

Improving the EV charging experience within cities and for longer trips: the eCharge4Drivers project

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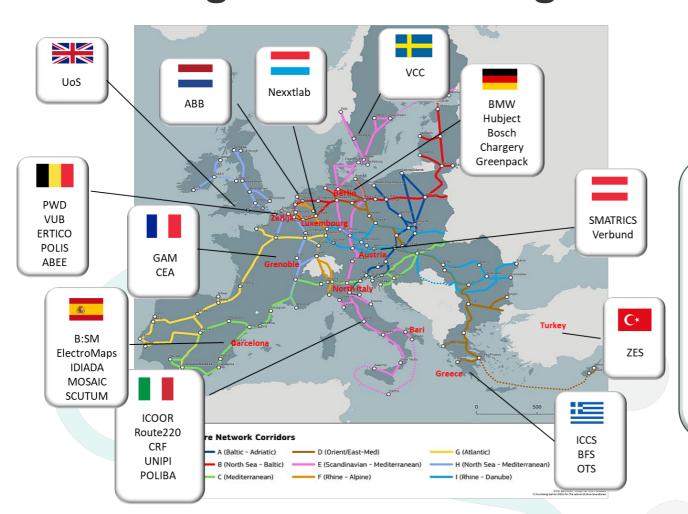
4 Years 32
Partners

Countries

10
Demonstration areas

eCharge4Drivers at a glance





Call identifier: H2020-LC-GV-2018-2019-

2020

Topic: GV-10-2017 "Demonstration (pilots) for integration of electrified L-category vehicles in the urban transport system"

EC funding: 14,424,526.39 €

Duration: June 2020 – May 2024

Demonstrations in **ten** areas to cover needs for urban and for longer trips

Challenges





Improve comfort of charging



Enable services interoperability and provide appropriate information to users



Promote smart charging solutions



Propose standardised charging options for LEVs



Support the wide deployment of charging infrastructure

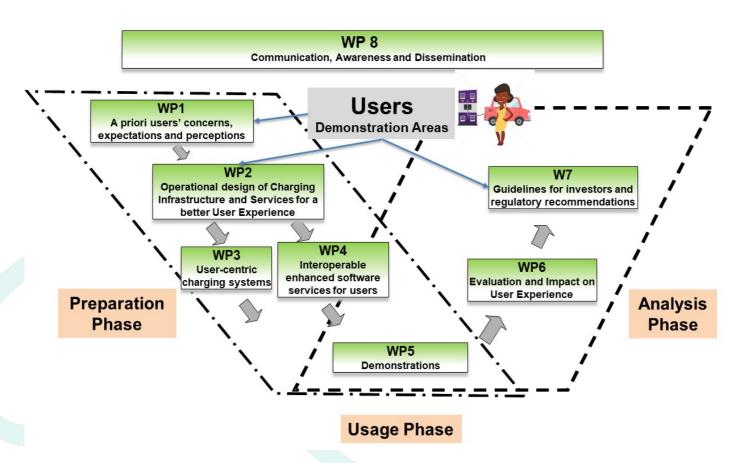
Strategic objectives



- Develop and demonstrate user-friendly charging stations and smart charging solutions for passenger vehicles and LEVs
- Enable and demonstrate interoperability of end-to-end communication (ISO 15118 Plug & Charge feature and OCPP) and provision of enhanced information to the EV users, before, during and after a charging session
- Maximise benefits (i.e. reduce costs) for the users via efficient charging stations and charging components, smart power management modules and smart charging strategies
- Deploy and demonstrate innovative charging solutions for on-street residential charging for passenger vehicles (mobile charging service, charging points on lamp posts) and standardised battery swapping stations for LEVs
- Understand the user needs so that its charging solutions and services substantially improve the user charging experience
- Accelerate the deployment of charging infrastructure and other charging services in a sustainable and user-centric way

Methodology









@Charge4E



eCharge4Drivers



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www.echarge4drivers.eu



This project has received funding from the European Union's Horizon 2020 research and innovation programme under grant agreement No. 875131 (Innovation Action)



Speakers









Matilde Chinellato, Eurocities

Juan Gimenez Pla, Instituto de Biomecanica de Valencia (IBV)

Javier Julve, Electromaps

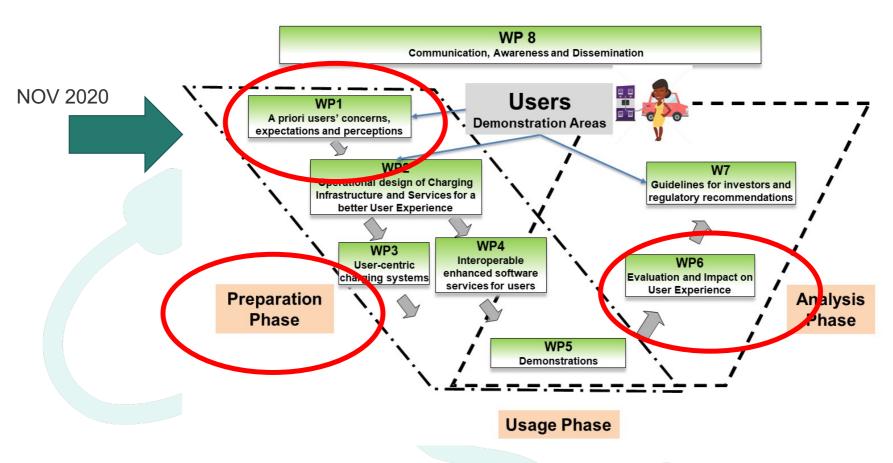


eCharge4Drivers Survey

Prof. dr. Lieselot Vanhaverbeke MOBI – Vrije Universiteit Brussel

Concerns, expectations and perceptions: a priori measurement





Respondents



- EV drivers
- Non-EV drivers

- Specific segments
- LSP
- Taxi drivers

Content of survey for EV drivers



- Socio-demographics
- Vehicle
- Motives of using an EV
- Mobility & parking behavior
- Charging behavior
- Satisfaction of infrastructure/service (CIS-diagnostic)
- Technology acceptance (UTAUT-model)
- App-based services



Content of survey for non-EV drivers CHARGE ADRIVERS

- Socio-demographic
- Intention to buy an EV
- Reasons to buy an EV
- Motives of using an EV
- Mobility & parking behavior

Survey in 9 countries



Cities



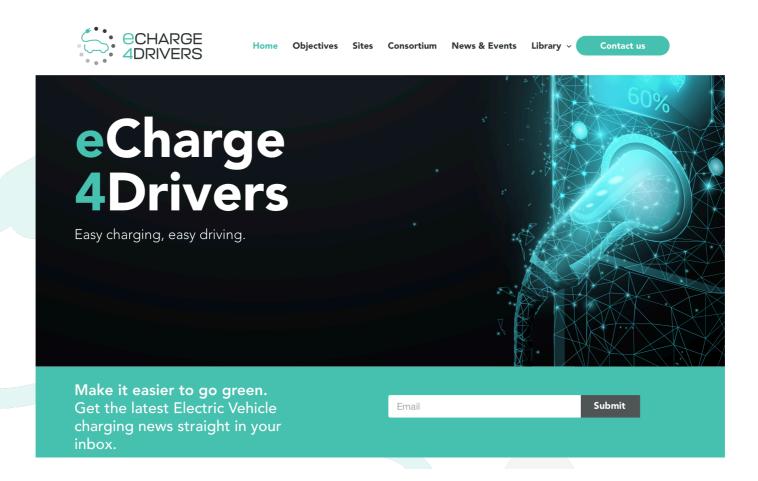
Regions



Stay tuned...



Website: www.echarge4drivers.eu







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