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Automated driving and charging



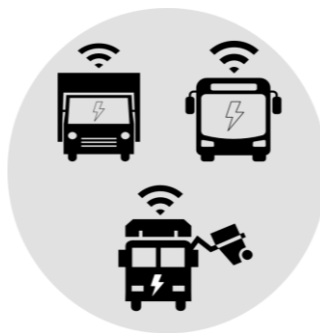
The work module sees two self-positioning charging technologies being demonstrated at the EUREF campus and the BLG Logistics premises with (semi-) automated vehicles, in a bid to gain real-world insights into parking and charging behaviour. The module also involves developing concepts and tools for efficiently designing and using automated charging infrastructure at premises and integrating e-vehicles into smart power grids. In this context, the real-life operation of an electric logistics truck will be used together with a ≥ 1 MW charging station, acting as a live demonstration. Vehicles with varying degrees of autonomy will also be theoretically integrated into the existing factory traffic, and the entire system will be assessed in terms of economic, environmental and logistics KPIs.

Aims



Car sharing fleets

- Increased utilisation of public charging infrastructure through automated (re)parking and charging
- Targeted support of controlled and bidirectional charging processes



Bus and commercial transport

- Fast charging process and convenient handling through automated connection to charging stations
- Saving of charging infrastructure through multiple use in depots



Urban logistics

- Parallelisation of transshipment processes and High-power charging (> 1 MW) in heavy goods traffic
- Optimised operating processes in depots through autonomous transport

The Mobility2Grid research campus is coordinated by the Mobility2Grid e.V. association.
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