

SCOOP@F : French Cooperative ITS pilot (V2X)



















March 3rd 2015

Project figures



- Duration: 5 years (2 + 3) = 2014 - 2018
- Co-Funded by the EC for Part 1
- 3000 vehicles equipped
 - Road operators' vehicles
 - Renault and PSA passenger vehicles
- 2000 km of roads equipped with Road Side Units

Consortium

Coordinator	 
Consulting firms, university and research institutes	   
Car manufacturers	 
Road operators, local authorities	         



Two part Project

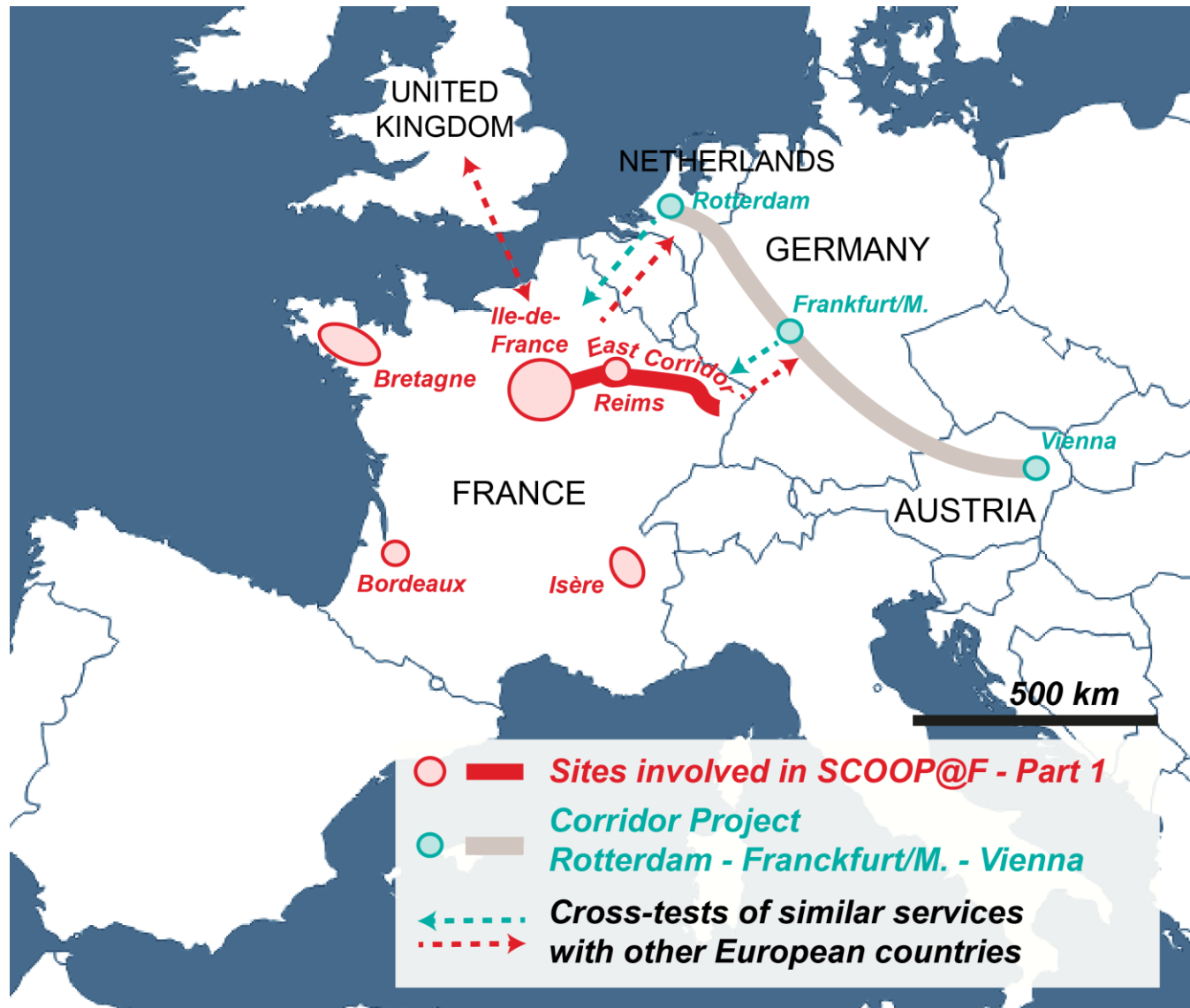
- Contents of SCOOP@F
 - Specifications, developments of on-board units and services
 - Implementation of the 5 pilot sites: deployment in vehicles and roads
 - Implementation of the validation and security structure
 - Experimentation of the services in pilot sites
 - Evaluation of the results of the pilot
 - Introduction of new services and possible extension of the pilot sites (more vehicles and roads)
 - Definition of a national road map for deployment of the first cooperative ITS services



Project Objectives

- Improving road safety
- Optimizing traffic management and efficiency
- Optimizing infrastructure management costs and developing new services
- Preparing vehicles of tomorrow
- Measuring the effects of SCOOP and a national deployment on these objectives

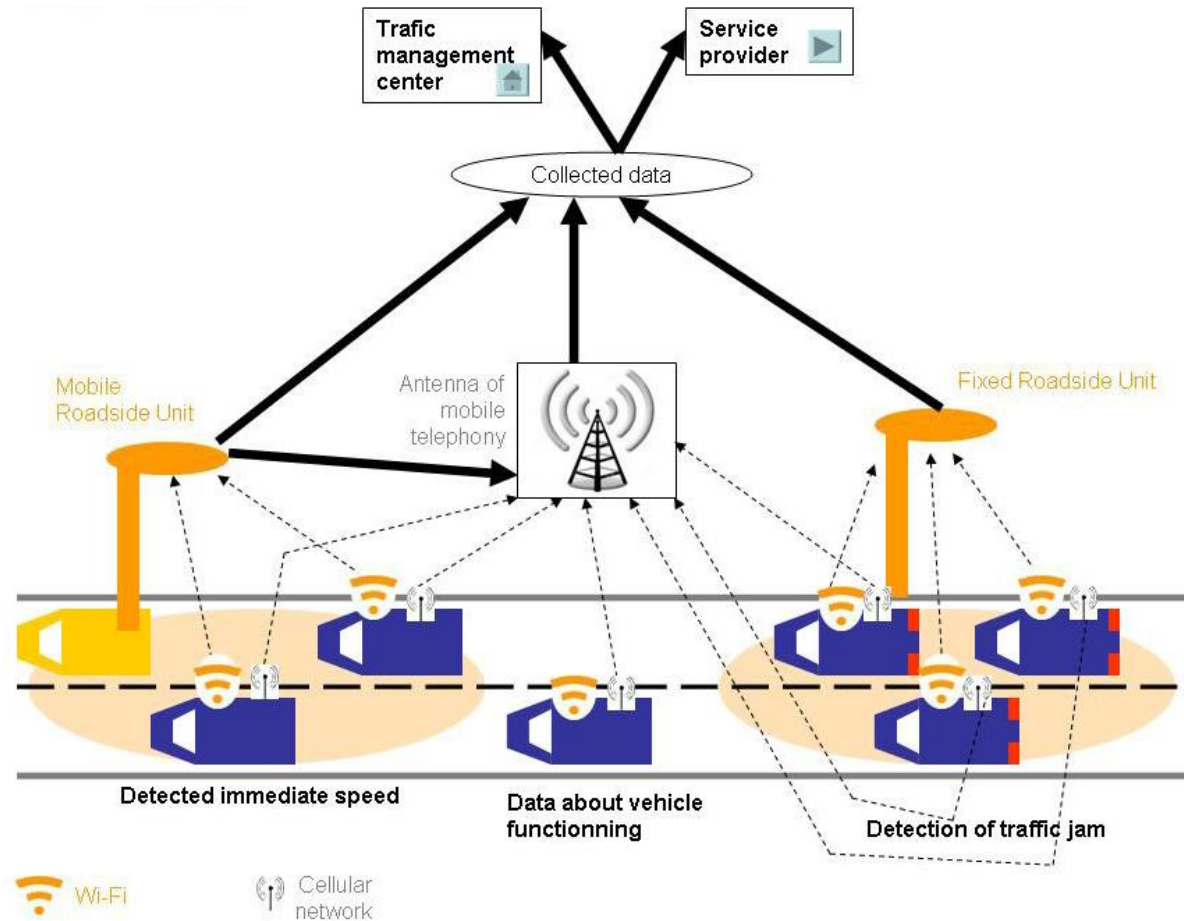
Where



- Hybrid communication based on:
 - Cellular networks
 - ITS-G5 at 5,9 GHz
- Studies are based on standards in particular:
 - CAM & DENM (Cooperative Awareness and Decentralized Environmental Messages)
 - RHS Road Hazard Signalling

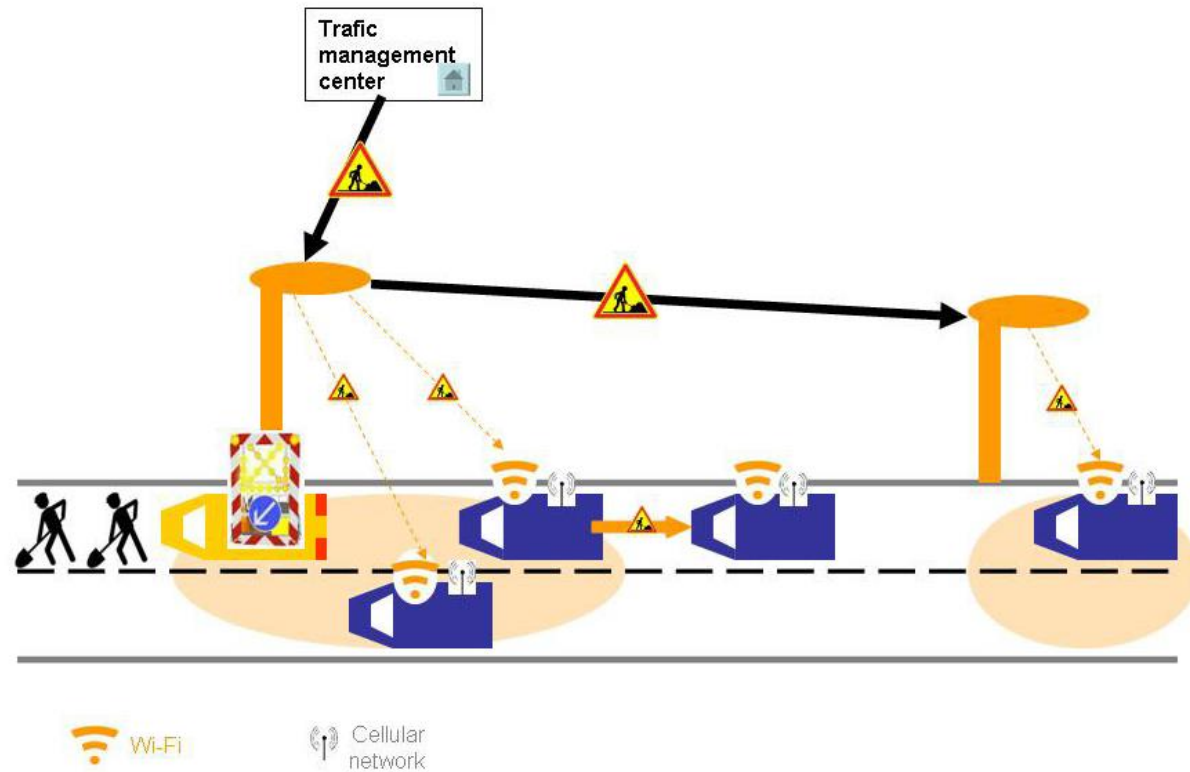
5 groups of Services

1. Collection of data
2. Road works alerts
3. On board Signalling
4. Traffic information
5. Park and ride



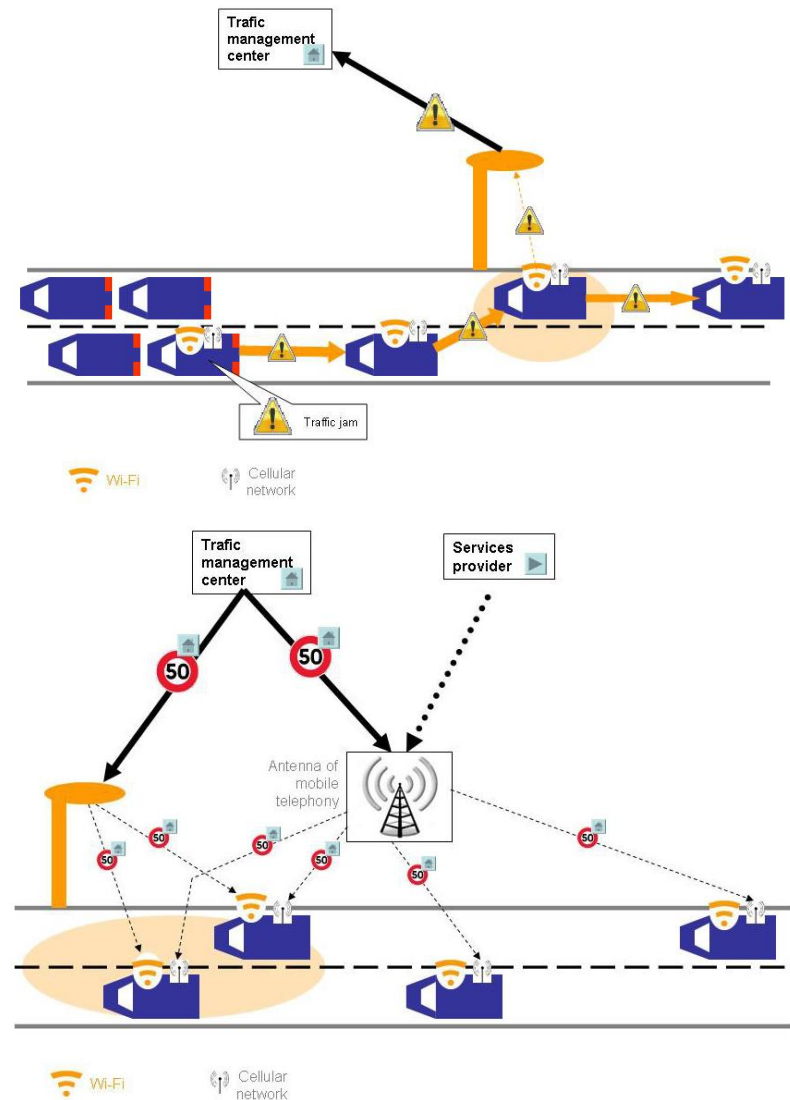
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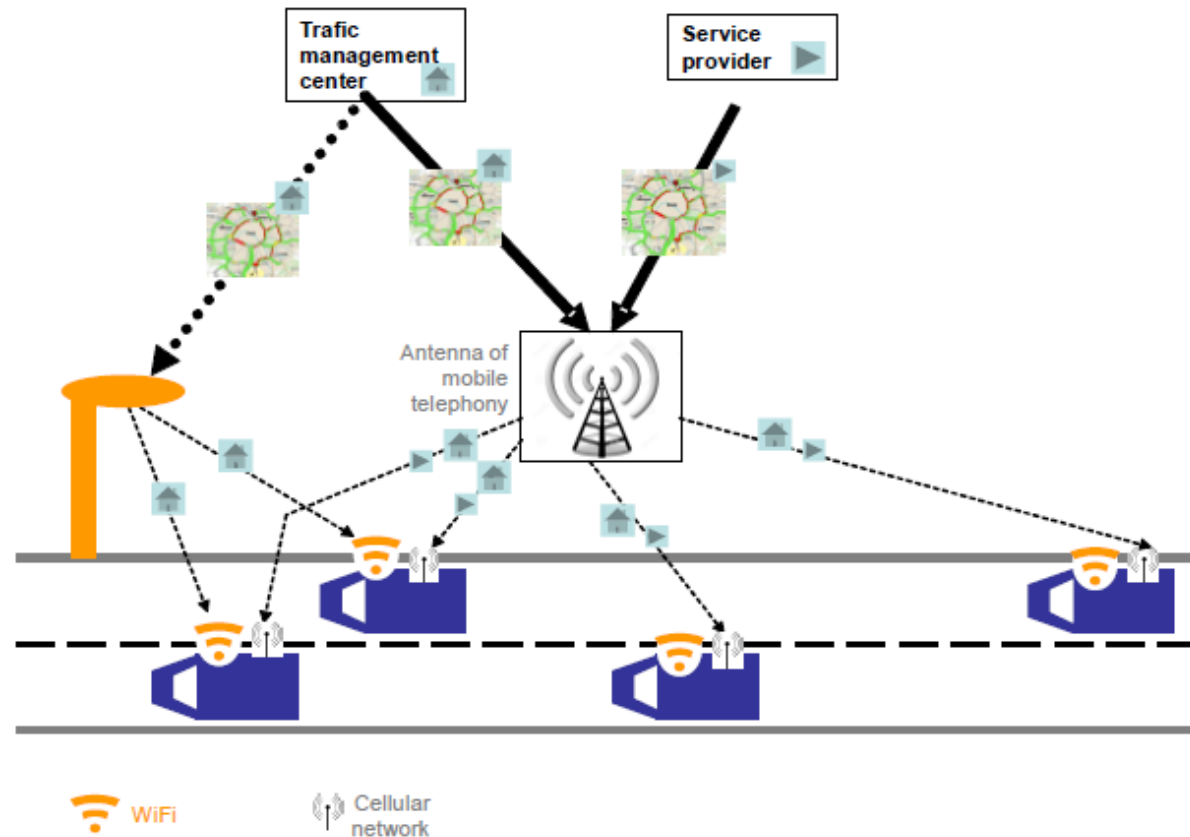
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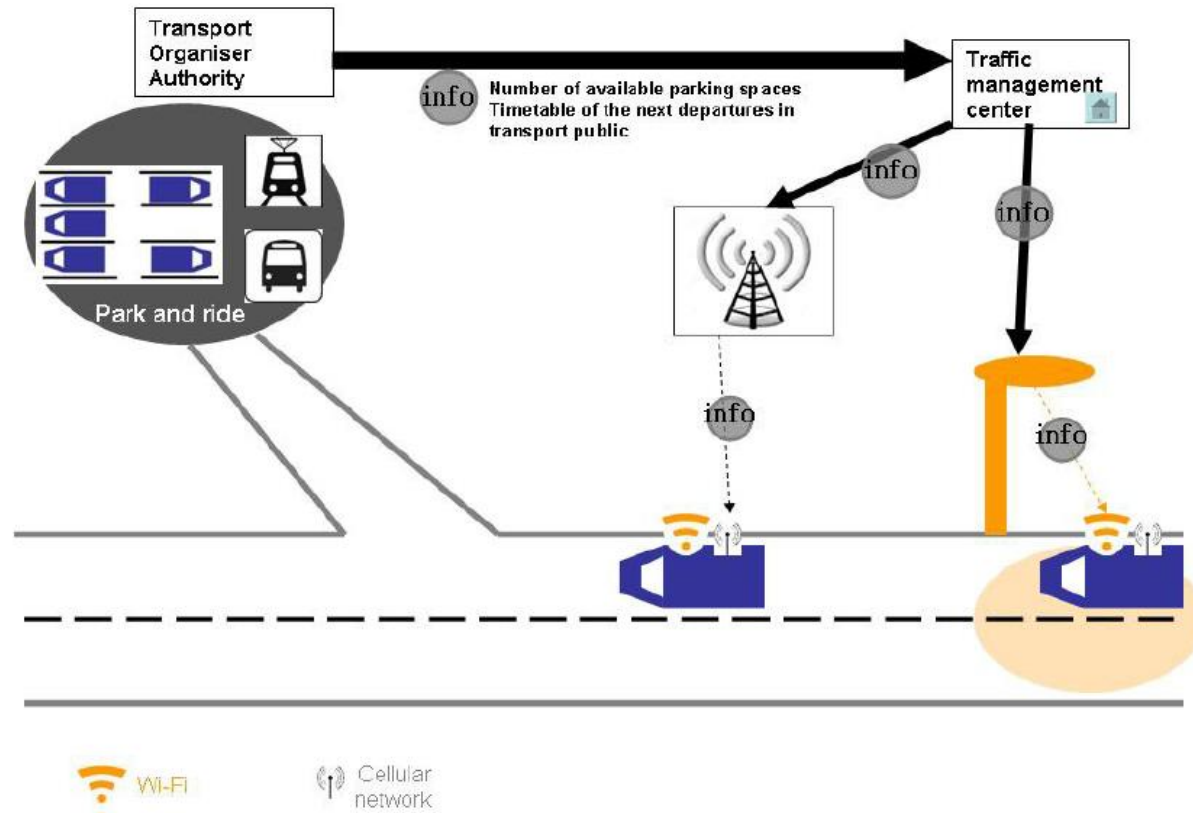
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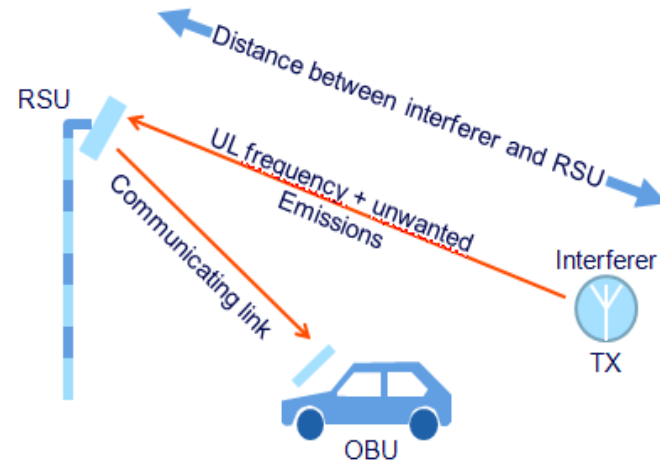
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Compatibility with external & legacy systems



Need to take into account other existing systems in order not to generate mutual interferences



ETSI has shown that ITS-G5 stations at 5,9 GHz generate interferences that could prevent DSRC systems at 5,8 GHz from working correctly. DSRC systems applications include Electronic Toll Collection, Weight in Motion, Enforcement, Chronotachygraph.

REAL LIFE



Interoperability



Communication