







Ready to Comply ... with the battery passport?

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Battery Pass and BatteryPass-Ready

Tacatech .

ENUMPRE

Advancing battery passport readiness

The "Battery Pass" is a consortium of 11 partners from industry, science, technology and beyond, co-funded by BMWK aiming to provide guidance on the EU battery passport

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Fraunł

Kick-off event of

CONSORTIUM LEAD

Key facts on the Battery Pass Consortium

- Evolved from the Circular Economy Initiative Germany (CEID)
- 11 consortium partners from industry, science, technology and beyond
- Co-funded by the German Federal Ministry for Economic Affairs and Climate Action (BMWK) with EUR 8.2 mn
- Aiming to advance the implementation of and provide guidance on the EU Battery Passport
- · Five work packages including:
- Project coordination and stakeholder engagement
- Guidance on content requirements
- Guidance on technical battery passport system
- Development of a physical and software demonstrator
- Value assessment of individual use cases and overall
- · 3-year timeframe from April 2022 to April 2025



thebatterypass.eu



- - - :

BatteryPass-Ready

Delivering a test system to advance battery passport readiness

Key Facts on BatteryPass-Ready

Pre-competitive project to support industry & SMEs in implementing battery passports by delivering a test system & guidance

Four work packages including:

- 1. System requirements and stakeholder needs
- 2. Test system specification and implementation
- 3. Deployment, application and optimization
- 4. Project management and stakeholder involvement

2-year timeframe from April 2025 to March 2027

Evolved from the Battery Pass project





Kick-off event of the BatteryPass-Ready project in Berlin in May 2025



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aufgrund eines Beschlusses des Deutschen Bundestages

Digital Battery Passport

A pioneer of digital product passports in the European Union

Digital Battery Passport

Battery Regulation: Battery Passport mandatory from 18 Feb 2027 for:

- Electric vehicle (EV) batteries;
- Light means of transport (LMT) batteries;
- Industrial batteries > 2 kWh.

Responsibility:

- Economic operator¹ placing the battery on the market
- Indirectly: suppliers

DPPs in the EU

Ecodesign for Sustainable Products
Regulation (ESPR) sets the technical
framework + several other legislations
include DPPs

Single Market Strategy:

- "The EU needs a paradigm shift from a document-based to a databased Single market [...]
- DPP will become the main tool across all future product legislation



Objectives of DPPs



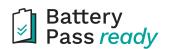
Drive digitalisation in B2B, B2C and B2G (incl. burden reduction)



Enable shift from linear to circular economies

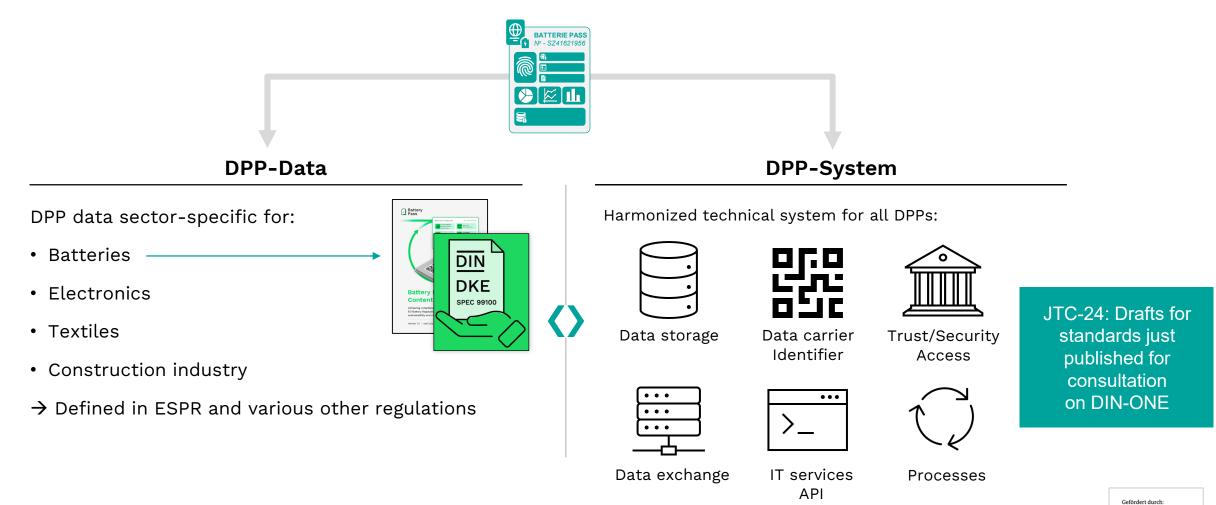


Drive sustainable and transparent value chains





The DPP can be separated into data and the technical system



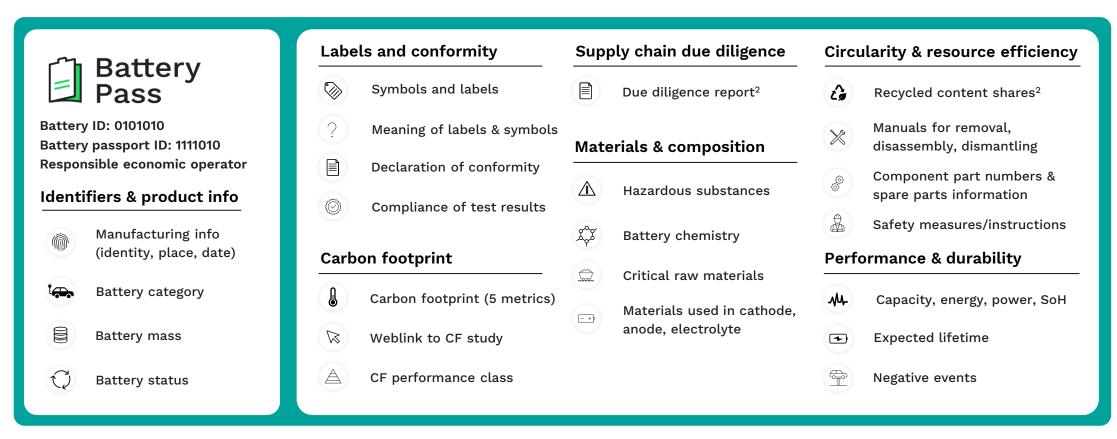




Battery Passport Data

Data categories for the battery passport¹ (select data attributes shown below)

Various data points are not defined in detail or still being specified through delegated acts and standardization efforts



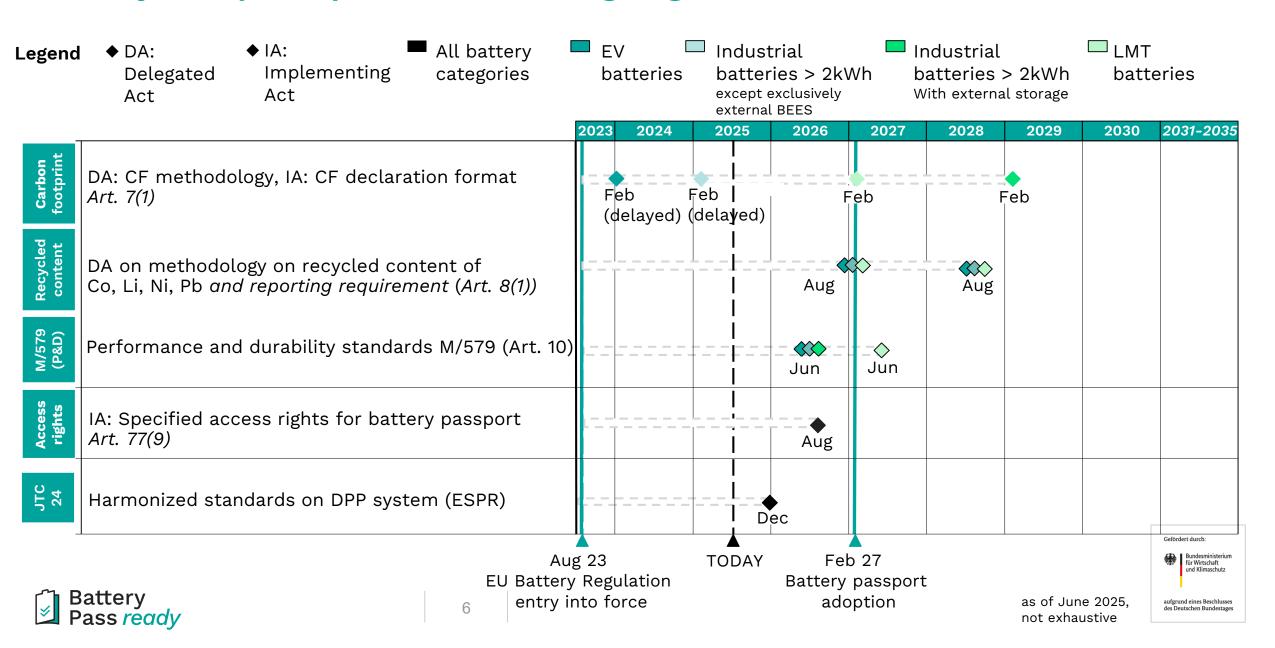


¹ Battery Pass; https://thebatterypass.eu/; DIN DKE SPEC 99100

² Applies at a later point in time



Battery Passport specification is ongoing at Commission and standardisation



BatteryPass-Ready builds a test system

Based on the work of Battery Pass





Content Guidance
WHAT data is included?





Technical Guidance

HOW to build it technically?







Demonstrator

HOW can it look in practice?





Value Assessment

WHY is it a value creator?





HOW to **TEST** my solution?



Data and technical system requirements



Test system, optimized with stakeholders



Guidance for policy & industry



Gefördert durch:

Bundesministerium
für Wirtschaft
und Klimaschutz

aufgrund eines Beschlusses
des Deutschen Bundestages

BatteryPass-Ready creates a test system

Responding to Key Challenges

Challenges in the DPP Ecosystem

High complexity of overall system

- Automated multi-organisation collaboration;
- High system load conditions.

Tight time frame

- Technical standards (JTC 24) by end 2025;
- Delegated acts ongoing for data standards.

Dynamic ecosystem and moving targets

- Changing system specification & data;
- Frequent validation needed.

Purpose of BatteryPass-Ready test system





Validate data completeness and plausibility



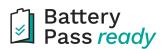
Verify system functions, consistency and interoperability



Make stakeholder perspectives count



Guidance for policy and implementers



Gefördert durch:

Bundesministerium für Wirtschaft und Klimaschutz

aufgrund eines Beschlusses des Deutschen Bundestages

To maximise value creation, businesses need to take urgent action



Assess implementation requirements

- Initial battery passport software development and hard-ware set-up
- Data collection and management
- Battery passport operations



Identify strategic opportunities

- Assess which benefits are possible (revenue, cost, funding, resilience, emissions, materiality, social benefit optimisation)
- Establish a business case and model impact metrics
- Define an implementation roadmap



Select implementtation strategies

 by leveraging and enhancing internal capabilities, sourcing capabilities, and/or joining forces with industry peers. E.g. SMEs may benefit from 3rd-party passport providers







Want to keep informed or get involved?

We appreciate your interest in "BatteryPass-Ready" and welcome contributions. If you would like to learn more about the "BatteryPass-Ready" project, follow us on LinkedIn, subscribe to our newsletter or contact us.



This project receives funding from the German Federal Ministry for Economic Affairs and Climate Action by resolution of the German Bundestag under grant agreement No 16BZF363C

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Webinar on July 14th 10-11.30 am





(BatteryPass-Ready will soon host resources here, too)