



**Battery
Pass**

thebatterypass.eu

Closing Event

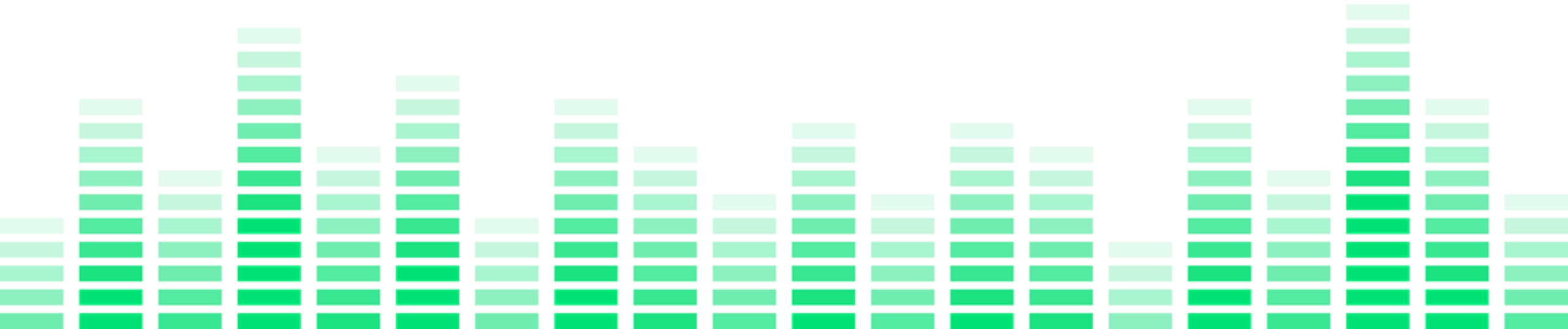
25 February 2025, Brussels

Supported by:



on the basis of a decision
by the German Bundestag

From Concept to Blueprint: Battery Passports as Enablers of Transparent, Competitive, and Circular Value Chains.



PRESENTATION

The Economic Case for Battery Passports: Unlocking the Value of the EU Battery Passport



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We consider battery passports as transformation tools



Battery ID: 0101010

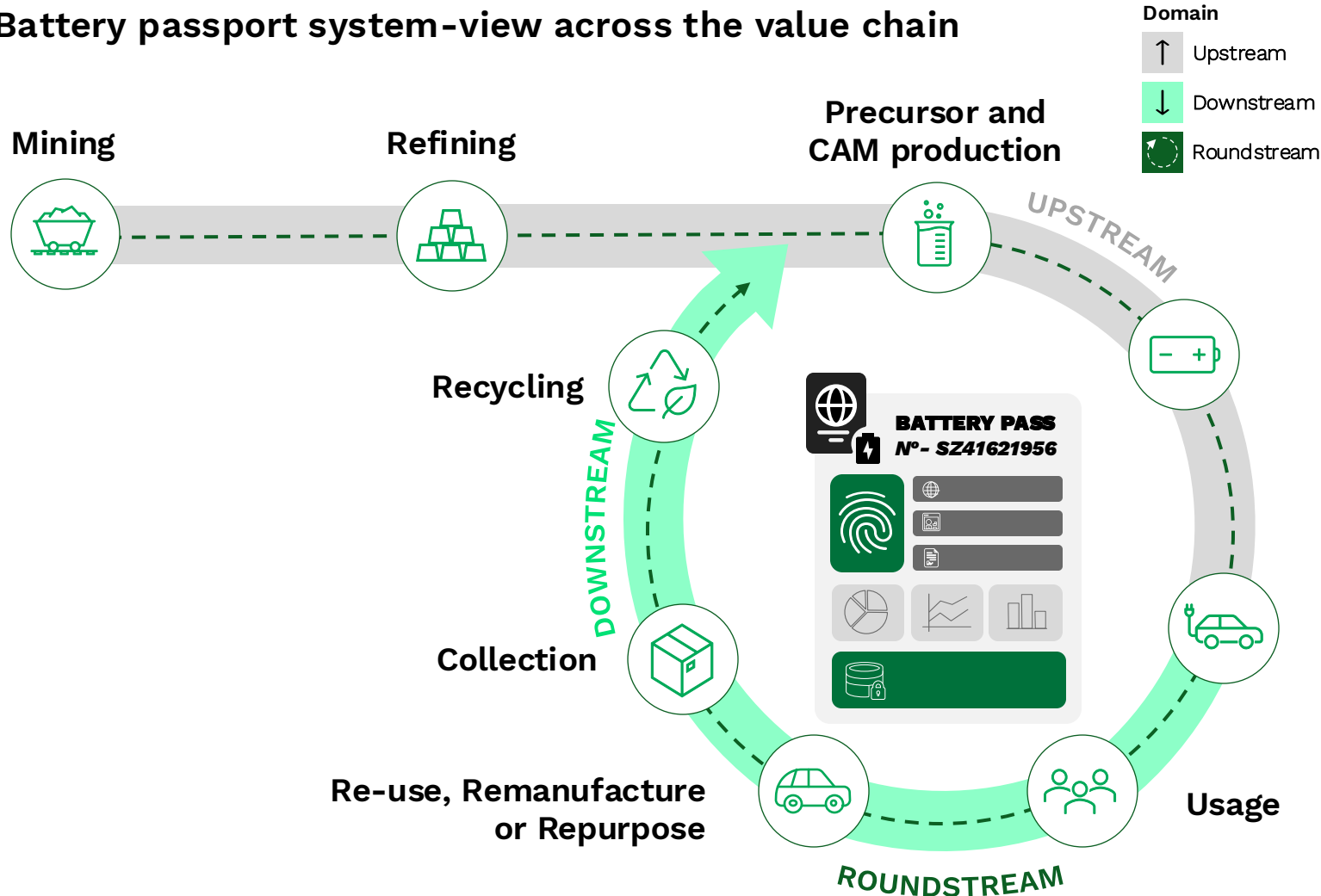
1. General information
2. Labels and certifications
3. Carbon footprint
4. Supply chain due diligence

5. Materials and composition
6. Circularity & resource efficiency
7. Performance and durability

- ✓ Situational awareness
- ✓ Profound decision making
- ✓ Product-as-a-service
- ✓ Individualised use cases

Battery passports can boost value in 3 domains

Battery passport system-view across the value chain



Battery passports will enable...

Level playing field

ESG profiling as additional competitive advantage

Closer ties with suppliers and customers

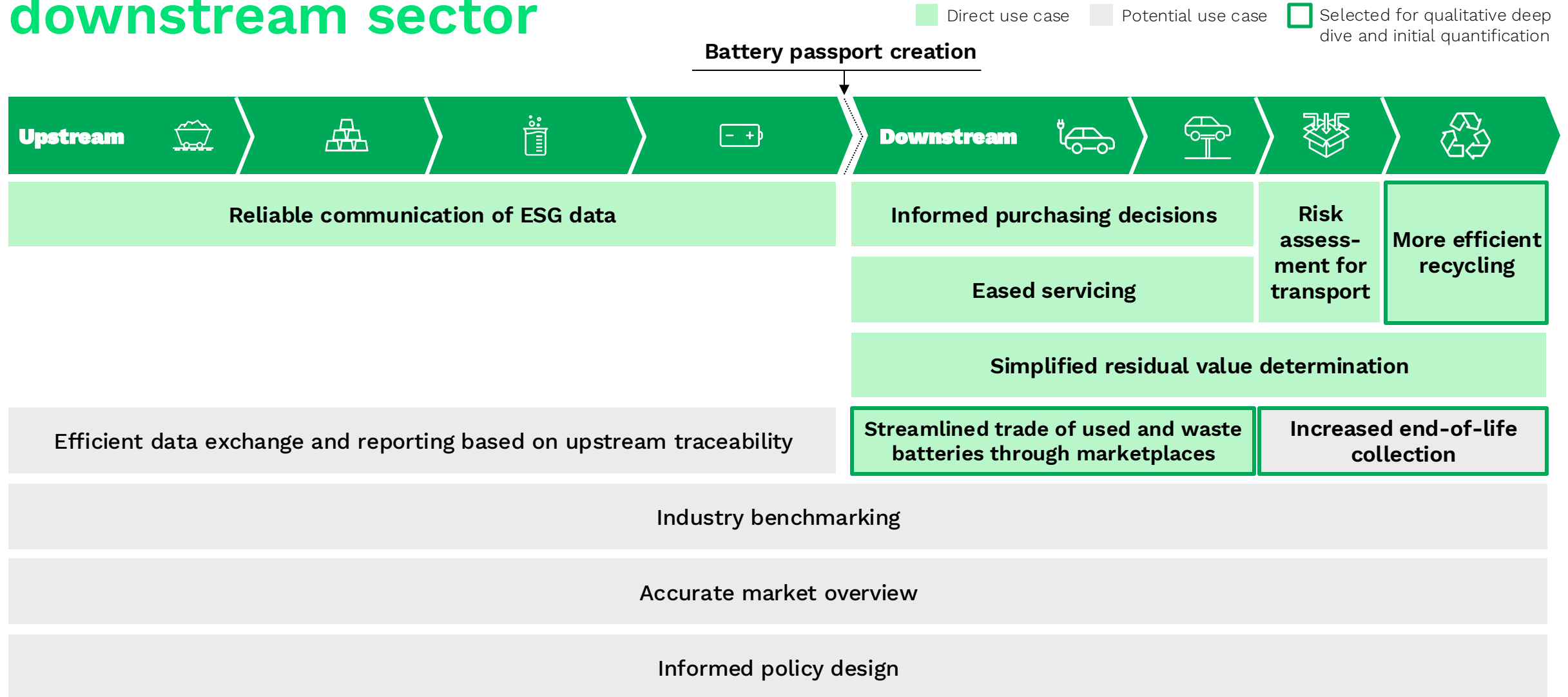
End-of-life process management, development, and optimization

Secondary raw materials more affordable, available, and tuned to needs

Digitalized value chain to enable aligned R-strategies, and circular battery designs

Triggering self-reflection to support organizational change

We have identified several use cases, particularly in the downstream sector



Of the use cases we identified, we detailed and quantified three



Increased end-of-life collection

Additional downstream information could support authorities in preventing “battery leakage”

↓ Reduction of illegal export

↓ Reduction of illegal treatment



Simplified residual value determination

Performance and durability data enable businesses and private users to better assess the residual value of the battery

↓ Reduction of technical testing costs

↑ Increase in batteries going into a second-life application



More efficient recycling

Availability of data on battery composition and dismantling enables more efficient recycling processes

↓ Reduction of sampling cost

↓ Reduction of dismantling cost

↓ Process control optimisation

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 environmental impact metrics
- Define an implementation roadmap



Select implementation 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



Interested in further details? Find the full results here!



Scan for additional **Battery Pass resources** on the:

- Battery Passport Content Guidance & DIN DKE SPEC 99100,
- Battery Passport Technical Guidance
- Battery Passport Value Assessment
- and Software Demonstrator