



**Battery  
Pass**

thebatterypass.eu

# Closing Event

25 February 2025, Brussels

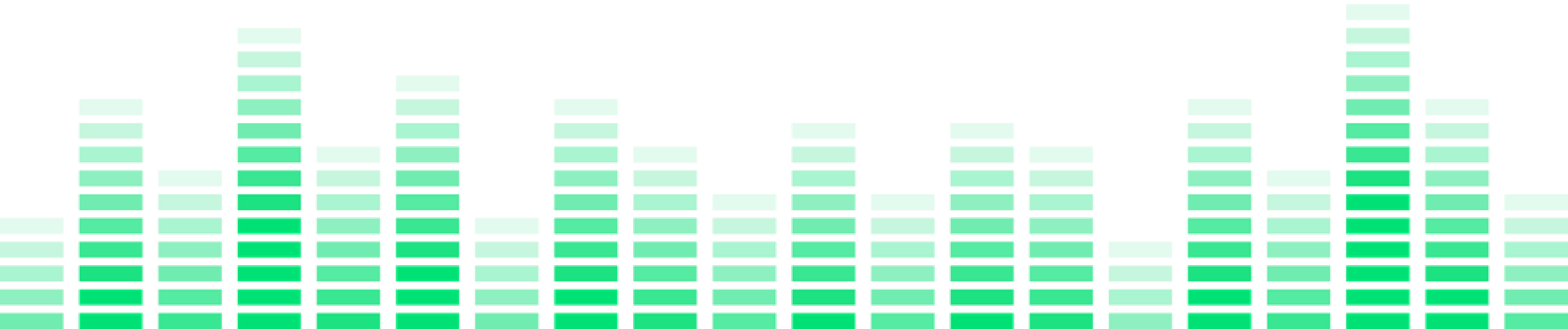
Supported by:



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.



KEYNOTE

# Battery Pass: Key Insights and Impacts



Tilmann Vahle  
Systemiq

# The battery passport will be mandatory for nearly all batteries in the EU from 2027 onwards



## Timeline

- Mandatory from 18 February 2027



## Scope

- Electric vehicle (EV) batteries
- Industrial batteries > 2 kWh
- Batteries in light means of transport (LMT)
- ~90 data points across seven categories



## Responsibility

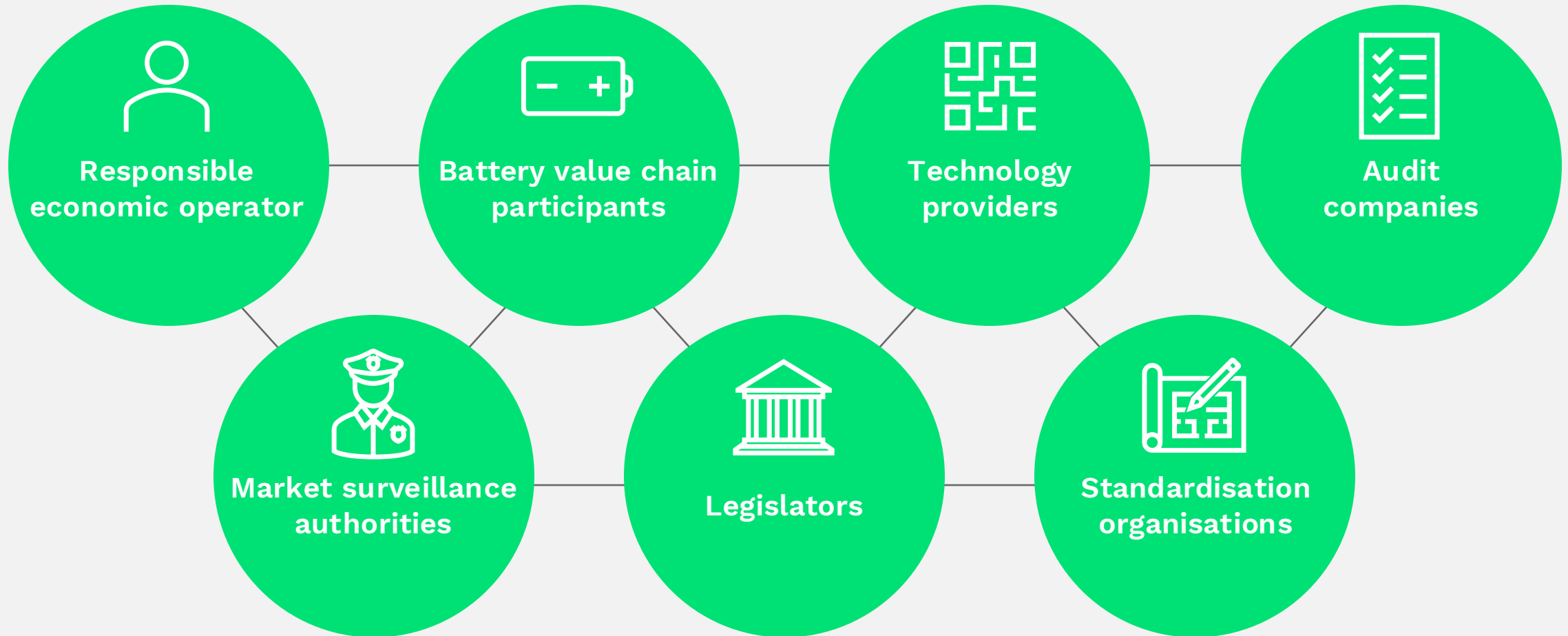
- Economic operator (or representative)
- Indirectly: suppliers



## Stakeholder Groups

- 1) The “general public”
- 2) Notified bodies, market surveillance authorities and the Commission
- 3) Natural or legal persons with “legitimate interest”

# The battery passport affects the entire battery ecosystem



# We have developed key elements for establishing digital battery passports



## Content Guidance

WHAT data is included?



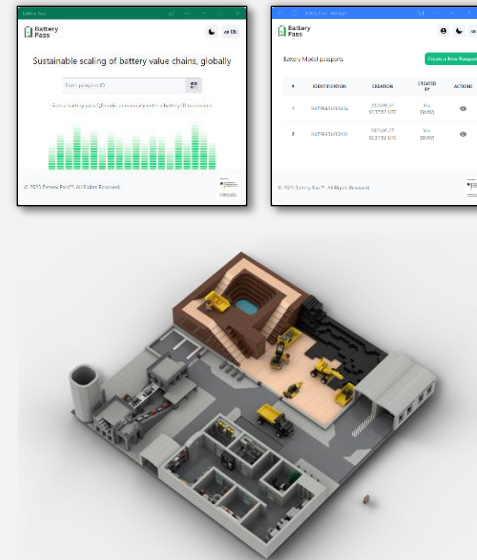
## Technical Guidance

HOW to build it technically?



## Demonstrator

HOW could it look like in practice?



## Value Assessment

WHY is it a value creator?



# The consortium evolved out of the Circular Economy Initiative Germany (CEID) dating back to 2016



2016

Decision to found the Circular Economy Initiative Deutschland (CEID)



2019

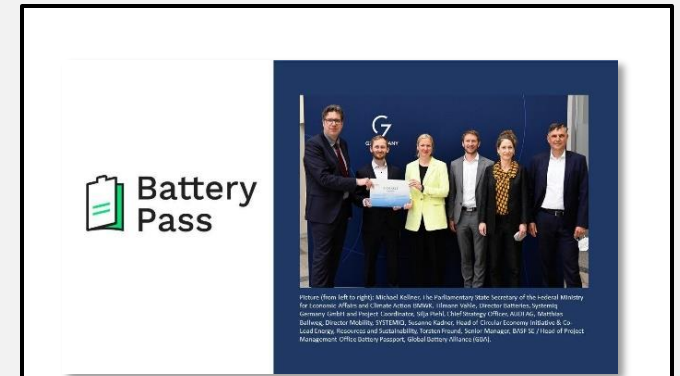
Launch of the CEID with Secretary of State Hr. Rachel (BMBF)



2020/2021

Publication CEID Reports

- EV batteries
- Packaging
- Business Models
- National Roadmap



2022

Implementation of the CEID pilot via publicly funding project (BMW, CDU)

Launch of the “Battery Pass” Project with Secretary of State Mr. Kellner (BMW, Grüne)

# Our resources have been accessed by over 60.000 stakeholders across the EU and beyond

>100

Presentations at leading events

>60k

Total website visitors

>37k

Publication downloads

>1,5k

Newsletter subscriber

## Broad media coverage (Excerpt)

TAGESSPIEGEL  
BACKGROUND

WELT

S&P Global  
Commodity Insights

Minjng Magazine

(idw)

Informationsdienst Wissenschaft

bvse

Fachverband Schrott,  
E-Schrott und Kfz-Recycling

SMART ENERGY  
INTERNATIONAL

DEKRA

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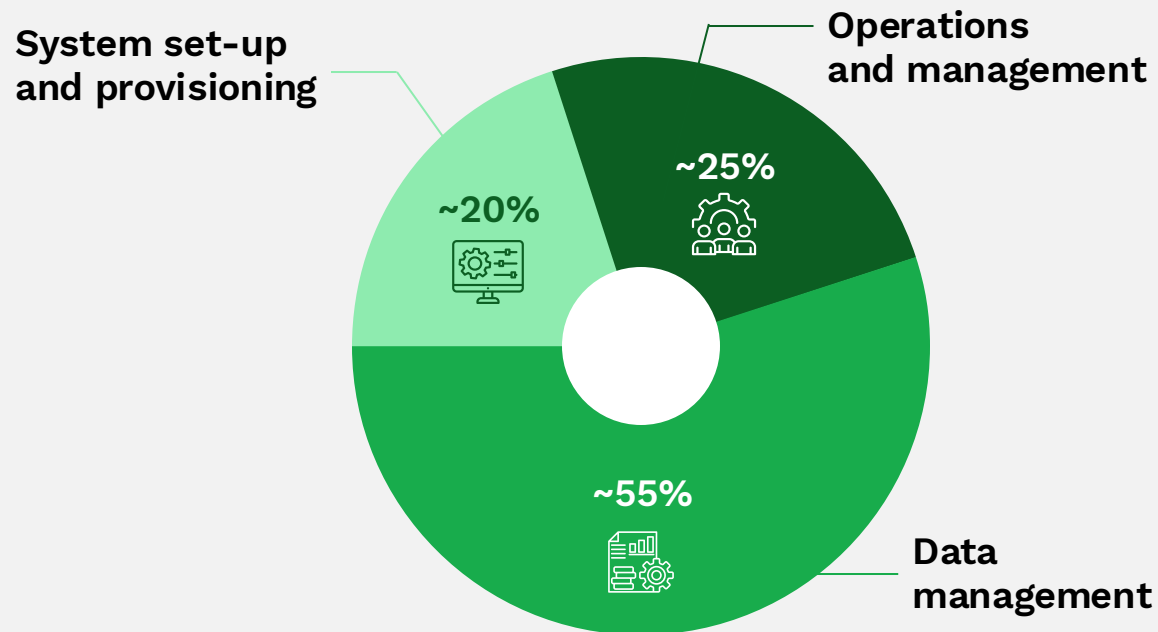
Capgemini

FORRESTER®

# Businesses and policymakers need to take action to optimise implementation of the battery passport



## Relative effort of implementation tasks of the battery passport



**Disclaimer:** Values in the chart are based on limited data with high divergence → numbers should only be interpreted directionally



## Take-aways for businesses and policymakers

-  Data management is expected to be the core implementation effort (~55%)  
→ Businesses need to establish the right processes and technologies to streamline data management
-  90%+ of required implementation tasks translate to fixed costs  
→ Businesses need to assess readiness now and choose the right implementation strategies
-  Businesses experience significant regulatory uncertainty on implementation requirements  
→ Policymakers to specify regulation based on a “need to know” logic



# Findings of Battery Pass create impact in other projects

## Some examples



- 18-month initiative (Oct 2022 – Mar 2024)
- 31 partners, cross-sectoral DPP context
- Focus: Batteries, Textiles, Electronics



- Ongoing alignment on DBP semantic data model
- Cooperation with CATENA-X expert group
- Based on GAIA-X data space technology



- Leading global voluntary passport initiative
- Defines data collection, auditability and liability for DBPs
- Cooperation e.g. on CO2, technical methods

## ... and many more



CircuBAT



bat  
wo  
man



zvei

electrifying  
ideas



IDTA

DKE

**DPP4.0 - The Digital Product  
Passport for Industry 4.0**



# Interested in further details? Find the full results here!



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

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