

WiseEVP

Esteban Pastor - epastor.etraid@grupoetra.com





This project has received funding from the European Union's Horizon 2020 research and innovation programme under the grant agreement No 731205.



Introduction

- **Target users**: Mobility Services Providers and Charging point Operators
- **Objective**: optimize the activities related with smart charging and discharging of the EVs





Challenges

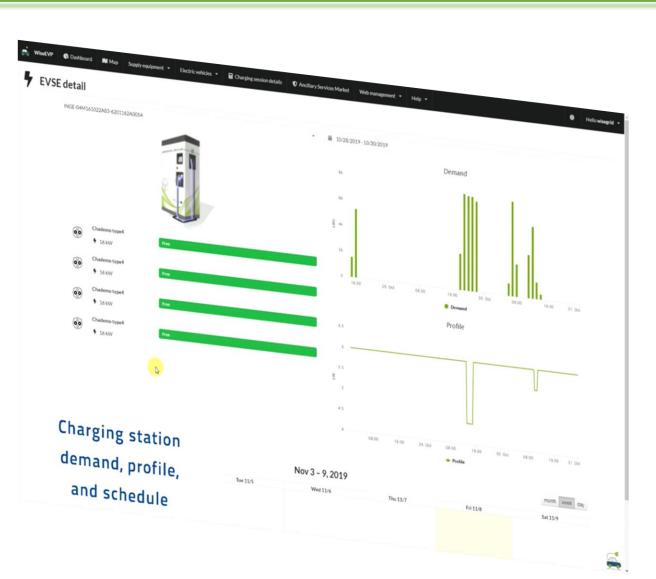
- Bridge gap between electric mobility and electricity grid operation.
- Optimize highly demanding power flows from charging infrastructure.
- Increase observability and management of electric vehicles fleet





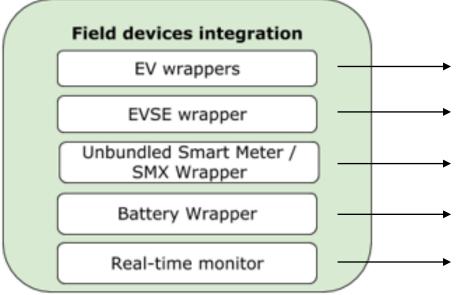
Main Features

- Manage and control the whole EV fleet and EVSE portfolio
- Reduce the EV charging energy bill
- Follow high shares of RES production
- Support DSO operations





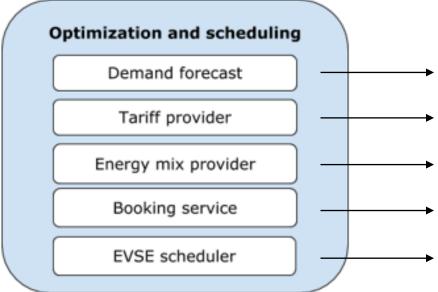
Field devices integration



- Communication with the different EV monitoring systems
- Communication with the different charging stations
- Data exchange and actuation enabler
- Communication with the available storage systems
- Module that handles the data ingestion



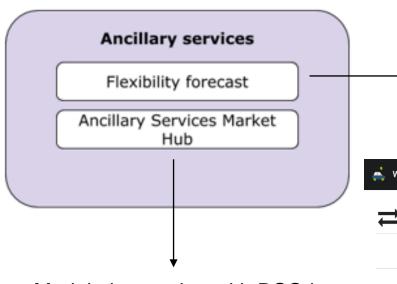
Optimization and Scheduling



- Permanently running to manage the received queries enabling the use of the demand forecast
- Provides the applications access to the energy price curves
- Provides a simple interface to access the energy generation sources
- Offers the customer the capability to reserve the Charging Stations in advance
- Management and control of EVs at fleet level



Ancillary services



Module interacting with DSO in the Ancillary Services Market

Aggregated flexibility offers according to EV energy availability

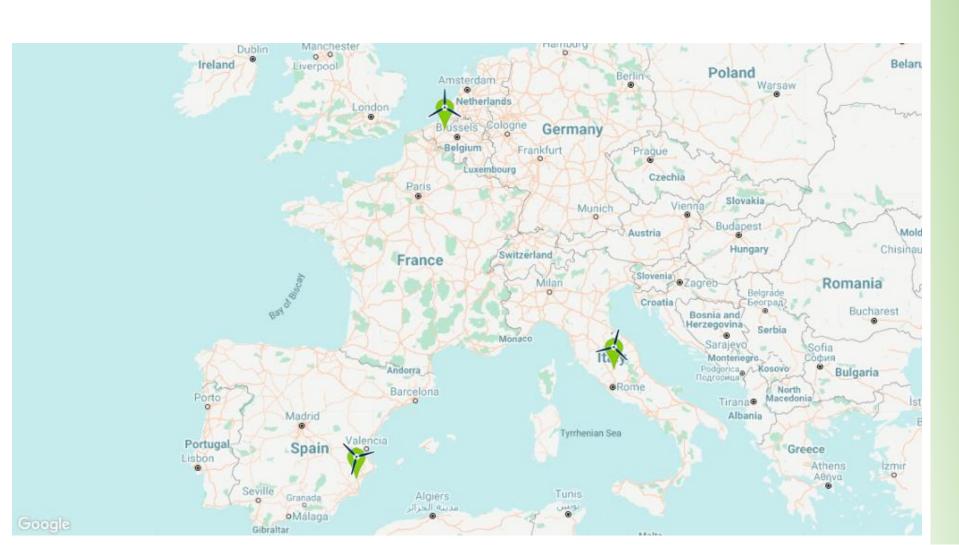
- Minimize the cost (economic or environmental) for users
- Perform the regulation of the aggregated power, reacting to grid and RES integration support requests of each regulation area

🖕 WiseEVP 🚳 Dashboard	Map Supply equipment 🔹	Electric vehicles 🝷 🖬 Charging session	details 🛛 🛱 Ancillary Services Market	Web management 🔹 Help 🔹	S Hello rb		
Demand response	nse campaign detail	s					
Date		Required flexibilit	y	Duration			
20/07/2018 16:45		50 kW	50 kW		02h 00min		
History							
Timestamp	Status	Sender	Recipient	Flexibility	Price		
20/07/2018 12:58	Request posted	DSO Operator					
20/07/2018 12:58	Offer sent	Fleet Manager	DSO Operat	or 50 kW	120€		
20/07/2018 12:59	Order posted	DSO Operator	Fleet Manag	ter 50 kW	120€		



Pilot sites

- Crevillent
- Flanders
- Terni





Demo



Thank you!

Esteban Pastor Calatayud



www.grupoetra.com



This project has received funding from the European Union's Horizon 2020 research and innovation programme under the grant agreement No 731205.