

Mobility Environmentally-friendly, Integrated and economically Sustainable Through innovative Electromobility Recharging infrastructure and new business models

POLIS CITIES AND REGIONS FOR TRANSPORT INNOVATION

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Content



- MEISTER project overview and innovative aspects
- MEISTER results in Berlin: BMs and demonstration activities



Project at a glance



Meister

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MEISTER Pilot sites



BERLIN





Pilot area: New WATERKANT area* *2500 new flats will be built up

Focus on: business cooperation frameworks and smart mobility services for new urban planning

MALAGA





Pilot areas: City center, Carretera de Cadiz and Humilladero area

Focus on: e-urban collaborative logistics (last mile distribution) and municipal e-car sharing schemes

STOCKHOLM





Pilot area: The whole city

Focus on: adapting the procurement criteria for fostering the use of EVs for Home Care delivery among private operators

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MEISTER objectives (O), business models (BMs), products (P) per pilot site and target groups



Meister

P1. MEISTER Replication, Market Uptake and Deployment Handbook

Description:

Toolset that gives access to the main project results, including:

- BMs defined by the project
- How to use the technological solutions (P2, 3, 4 & 5)
- **Practical results** from the BMs validation at the project sites
- Supporting legal, administrative and financial tools

Added-value services:

- Key outcomes of the project for boosting large scale deployment of electromobility
- Lessons learned from the real application and validation of solutions and products
- Operational flexibility and user-friendliness



P1. MEISTER Replication, Market Uptake and Deployment Handbook



Mels

P2. MEISTER Intelligent Billing & Accounting Platform

Description:

Independent platform for e-mobility providers that enables an **easy, non-discriminatory, convenient and barrier-free access** to end users for EV charging billing features:

- wherever Electric Vehicle Supply Equipment (EVSE) is located
- whichever EV is used
- whoever operates the EVSE
- whoever supplies the charging service and electricity

Added-value services:

- **Transparent B2B services** establishing connections between different EVSE operators, e-mobility service providers and the platform
- Adoption of open standards and most used protocols for roaming
- Integration of already existing platforms





P3. MEISTER Integrated Real-Time Information & Booking Services

Description:

- Smart phone app for EV drivers
- Mobility display for housing services
- Application for **urban logistics companies**
- Smart e-mobility dashboard for the city management
- Backend (integrated services)

Added-value services:

- Combined smart parking and charging
- Monitoring and real-time information about public EVSE
- Searching and routing to EVSE
- **Booking** of parking slots and charging stations
- Customized services for different end-users



P3. MEISTER Integrated Real-Time Information & Booking Services



Meis



P4. MEISTER European eMobility Expertise Centre (EeMEC) and eSUMPS knowledge base

Description:

Technical, legal and financial support centre aimed at facilitating:

- **Transferability of best practices** from MEISTER pilot sites to other cities
- Assessment to local governments in the eSUMPs process and urban planning by engineering and consultancy firms

Added-value services:

- Technical, legal and economic feasibility of alternatives assessment
- Transferability of successful solutions for e-mobility implementation
- e-mobility services information available in a knowledge database for learning purposes



P5. MEISTER Smart Charging and Storage Platform

Description:

Platform that allows vehicle-sharing companies and e-fleet managers to optimize activities related with smart charging and discharging of their EVs:

- Using EVs as dynamic distributed storage devices
- Feeding electricity stored in their batteries back into the local grid when needed (V2G supply)

Added-value services:

- Consider the renewable generation profile, the tariffs, the driver requirements and preferences
- Consider different **types of charging**: on-demand, smart charging, V2G
- Allocation of any excess of energy in the distribution network to stabilize the grid (demand side management)



P5. MEISTER Smart Charging and Storage Platform

MEISTER @ Berlin





Waterkant



Business Models Berlin



BM1: E-Car-Sharing as a housing service

Gewobag (municipal housing company)

- Improve the mobility offer to Waterkant tenants
- Increase the share of EVs
- Reduce parking spaces
- Enable an efficient way of sharing parking and charging stations between EV car sharing service

E-Car-Sharing for tenants in the new Waterkant Neighbourhood

BM5: Smart Park&Charge

CPO + Gewobag, VMZ and SenUVK

- Digitalization and reservation of charging infrastructure in semi-public parking spots
- Enable EV-users to book and plan charging processes
- Securing charging infrastructure against unauthorized parking vehicles
- Increasing the turnover of charging infrastructure

Reservation of parking and charging for EV-users in city center areas

etra +

Demonstration E-Car-Sharing as a housing service











Demonstration Smart Park&Charge









Autonomous, battery-powered and IoT-capable parking barrier





THANK YOU! Any Question?



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For more information visit: <u>https://meisterproject.eu/</u>