

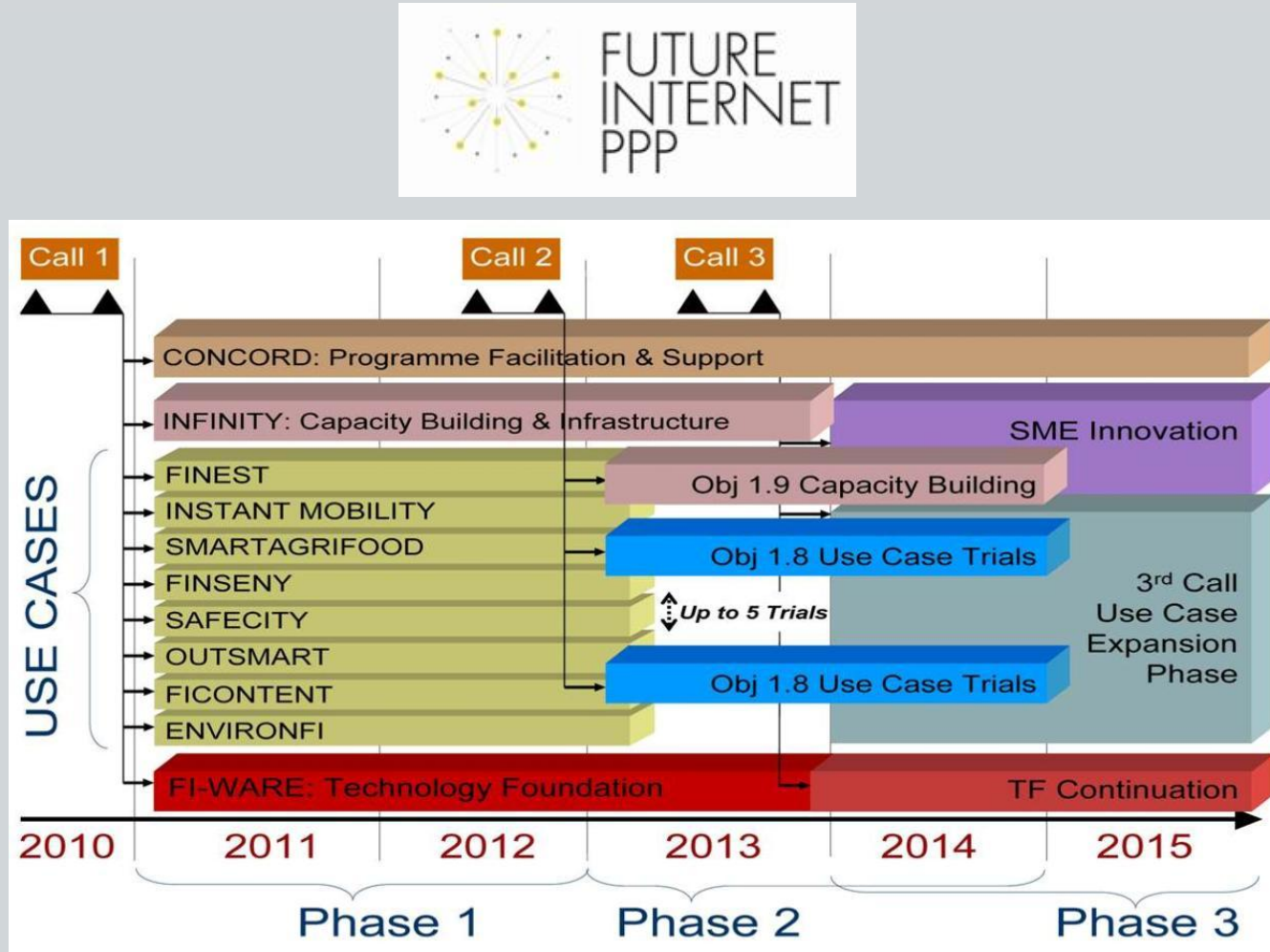
Future Internet for real-time planning and monitoring of multimodal trip

Gérard Scemama
08/11/2012



IFSTTAR

Future Internet EC research program : the Instant mobility (IM) project



Expected benefits and main issues for IM

FI benefits for IM :

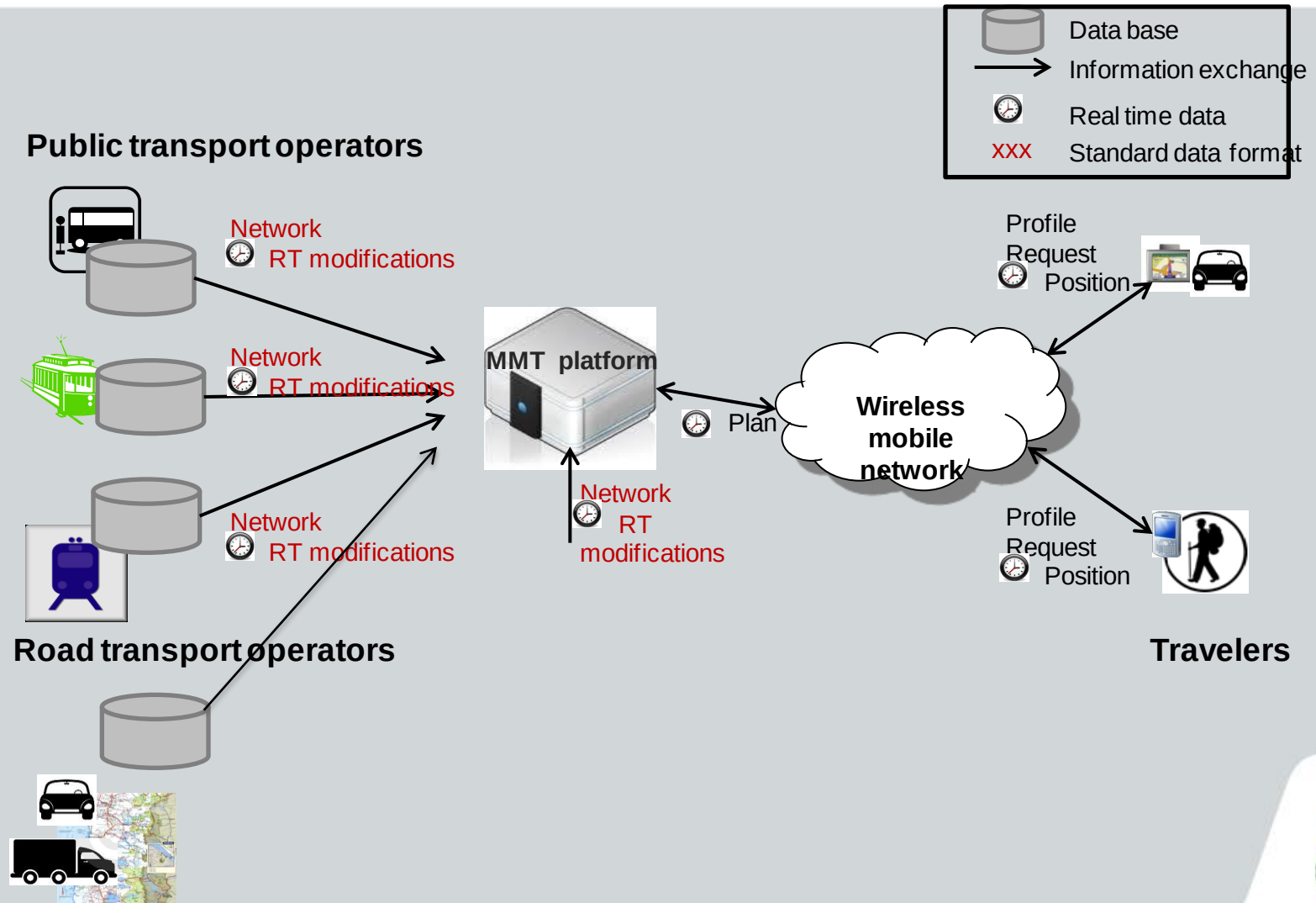
- guidance
- up-to-date info
- disturbances early notification
- ride sharing+
- ...

Issues :

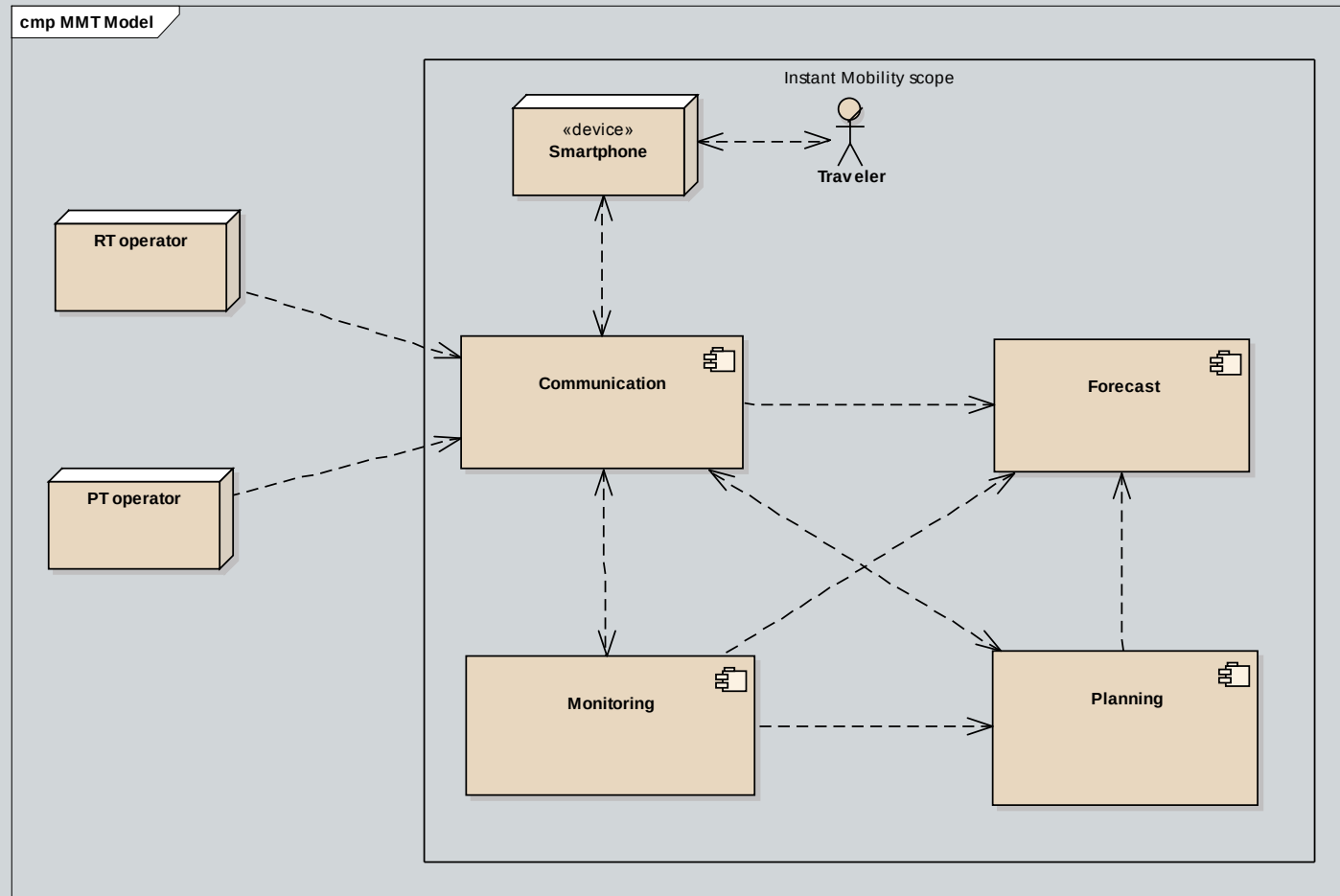
- Acceptability
- Performance
- Optimization
- ...



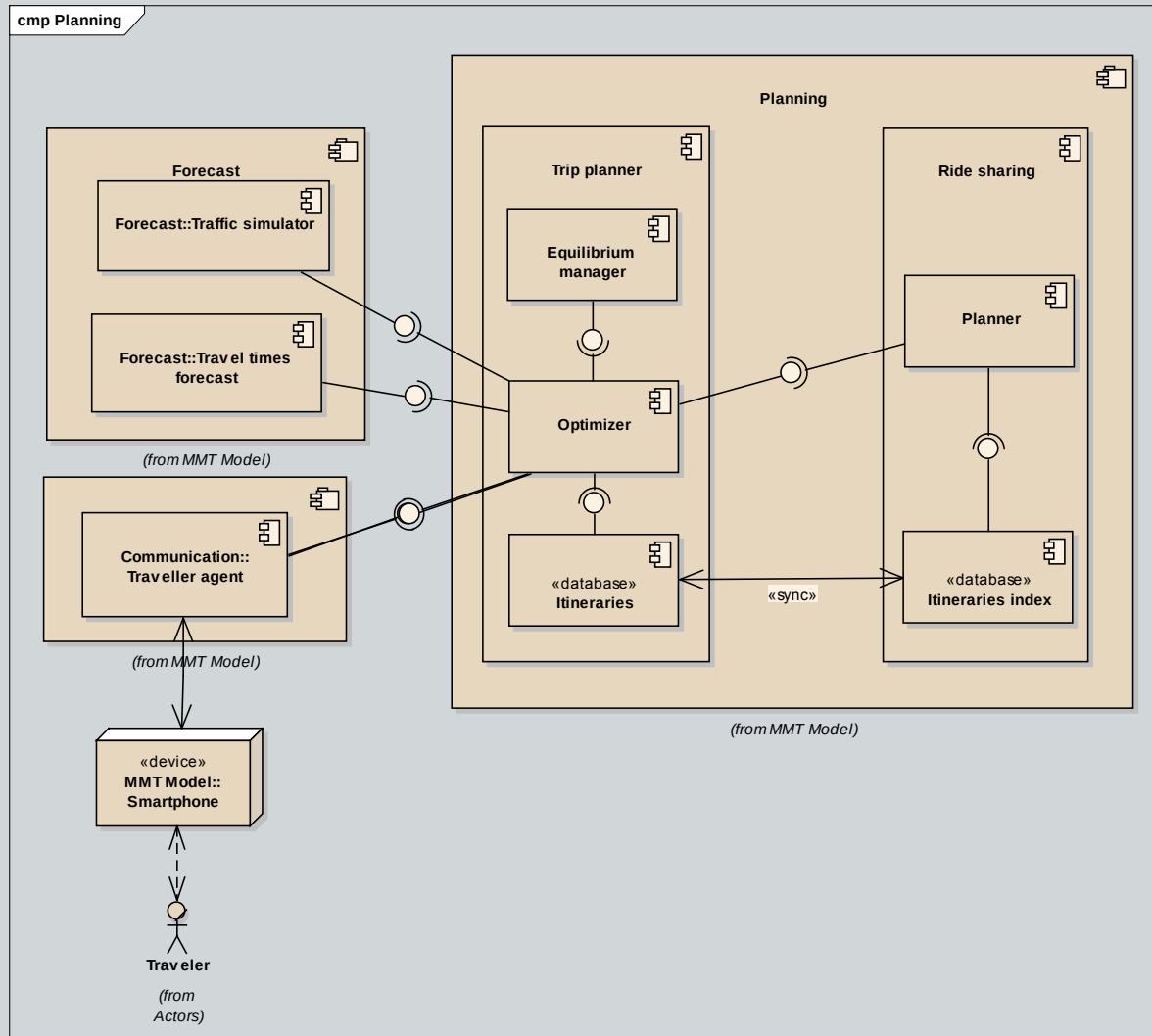
Multimodal Travel (MMT) platform public interface



Multimodal Travel platform (MMT) model

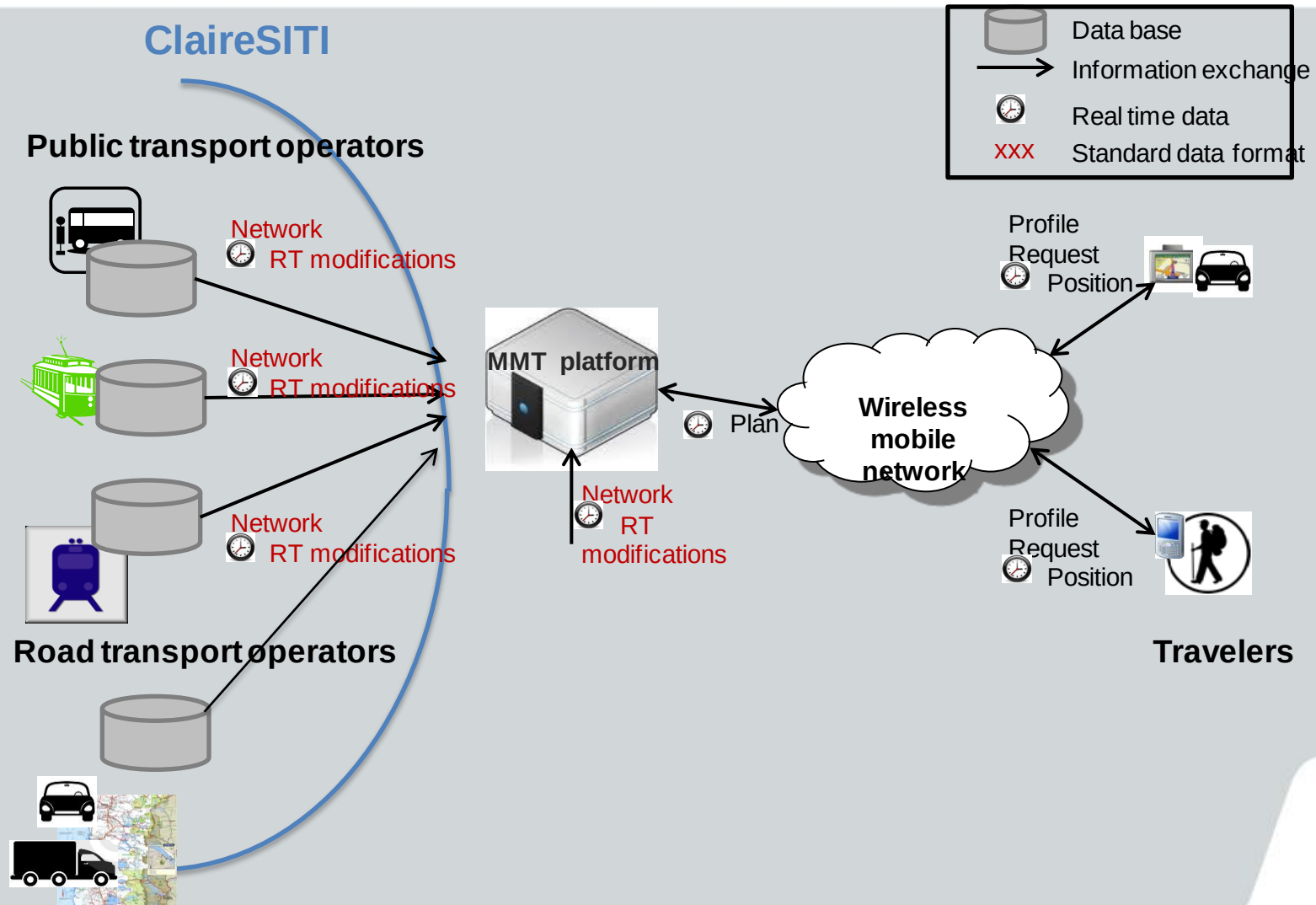


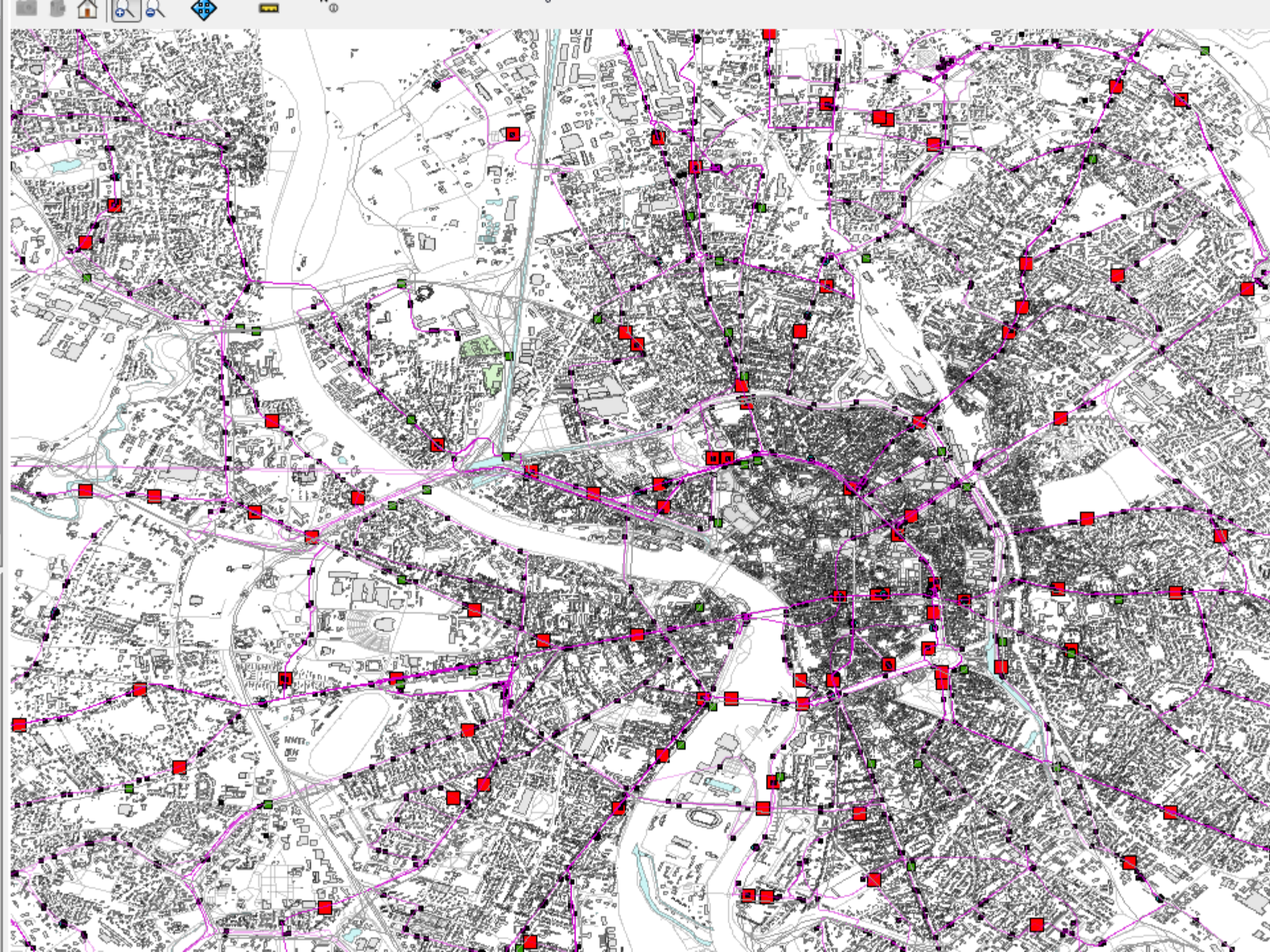
The planning model



the MMT platform demonstration : the development of a large scale multi-agents simulator.

ClaireSITI





Dimension of the demonstration

- The Toulouse conurbation
 - Main roads :13 227 (from Navteq maps)
 - Public Transport : 80 Lines, 359 itiniraries, 3 887 arcs
- 118 270 agents simulated with Repast simulation platform with its GIS tools:
 - 28 720 bus, 30 000 cars, 30 000 drivers, 30 000 passengers
- The distribution uses the Terracotta middleware
- The interaction uses Restful Web services
 - Exchanges between the simulator, the MMT platform, the different services (GUI, mobile application, on-board unit)

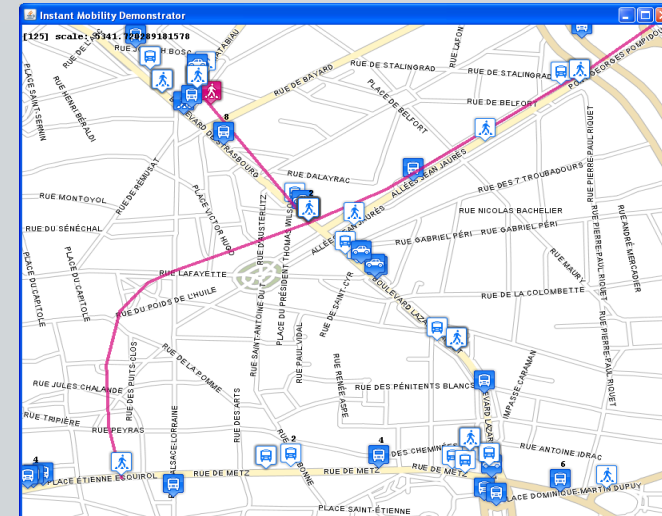


Demonstration configuration

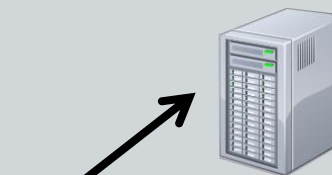
Onboard unit Phone app



GUI



Simulator + Platform



Drivers/Passengers
Matching



Instant Mobilty partnership

THALES



NICE
COTE
AZUR



Thanks for your attention

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