



CiViTAS
Cleaner and better transport in cities



THE CIVITAS INITIATIVE
IS CO-FINANCED BY THE
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CIVITAS Forum

27-29 September 2010

Malmö (Sweden)

Leonardo Naldini - Stefania Papa

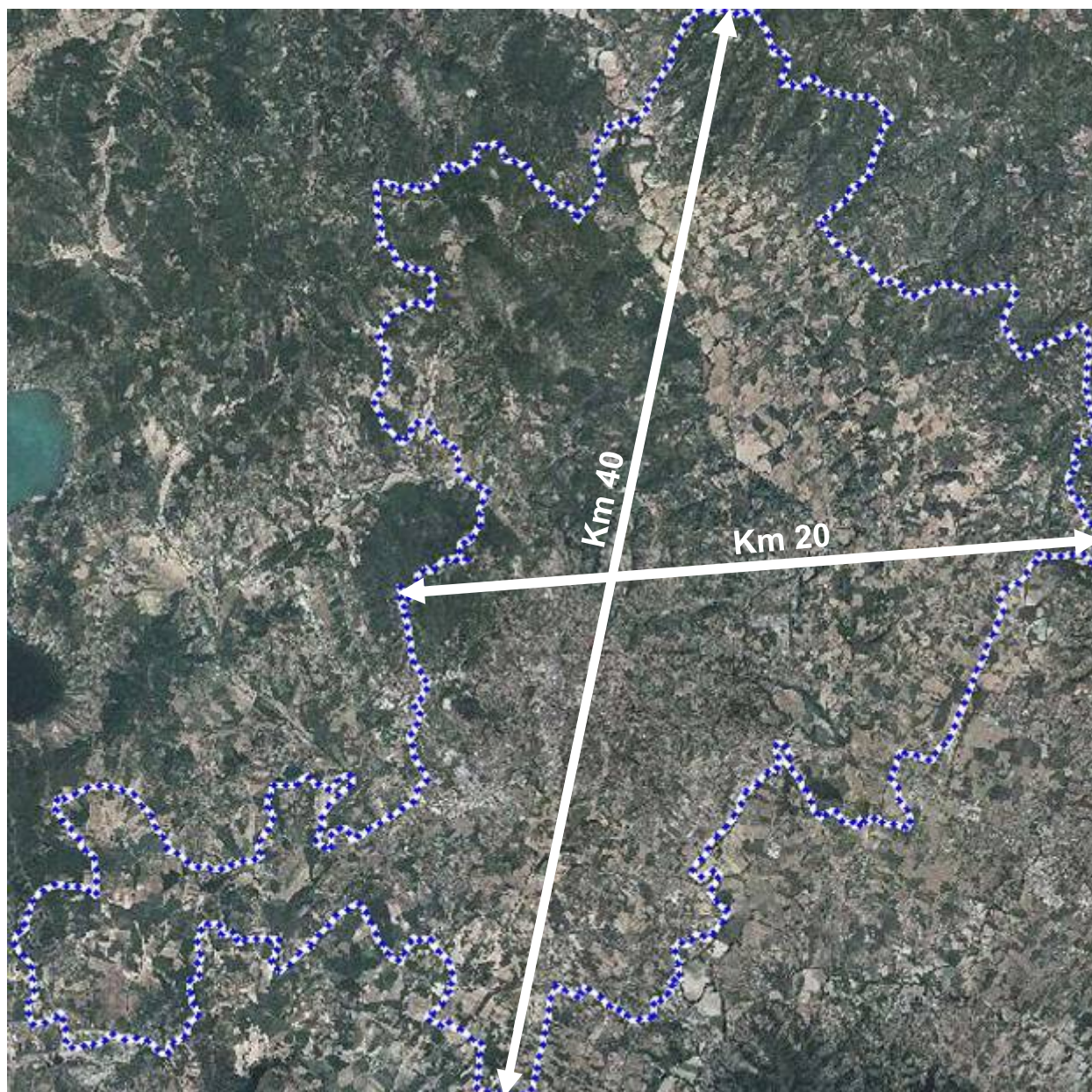
Municipality of Perugia (I)

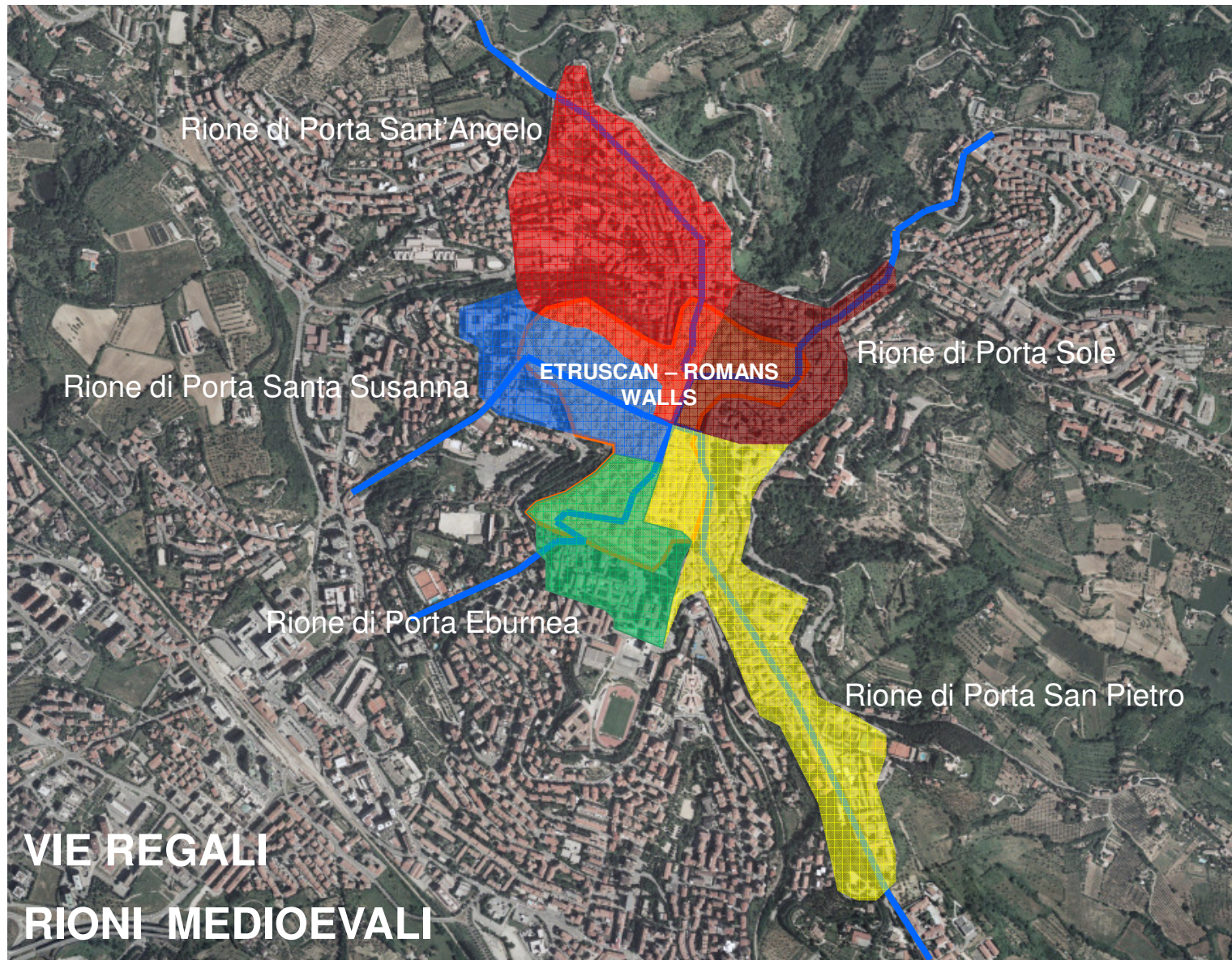
Headlines

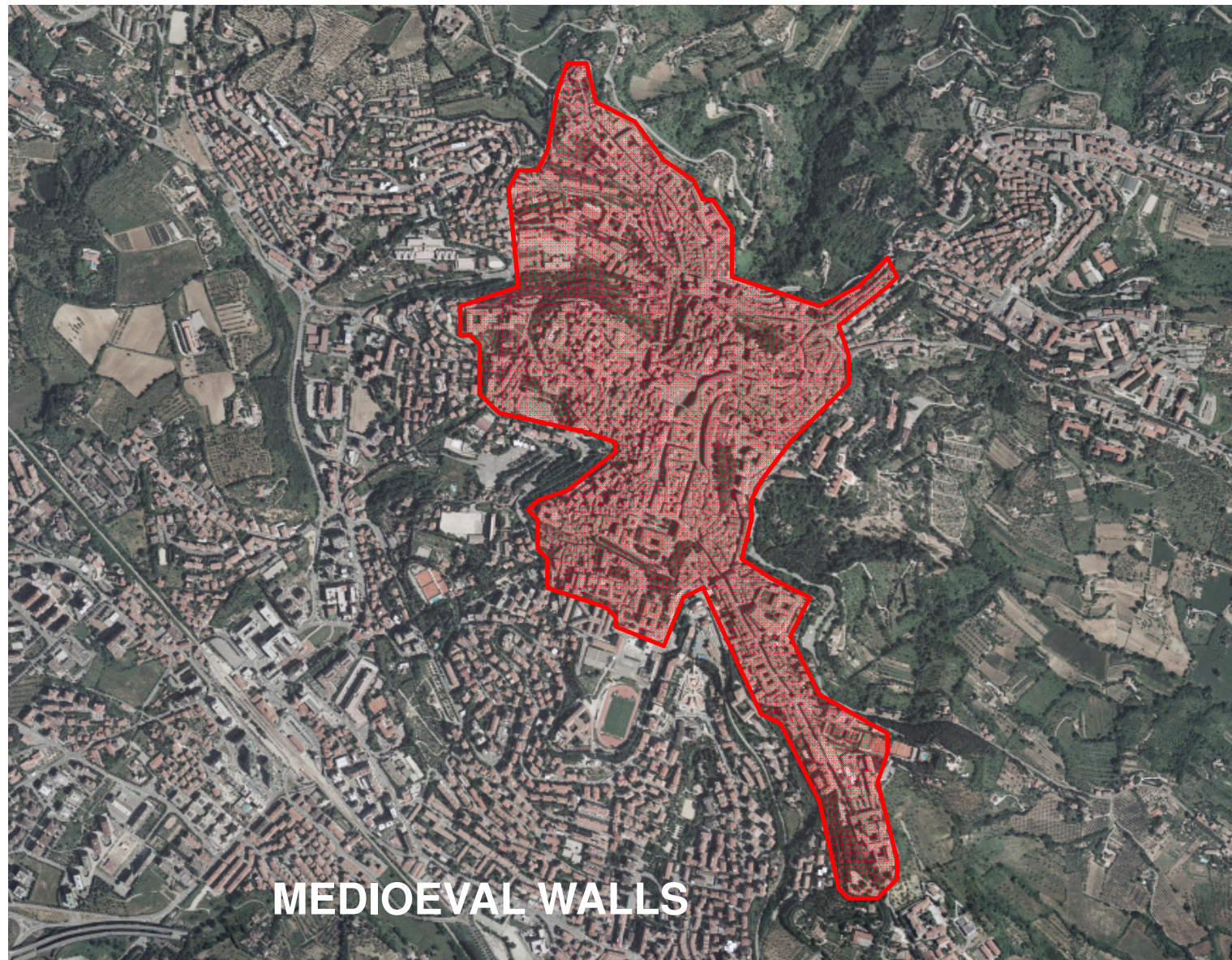
- Perugia in a nutshell
- Natural creation of LTZ
- Accessing the limited zone through parkings+escalators system
- Background Vs. CiViTAS – RENAISSANCE
- Usage of the state of the art technology
- Improving strategies for city centre demand-management

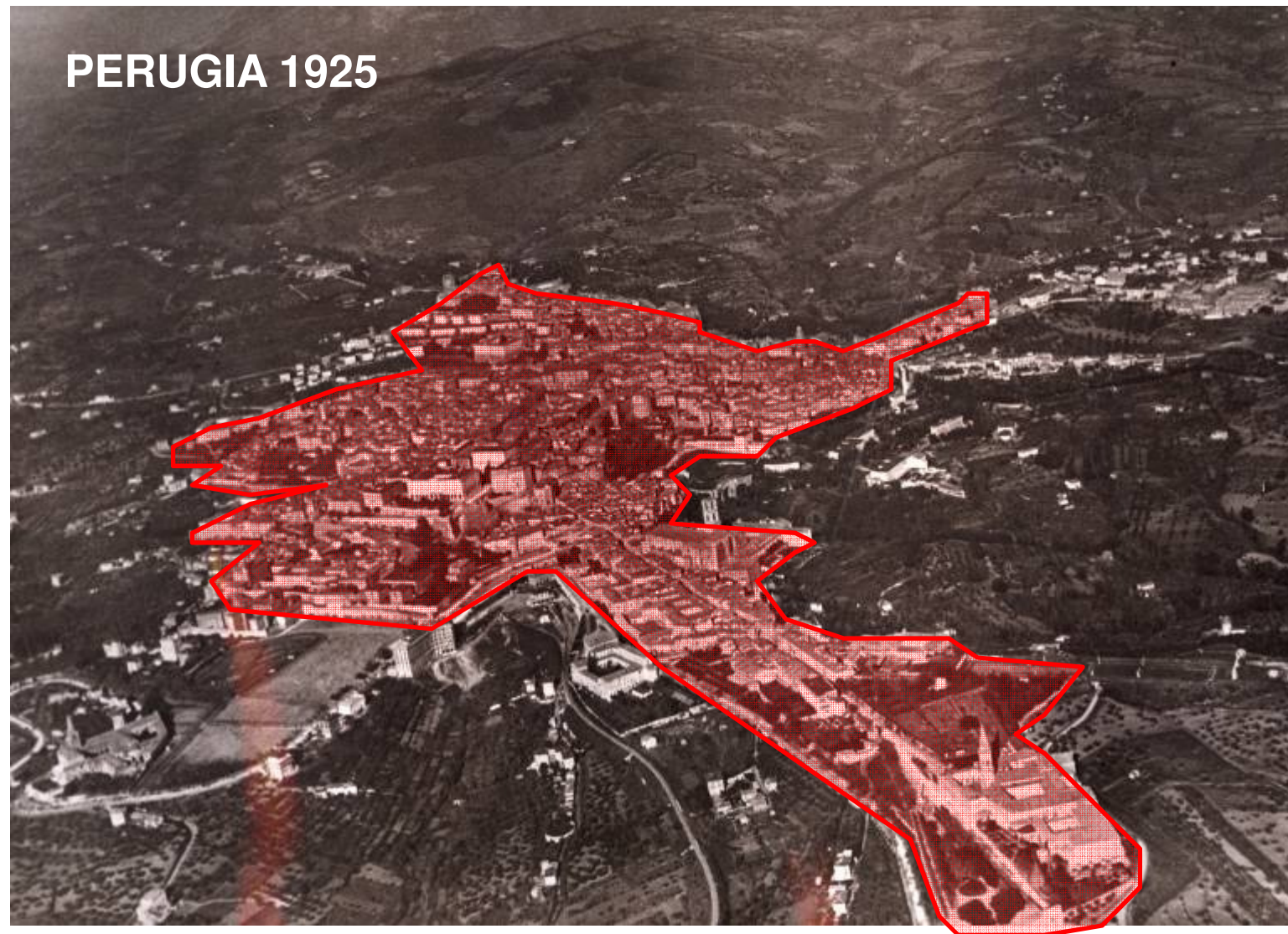
















MINIMETRO

7 STATIONS

25 SHUTTLES/50 PEOPLE

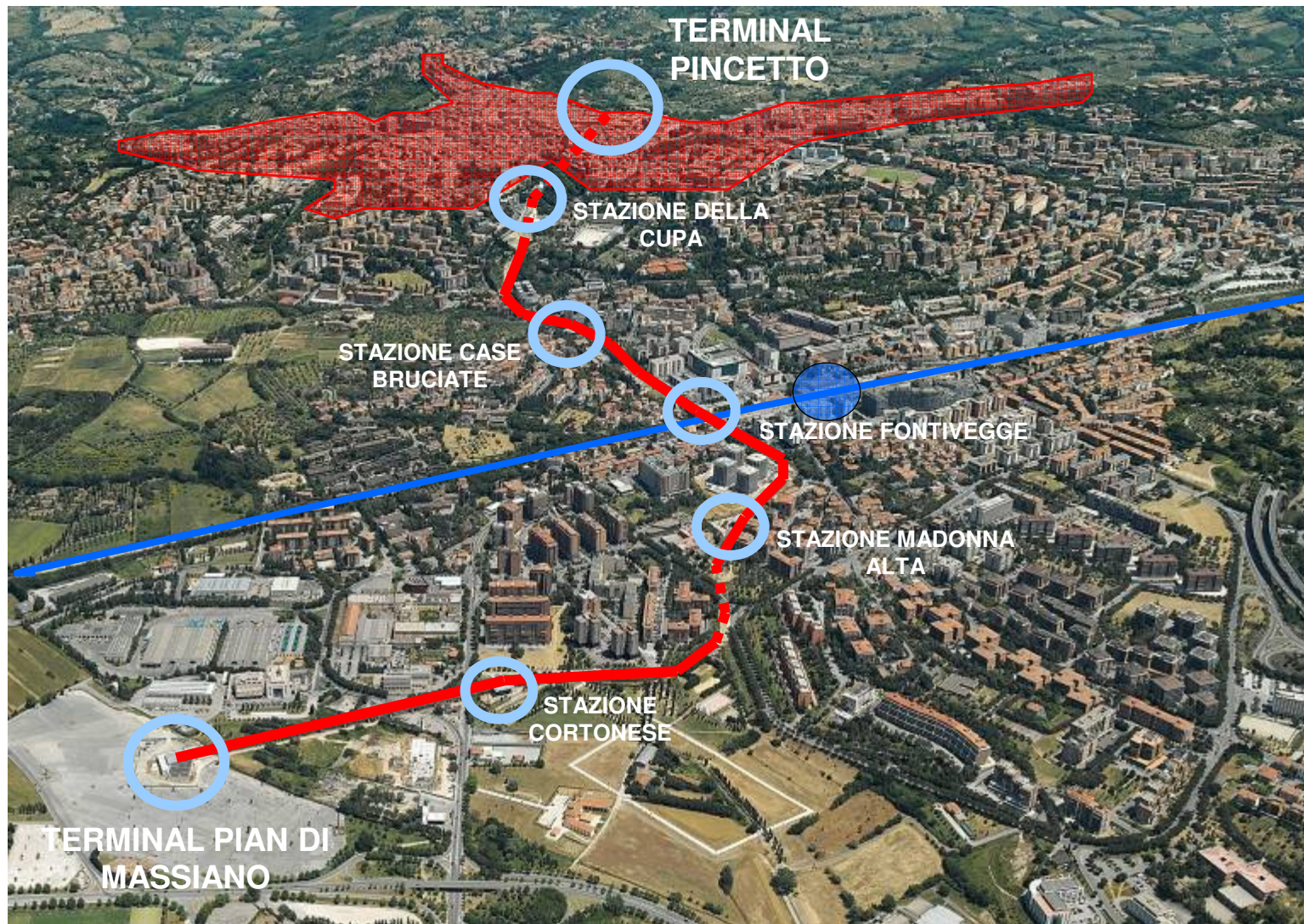
LENGHT ml 3.015

12 MINUTES

FROM P. DI MASSIANO TO CITY CENTRE

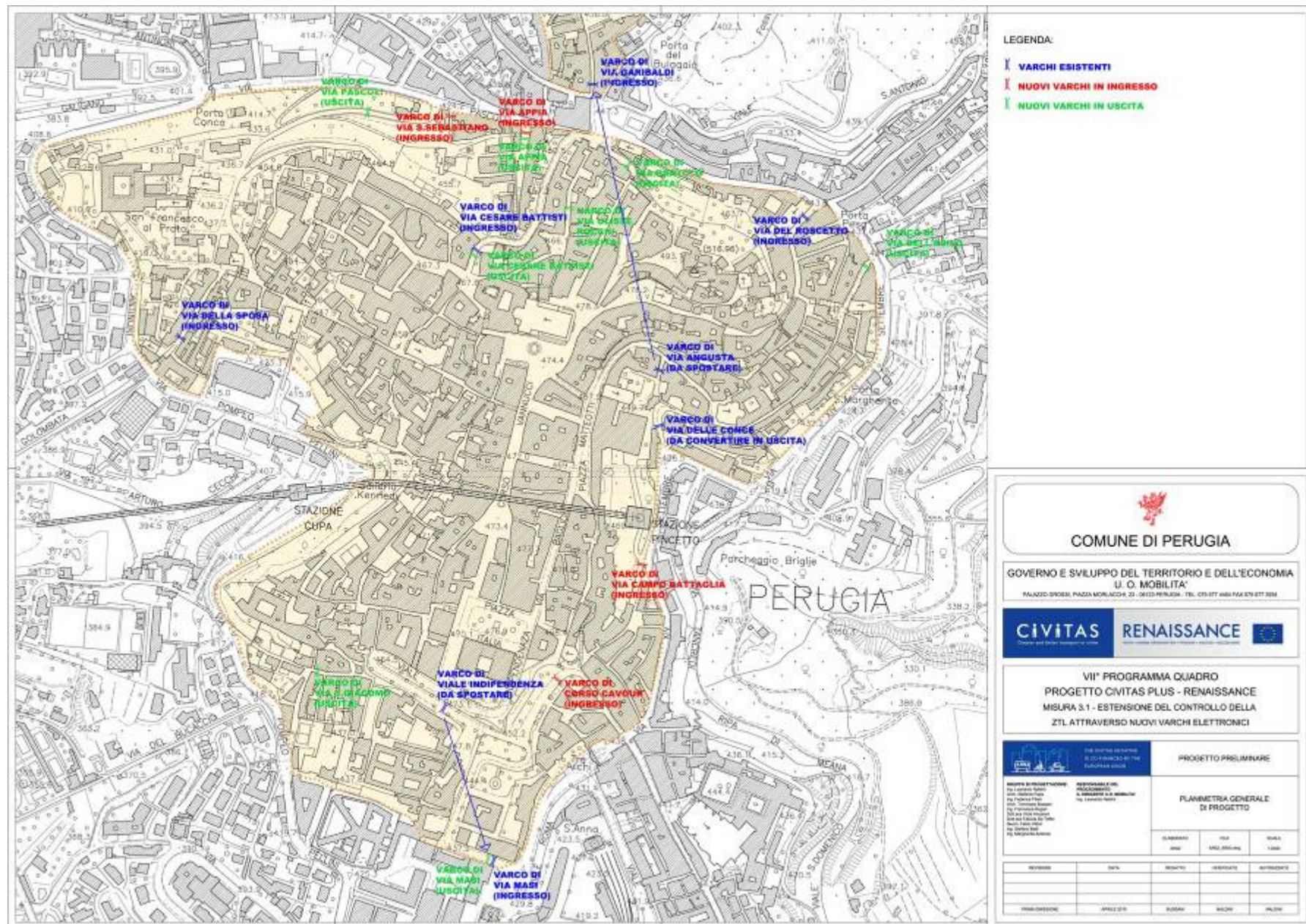
€ 98 MILLIONS





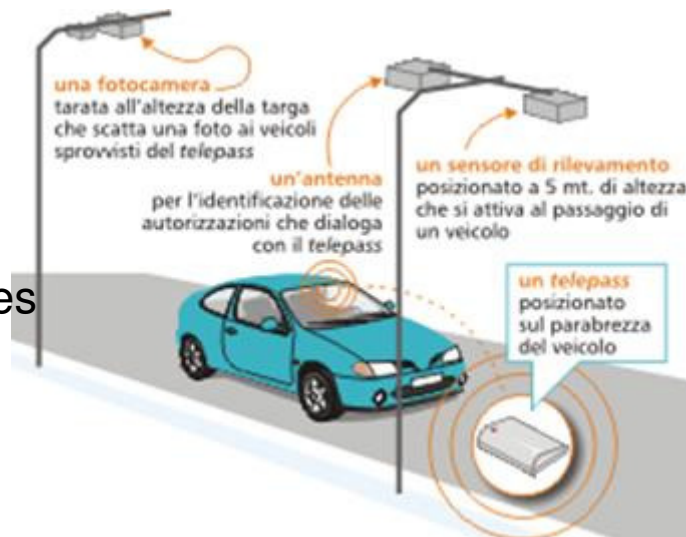






LTZ gates operation



- Approx. 15000 veh/day accessing the LTZ
- Each gate is equipped with a transmitting device acknowledging vehicles allowed to enter and with a camera catching/processing the plate image
- Data are electronically transmitted to Municipality Police that will deal with fines procedure



LTZ gates operation

S.R.I. WEB SYSTEM
venerdì 3 settembre 2010
Project Automation
Perugia

Analisi Transiti
Operatore:

LTZ
V & Sposta
Elimina

Tipo veicolo: Autovettura
Salta
Autorizza

Tipo targa: Autoveicolo
Sposta
Tutti

Filtro: Tutti
Tutti

< 2/415 >
Verifica

<< >>
LB
Verbale

Stampa
Esporta
Chiudi

Varco	Data	Ora	OBU	Targa	Verif.
Indipendenza	08/05/2010	00.00.46	N/A		<input type="checkbox"/>
Indipendenza	08/05/2010	00.00.49	N/A		<input checked="" type="checkbox"/>
Indipendenza	08/05/2010	00.01.23	N/A		<input type="checkbox"/>
Indipendenza	08/05/2010	00.01.59	N/A		<input type="checkbox"/>
Cesare Battisti	08/05/2010	00.02.22	N/A		<input type="checkbox"/>
Indipendenza	08/05/2010	00.02.29	N/A		<input type="checkbox"/>
Indipendenza	08/05/2010	00.03.09	N/A		<input type="checkbox"/>
Indipendenza	08/05/2010	00.03.21	N/A		<input type="checkbox"/>
Indipendenza	08/05/2010	00.03.31	N/A		<input type="checkbox"/>
Indipendenza	08/05/2010	00.03.45	N/A		<input type="checkbox"/>

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 ...



New LTZ gates to be installed in Renaissance project: objectives



To estimate the
O/D matrix of LTZ

To estimate
duration of stay in
LTZ of different
categories

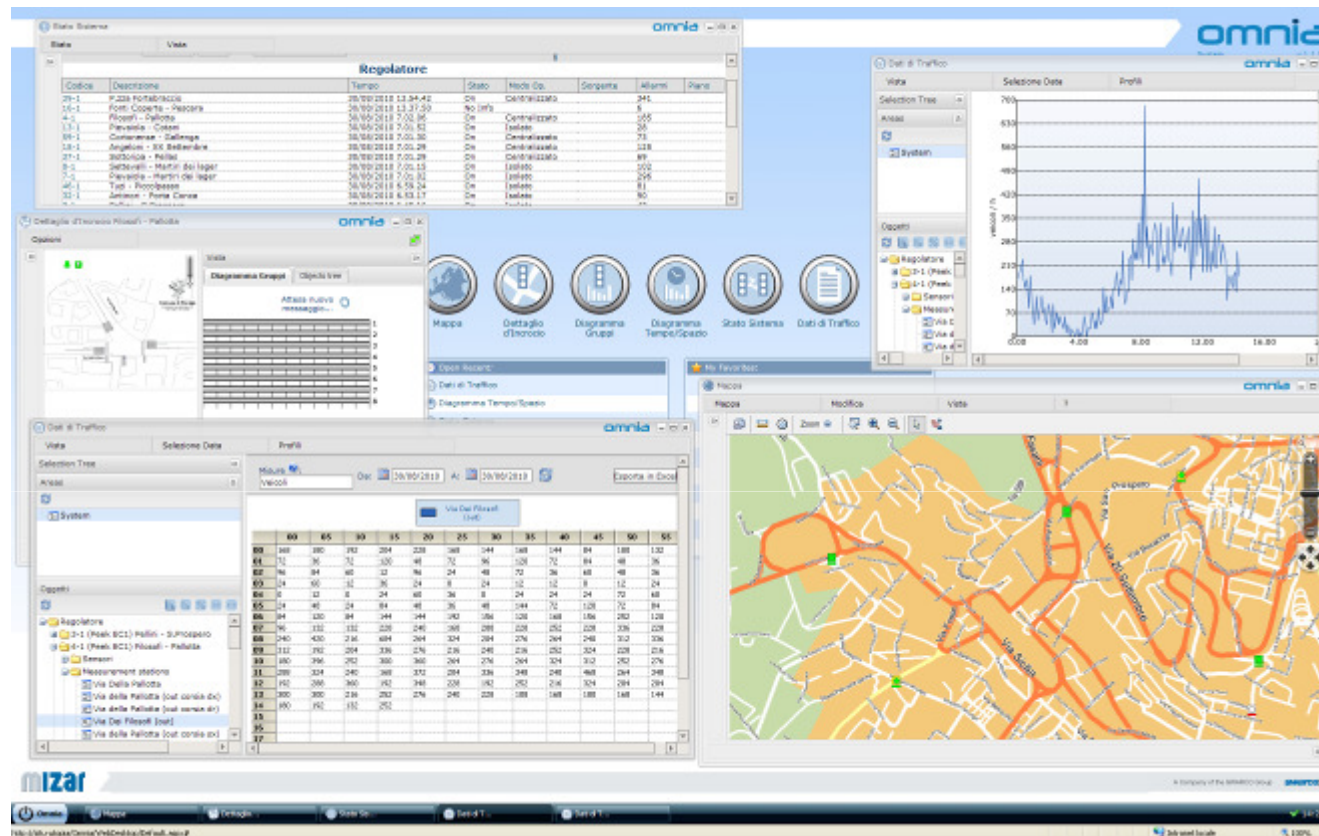


To set up a
progressive scheme of
an area pricing system

To reduce accidents by
avoiding dangerous
forbidden manouvres



Traffic lights control center: UTOPIA



Centralisation of 13 intersections

Distributed intelligence

Priorisation of public vehicles (ongoing)

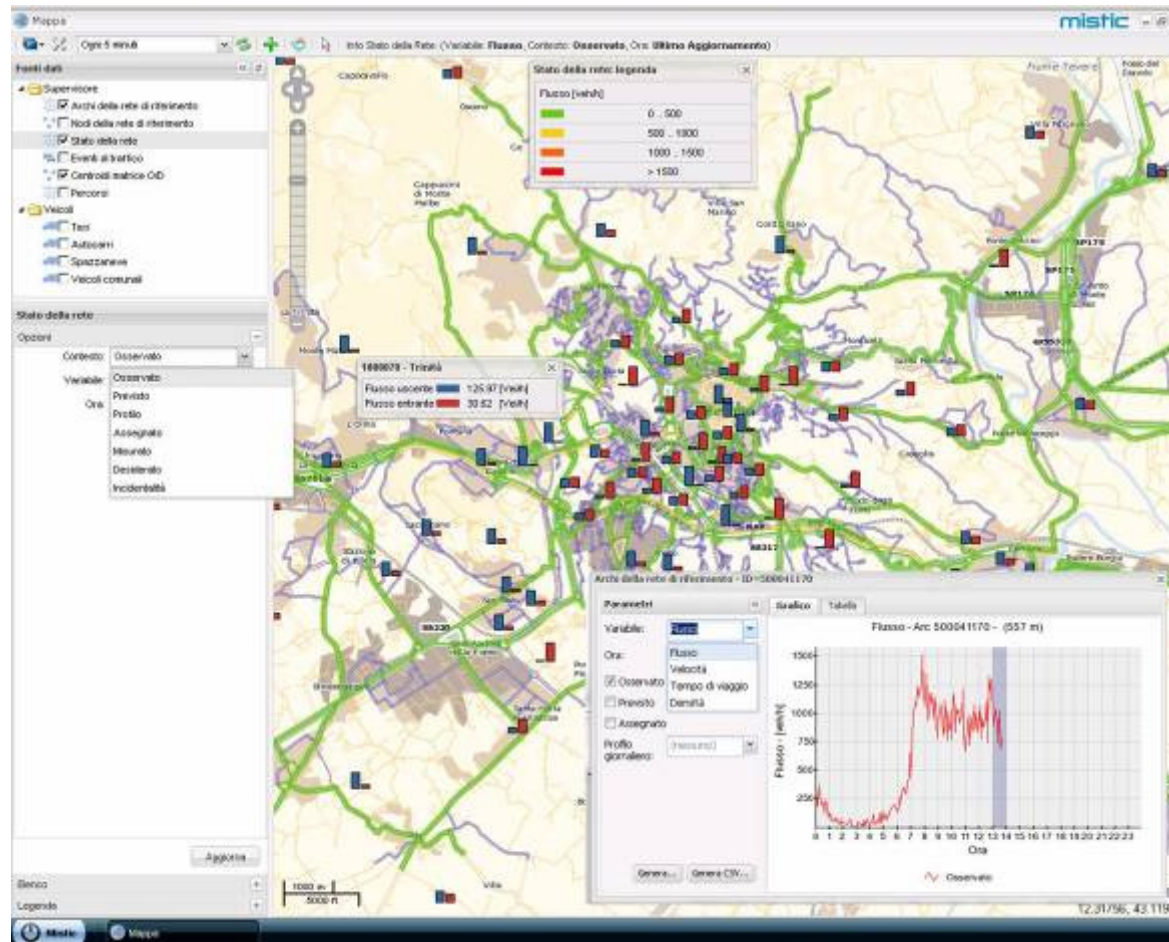


Variable Message Panels

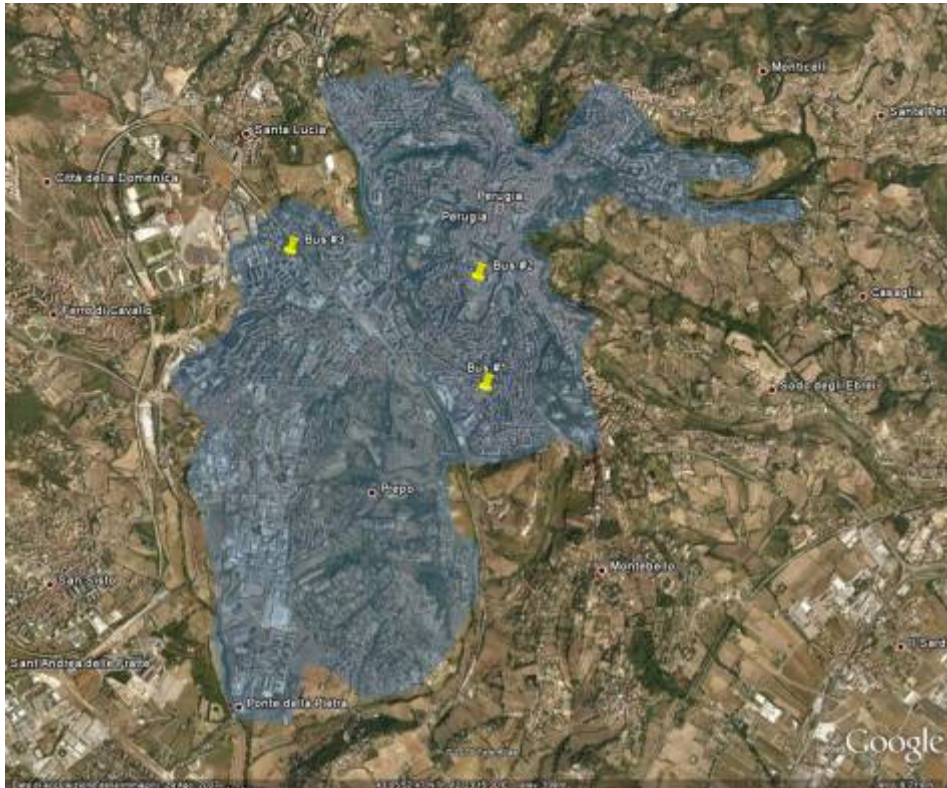
- 28 panels installed (24 VMP)
- Real-time information to drivers about parking level of occupancy
- Additional panels to give air quality information (PM10 and O3)



The infomobility platform: a container for all the informations



Real time tracking of sensible categories



Freight dispatch fleets

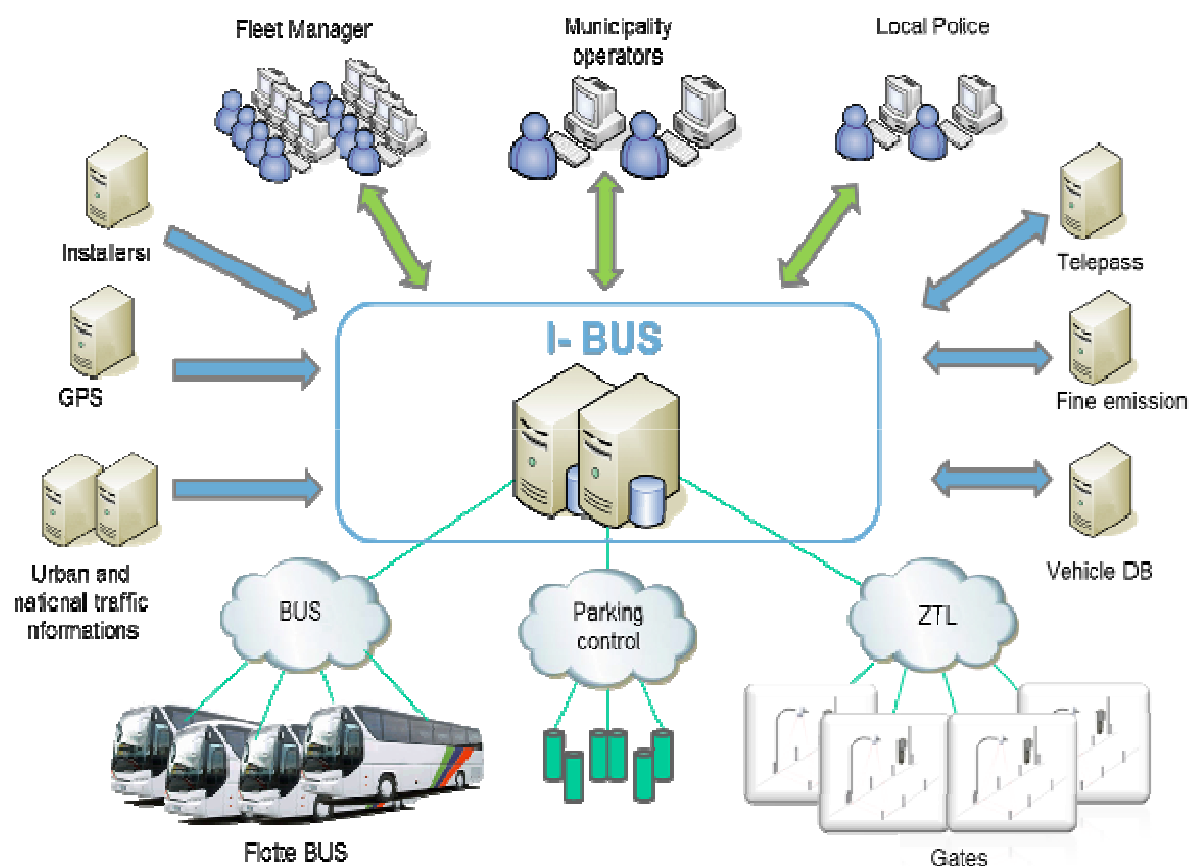
- Euro class of vehicles
- Load/capacity ratio
- Time spent in sensible area



Touristic coaches

- Only qualified city services usage allows to enter the city
- On board unit mandatory (common approach with other touristic cities)
- Gates to control presence of onboard unit
- Itinerary and time respect





Thank you!

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