

## **AIT Austrian Institute of Technology**

AIT Austrian Institute of Technology is Austria's largest non-university research institute and a highly specialised research and development partner for industry. Around 1,400 employees work across Austria on the development of tools, technologies and solutions for the key infrastructure issues of the future, in line with AIT's motto "Tomorrow Today".

At the AIT Center for Transport Technologies, around 200 experts are working on solutions for sustainable, safe, intelligent and future-proof mobility. The Center's research focuses on material-based lightweight design, electrification of the propulsion train, electrical energy storage, and resilient transport infrastructure. This also includes environmentally compatible and intelligent production technologies for mobility components.

With its comprehensive system know-how, scientific expertise, modern laboratory infrastructure and long-standing international experience, AIT supports industry and society in advancing climate-friendly mobility solutions. In the context of Battery2Life, this expertise is particularly relevant for improving how electric vehicle batteries can be assessed, managed and reused after their first life in mobility applications.

### **AIT's role in the project:**

Within Battery2Life, AIT focuses on the development of a novel Battery Management System based on circular economy principles, addressing both first-life and second-life battery requirements. AIT is working on wireless communication between the master Battery Management System and the module management system, with the aim of improving the disassembly and reassembly process for second-life applications.

In addition, AIT integrates strain and pressure sensors into existing battery modules. These sensors will support an improved estimation of the battery condition and contribute to increased safety during second-life use. Through these activities, AIT contributes to making the reuse of electric vehicle batteries more reliable, practical and suitable for future stationary storage applications.



