

M2.0

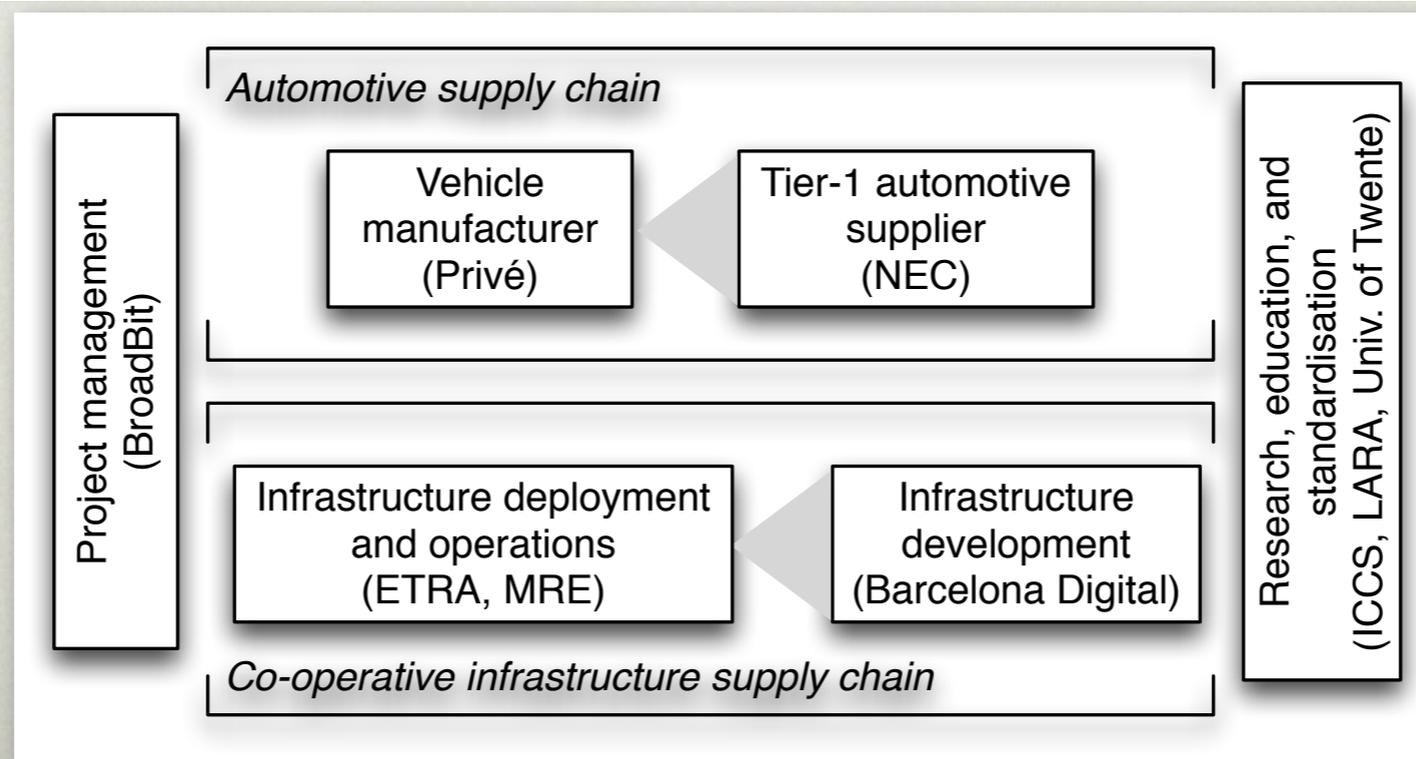
MOBILITY2.0

PROJECT PRESENTATION

EGCI Clustering Event
2012 July 11-12, Brussels

MOBILITY2.0 CONSORTIUM

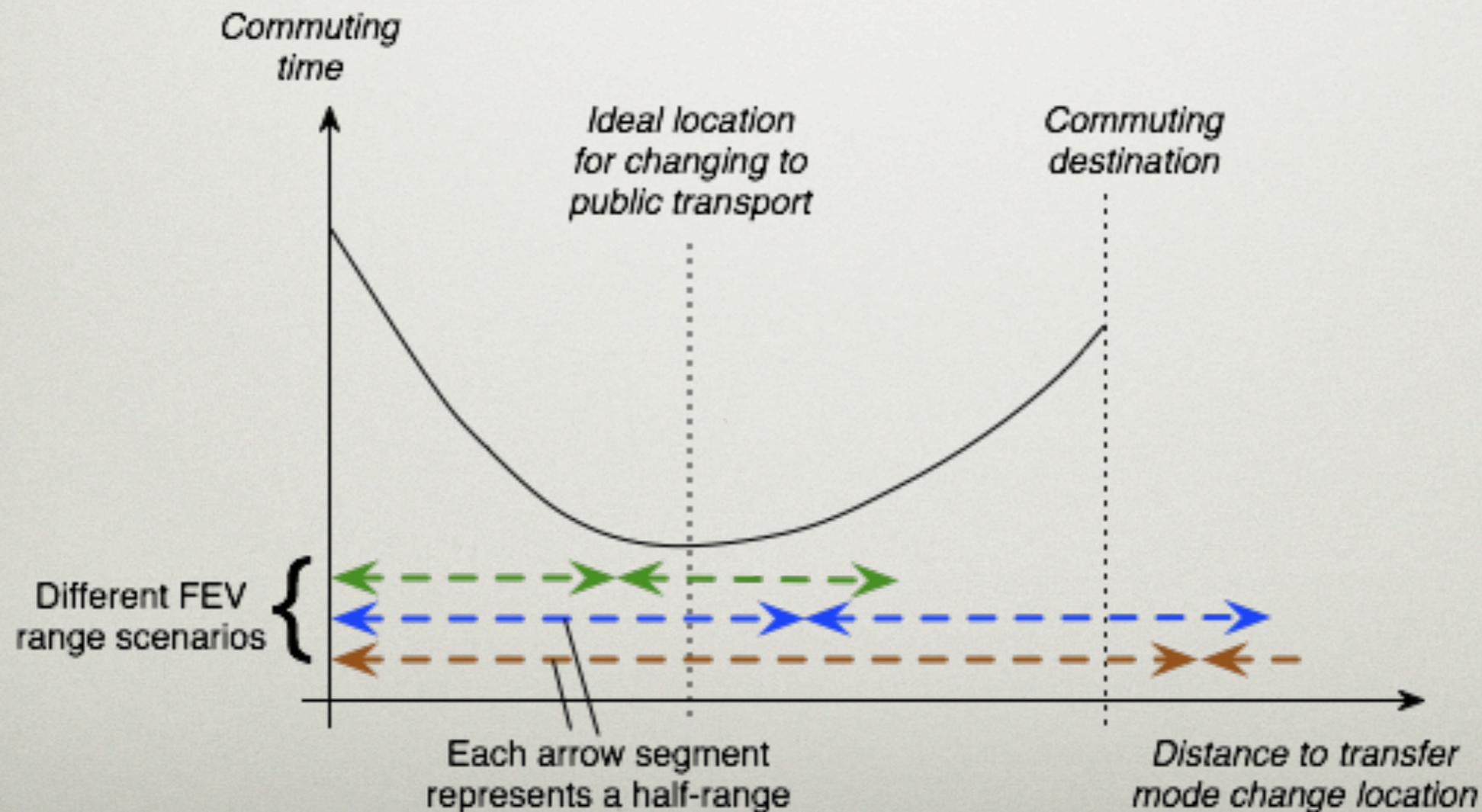
Participant no.	Participant organisation name	Participant short name	Role
1 (Coordinator)	BroadBit Slovakia	BB	Coordinator
2	ETRA	ETRA	Infrastructure supplier
3	Fundació Privada Barcelona Digital Centre Tecnològic	BD	Transportation management SW supplier
4	ICCS	ICCS	Research institute
5	Municipality of Reggio-Emilia	MRE	Municipality
6	LaRA Joint Research Unit / Armines	ARM	Research institute
7	University of Twente	UT	Research institute
8	Privé	PR	Vehicle manufacturer
9	NEC Europe Ltd	NEC	Automotive supplier



MAIN PROJECT OBJECTIVE

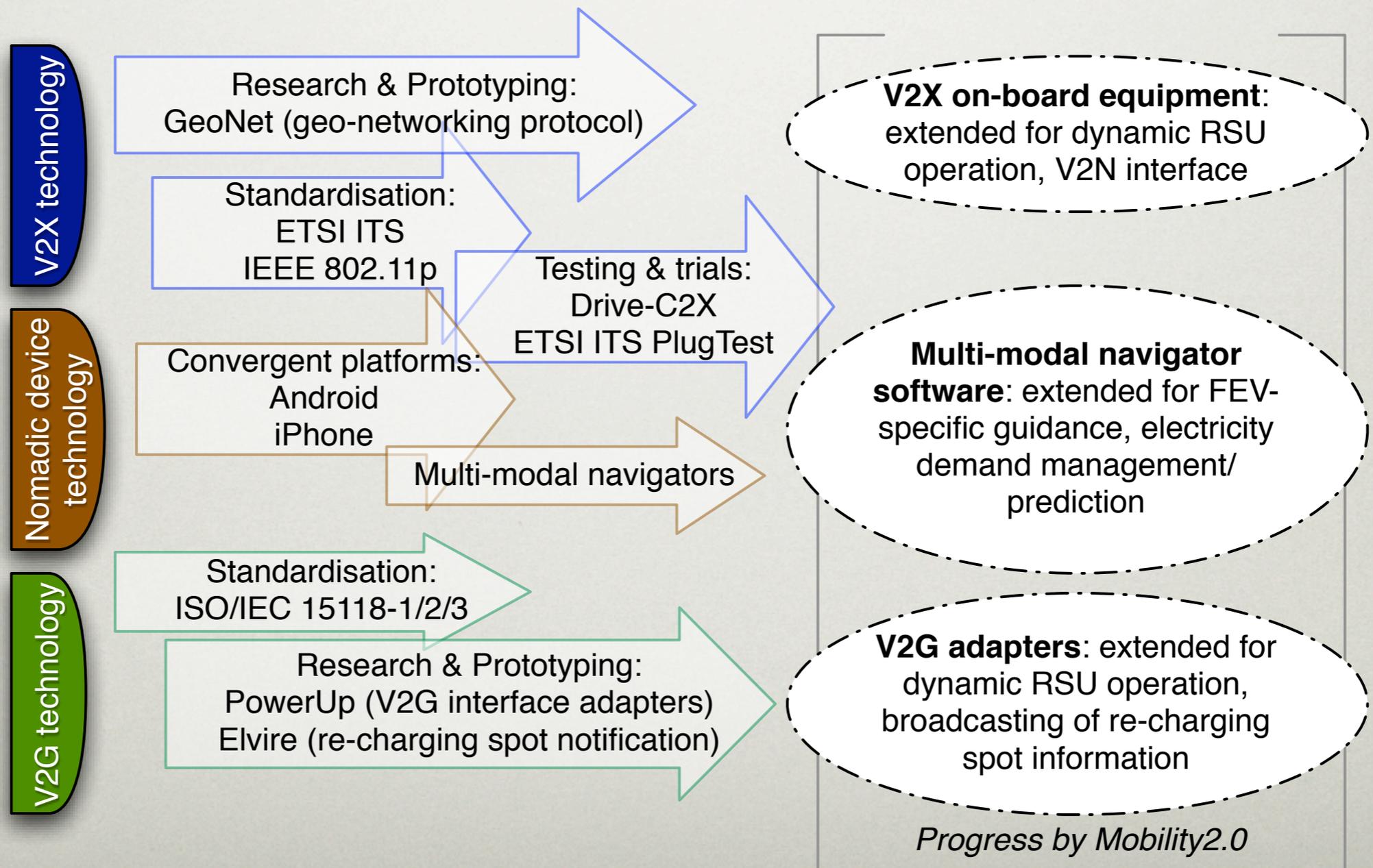
Mobility2.0 shall primarily focus on the **development of co-operative commuting assistant for FEVs**. This guidance application shall:

- Optimize overall commute time
- Intelligently manage priorities at public recharging spots
- Facilitate traffic peak mitigation through dynamic electricity pricing



USE OF CONVERGENT TECHNOLOGIES

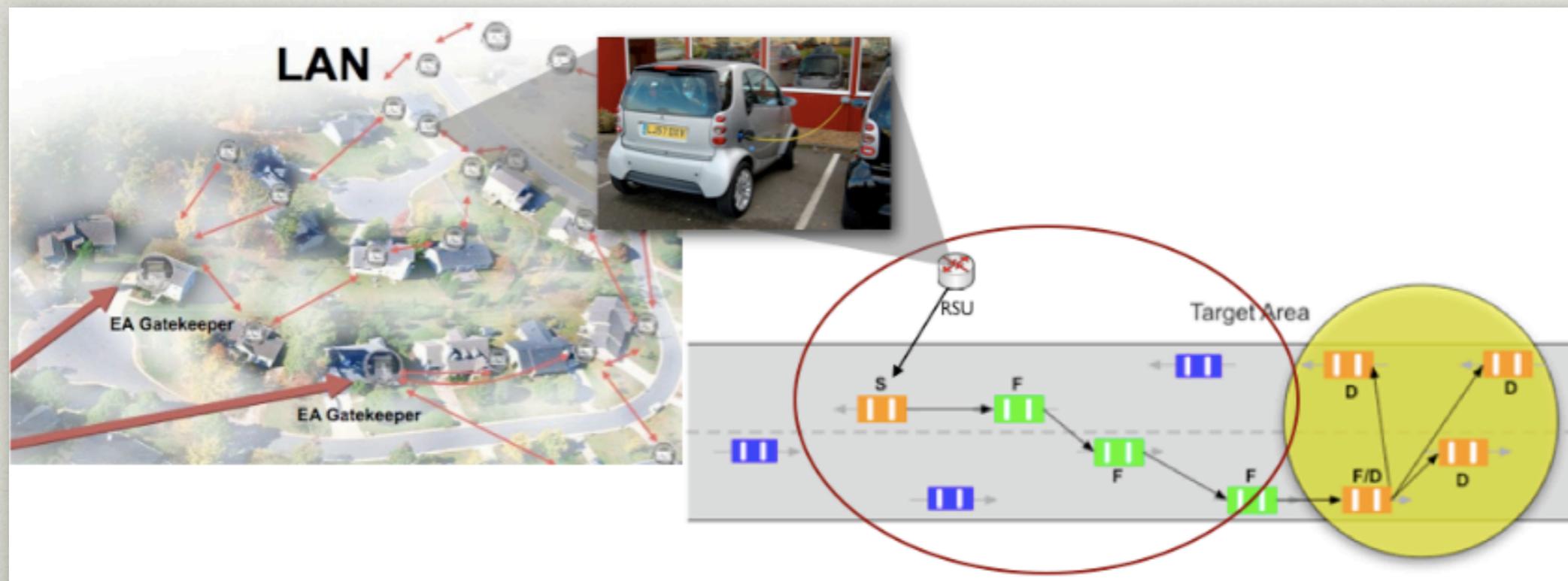
Mobility2.0 will extend standardised V2X and V2G technologies for its aims. The application layer and HMI will be based on nomadic devices, through the use of convergent device platforms.



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USE OF PLUGGED-IN FEVs FOR 5.9 GHz INFRASTRUCTURE

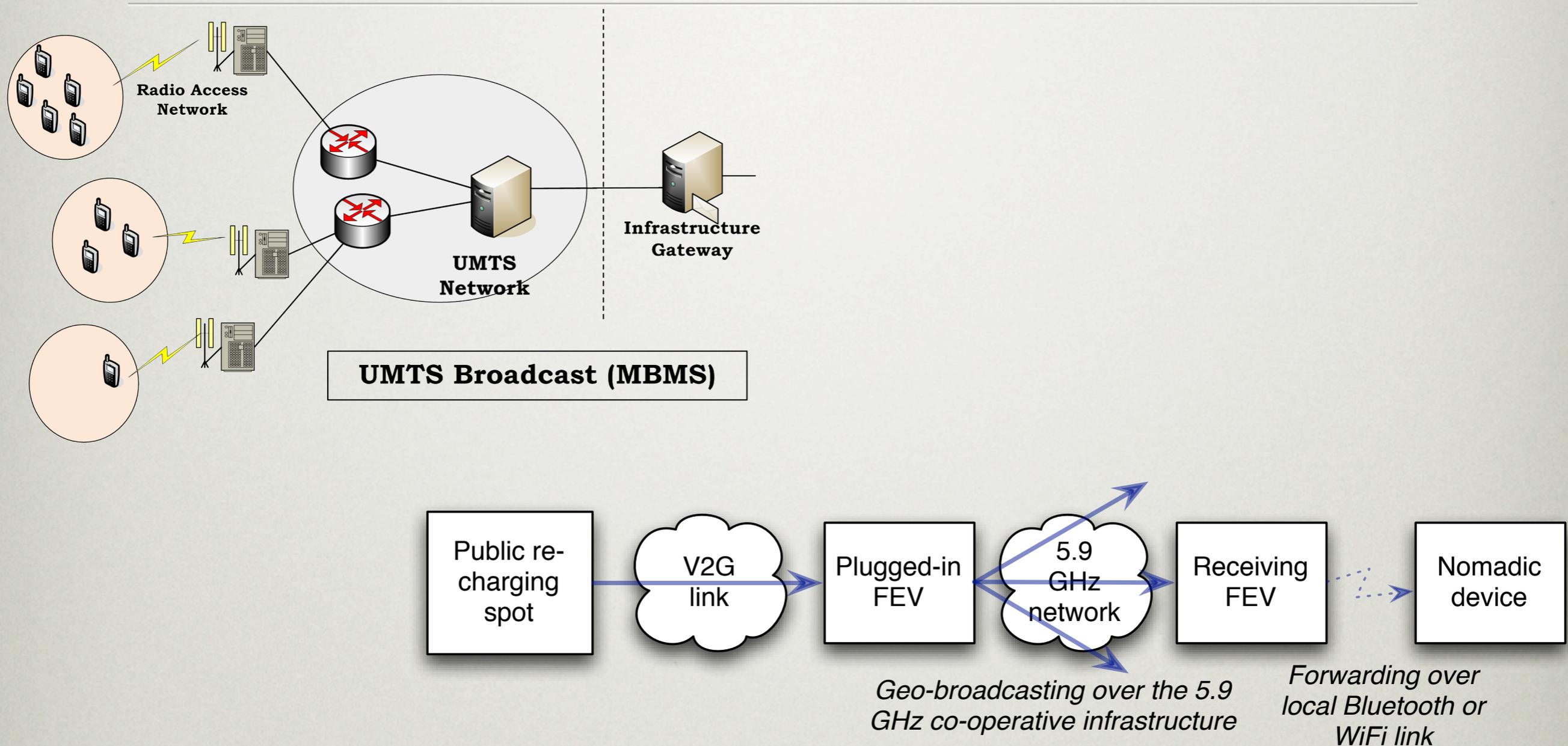
A major deployment challenge for the realisation of large-scale 5.9 GHz co-operative vehicle-infrastructure systems is revolving around the effort and costs of deploying road-side communications units (RSUs). However plugged-in FEVs can serve as RSUs, maintaining infrastructure connectivity through their V2G interface and the IPv6 based smart-grid, and thereby resolving / mitigating this deployment challenge.



Mobility2.0 will specify and prototype such solution

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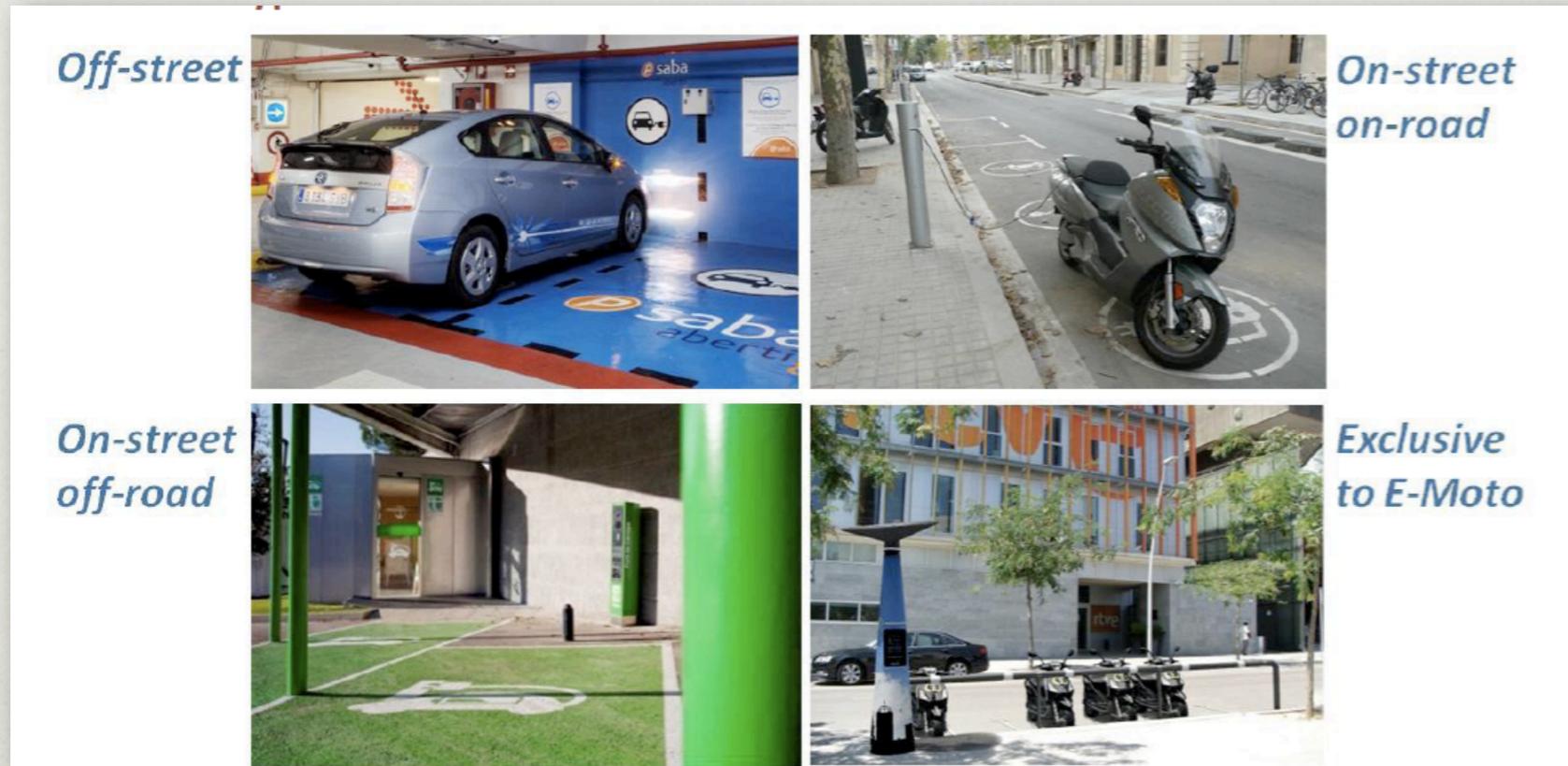
EFFICIENT BROADCASTING OF FEV RECHARGING SPOT DATA



The use of UMTS/LTE and 5.9 GHz technology based broadcast solutions will be developed for scalable FEV recharging spot notification.

TEST SITE PLANS

There will be two test site locations in Mobility2.0: Barcelona and Reggio Emilia.



Barcelona test site:

- about 6 municipal FEVs participate in the tests
- about 200 public re-charging spots available

Reggio Emilia test site:

- about 5 municipal FEVs participate in the tests
- 2 FEVs will be used for testing integration of in-vehicle interfaces
- 6 re-charging spots will be installed

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THANK YOU FOR THE ATTENTION!

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Coming project web-site:
<http://www.mobility2.eu>