

PRESS RELEASE

First-of-its-kind analysis by Battery Pass Consortium reveals benefits – and challenges – of European Battery Passport

Berlin, 11 April 2024 – Today, a consortium of eleven leading international industry, technology and science organisations, announces the release of the [Value of the EU Battery Passport](#) study, which sheds light on the benefits and challenges of digital product passports for batteries and underscores their strategic importance for businesses and policymakers alike.

Titled *'The Value of the EU Battery Passport'*, the study is published by the [Battery Pass](#) project with co-funding from the German Federal Ministry for Economic Affairs and Climate Action (BMWK) and presents the first comprehensive analysis of the qualitative and quantitative benefits as well as challenges of battery passports for businesses along the value chain, policymakers, and consumers. It explores in detail where and how economic, environmental, and social value can be generated by the adoption of battery passports, which are required by the EU Battery Regulation in a bid to increase transparency, circularity and sustainability in the battery value chain. The study also describes the challenges that companies might face right now or in the future, depending on their type and size. The aim of the study is to paint a more realistic picture of the value creation of Digital Product Passports (DPP) for batteries and promote strategic engagement of the battery passport by individual stakeholders.

Key findings:

- Battery passports offer a strategic **opportunity for businesses to generate value**, foster digital and green markets, and introduce sustainable business models. Among others, the study suggests that battery passports could reduce future procurement costs (including technical testing costs) for independent operators by ~2-10% and reduce costs for pre-processing and treatment for recycling by 10-20% due to reduced sampling needs. In addition, recycling rates could be improved by ~1-2%, and ~370 to 1,300 kt of CO₂ could be saved annually in the EU through the extended service life of batteries*.
- **Policymakers** play a pivotal role in realising the benefits of battery passports by creating and enabling efficient regulatory conditions. These minimise costs for affected companies and provide support to small and medium size enterprises. The study finds that incorporating battery passports in vehicle de-registration and export procedures could potentially unlock around 5-20% of active material demand for electric vehicle batteries forecast for 2045 in Europe.
- **Consumers** stand to benefit from battery passports by being empowered to make informed decisions when purchasing or selling batteries, provided effective communication strategies are implemented.

Supported by:



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on the basis of a decision
by the German Bundestag

FIWARE Foundation e.V. - Registered at Vereinsregister Charlottenburg VR35344B, VAT ID DE309937516.

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Deutsche Bank Privat- und Firmenkundenbank AG. IBAN: DE66 1007 0024 0047 6176 00 / BIC: DEUTDE33HAN



Stefan Wenzel, BMWK Parliamentary State Secretary said: “The German government is supporting electric mobility and the ambition to create a competitive, sustainable battery production in Europe. More transparent battery value chains, enabled by the digital Battery Passport, are vital for this. Therefore, we have been funding the Battery Pass project since 2022. Its recent study underscores the importance of regulatory support for the adoption of digital product passports. It has a valuable impact on shaping future policies which promote transparency, efficiency, and environmental stewardship in the battery sector.”

The Battery Passport Value Assessment presents twelve battery passport use cases along the value chain, supplemented by an initial quantitative assessment of three of them: improved residual value assessment, improved recycling efficiency, and increased end-of-life collection. While emphasising the benefits, the study also acknowledges potential challenges as well as implementation costs and identifies interventions beyond current regulatory requirements to unlock further value.

Tilman Vahle, Battery Pass consortium lead and Director, Sustainable Mobility and Batteries at Systemiq, said: “The Battery Pass consortium breaks new ground with our industry use cases assessment. After collaborating extensively with industry stakeholders to ensure reliability, we’re pleased to validate our positive expectations. However, challenges remain, particularly for small and medium-sized enterprises who should receive government support. Next, we’re going to complete our assessment with a systems level analysis, which we will publish this autumn.”

Josef Schön, Corporate Strategy, Audi, said: “The EU Battery Pass has several advantages for the entire industry: we gain transparency about the raw materials used, their origin and the supply chain. This is important for processing and subsequent recycling.”

From 22–26 April 2024, at Hannover Messe (Hannover, Germany), the Battery Passport Value Assessment results will be available at the Fraunhofer booth in Hall 2, Stand B24. Visitors will also be able to explore an interactive visualisation of the battery passport’s impact through three deep-dive use cases. The dashboard will allow visitors to explore quantitative modeling.

The key results will also be featured on the BMWK stage in Hall 2, Stand A18, in a handover ceremony on April 22 at 1:05 pm with Parliamentary State Secretary Stefan Wenzel.

To access ‘*The Value of the EU Battery Passport*’, visit <https://thebatterypass.eu/resources/>.

**Disclaimer: This quantitative assessment relies on qualitative assumptions and generic economic estimations for non-representative technologies and thus includes inherent uncertainties as processes may be adopted or evolve over time.*

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NOTES TO EDITORS

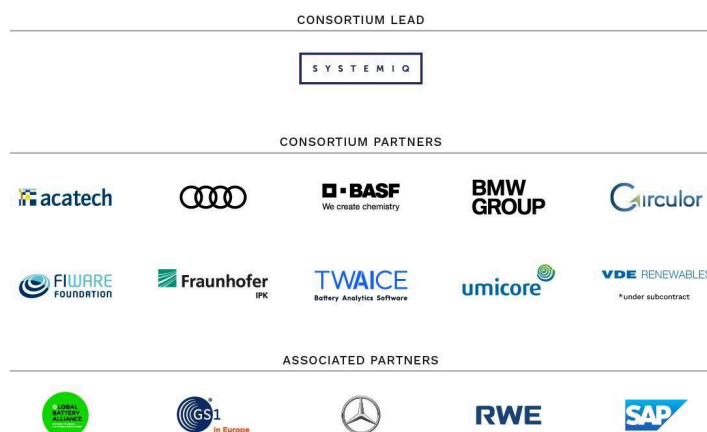
About the Battery Pass consortium

Co-funded by the German Federal Ministry for Economic Affairs and Climate Action (BMWK), the Battery Pass consortium project aims to advance the implementation of the battery passport based on requirements of the EU Battery Regulation and beyond. Led by system change company Systemiq GmbH, the consortium comprises eleven partners and a broad network of associated and supporting organisations to draft content and technical standards for a digital battery passport, demonstrate them in a pilot application and assess its potential value. The project started in April 2022 and runs over three years. Resources published by the consortium to date include the [Battery Passport Content Guidance](#), which provides a detailed perspective on the battery passport content reporting requirements as per the EU Battery Regulation and beyond, as well as the first [Technical Guidance and demonstrator](#) for the EU Battery Passport. The Guidance provides a framework and recommendations for the technical implementation of the battery passport mandated by February 2027 in the EU Battery Regulation. With the help of the battery passport demonstrator, some of the technical approaches described in the guidelines have already been verified and implemented as examples. Find out more at <https://thebatteryypass.eu/>

Consortium lead: Systemiq GmbH

Consortium partners: acatech - National Academy of Science and Engineering, AUDI AG, BASF SE, BMW AG, Circular GmbH, FIWARE Foundation e.V., Fraunhofer IPK, Systemiq GmbH, TWAICE Technologies GmbH, Umicore AG & Co KG, VDE Renewables GmbH (under subcontract).

Associated partners: Global Battery Alliance (GBA), GS1 Germany GmbH, Kompetenznetzwerk Lithium-Ionen-Batterien e.V. (KLiB), Mercedes Benz AG, RWE Generation SE, SAP SE.



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