

# SCORE@F

The French FOT for road  
co-operative systems


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Place : ETSI ITS Workshop (Venice)

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- Experiment
- Use Cases
- Planing and contribution to Drive C2X

# Summary

- Duration: 30 months
- Start: 1° September 2010
- Total Budget: 5.6 M€
- Support: 2.7 M€
- Competitiveness Pole: MOV'EO
- 19 Partners
- Experiment on motorway and Urban / Rural environment in Yvelines department.

# Partnership

## Automobile



LEADER

PSA PEUGEOT CITROËN

**HITACHI**  
Inspire the Next

UTAC



## Road Infrastructure



@egis mobilité

**neavia** )))  
technologies

## Research Institutes

**EURECOM**  
Sophia Antipolis



## Telecom & Services

**senda**

**Viveris**  
Technologies

**DEVERYWARE**



**Intempora**

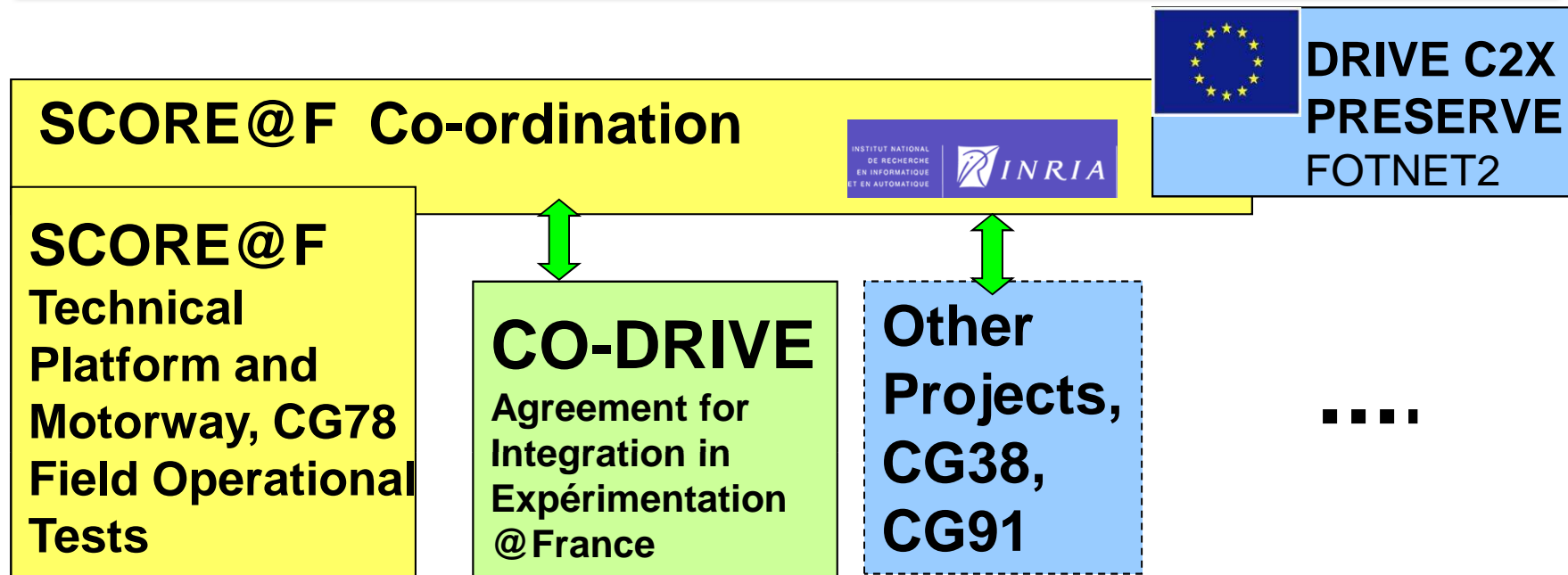
**MARBEN**

**ZELT**



**Yvelines**  
Conseil général

# Objectives



- Co-ordination of the French National FOT
- Validation of the standardized platform
- Field Operational Test on motroway & CG78 roads environments

# Experiment

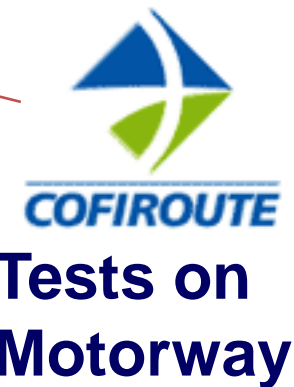
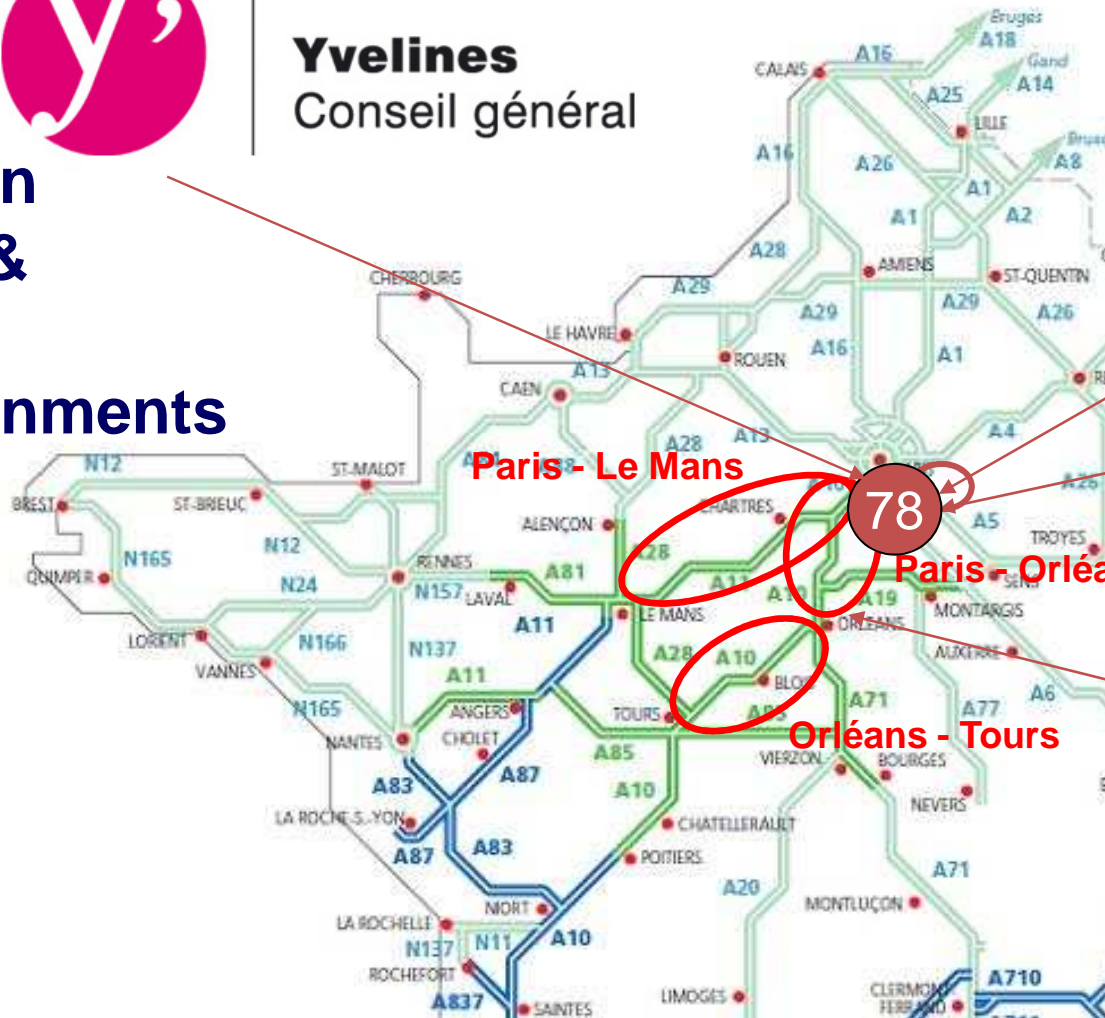


**Yvelines**  
Conseil général

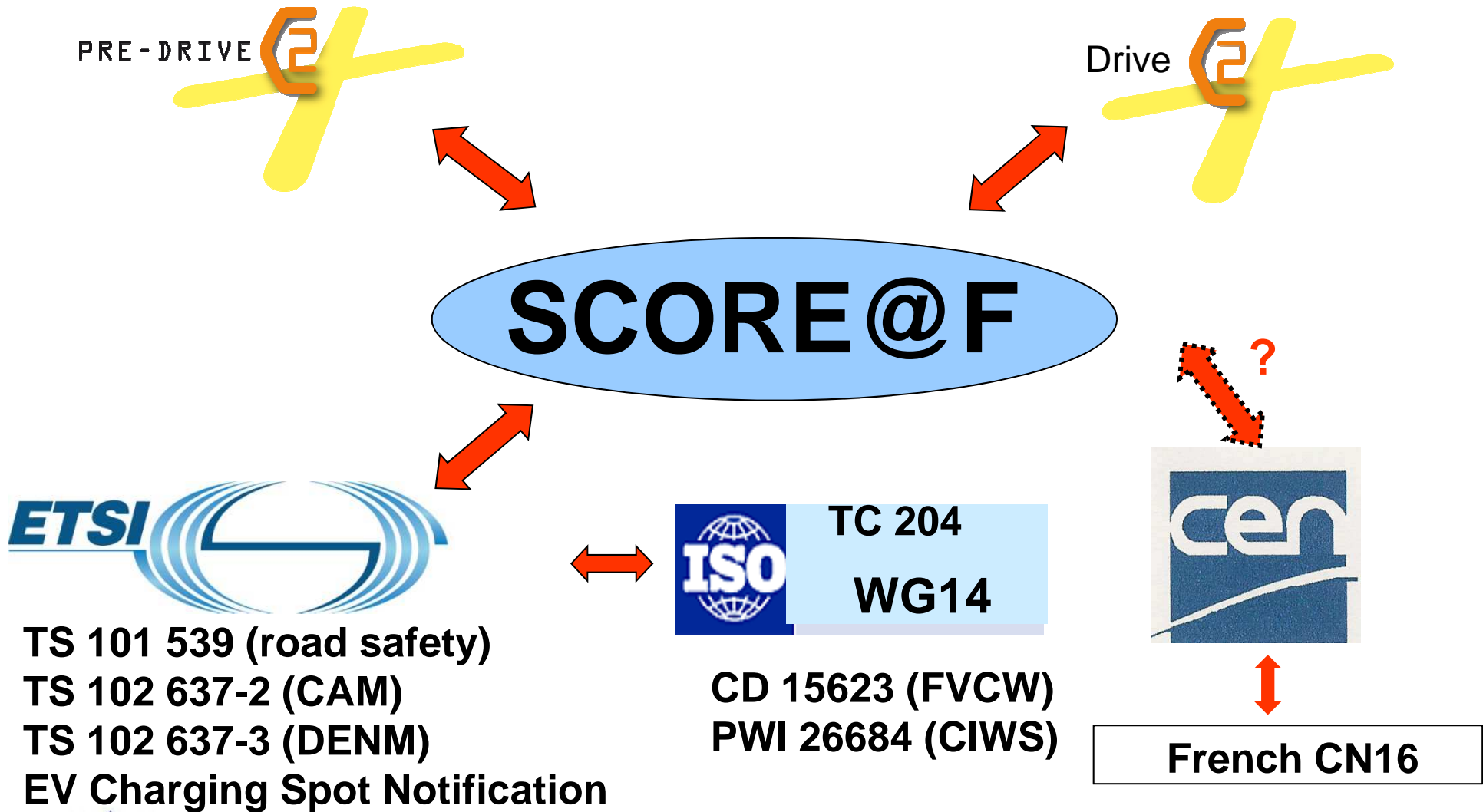
**Tests in Rural & Urban Environments**

**Validation / Certification UTAC**

**Satory Tests Circuit INRETS**

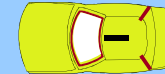
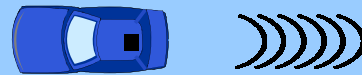


# Use Cases : Based on M/453



# Use Cases : Road Safety

Co-operative Awareness (V2V)  
(Info to driver)



ETSI TS 101 539 - 1

CAM & DENM

## Longitudinal Collision Risk Warning



Forward

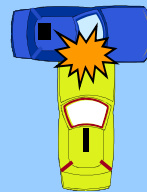


Frontal

ETSI TS 101 539 - 3

Longitudinal Alignment?

## Intersection Collision Risk Warning

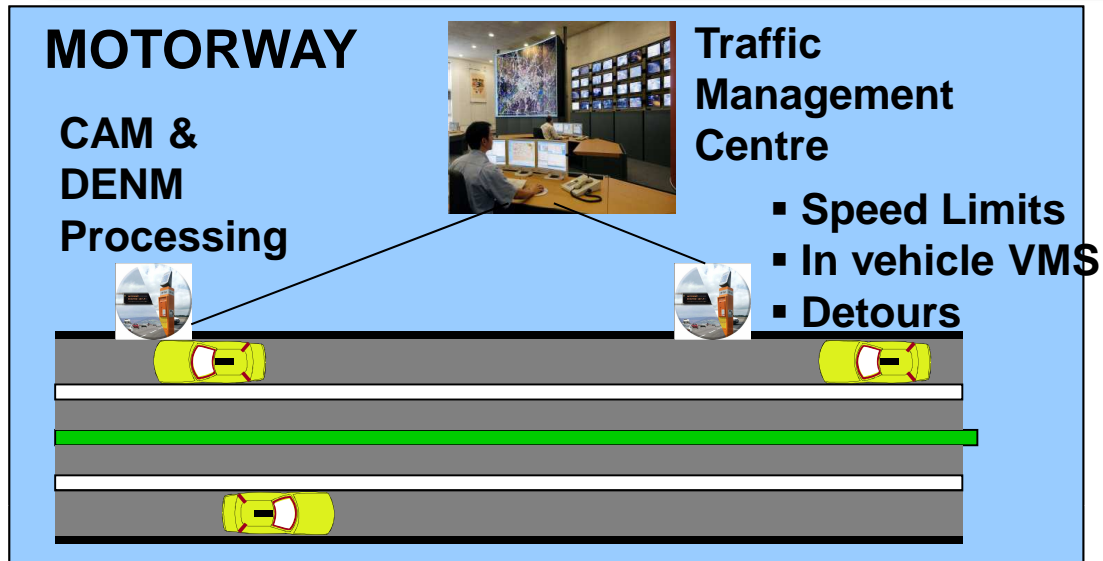


Lateral

ETSI TS 101 539 - 2



# Use Cases: Traffic Efficiency



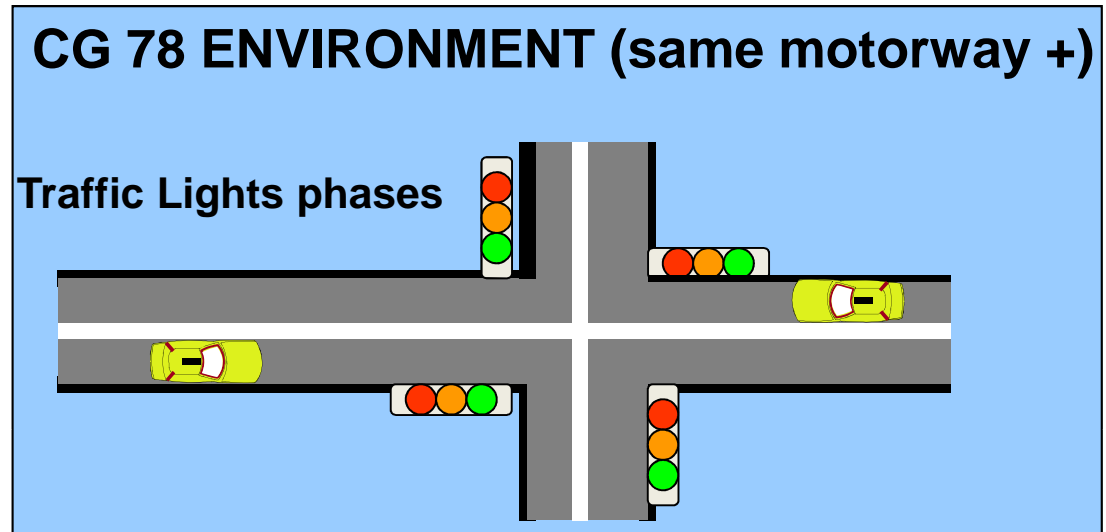
**French CN 16**



- Collect of traffic information by the road side units (SCORE@F: from CAM & DENM, CO-DRIVE: Video from cameras).
- Transfer of pre-processed traffic information to traffic management center.
- Adjustment of regulatory speed limits according to traffic context.
- Broadcasting to vehicles by RSU of contextual regulatory speed.
- Broadcasting to vehicles of traffic info and itinerary recommendations (VMS).

# Use Cases: Traffic Efficiency

- Traffic light violation
- Green light optimal speed advisory
- Engine Stop - Start



**Traffic Light messages broadcasting:  
either CAM evolution or new  
Message?**



**Common use case EU – USA?**

# Use Cases: Comfort & Mobility

## Point of Interest Notification & Electronic Commerce

- EV Charging Spot
- Auto Sharing Point
- Intermodality Transport Point

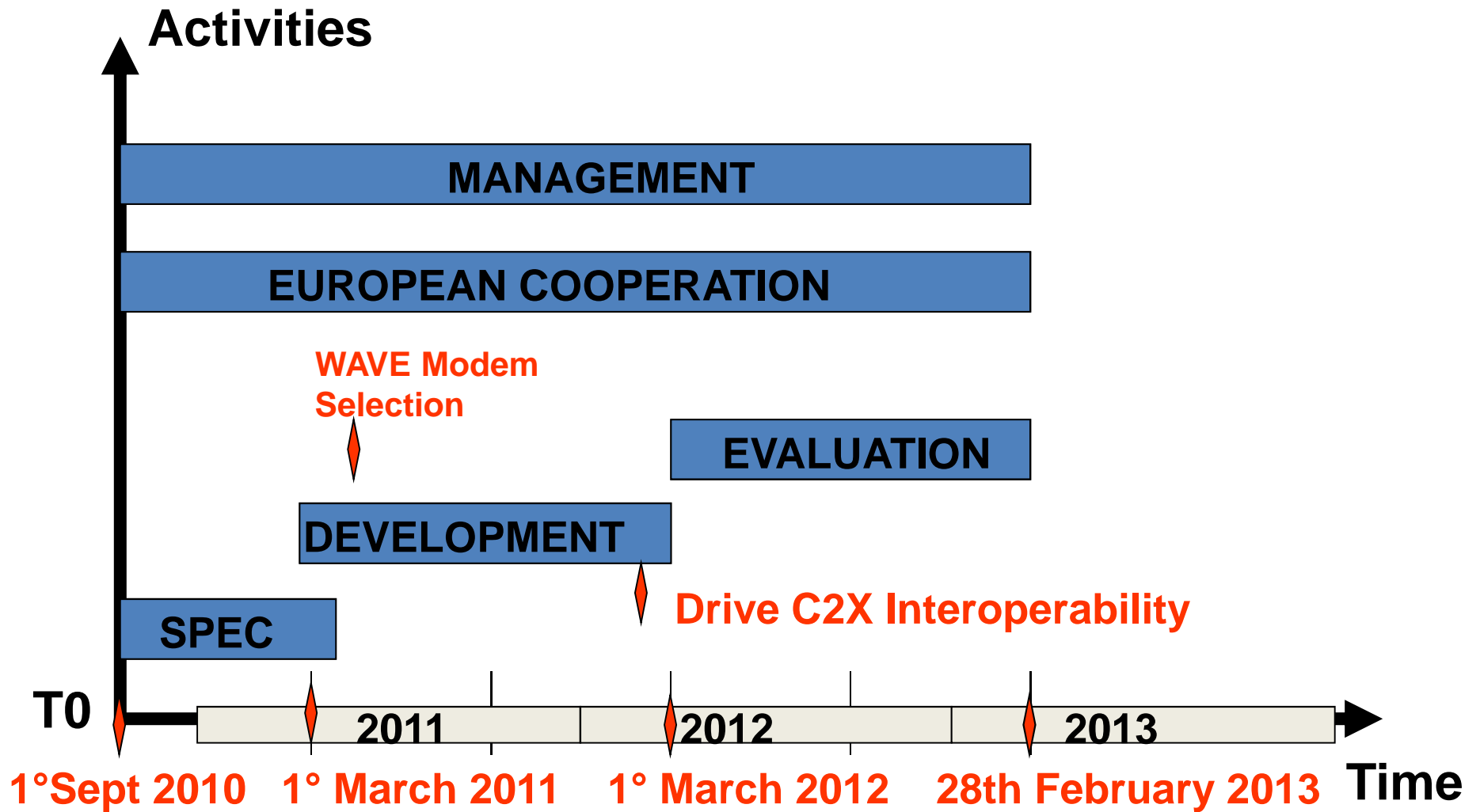


## Internet access as guest of a community

- Fleet Management



# Planning



# Contribution to Drive C2X

- **Some common use cases**
- **Updates from standards**
- **Interoperability tests in Helmond**
- **Data collection according to FESTA / FOTNET 2 methodology**
- **Exchanges of assessment results (technical and non-technical)**
- **Cross experiments**



# Thank you

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RENAULT Connectivity  
Advanced Engineering

