



Large demonstration of user-centric urban and long-range charging solutions to boost an engaging deployment of Electric Vehicles in Europe

# A EUROPEAN PROJECT ON INNOVATIVE CHARGING TECHNOLOGIES BASED ON THE USER'S PERCEPTION OF ELECTRIC MOBILITY

The development of a sustainable mobility is one of the main challenges for next years in Europe. Electric cars are essential to accelerate this transition. For that reason, innovative charging solutions need to be found to answer to users' expectations and this market raise, this is the aim of INCIT-EV project.

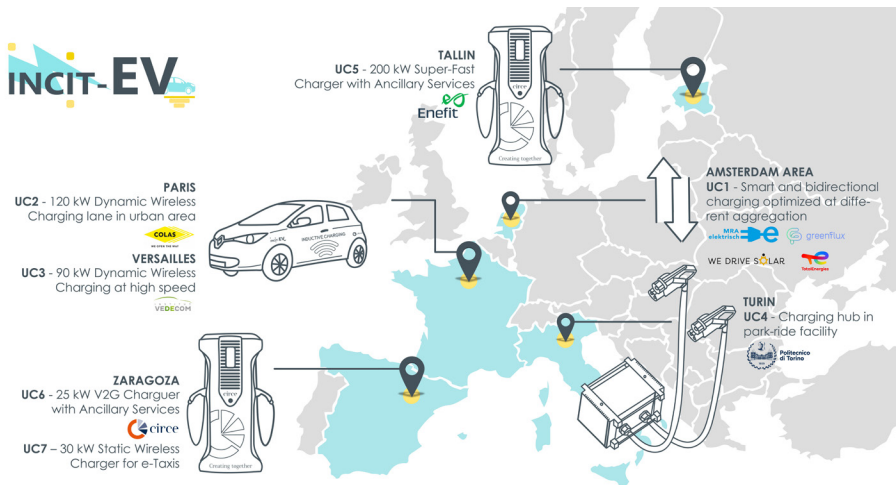


# WHAT IS IT?

INCIT-EV aims to demonstrate an innovative set of charging infrastructures, technologies and its associated business models, ready to improve the EV users experience beyond early adopters, thus, fostering the EV market share in the EU. The project will seek the emergence of EV users' unconscious preferences relying on latest neuroscience techniques to adapt the technological developments to the users' subjective expectations. The progression of the project includes:

**Phase 1** Global analysis on user's needs and requirements alongside with public policy strategies aiming at boosting the electric mobility.

**Phase 2** Focus on technologies demonstrations at selected sites from 2022.



# WORKING PROCESS

Initiated and coordinated by Groupe Renault, and supported and financed by the European Union's Horizon 2020 Research and Innovation program, the project brings together 33 players and partners from deliberately varied backgrounds (industrials, universities, institutes, city authorities, start-ups, SMBs), all experts in their fields. Their missions:

- Analysis and user involvement
- Development of the control platforms
- Development of innovative solutions
- Integration of developments
- Demonstration areas

## WORK PACKAGES

### Work packages «Structure»

- #1** Management and coordination
- #11** Ethics
- #10** Communication and dissemination

### Work packages «Use cases & demo»

- #2** User's perception and needs about charging infrastructures
- #7** UC deployment and demo in urban areas
- #8** UC deployment and demo in peri-urban and urban areas

### Work packages «Techno bricks»

- #3** User-centric EV charging solutions
- #4** Grid and infrastructures upgrading for meeting user expectations
- #5** IT environment for improving the user charging experience

### Work packages «Deployment tools»

- #6** INCIT-EV platform for charging infrastructure planning and services provider
- #9** Use cases and solutions replication - Business cases and exploitation strategies

The results of these full-scale tests and the development of a digital simulation platform and a decision support system will make it possible to envisage their replication initially on two main sites — Bursa in Turkey and the island of Norderney in Germany — before considering an expansion throughout Europe.

## OVERVIEW OF THE PROJECT

- A user-oriented project
- €18,6 million with €15M€ from EC
- 33 partners directly involved in 8 countries
- 7 innovative solutions
- 48 months Jan. 2020/Dec. 2023

## PARTNERS



<https://www.incit-ev.eu>

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