

## INCIT-EV

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

### About the project

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. 5 demo environments at urban, peri-urban and extra-urban conditions will be ready for the deployment of 7 use cases, addressing Smart and bi-directional charging optimized at different aggregation levels :

Dynamic wireless charging lane in an urban area

Dynamic wireless charging for long distance (e-road prototype for TEN-T corridors)

Charging Hub in a park&ride facility

Superfast charging systems for EU corridors

Low power DC bidirectional charging infrastructure for EVs, including two-wheelers

Opportunity wireless charging for taxi queue lanes in airports & central stations

These use cases pursue innovations in the current charging solutions as well as their seamless integration into the existing transport, grid, ICT and civil infrastructures. For this purpose, the INCIT-EV Platform will be developed comprising a DSS and a set of APPs addressing the users and e-mobility stakeholders' needs.

### VEDECOM's role in the project

VEDECOM is the main responsible of the development for the DWPT system for urban and road environments. VEDECOM leads Task 3.4, related to this technology, and WP8, related to the demonstration of the solutions in extra-urban environments, coordinating the works within the different use cases deployed within this WP. In particular, VEDECOM supervises the UC3, related to the demonstration of the DWPT on road environments. VEDECOM is also involved in the following technical WPs:

- WP3 – User centric EV charging solutions
- WP4 - Grid and infrastructure upgrading for meeting users' expectations
- WP7 - Use cases deployment and demonstration in centred-urban areas
- WP9 - Use cases and solutions replication: Business cases and exploitation
- WP 10 - Communication and dissemination activities



#### Partners

**33 Partners** in the consortium



#### EU contribution

**14 953 416,52 €**



#### Project Coordinator

**RENAULT SA**



#### Type of project

H2020 - **Innovation action** (IA)

### VEDECOM team members involved

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**Web site :**

<https://cordis.europa.eu/project/id/875683>