FABRIC

Feasibility analysis and development of on-road charging solutions for future electric vehicles

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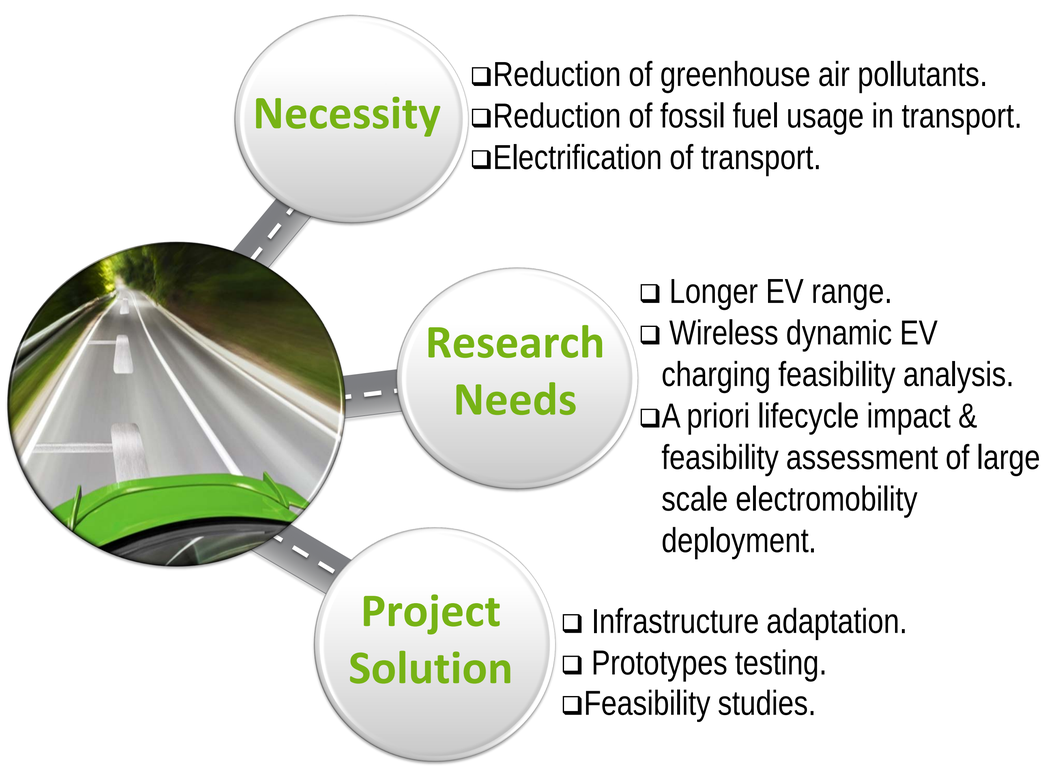
Motivation, Objectives & Timeline

FABRIC assesses the technological feasibility, economic viability and socio-environmental impact of dynamic charging of electric vehicles (EVs).



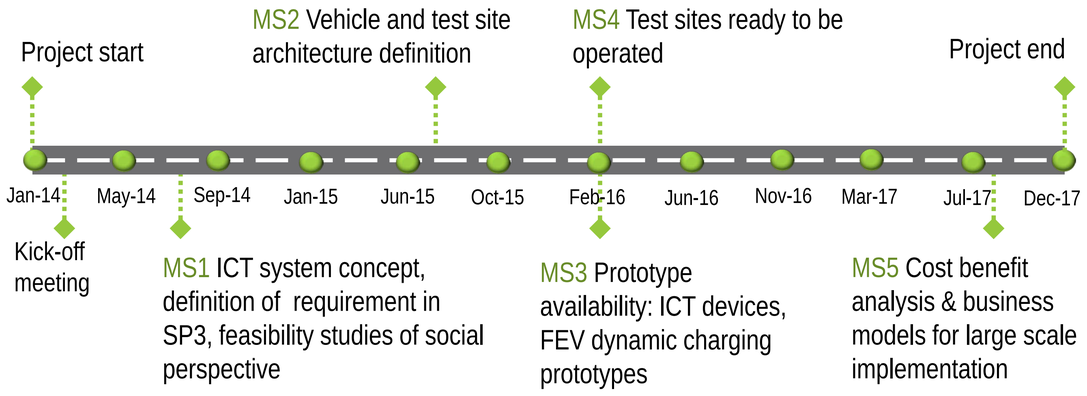
Objectives

✓Development and testing of advanced ICT and charging solutions;

✓Sustainable integration with road and grid infrastructures specifications;

✓Long-term socioeconomic impact and feasibility studies for large scale electromobility implementation.

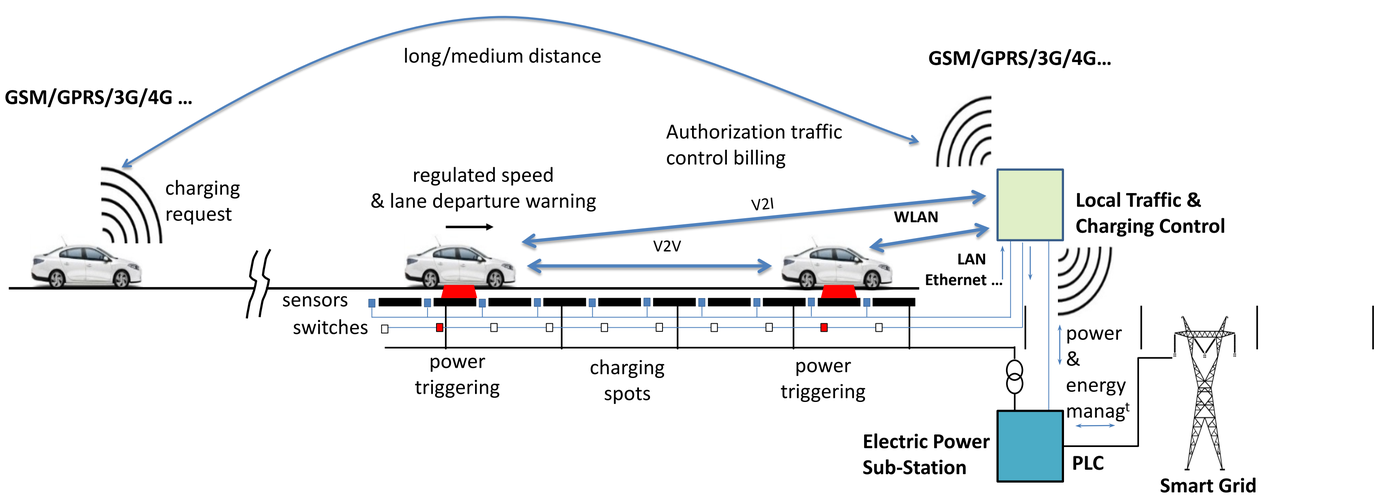
Timeline



Technical Approach

In order to assess the technological feasibility and long term viability of FEV wireless dynamic charging solutions and the large scale deployment of electromobility, adapted EVs, ICT and wireless power transfer solutions, road and grid infrastructures will be integrated in three FABRIC test sites in Italy, France and Sweden.

Testing and validation of prototypes will be performed to feed a thorough feasibility analysis and impact assessment with respect to the users, the society and the environment.



Achievements

The FABRIC expected achievements are:

✓Hands-on experience in developing on-road EV charging systems;

✓Development prototype EV wireless stationary and dynamic charging modules;

✓Study of the EM safety aspects;

✓Experience in the connection with the grid and road infrastructures;

✓Feasibility study for the long term implementation of dynamic charging solutions.

Main results achieved so far:

✓SotA and technical benchmarking of ICT and FEV charging solutions;

✓FABRIC use cases;

✓Contribution towards standardization of FEV charging modes definitions;

✓Collection of requirements from road authorities, vehicle manufacturers, DSOs;

✓Existing FEV charging solutions market readiness study.

Project Facts

Budget	9 M€	**Funding**	6.5 M€
Duration	48 months	**Start**	1 January 2014
DG / Unit	Research and Innovation	**Contract n°**	605405
Coordinator	Angelos Amditis, ICCS	**Contact**	a.amditis@iccs.gr

Partners 23 partners from 9 European countries: ICCS, CRF, ERTICO, TRL, KTH, VOLVO, SCANIA, TNO, VeDeCom, CIRCE, QIE, IREN, FKA, TECNOSITAF, ENIDE, POLITO, UNIGE-DITEN, SAET, SaNeF, CEA, ATA, AMET, MECT

Supported by: EUCAR EUROPEAN COUNCIL FOR AUTOMOTIVE R&D; ERTICO ITS EUROPE

This project has received funding from the EU's FP7 for research, technological development & demonstration under GA no 605405