

Press Release



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Funded project ALPHa launched: AI platform for battery circularity in micromobility

The research and development project ALPHa has officially been launched. The aim of the project is to develop an AI-powered platform for the safe, transparent, and circular use of batteries in micromobility. The initiative is funded under the “Industrial Collective Research – Business Models and Pioneer Solutions (IGP)” program of the German Federal Ministry for Economic Affairs and Energy.

The project brings together several partners from technology development, digitalization, and the circular economy: move technology GmbH together with the consortium partners ICM – Institut Chemnitzer Maschinen- und Anlagenbau e.V., SLG Prüf- und Zertifizierungs GmbH, Ansmann AG, and Link GmbH.

With the rapid growth of micromobility—particularly e-scooters, e-bikes, and other Light Electric Vehicles (LEVs)—the number of used batteries is increasing significantly. At the same time, new regulatory requirements, such as the European Battery Regulation, are raising the bar for documentation, safety, and traceability. This is precisely where the ALPHa project comes in.

The platform will digitally capture, assess, and document battery conditions, connect workshops, recyclers, and other market participants, and thereby create the foundation for a scalable circular economy for LEV batteries. The project will develop, among other things:

- a digital platform with a marketplace for used batteries
- AI-based assessment and prediction models for battery health
- a digital certification system for transparent documentation
- a knowledge database for repair, maintenance, and recycling
- training and certification structures for workshops and market participants

The project is structured into several development phases, ranging from requirements analysis and platform development to pilot testing, market readiness, and scaling.

“With ALPHa, we are laying the groundwork for transparent and scalable management of used batteries in micromobility. Our goal is to combine digital technologies, AI, and the circular economy to enable new business models while increasing safety across the entire battery value chain,” says Dr. Jörn Seebode, Managing Director of move technology.

In the long term, the project results are expected to improve the efficient use of battery resources, enhance recycling processes, and establish new market mechanisms for second-life batteries.

About move technology GmbH

move technology is a specialized service provider and solution partner that supports its clients with a holistic approach in the future fields of green energy and smart AI applications. The company relies on three core business pillars: consulting, the realization of projects and concepts including engineering and software development, and the creation of its own products. From strategic study to successful international market launch, move technology offers comprehensive industry expertise for high-tech projects, including sustainable mobility concepts, tailor-made software development, and the design of modern energy systems. The development and global scaling of its own products further accelerates the transition to environmentally friendly energy and more efficient processes.

Through this commitment, move technology strengthens its clients' competitiveness and makes a substantial contribution to global CO₂ reduction and the realization of the Sustainable Development Goals (SDGs).