

UNPLUGGED participated in the international symposium and exhibition of electric vehicle - EVS27

[November 2013]

The challenge of developing inductive charging technology on the track is taking account the growing demand for electric vehicles EV, allowing a better social acceptance of electric vehicles and the necessary infrastructure, improving and demonstrating progress in safety, comfort, ease of use, less impact on the urban landscape and a better resilience to vandalism, users as well as users feeling of freedom (one of the main reasons that consumers purchase those vehicles).

Barcelona was the world capital of the electric vehicle the last November 2013, receiving the first international symposium and exhibition of Electric Vehicles EVS27 (www.avs27.org). After this successful edition of technology and innovation many new and successful projects were present.



Stefano Persi (ENIDE)

“Apart from taking into account the environmental care and leveraging technology”, according to *Stefano Persi* (ENIDE), “we must think about the needs and

benefits for the user of EV, using an user-centric approach”



Axel Barkow

The **UNPLUGGED** coordinator, *Axel Barkow* (FKA), mentioned “interoperability” as a fundamental concept for the project, especially in aspects such as position, communication and power transfer; for **UNPLUGGED** is important to work optimally in each vehicle in these different environments.

By **ENDESA**, *Lourdes Garcia* exposed the current plans for the deployment of inductive charging infrastructure in commercial conditions.



Inductive charging station design (ENDESA)

Then, *Roy Johansson* from Volvo Group showed how the dynamic en-route charging will boost the adoption of EV especially for commercial purposes by breaking many of the current barriers, as price of components, range and charging time.

Following, *Gianni Campatelli* from University of Florence completed the **UNPLUGGED** vision by presenting a roadmap for the deployment of wireless charging for EV in cities, based on the three previous scenarios as consecutive stages, showing the global benefits of each of them. As a conclusion of the event, an open discussion was held about the challenges of the implementation of such wireless charging technologies, with many questions among the audience and the **UNPLUGGED** team.

Save the date

Transport Research Arena TRA2014, Paris, 14-17 Apr 2014 tra2014.sciencesconf.org. **UNPLUGGED** will participate in a joint session with CAPIRE project

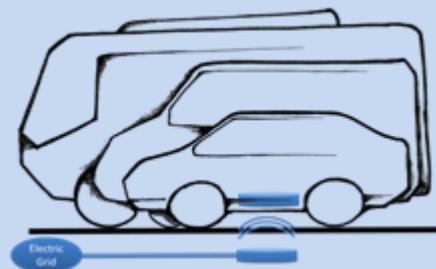
Project activities

In addition to the **EVS27** participation, **UNPLUGGED** was also invited to present our activities during the Smart Cities Expo Barcelona, Nov 2013.

During March 2014, we have organized our second General Assembly in **FKA** premises in Aachen, Germany, with two additional events: a new workshop with the **UNPLUGGED** Advisory Board; and a joint session with FastInCharge, a related initiative

UNPLUGGED, project of the month (February) in **European Green Car Initiative** WebSite: <http://goo.gl/ewtzpN>

UNPLUGGED project aims to investigate how the use of inductive charging of **Electric Vehicles (EV)** in urban environments improves the convenience and sustainability of car-based mobility. In particular, it will be investigated how smart inductive charging infrastructure can facilitate full EV integration in the urban road systems while improving customer acceptance and perceived practicality.



UNPLUGGED will achieve these goals by examining in detail the technical feasibility, practical issues, interoperability, user perception and socio-economic impacts of inductive charging. As one special variant, inductive en-route charging will be investigated thoroughly



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