



# Urban C-ITS development in Rome

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# Summary

- The C-ITS System
- Overview of the pilot areas
- Gianicolense pilot area
- Porta Maggiore pilot area
- EUR pilot area

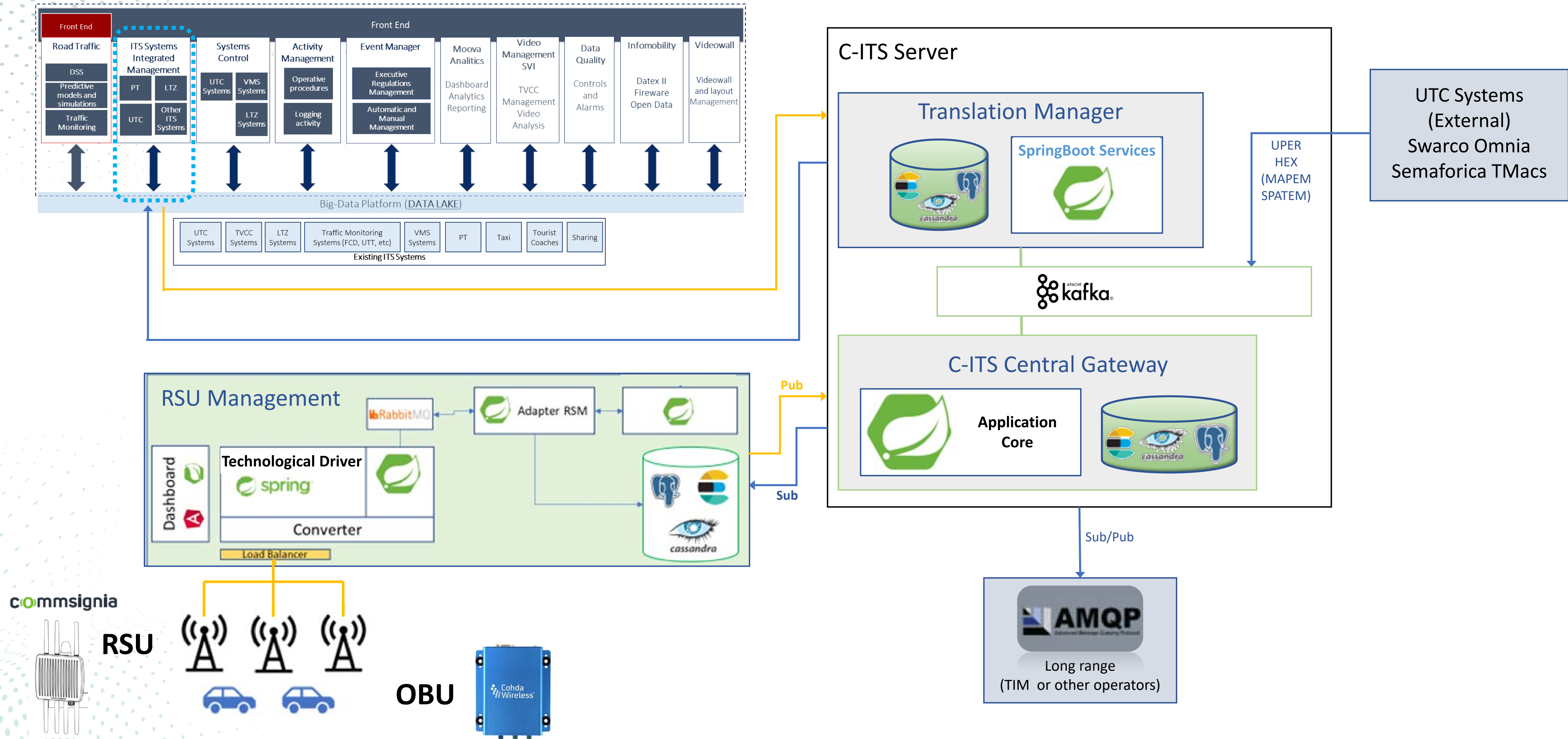
# THE C-ITS SYSTEM



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# C-ITS System Architecture





# OVERVIEW OF THE PILOT AREAS



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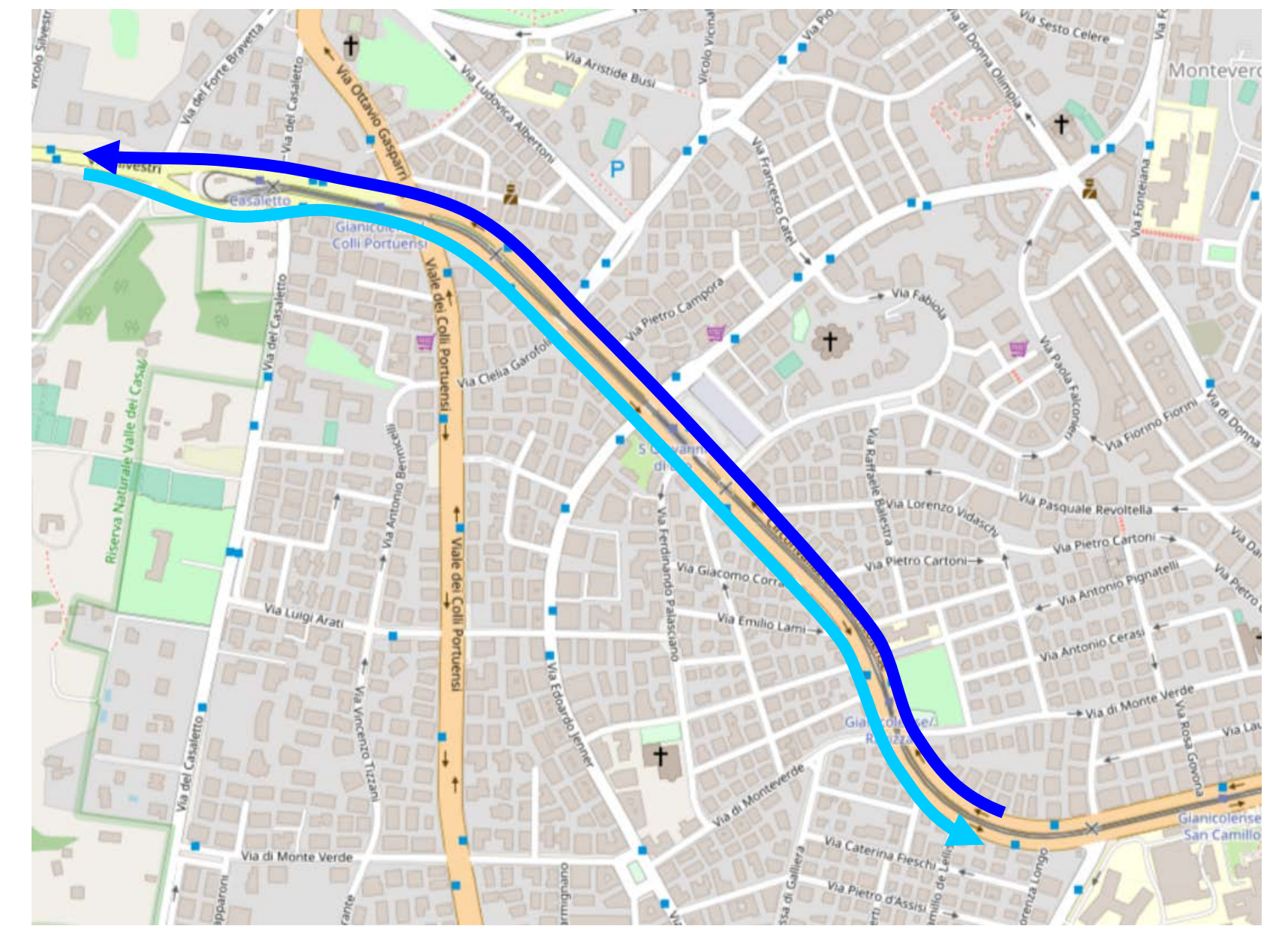


# THE PILOT AREAS



## GIANICOLENSE AREA

Main axis in dense urban context with PT (tram) central corridor

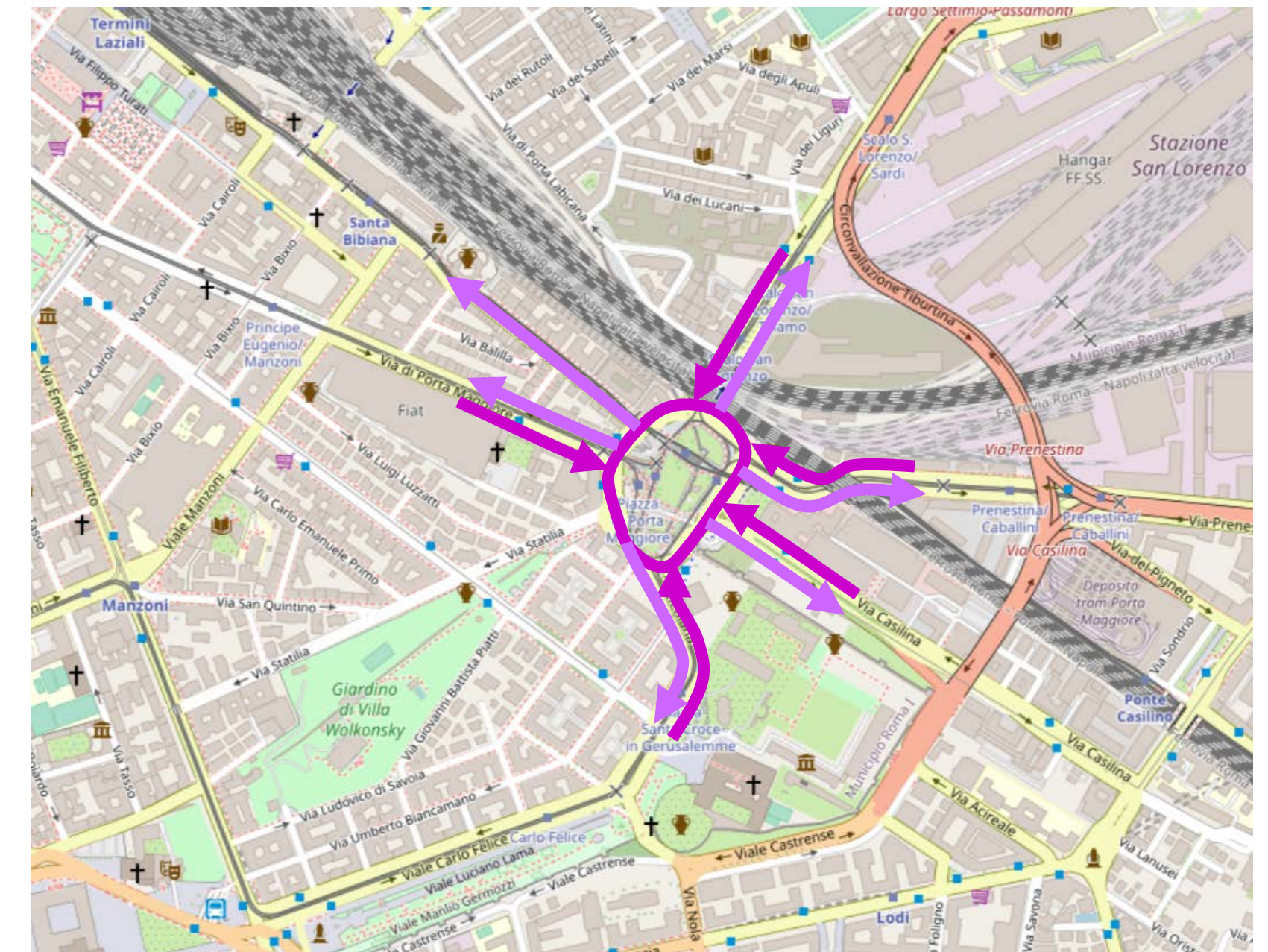


## EUR AREA

Main axis in urban context with connection to extra-urban highway

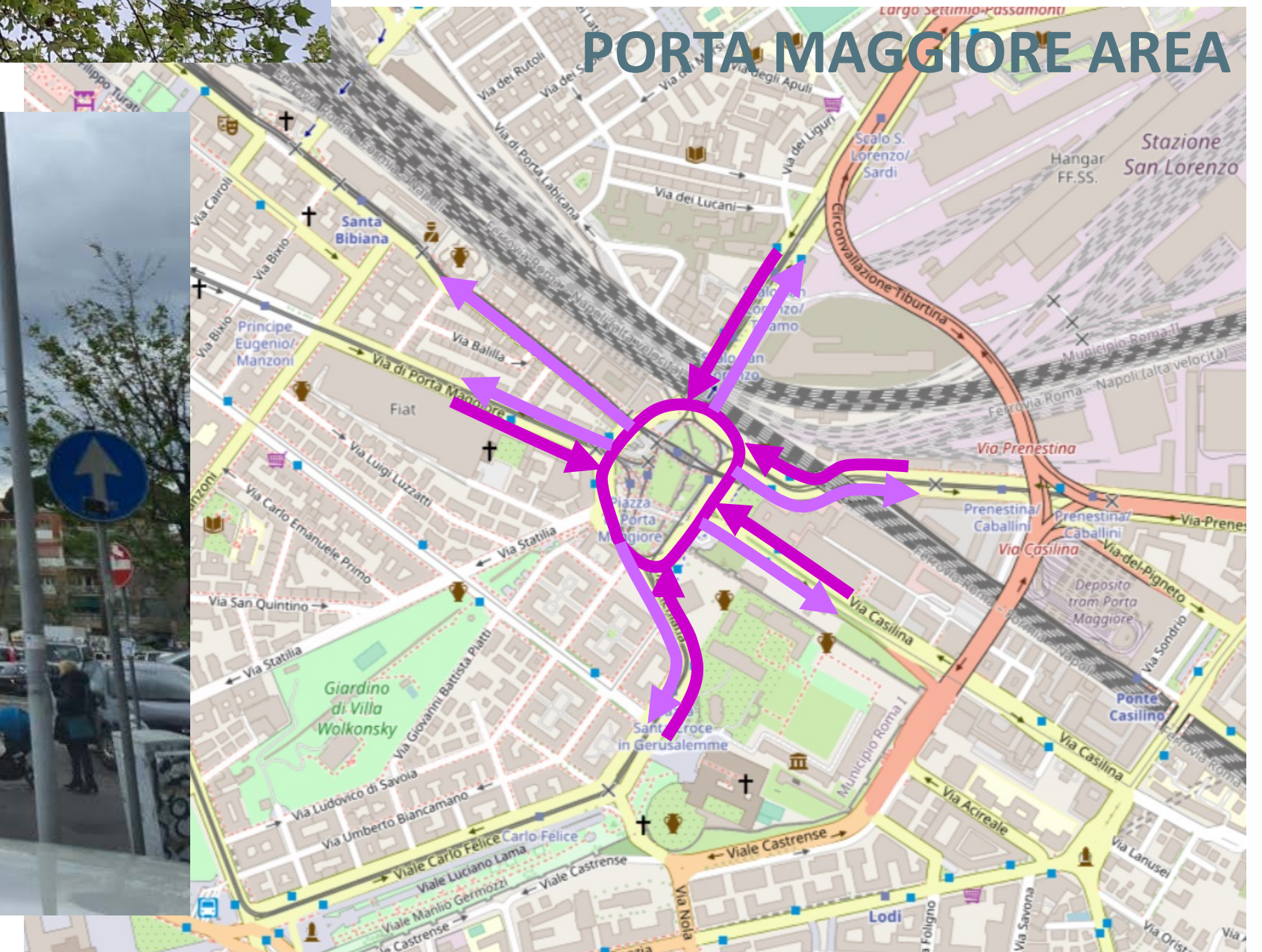
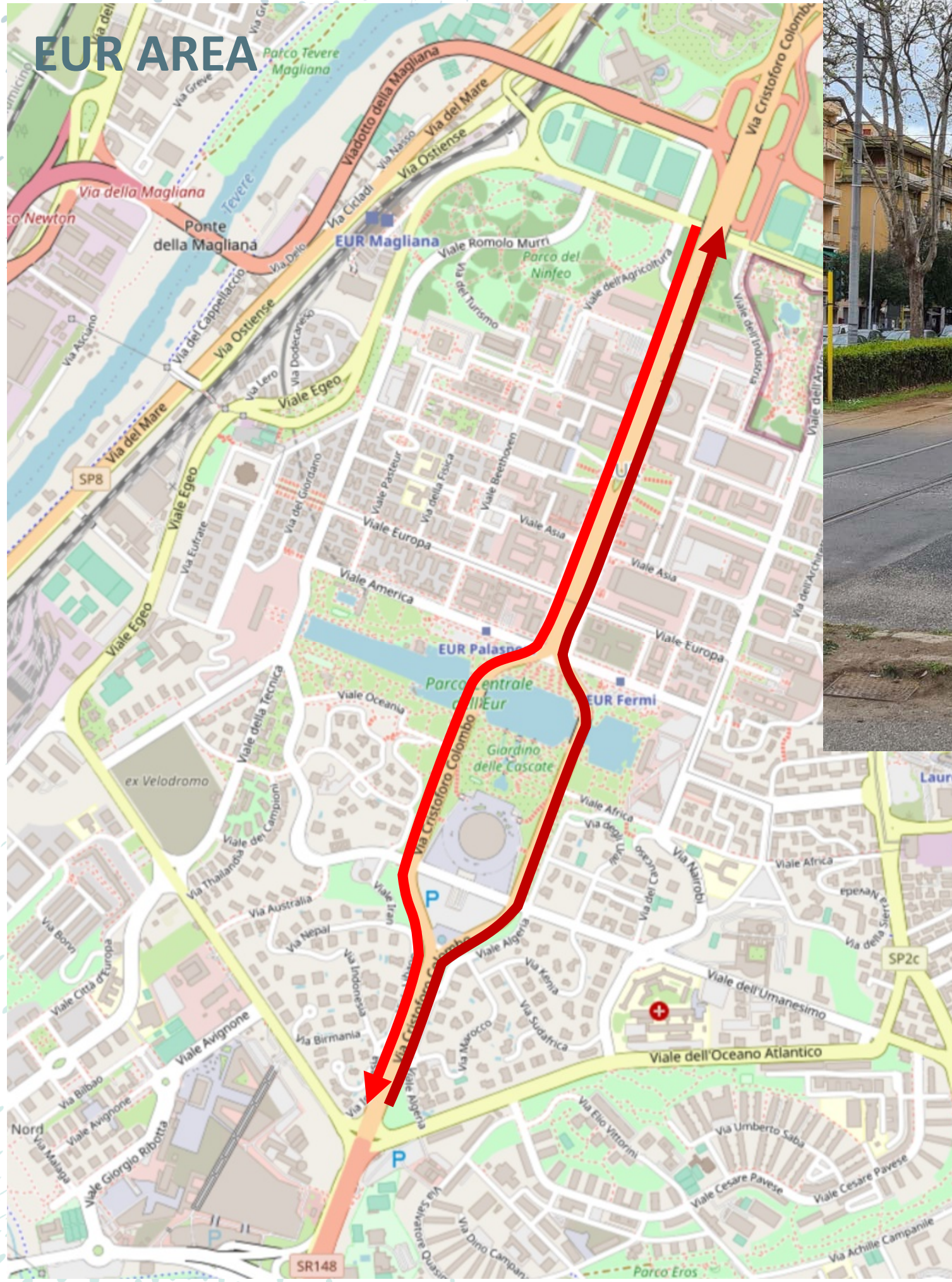
## PORTA MAGGIORE AREA

Complex node, in dense urban constraint context with high interaction with PT



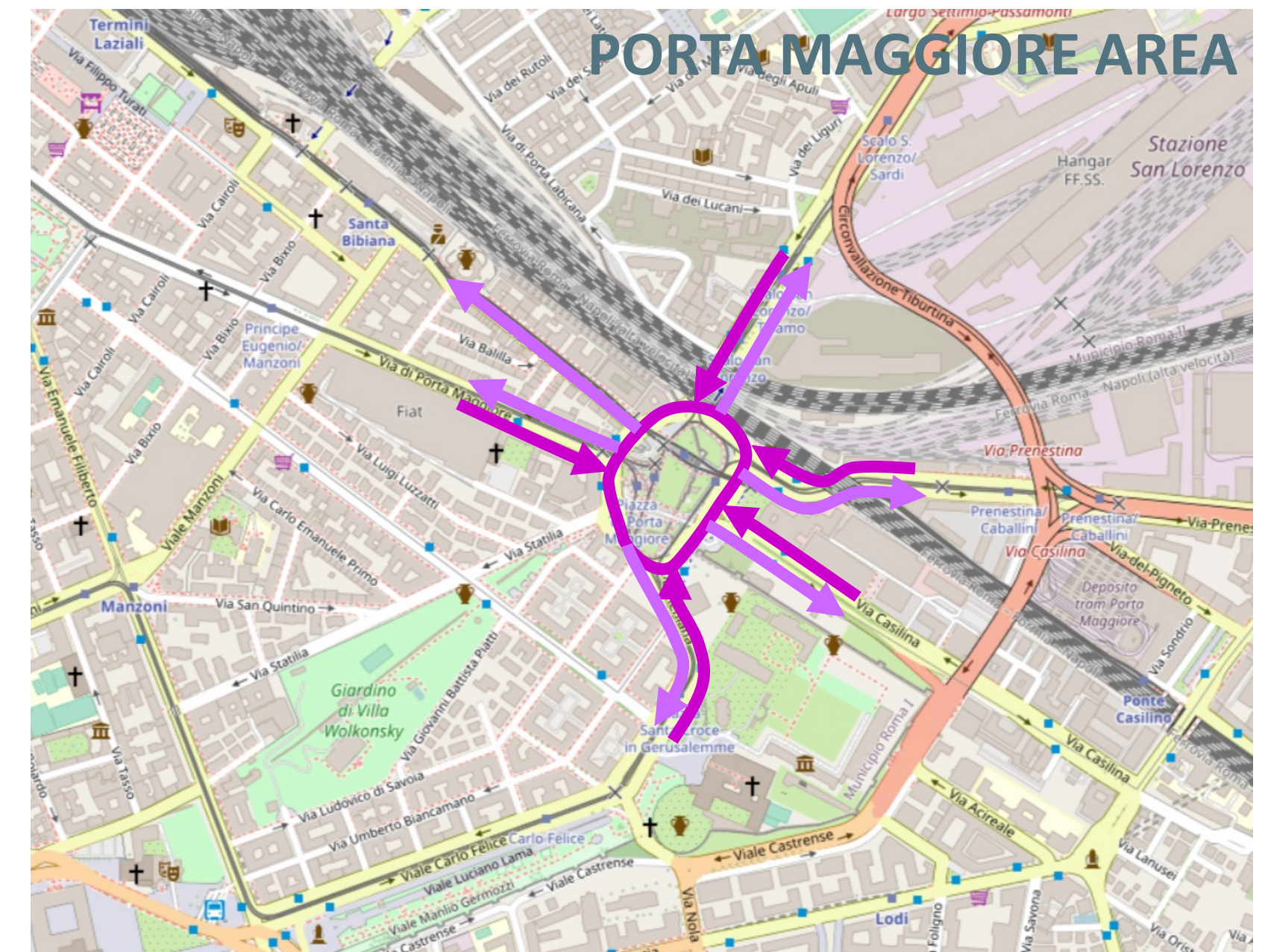
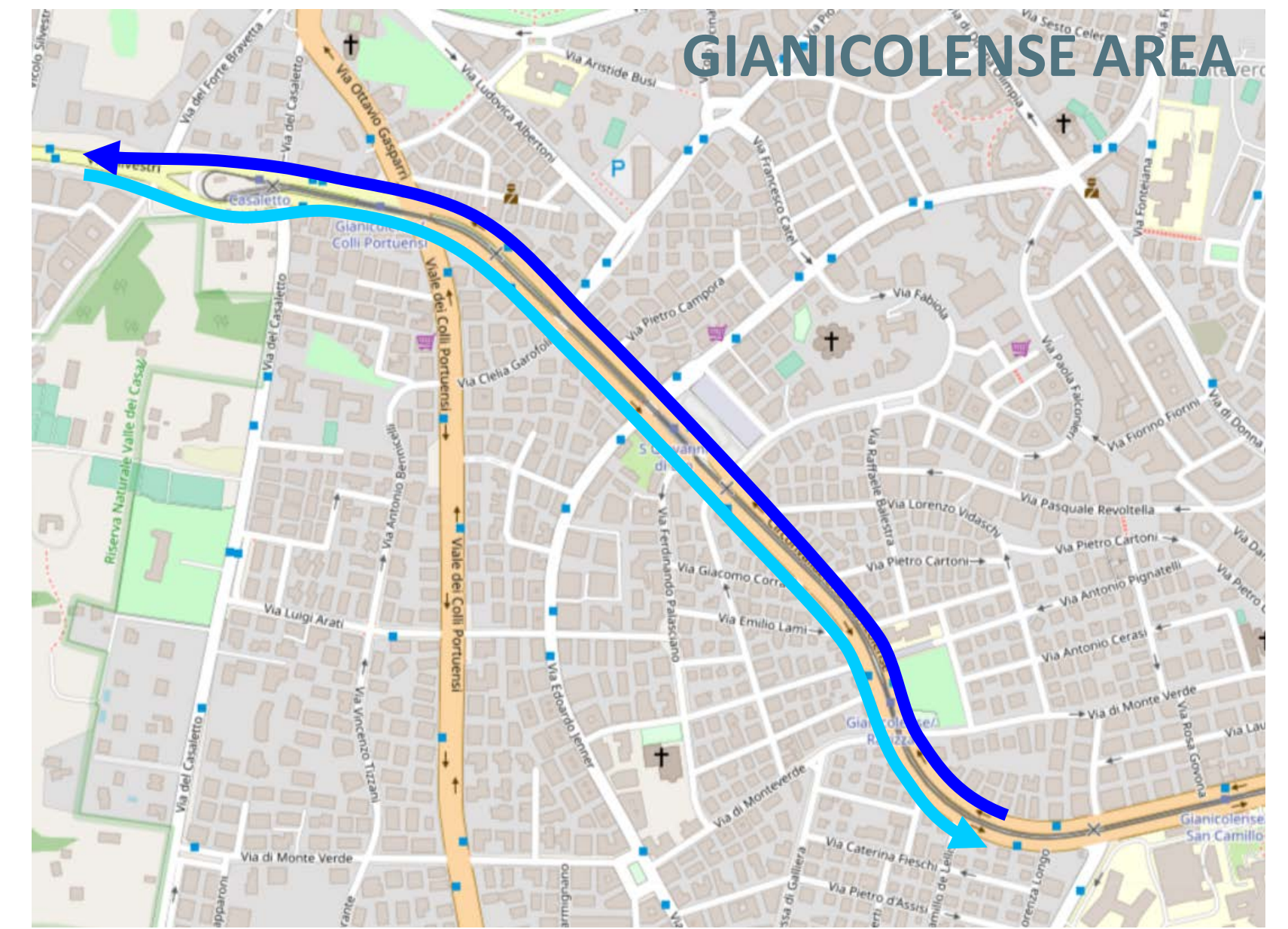


# THE PILOT AREAS





# THE PILOT AREAS



## Day 1 C-ITS Services

- In-Vehicle Signage – IVS
  - Traffic Signals
- Hazardous Location Notification – HLN
  - Traffic Jam Ahead Warning
  - Weather Condition Warning
- Signalized Intersections – SI
  - Signal Phase and Timing Information
  - Green Light Optimal Speed Advisory
  - Imminent Signal Violation Warning
- Probe Vehicle Data – PVD
  - Vehicle Data Collection
  - Event Data Collection
- Road Works Warning – RWW
  - Lane Closure
  - Road Closure



# GIANICOLENSE PILOT AREA



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# GIANICOLENSE PILOT AREA



10 Traffic Lights  
Managed By UTC Omnia

6 RSUs

Connection to the C-ITS Server in  
the Mobility Centre through DSL  
proprietary line

RSUs connected to the SPOT units  
(Omnia field pc units)



# PORTA MAGGIORE PILOT AREA



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# PORTA MAGGIORE PILOT AREA



2 Traffic Lights  
Managed By UTC Omnia

2 RSUs

Connection to the C-ITS Server in  
the Mobility Centre through optic  
fiber

RSUs connected directly to the optic  
fiber



# EUR PILOT AREA

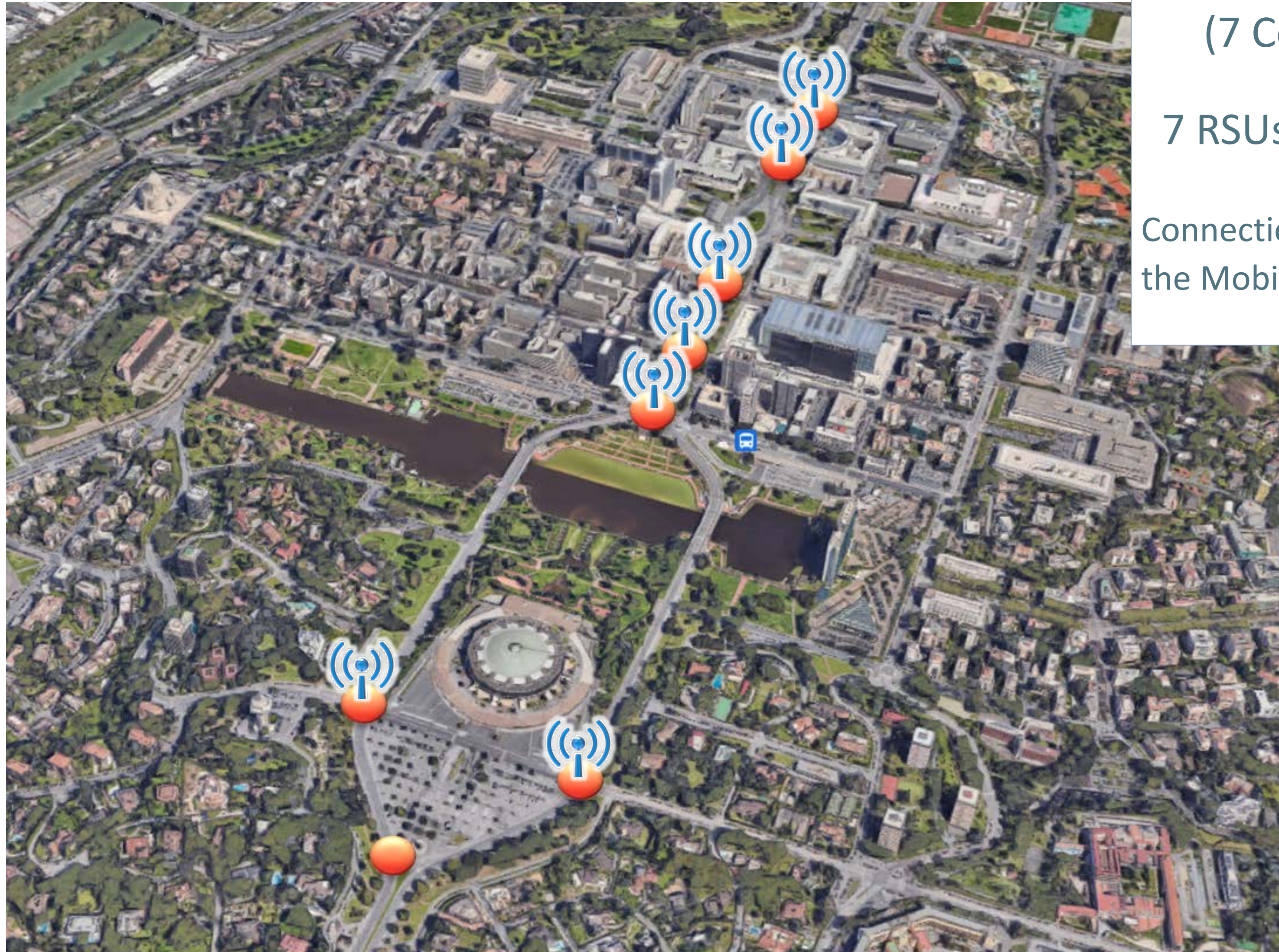


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# EUR PILOT AREA



8 Traffic Lights  
Managed By UTC Tmacs  
(7 Controllers)

7 RSUs

Connection to the C-ITS Server in  
the Mobility Centre through G5



# EUR PILOT AREA



Extraurban-Urban C-ITS services transition





**THANK YOU!**

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