

Interconnecting Electric Vehicle Infrastructures Roadmap (EV-CONNECT)

Summary

Today Europe faces one of its main challenges, how to shift from fossil fuel mobility to electric one. Hitherto initiatives did not go down well with European drivers who are deeply concerned about climate change but the current offer is not reliable at all according to their expectations. Many improvements have been made, though their implementations are still far from what it is expected.

Range anxiety is one of the main factors that hold back drivers from making the purchasing decision. While there are approximately 131,000 petrol station network in the EU tanking over 230 million cars in 2-3 minutes, there are only 3,071 charging stations in Western Europe. Moreover most charging stations are irregularly and randomly distributed, mainly in large urban areas which coverage is invisible to customer's eye. Planning a route from town to town entails a real adventure.

As a matter of fact, EV drivers demand a new business model since they have different needs. For instance, it is common that drivers tank their internal combustion engine (ICE) vehicles before starting a trip in the petrol stations located in the city's entrances. This is unthinkable for an EV driver to stop for charging its vehicle during five hours or, in the best situation, 30 minutes with DC charging stations. Thus there is no doubt that it is necessary to develop a new business model according to the new scenario.

In this regard, **EV-CONNECT roadmap aims to develop a strategic roadmap, in collaboration with key stakeholders, with the purpose of shifting from the current random and isolated charging infrastructure to interconnected charging networks based on market demands.**

Members of the Consortium and their role in the project:

Associazione Tecnica dell'Automobile (ATA) will analyze the state of the art doing a special focus on new technological innovations that could facilitate the market uptake of EV. ATA will coordinate the Community of interest because of its links to the automotive industry and transportation authorities. Additionally, they will participate in the workshops and will organize one of them in Turin. At that moment, ATA collaborates with ASCAMM carrying out the TECHMEV project which aims to develop and accreditation system to standardize training in maintenance and reparation operation for Hybrid and electric vehicles.

Vrije Universiteit Brussel (VUB) will participate analyzing the EV infrastructure market and develop a set of indicators in order to evaluate the progress of the action foreseen in the roadmap. In addition, they will participate in the workshops and will organize one of them in Brussels. VUB has a wide experience in collaborative projects especially in the field of EV. At that moment, they are carrying out a FP7 project and two regional projects funded by the Flemish government related to the deployment of the EV.

ASCAMM Private Foundation (ASCAMM) has been selected as project coordinator, will create the methodology to develop the roadmap, organize one of the workshops and collaborate in the state of the art and market analysis. ASCAMM has a wide experience as a coordinator and has participated in European funded programmes for over fifteen years. For instance, in FP7 the tech center coordinated 41 projects and participated in 14. ASCAMM personnel are responsible for the day-to-day coordination and administration and the project partners support management.