InnoBMS

Dear reader,

Throughout 2026, the InnoBMS consortium advanced its situationally aware battery management system, which uses real-time battery data to adapt charging and discharging strategies, improve state-of-charge estimates, and optimise performance without compromising battery lifetime or safety.
A key achievement was Milestone 7: the project completed, integrated, and tested the embedded Edge software and the core software for the wireless sub-Battery Management System, establishing the baseline for system-level validation and demonstration. Partners also shared results at events including the Connecting Europe Days and published new work on V2X scenarios for passenger electric vehicles and electric light commercial vehicles.

This fifth newsletter highlights these developments, recent project outputs, and upcoming activities. Follow InnoBMS through this newsletter, the project website, and LinkedIn for further updates.

Best regards,
the InnoBMS team

Upcoming workshop "How to Bridge the Gap"



How do we bridge the gap between BMS research and industrialisation?

The InnoBMS project is pleased to invite you to the online workshop “How to Bridge the Gap from BMS Research to BMS Industrialisation: Europe’s Readiness for Next-Generation EV BMS”, taking place on 27 November 2026, from 13:00 to 15:30 CET.

This 2.5-hour session hosted by the InnoBMS project brings together six leading EU-funded research projects — InnoBMS, NEXTBMS, NEMO, BATSS, DigiBATT and iBattMan—alongside BEPA and 2Zero and Faraday Institute. Together, they will explore three essential steps for advancing next-generation Battery Management Systems (BMS) from TRL 4 towards industrialisation.

What to expect

- The European Commission’s roadmap and requirements for next-generation BMS, including expectations for EU-funded projects from 2Zero and BEPA
- Session 1: Data, Models and Semantics Foundations, with NEMO, NEXTBMS and DigiBATT
- Session 2: Next-Generation BMS Concepts and Technologies, with BATSS and InnoBMS
- Session 3: Seamless BMS Connectivity and Validation, with iBattMan and InnoBMS
- The Faraday Institution’s perspective on current research priorities, future directions and what research projects need to accelerate industrial uptake

Save the date and join the conversation on the future of EV battery intelligence.
Register here: https://forms.cloud.microsoft/e/U9APFmRefJ

InnoBMS Achievements

Milestone 7 achieved – With the completion of D3.1 – Embedded Edge Software for BMS, the InnoBMS project has completed the development, compilation, integration and testing of all the InnoBMS software, hereby achieving MS7 of the project. Milestone 7 confirms that the final InnoBMS software components have been compiled, integrated, and tested, providing the software baseline required for the subsequent system-level validation and demonstration

activities. More details can be found on the InnoBMS website and in D3.1 Embedded edge software for BMS which is a public deliverable.

InnoBMS paper Editor's Choice Article – The InnoBMS article | Analysis of V2X Scenarios for Future-Proof Battery Management Systems: Use Cases for Passenger EVs and Electric Light Commercial Vehicles,", co-authored by Robert Alfie S. Pena, Oliver-Ferenc Janos, Pegah Rahmani, Cornel-Liviu Guias, Paul Guta, Liviu Cretu, Sajib Chakraborty, Omar Hegazy has been selected as Editor's Choice Articles for the second quarter this year in the leading journal World Electric Vehicle Journal (Q1 journal)!

Project Video's – What does InnoBMs want to achieve? What is the role of modelling in the development of new generation Battery Management Systems and how do Cross-border HiL setups impact next-generation electric vehicles? For answers to all these questions and more, please check the InnoBMs YouTube channel InnoBMS - YouTube and find out how InnoBMS is developing and showcasing the best-in-class BMS hard- and software solution for next-generation vehicles!

General Assembly #5



The fifth InnoBMS General Assembly (GA) was held in Novi Sad, Serbia on the 15th and 16th of October 2026, hosted by project Partner Typhoon Hill. The first day focused on the advanced functionalities testing in the edge and HiL setup and summarizing the internal workshop held 13-14 October between the modelling partners IDIADA, Cidetec, University of Ljubljana, AVL, BOSCH, VUB and Typhoon Hill. The day ended with a technical tour and consortium dinner.

During the second day the InnoBMS partners were updated on the individual work conducted by the WP2 partners on the advanced functionalities, followed by an update on WP3 concerning the BMS development of the new SBMS and the progress in developing wireless communication between the different BMS components. Finally, the consortium received an update from WP4 on the project hardware development, functional safety testing and integration of the advanced sensors. The 5th GA ended with an overview of the Dissemination, Communication and Exploitation activities. Please check the video on the InnoBMS YouTube channel.

InnoBMS at the Connecting Europe Days



From the 28th of September until the 1st of October 2026, project partners VUB and UNR represented the InnoBMS project and the COLLABAT cluster during the 2026 edition of the Connecting Europe Days. As part of the event Exhibition area, the InnoBMS team presented the project to over 3700 event participants with a wide interest in mobility. Beside presenting some of the promising project results, the InnoBMS team also used this opportunity to reach out to other projects in various fields of mobility to find shared interests and discuss the potential for future collaboration between the projects. If you want to know more about the Connecting Europe Days, the InnoBMS stand at the event or get an impression through the photos and videos, check out the event website.

Publications and project results

Since the last newsletter, the following InnoBMS project results have been published.

- Pišek, J., Katrašnik, T., & Zelič, K. (2025). PyBEP: An Open-Source Tool for Electrode Potential Determination from Battery OCV Measurements. Batteries, 11(8), 295.
- Robert Alfie S. Pena, Oliver-Ferenc Janos, Pegah Rahmani, Cornel-Liviu Guias, Paul Guta, Liviu Cretu, Sajib Chakraborty, Omar Hegazy, "Analysis of V2X Scenarios for Future-Proof Battery Management Systems: Use Cases for Passenger EVs and Electric Light Commercial Vehicles," World Electric Vehicle Journal 17/9 August 2026.

Click here to view all publications. Results can be found on this page.

Facts and Figures

Acronym: InnoBMS
Duration: 42 months
Start date: 01-01-2024
Total budget: € 5,672,894.38
EC Funding: € 4,013,441.88

Want to know more about InnoBMS?

Be sure to follow InnoBMS on LinkedIn, or check out our website. Here you can also meet the InnoBMS partners and read more about the most recent InnoBMS results.

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Deze e-mail is verstuurd aan {{email}}.
Als u geen nieuwsbrief meer wilt ontvangen, kunt u zich hier afmelden.
U kunt ook uw gegevens inzien en wijzigen.
Voor een goede ontvangst voegt u projectsupport@uniresearch.com toe aan uw adresboek.