Advancing eRoaming in Europe

WHY?
To accelerate the market for EV-drivers
A mature EV market needs a single communication infrastructure where all market players in the EV and energy sector are connected. New, integrated and profitable business models can be developed that provide flexibility and assure continuity of supply.

HOW?
- **Simplify**
  - What information is needed
  - Simplify the value chain

- **Standardize**
  - Standard (open) communication protocols
  - Standard user experience

- **Harmonize**
  - Single protocol, datamodel
  - Align legal and fiscal frameworks

- **Integration**
  - A standard and open protocol that connects and integrates Hub and P2P functions allows for a mature market of EV products and services

WHAT?
- **Fragmentation**
  - Differences in market design and market models per country
  - Differences in legal, fiscal and subsidy regimes
  - Differences in (non-compatible) charging hardware, software

- **Momentum**
  - European policy push for a single European market
  - Best practices available from other sectors
  - Consumer push: roaming is ‘normal’

- **Hubs**
  - Central roaming hubs accelerate connectivity and provide additional services

- **P2P**
  - Decentral solutions (peer-to-peer) ensure compatibility and cost-efficiency

INSPIRATION
- **Banking**
  - IBAN
- **Internet**
  - TCP/IP
- **Telecom**
  - ROAMING, 4G

eRoaming4EU
The project eRoaming4EU forms a partnership to facilitate roaming services for charging electric vehicles and provide transparent information by making use of the open and independent OCPI protocol. The goal is to allow any EV driver to charge at any charging station in the EU and setting up transnational pilots, aimed at addressing and resolving functional, technical, legal, and fiscal obstacles.

Implementation of OCPI as the standard communication protocol moves competition towards products and services and away from closed consortia and protocol choices. Cost of access to the EV charging market will be reduced, and it has positive impact on energy efficiency, use of renewable energy and therefore on climate ambitions.

Partners: NKL, MRA-e, E.ON.dk, Stromnetz Hamburg, ENIO, e-clearing, TU/e, Copenhagen Electric