



LEV@KEP

RESEARCH ACCOMPANYING THE DEVELOPMENT OF A REGISTRATION-EXEMPT LEV (LIGHT ELECTRIC VEHICLE) FOR SUSTAINABLE URBAN LOGISTICS, ESPECIALLY FOR THE MICRO-DEPOT CONCEPT IN THE CEP SECTOR

DURATION: 30 MONTHS

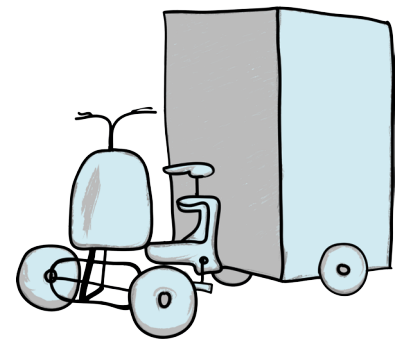
TECHNISCHE HOCHSCHULE NÜRNBERG
GEORG SIMON OHM

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b&p engineering
mobility
GmbH

In the "Pilot project for sustainable urban logistics by means of CEP services using the micro-depot concept within the Nuremberg Metropolitan Region", the use of Pedelec cargo bikes is intended to enable CEP companies DPD and GLS to deliver packages cost-effectively and emission free. In the first phases of the project, however, it turned out that no suitable cargo bikes were available on the market. For that reason, the follow-on project presented here, which is being carried out in collaboration with project partner b&p engineering mobility GmbH, intends to develop a heavy-duty cargo bike that fulfils the requirements of the CEP sector, amongst others.



Background

Current cargo vehicles only partially fulfil the requirements for use in the microdepot concept. Especially for the delivery of pharmaceutical products and foodstuffs, it must be possible to regulate the temperature in the cargo containers. In addition, a central locking system and a power connection for the handscanner are also necessary before the cargo bikes can be used for package delivery. So far, CEP companies have had to compromise on the vehicles they use, which has impaired the quality and efficiency of their delivery service.

to be adapted accordingly.

Project aim

The aim is to develop a new, reliable, and high quality cargo bike to support a successful microdepot concept and replace existing cargo bikes. The new vehicle will improve both package delivery and the transport of other goods.

PROJECT LEADER

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Project structure

The new cargo bike is intended to fulfil the above requirements. In order to make this a reality, a requirements analysis will first be performed, from which technical specifications will be compiled. These specifications will be used as the basis for producing a prototype, which will then be tested in within the scope of the microdepot concept. This field test will enable any defects to be detected and the product