

PRESS RELEASE

We are e-motionlabs, we inject e-motion for safe, secure and sustainable micromobility.

e-motionlabs is a Belgian startup responding to the challenges facing electric bike or scooter-sharing schemes. Sharing schemes for light electric vehicles are gaining popularity worldwide. However, cities are facing problems caused by inexperienced, reckless users and discarded vehicles. In turn, providers have found their income is limited by costly maintenance, theft and vandalism. Our focus areas lie in the field of vehicle intelligence, rider safety, and asset security, providing our customers enabling technologies to build sustainable and transparent businesses.

e-motion

e-motion consists of a communication module the size of a USB stick that can be built into virtually any electric vehicle. At present, e-motionlabs is focusing on electric bicycles and e-scooters, since these are the most common electric vehicles. The communication module connects the vehicle to a platform where data about the vehicle and its use is collected. An app can be used to read out the current status and it is even possible to intervene actively based on the needs of the moment. This unique, patented two-way communication tool opens perspectives for applications that can considerably increase safety and sustainability.

For example, e-motion makes it possible to limit the maximum speed of the vehicles during certain periods and within certain areas. It is also possible to acquaint drivers step by step with the electric motor based on effective experience and usage. If a vehicle is stolen, it can be localised and the motor can be disabled remotely. If vandalism occurs, a deterrent alarm can be activated. A live diagnosis makes it possible to organise maintenance more efficiently or to run updates and repairs to the electric motor system remotely. Battery health can also be monitored in detail. Thanks to e-motion, you can obtain objective information about the status of the battery's residual value and capacity. This can stimulate reuse and considerably increase the lifespan. At present, after all, batteries are all too often scrapped on the basis of assumptions about their capacity.

e-motion is currently in an intensive development phase for roll-out in 2019. To begin with, the technology will be implemented in KINGO, the smart electric bike with which e-motionlabs has been setting up tourist bike hire projects since 2016. Starting in the spring, a consumer application for electric bicycles will also be launched in partnership with a bicycle manufacturer. The preparation of projects to integrate e-motion into electric bike and e-scooter sharing schemes in Belgium and abroad is also underway, alongside solutions for commercial fleets owned by mail-order companies or leasing businesses.

e-motionlabs

e-motionlabs is a Belgian start-up based in Hoeselt, nearby the cities Liège, Aachen and Maastricht. Since 2016, it has been developing smart electric bicycles for tourist bike hire. Electric bikes fitted with a navigation tablet are available under the name KINGO. For efficient fleet monitoring, the tablets are fitted with the technology that now forms the basis of e-motion. Around 15,000 bicycle trips in the Benelux region have provided unique insights into how the application can be extended to mobility. In this way, tourism has provided a laboratory for the development of e-motion. This laboratory will be continued in 2019.

Contact details for editors

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