

Q&A on operational challenges and pain points

Interactive discussion with the audience

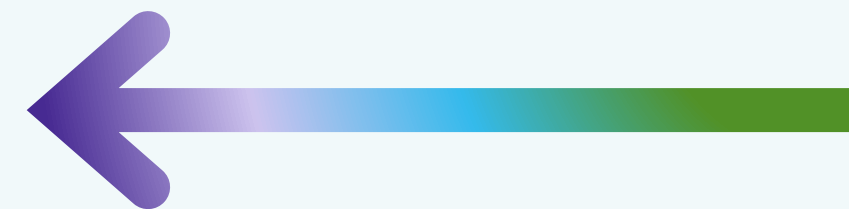


Co-funded by
the European Union

Alice Scotti - ALICE | 30 May
2025



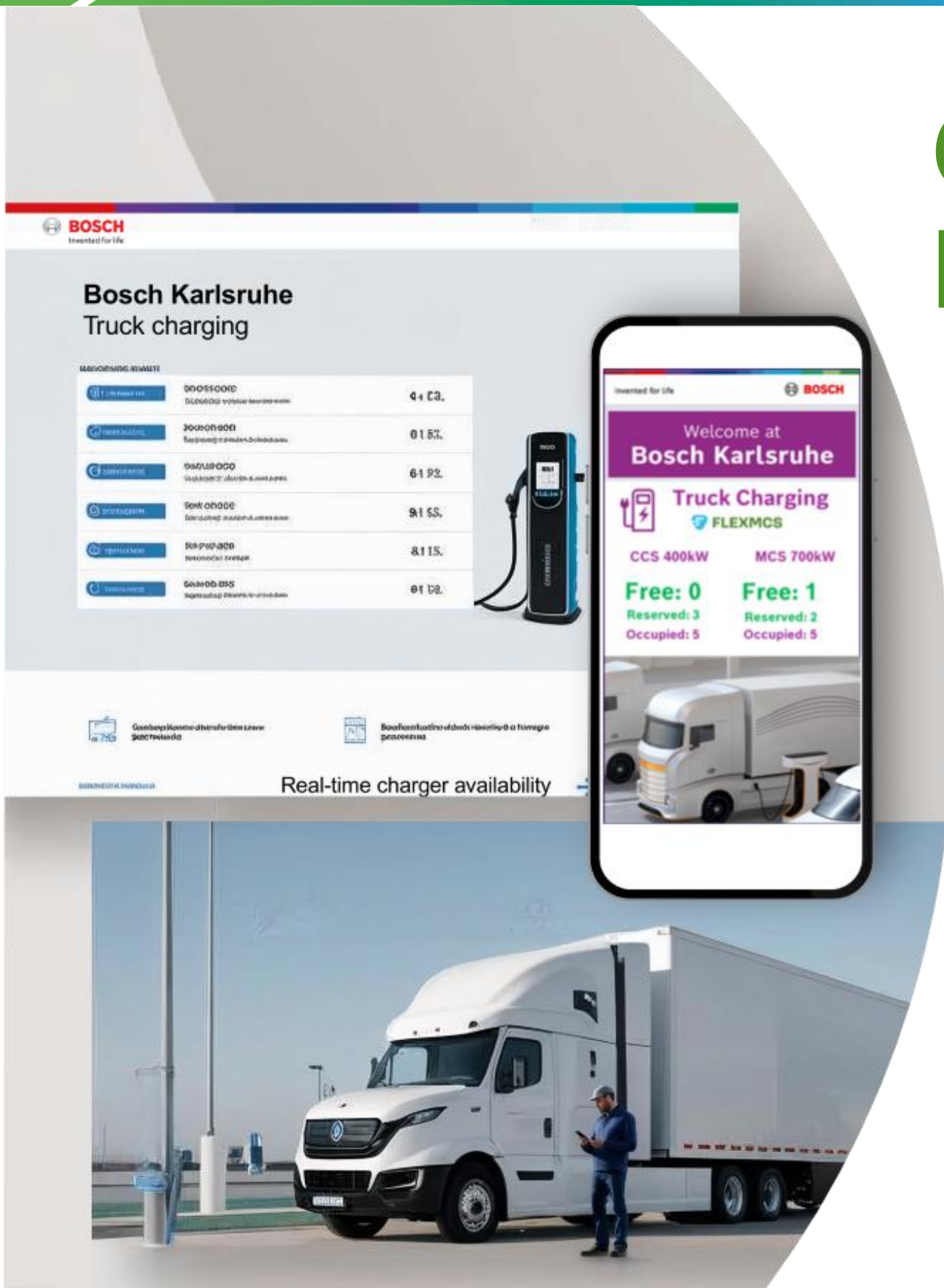
**Join the Q&A
in Slido!**



CHARGING SLOTS RESERVATION AND PAYMENT PLATFORM

A user-friendly digital interface that allows drivers and fleet operators to **reserve, access, and pay for charging slots** any type of charging stations.

It supports real-time status updates, dynamic pricing, and integration with navigation and fleet management systems, ensuring efficient and predictable use of high-power charging infrastructure.



Co-funded by
the European Union



BOSCH

DAF
IVECO





CHARGING SLOTS RESERVATION AND PAYMENT PLATFORM

DYNAMIC EV ROUTE PLANNING TOOL

A smart **route planning tool tailored for electric trucks and trailers**, enabling fleet operators to calculate the most efficient route and charging strategy based on live and predictive data.

It uses physical vehicle models, battery condition, load weight, topography, weather, and live traffic to **suggest optimal routes-including stopovers, charging station bookings, and dynamic re-routing.**



Co-funded by
the European Union



BOSCH





DYNAMIC EV ROUTE PLANNING TOOL

GEOGRAPHIC PLANNING TOOL FOR OPTIMAL CHARGING LOCATIONS

The **geographic planning tool**, ChaRM, **determines the optimal locations for charging infrastructure** for electric heavy goods vehicles (HGVs). Its primary output includes recommendations for charge station locations and the required number of charge points at each station.

The optimization objective structure is designed to be flexible, allowing the model to define 'optimal' in various ways to meet the needs of different stakeholder groups. To achieve this, various interchangeable objective functions will be developed.



Co-funded by
the European Union





Geographic planning tool for optimal charging locations

CHARGING SITE LAYOUT OPTIMISING TOOL

This tool optimizes the **architecture, layout, and design of interoperable multiport Megawatt Charging Station (MCS) sites**, also integrating BESSs to ensures efficient power distribution, minimizes infrastructure costs, and enhances flexibility for dynamic charging demands.

The site architecture/layout optimization algorithm can determine the **optimal placement of MCS ports, BESS units, and grid connections** to reduce the grid dependency and minimize the energy losses. Is ideal for CPOs planning high-power, interoperable charging hubs with integrated energy storage.



Co-funded by
the European Union





CHARGING SITE LAYOUT OPTIMISING TOOL

Disclaimer



**Funded by
the European Union**

Project funded by



Schweizerische Eidgenossenschaft
Confédération suisse
Confederazione Svizzera
Confederaziun svizra

Swiss Confederation

Federal Department of Economic Affairs,
Education and Research EAER
**State Secretariat for Education,
Research and Innovation SERI**

FLEXMCS has received funding from the European Union's Horizon Europe research and innovation programme under grant agreement No 101192657. MACBETH has received funding from the European Union's Horizon Europe research and innovation programme under grant agreement No 101192466.

Views and opinions expressed are however those of the author(s) only and do not necessarily reflect those of the European Union or the European Climate, Infrastructure and Environment Executive Agency (CINEA). Neither the European Union nor the granting authority can be held responsible for them.

