



# User-friendly solution to improve charging experience & accessibility - The eCharge4drivers Project

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# eC4D Strategic Objectives



**O-1:** Understand the user needs so that the project charging solutions and services substantially **improve the user charging experience**

**O-2:** Develop and demonstrate **user-friendly and cost-efficient charging stations** for passenger vehicles and LEVs

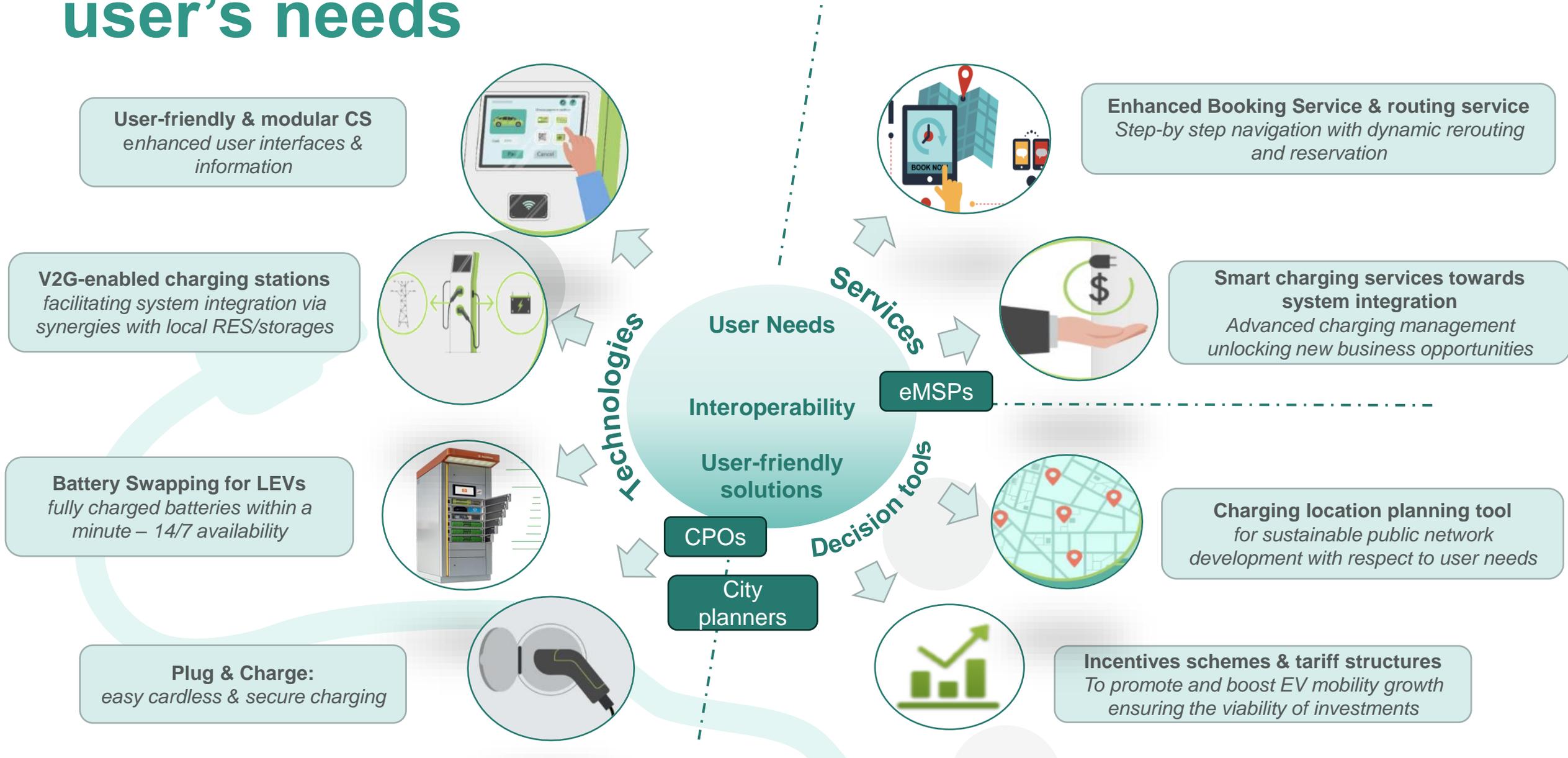
**O-3:** Design and **demonstrate advanced user-centric charging services (smart charging/booking/routing)** serving accessibility and unlocking several business opportunities

**O-4:** Enable and demonstrate **interoperability of end-to-end communication** and provision of **enhanced information to the EV users**, before, during and after a charging session

**O-5:** Propose mechanisms to **accelerate the deployment** of charging infrastructure and other charging services in a sustainable and user-centric way (CP location planning tools, new tariff/incentives schemes)



# eC4D solutions addressing user's needs



# eC4D demonstration areas



## Infrastructure

- **Use Case I-1:** User-friendly & modular CS
- **Use Case I-2:** V2G-enabled charging stations
- **Use Case I-3:** Battery swapping concept for L1e vehicles

## e-Mobility Services

- **Use case II-1:** Advanced charging authentication - ISO15118PnC
- **Use case II-2:** Enhanced booking service
- **Use Case II-3:** Advanced routing service
- **Use Case II-4:** Smart charging suite unlocking new business opportunities

## Decision Support Tools

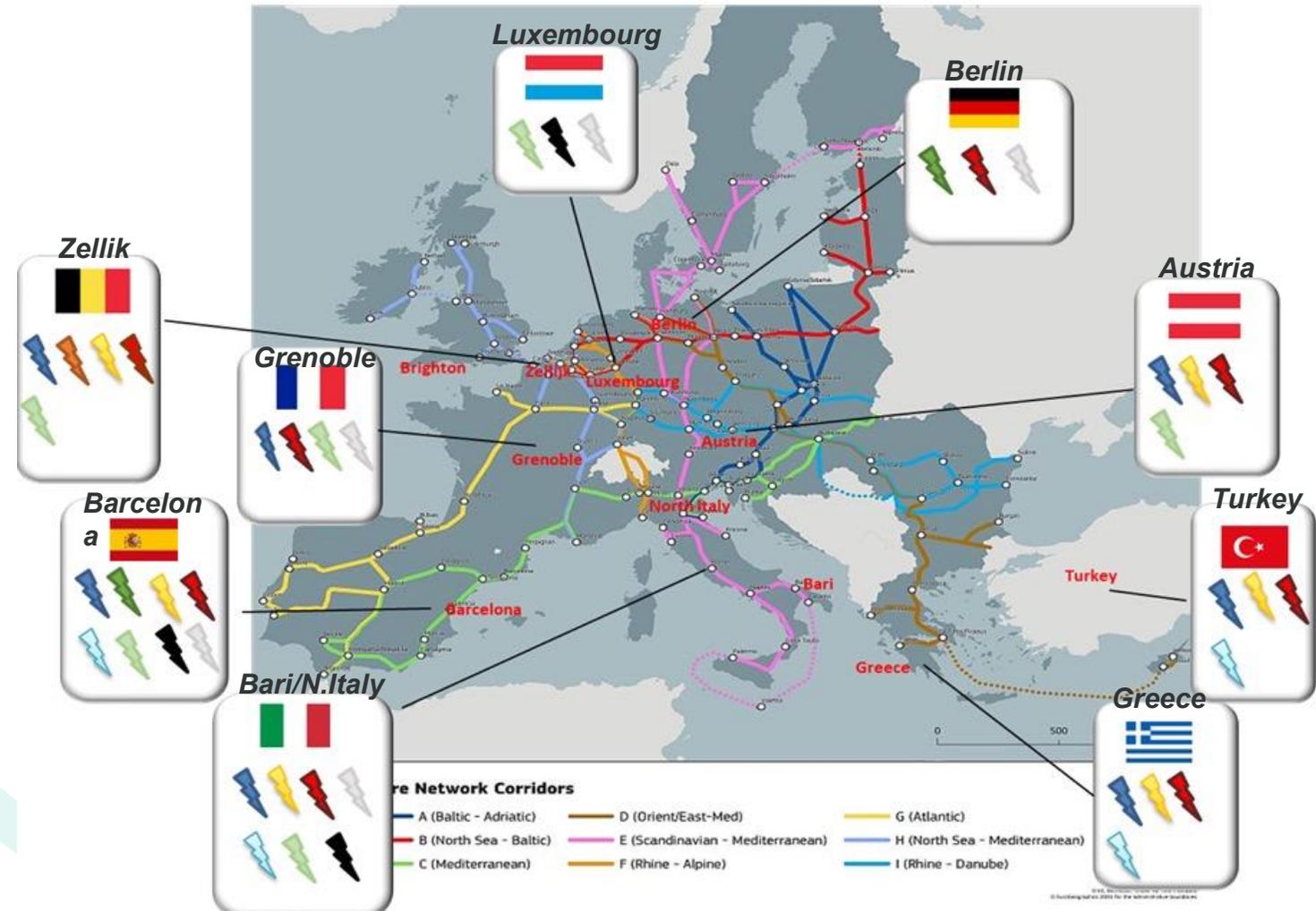
- **Use Case III-1:** EV Charging location planning tool
- **Use Case III-2:** Incentives schemes and tariff structures towards mobility sustainability

## Metropolitan Areas

Zellik, Grenoble, Barcelona, Bari, Berlin, Luxembourg

## Ten-T corridors

Austria, Greece, Turkey, N. Italy



Enabling technologies unlocking new  
business models & service

New or enhanced services to improve user  
charging experience & accessibility

Decision Support Tools for sustainable e-  
mobility growth & efficient system integration



*Facilitating the transport electrification  
transition within the next decades  
dictates that  
charging should be as easy as refueling  
an ICE vehicle nowadays*

# Thank you!



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