

The logo for MOEISTER is displayed in a large, bold, sans-serif font. The letters 'M', 'I', 'S', 'T', and 'E' are dark blue, while 'O', 'R', and the 'E' are a vibrant lime green. The 'O' contains a stylized green plug icon, and the 'E' is replaced by a dark blue battery icon with three horizontal segments. The background features a light blue gradient with a network of grey nodes and lines, and several semi-transparent grey circles of varying sizes.

MOEISTER

Mobility **E**nvironmentally-friendly, **I**ntegrated and economically **S**ustainable **T**hrough innovative **E**lectromobility **R**echarging infrastructure and new business models

PROJECT OVERVIEW

MEISTER consortium



MEISTER

1. ETRA INVESTIGACION Y DESARROLLO SA (ETRA) - Spain
2. AYUNTAMIENTO DE MALAGA (MLG) - Spain
3. NOVADAYS SL (NOV) - Spain
4. VMZ BERLIN BETREIBERGESELLSCHAFT MBH (VMZ) - Germany
5. INSTITUT FUR KLIMASCHUTZ ENERGIE UND MOBILITAT-RECHT, OKONOMIE UND POLITIK EV (IKEM) – Germany
6. GEWOBAG WOHNUNGSBAUAKTIENGESELLSCHAFT BERLIN (GEW) -Germany
7. ETHNIKO KENTRO EREVNAS KAI TECHNOLOGIKIS ANAPTYXIS (CERTH) - Greece
8. E.ON SOLUTIONS GMBH (EON) - Germany
9. RISE AB (RISE) - Sweden
10. SENATE DEPARTMENT FOR THE ENVIRONMENT, TRANSPORT AND CLIMATE PROTECTION BERLIN (SenUVK) -Germany
11. STOCKHOLMS STAD (STOCK) - Sweden

MEISTER consortium



Public entities



Industry



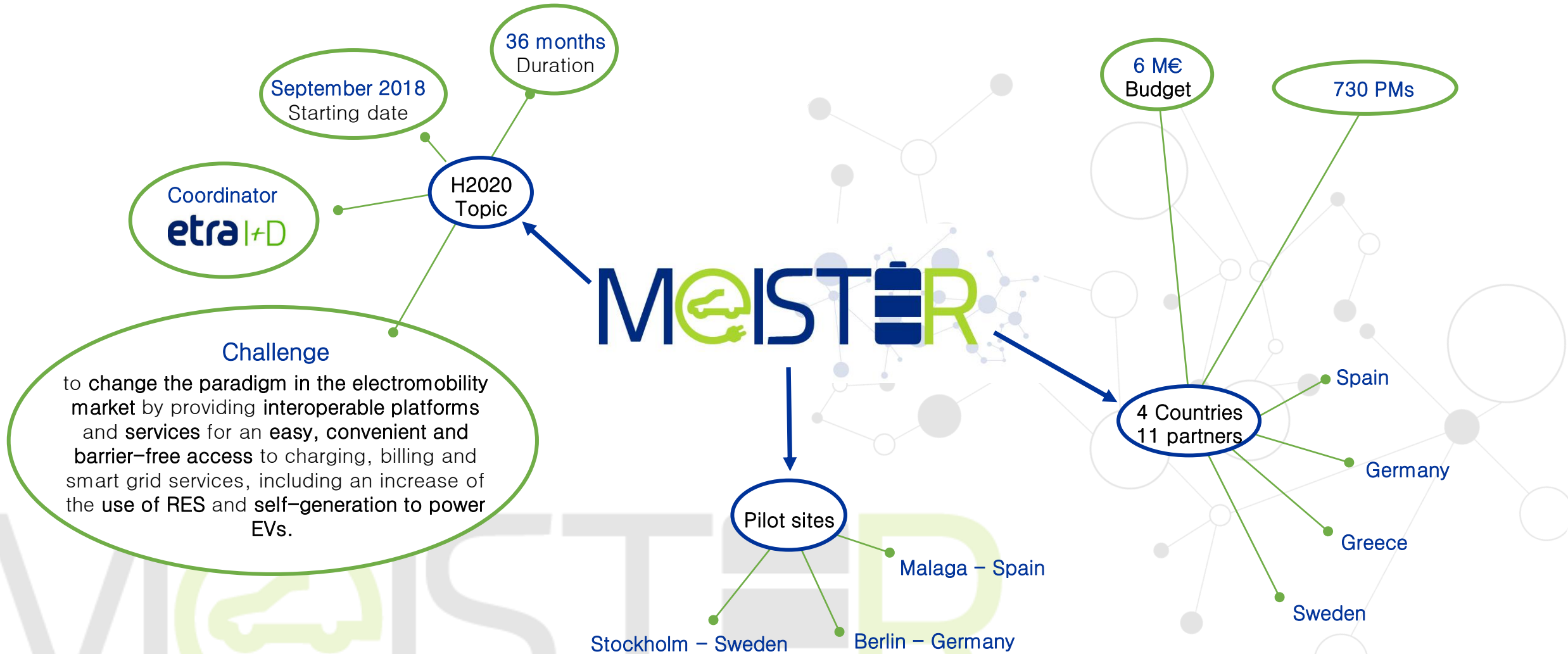
Research Center



Housing company



Project at a glance



Strategic goals



O1. Innovative and sustainable business models for smart e-mobility

- **Reduce installation and operational costs** for charging infrastructure operators (**increase offer**)
- **Reduce charging prices** for customers (**increase demand**)

O2. Deployment of an e-mobility interoperability platform

- **Role models** for **operator** and **provider** - **independent, non-discriminatory information, authentication and billing schemas** ensuring **interoperability**
- Integrated **real-time information** and **booking** services
- e-mobility **information platform** for smart cities **with three different interfaces**

O3. Integration of e-mobility in the cities' SUMPs and city planning process

- Planning and use of **e-urban space**
- Planning and use of **e-logistics hubs** and **distribution centers**
- Creation of a **European eMobility Expertise Centre (EeMEC)**

O4. Integration with smart grid services

- **Charge scheduling** to **optimise costs** and **RES use**
- EV as supporting **storage for private use**
- EV as supporting **storage for DSO**

MEISTER products



MEISTER

P1. MEISTER Replication, Market Uptake and Deployment Handbook

Description:

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

- **BM**s 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

MEISTER products



P2. MEISTER Roaming & 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**



P2. MEISTER Roaming and Accounting Platform

MEISTER products



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



MEISTER products



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**



MEISTER products



P4. MEISTER European eMobility Expertise Centre (EeMEC) and eSUMPS knowledge base: <https://www.eemec.eu>

EeMEC
European e-mobility Expertise Center

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EUROPEAN EMOBILITY EXPERTISE CENTRE

The EeMEC (European e-Mobility Expertise Centre) is a non-profit organization created to facilitate the transferability of best practices of the various cities leading eMobility in Europe, to other European local governments.

It is a technical, legal and financial support center, as well as a tool which will facilitate engineering and consultancy companies to offer their services to local governments in the urban planning.

[LEARN MORE](#)

OUR MISSION
"To ensure more efficient use of urban space and mitigate adverse traffic effects with smart e-mobility solutions"

OUR VALUES
Collaboration
Electrification
Sustainability
Ecology

OUR VISION
Building a greener, CO2 free mobility future

EeMEC
European e-mobility Expertise Center

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WHAT IS THE EEMEC?

The EeMEC (European e-Mobility Expertise Centre) is a non-profit organization created to facilitate the transferability of best practices of the various cities leading eMobility in Europe, to other European local governments. It is a technical, legal and financial support center, as well as a tool which will facilitate engineering and consultancy companies to offer their services to local governments in the urban planning.

[BRIEF HISTORY](#) [OBJECTIVES](#)

BRIEF HISTORY.

MEISTER

In the beginning of 2020, the European Horizon 2020 project MEISTER gave birth to the European e-Mobility Expertise Centre (EeMEC). EeMEC has been designed as a legally independent, non-profit organisation initially established by selected MEISTER project partners, managing the sustainability and Return-On-Investment (ROI) of the MEISTER products along and beyond the project.

The three major barriers for the deployment of Electric Vehicles in the European Union are the high cost of vehicles, the low level of consumer acceptance and the lack of recharging stations. MEISTER - and accordingly EeMEC - try to solve the problem by designing, validating and promoting Business Models to make it more attractive for operators to install charging infrastructure and for potential customers to use this infrastructure.



MEISTER products



P5. MEISTER Smart Charging and Storage Platform

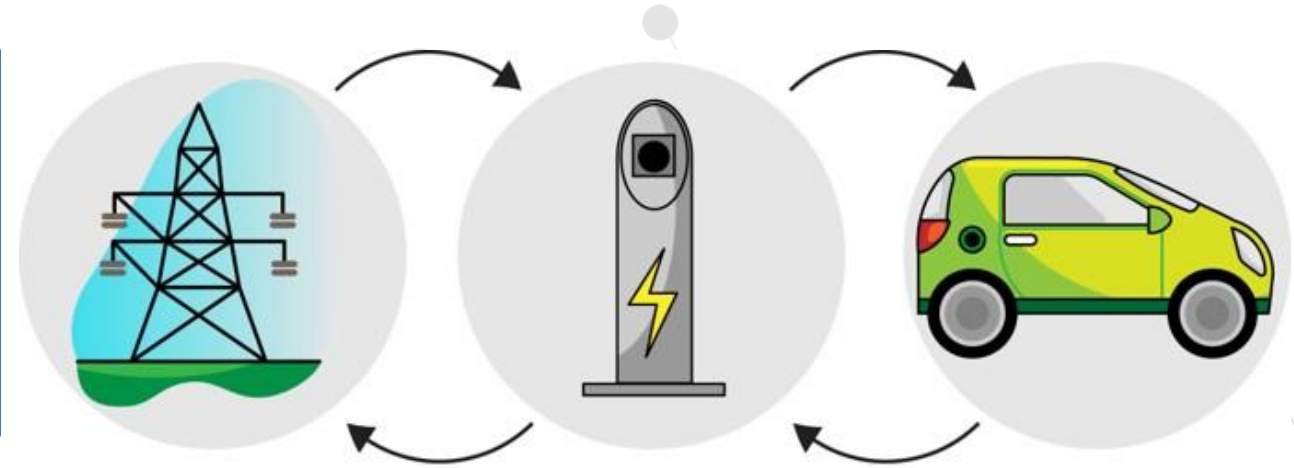
Description:

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 Business Models



MEISTER

BM1. e-car sharing as housing service (*Berlin*)

- Provision of e-mobility services for the inhabitants of new buildings and neighbourhoods
- Managed by the housing company

BM2. e-car sharing in municipal fleet (*Malaga*)

- e-car sharing scheme using the city council owned fleet of EVs

BM3. Delivery of home care services with EVs (*Stockholm*)

- Develop procurement criteria which will increase electric vehicles in the private operators' fleet of the service

BM4. City e-logistics enabling ultra-low emissions hubs (*Malaga*)

- Creation of new tools and business models to reduce emissions of logistic operations
- Optimization of the SUMP and integration of e-mobility services into collaborative urban logistics

BM5. Smart park + charge (*Berlin, Malaga & Stockholm*)

- Integration of smart parkings allowing the charge of EVs
- Facilitates the use of the EV whilst reducing the parking demand with car sharing schemes

BM6. Smart charging (*Berlin, Malaga & Stockholm*)

- EVs integration in the smart grid framework through smart EVSEs
- EV charging/discharging according to grid and environmental requirements (incl. V2G)

MEISTER Pilot sites



BERLIN



Pilot areas: Residential neighborhoods “Mein Falkenberg”, “Wohnpark Mariendorf” and Lindenstraße

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

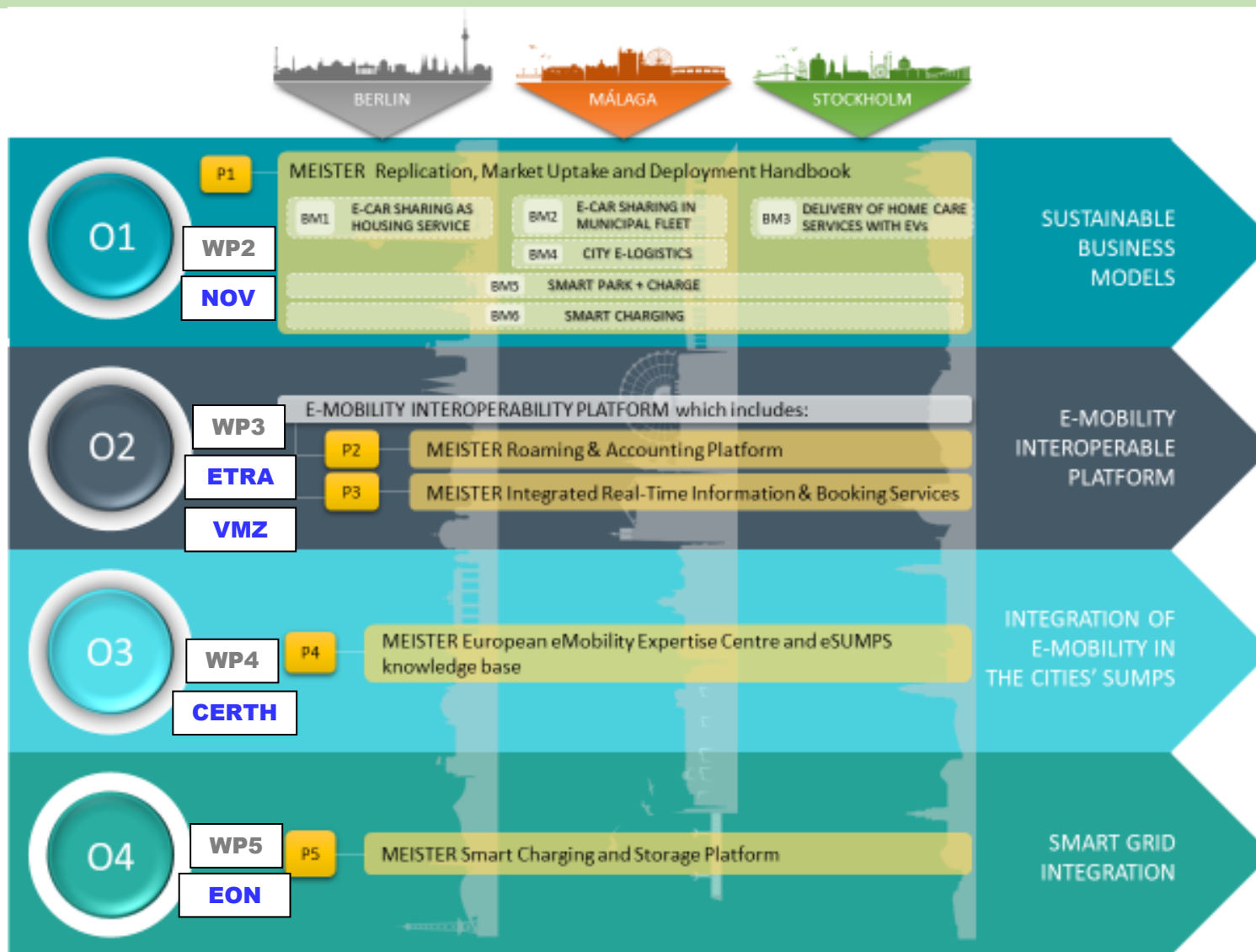
STOCKHOLM



Pilot area: The whole city

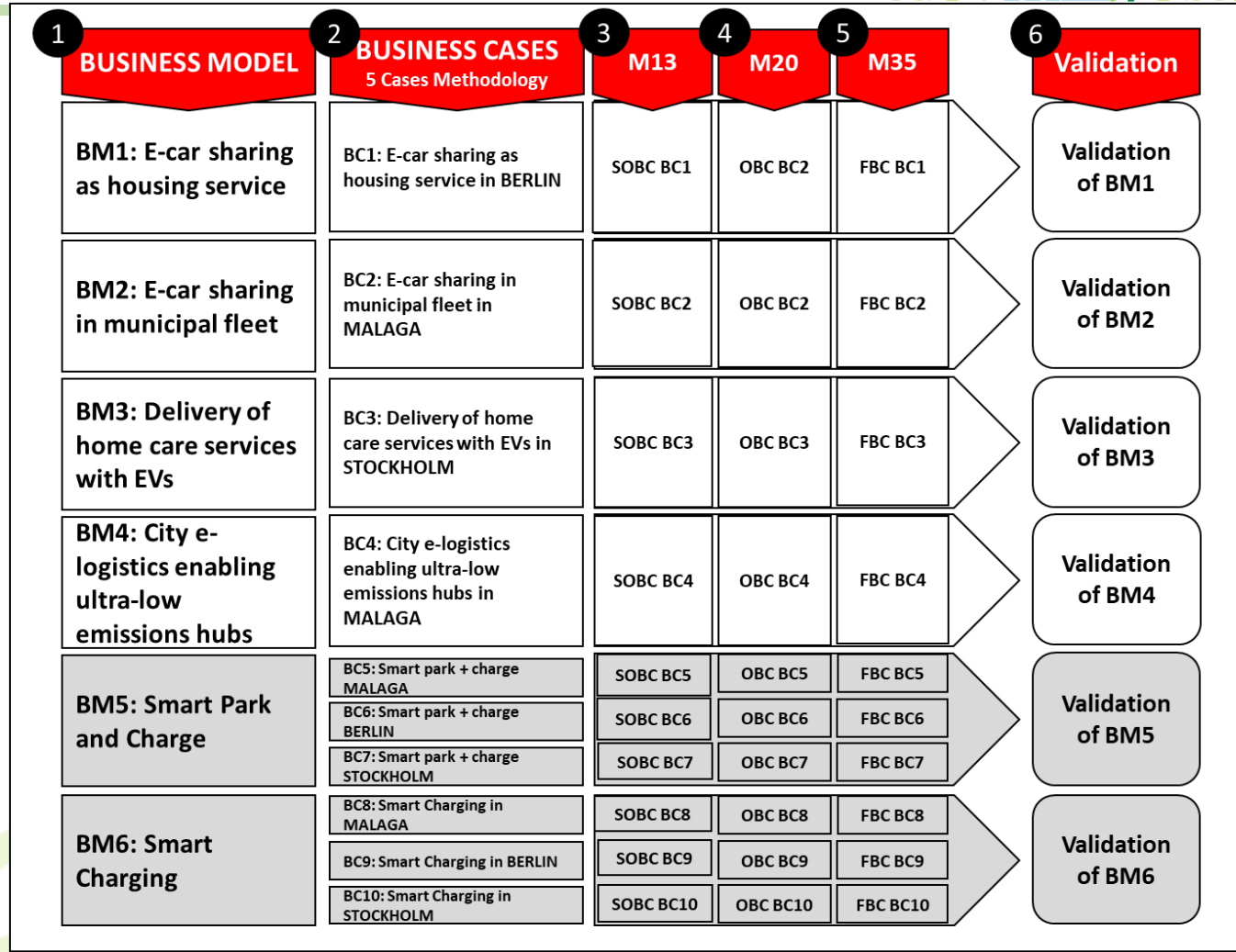
Focus on: adapting the procurement criteria for fostering the use of EVs for Home Care delivery among private operators

Mapping of MEISTER objectives (O), business models (BM) and products (P) per pilot site



Associated WP
LEADERSHIP

MEISTER validation



MEISTER BM (1), Business Cases (2) with its 3 phases: SOBC-Strategic Outline Business Case (3), OBC-Outline Business Case (4), FBC-Full Business Case (5), and validation of BM (6)

THANK YOU!
Any Question?



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



@MEISTER_H2020



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