

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

Fostering Urban E-Mobility through Smart Park and Charge



2nd December 2020



Smart Park and Charge in Berlin and Smart

Better accessibility of charging points and parking infrastructure for EVs and turnover of charging infrastructure in semi-public spaces through...

- a combination of digitally controllable parking barriers and charging infrastructure.
- Enabling EV- users to book and plan charging processes
- Parking detection, reserveration function, notification of users of their parking duration at the charging point
- Stakeholders involved: CPO, Gewobag, VMZ and SenUVK
- Demonstration site: Lindenstraße (Berlin)



P3. MEISTER Integrated Real-Time Information & Booking Servies Digitally controllable (IoT-capable) parking barriers

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Why Smart Park and Charge?

Limited accessibility of public and semi-public charging infrastructure in city center areas through...

- wrong use of parking spots or
- exceeded actual charging duration/maximum parking duration for EVs

Example: MEISTER demonstration site Lindenstraße (Berlin) Between 2017 and 2019 the <u>average duration</u> of...

- AC transactions increased by 68% (4 ³/₄ to 8 hours)
- Actual AC charging increased by 20% (3 ¼ to 4 hours)



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How does it look like?



- 4 parking barriers installed at 4 parking spots with 4 CPs at Lindenstraße
- 2 AC CPs, 2 DC CPs
- 1st Demonstration ready to start
- Demonstration duration approx. until August 2021
- 2 demonstration phases
- First analysis phase after completion of 1st demo phase









Measuring the demand for charging infrastructure and parking occupancy by...

- Monitoring parking occupancy during the demonstration phases (Charge Detail Records)
- Monitoring MEISTER app data during the demonstration phases (amount and duration of app transactions)
- Analysing *ex ante* and *ex post* situation
- Analysing a control site (no demonstration)

...the following indicators:

- Average duration of transactions, average duration of actual charging
- Total amount of charging transactions made, average duration of SP&C transactions
- Impact assessment

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THANK YOU! Any Question?

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