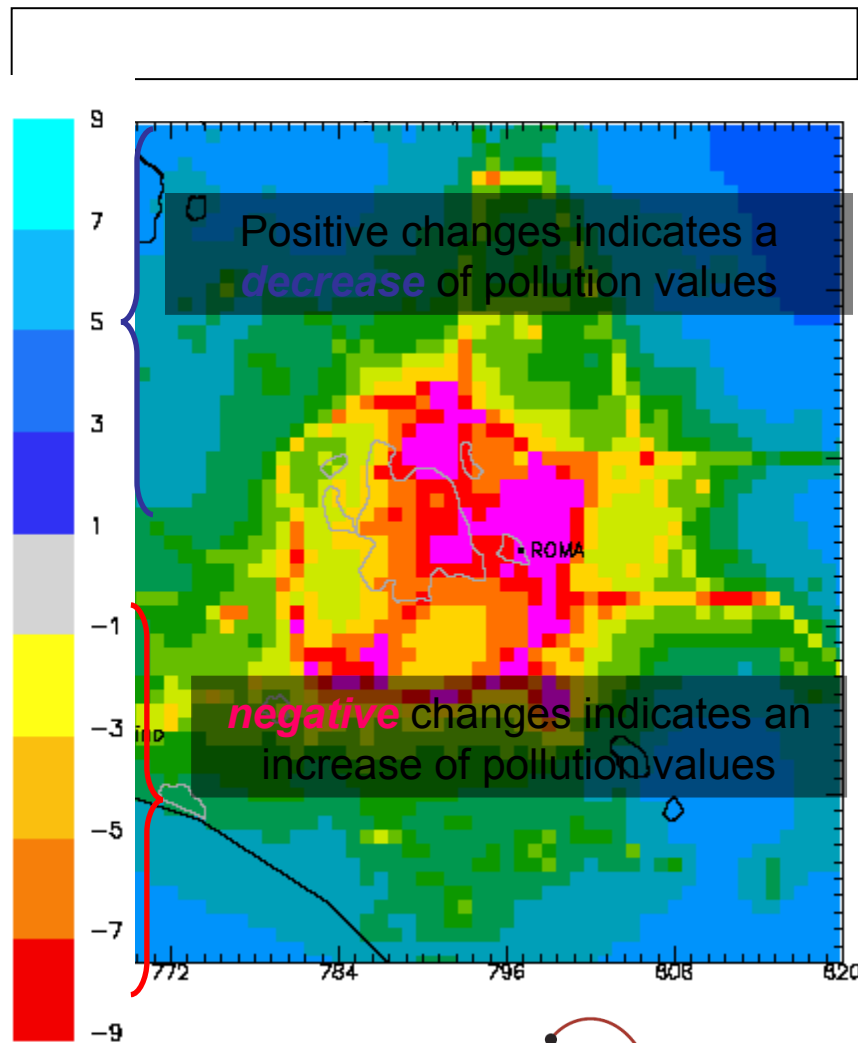
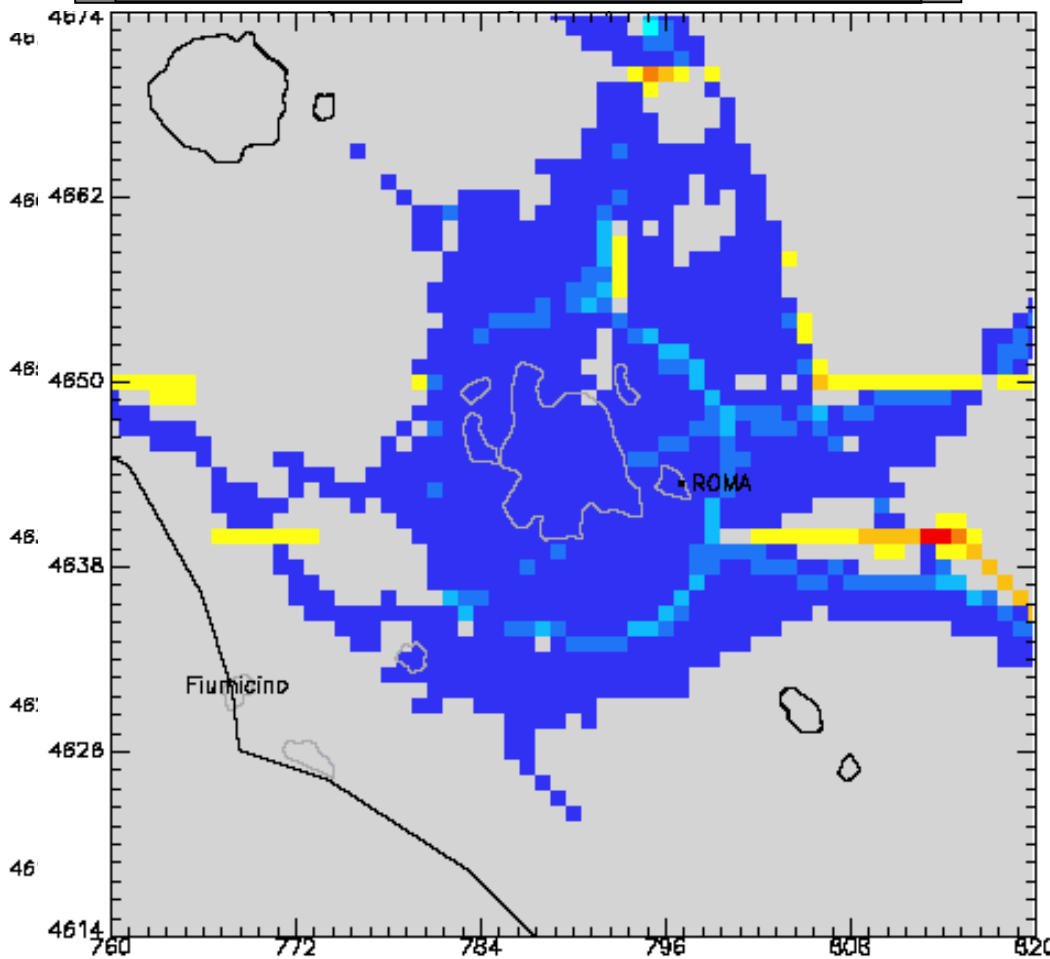


Emission comparison 2006-11 Medium working day



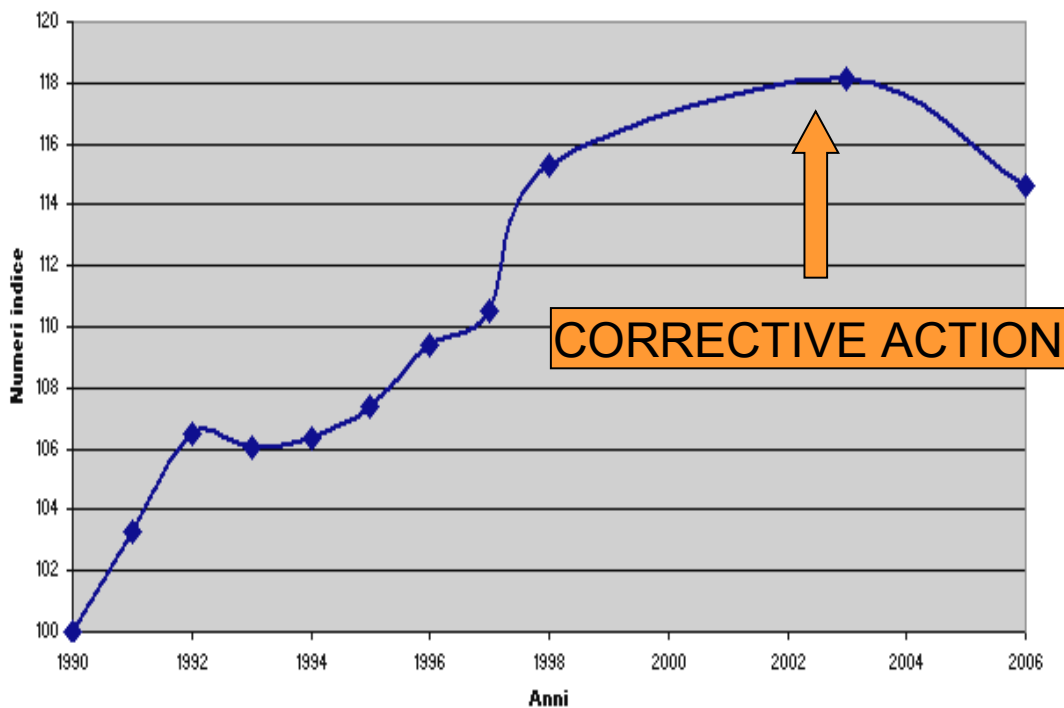
NO₂ Pollution changes

COMPARISON 2011-2006

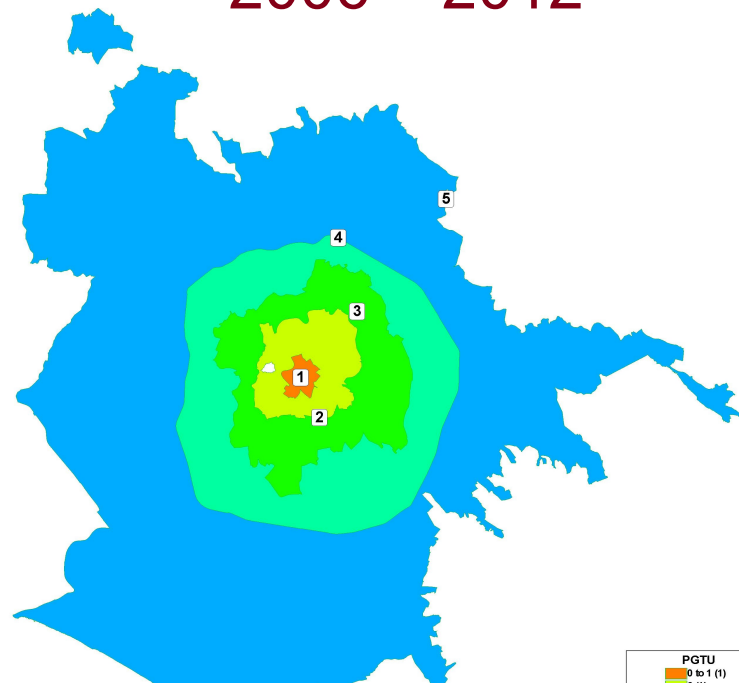


Trends on CO2 emissions in the city (1990 – 2012)

1990 – 2006



2006 – 2012



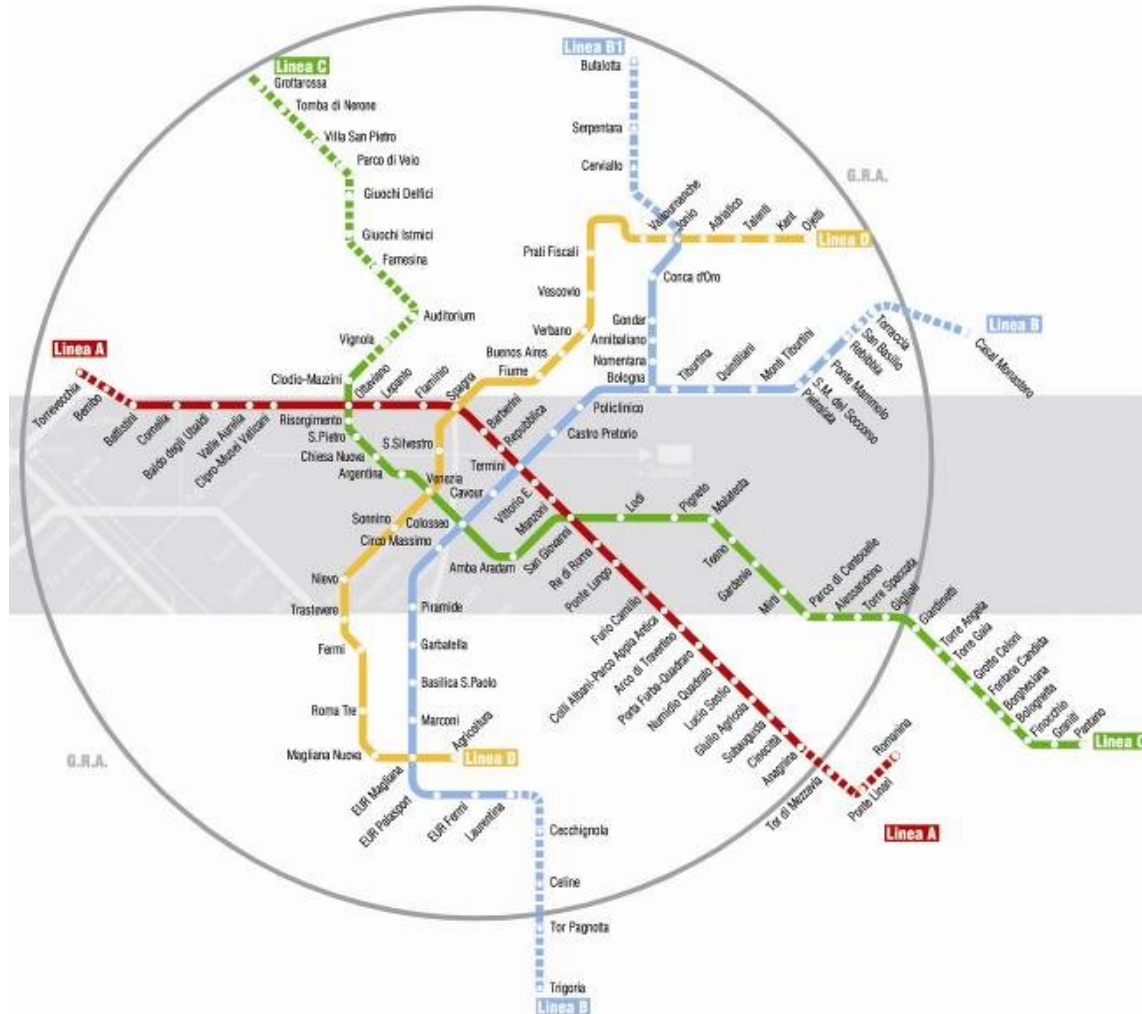
CO2 Kt/annue in 2012: 4.355,6 (+9% vs. 1990)

Zone	%
1	-47,2%
2	-19,2%
3	-18,7%
4	-19,3%
5	+23,9%
Total	-8,0%

Further steps

- Completing the analysis of further policies towards the reduction of emissions from private traffic, according to city development (PRG);
- Implementation of local policies – Local Traffic Plan to integrate the General Mobility Urban plan - the case of XV^o Borough;
- Integration with policies on air pollution (new EU Directive) and the adoption of Regional Lazio plan for air quality;
- Next months: Finalisation of the Municipal Plan for emission reduction for the respect of Kyoto protocol;
- Adoption by Municipal Council in autumn 2008.

Subways in Rome – year 2020



Subways in Rome – figures

	A + B + B1	A + B + B1 + C	A + B + B1 + C + D
Network km	39,8	65,2	84,7
Total number of stations (inside the historical Centre)	52 23	81 34	105 46
Direct coverage (residents)	400.000	680.000	820.000
Direct coverage (workplaces)	310.000	430.000	560.000
Served demand (displ./day)	860.000	1.280.000	1.700.000

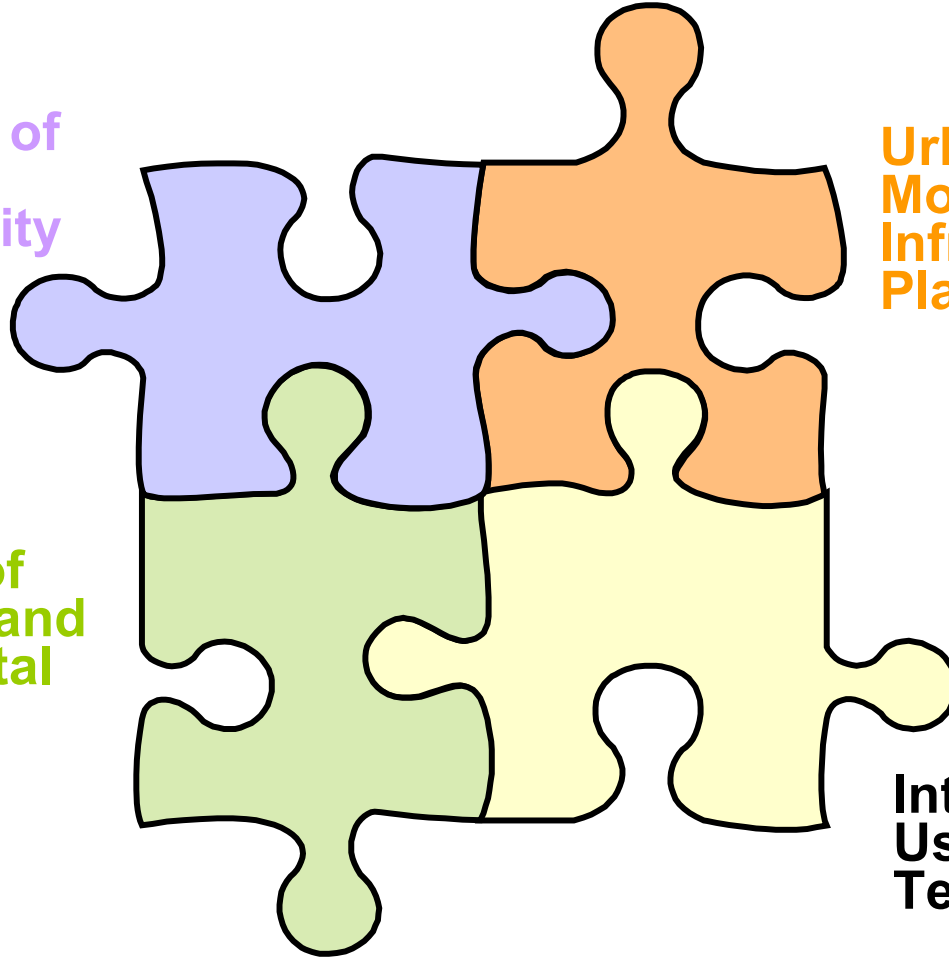
Rome approach: Integration into a unique picture...

Management of
Public and
Private Mobility

Urban and
Mobility
Infrastructure
Planning

Monitoring of
Congestion and
Environmental
Threats

Integration and
Use of New
Technologies



Thank you!

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