

International Battery Workshop:

THE SECURE HANDLING OF DATA FOR A GLOBALLY NETWORKED CIRCULAR VALUE CREATION

USA / CANADA PERSPECTIVES ON
DATA GOVERNANCE IN THE CIRCULAR ECONOMY



- PANEL A -

THE BATTERY PASSPORT AND DATA GOVERNANCE RULES

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EXPERTS:
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HOST: UWE SEIDEL, VDI/VDE-IT

PANEL A | HYPOTHESES

- **The digital product passport is the leading tool for data governance** The digital product passport is the leading mechanism to establish the governance rules to foster data quality, access, protection, authentication, and independent verification with the aim of enabling the end consumer to compare evidence-based, verifiable sustainability performance of individual products based on trusted data.
- **A data governance framework based on broad consent is urgently needed** There is an urgent need for a data governance framework to establish an equal playing field regarding the collection, standardization and disclosure of data to facilitate confidence and credibility in the data system for product passports and digital traceability systems, as a crucial part of industrial policy.
- **Data governance frameworks need to be harmonised** Different, competing national regulatory specifications for solutions will create fragmentation and failure. Data governance frameworks should be harmonised now before different rules are set in different markets!

PANEL A | HYPOTHESES – KEY POINTS

THE BATTERY PASSPORT AND DATA GOVERNANCE RULES

The digital product passport is the leading tool for data governance

Data governance frameworks need to be harmonised

A data governance framework based on broad consent is urgently needed

- PANEL B -

CREATING THE DATA BACKBONE – CATENA-X

ADVOCATE: **ADRIAN VON MÜHLENEN, CATENA-X;**

EXPERTS: **ERICH BARNSTEDT, MICROSOFT, DIGITAL TWIN CONSORTIUM**

JONATHAN WISE, CESMII

JOHN MCGRATH, ROCKY MOUNTAIN INSTITUTE

HOST: **CHRISTOPH SPRUNG, VDI/VDE-IT**

PANEL B | HYPOTHESES

- Catena-X is an integrated, collaborative, open information ecosystem for the automotive industry. With its unique approach to administer the exchange of information between users, Catena-X has the potential to provide the digital solution for a globally interconnected value chain of substances, processes and products in different industries, thereby providing new business cases.
- Catena-X is built on mutual trust and a common understanding of values to ensure secure data exchange, long-time availability and global utilisability of information based on the international data space association (IDSA) and European initiative Gaia-X.
- The Battery Passport is a prime application domain for Catena-X, allowing to reveal its potential for a united exchange of dynamic information across a wide variety of industry branches from raw material production, product manufacturing, monitoring first and second life application to material recycling and re-entering the value chain.

PANEL B | HYPOTHESES – KEY POINTS

CREATING THE DATA BACKBONE – CATENA-X

Battery passport lends itself as a prime example of a cross-sectoral application of Catena X.

Inclusion of dynamic data would open new business cases in particular for used batteries (2nd hand EVs, stationary applications, etc.)

Catena-X will ensure the secure exchange of data based on mutual trust and a common understanding of values.

Catena X can leverage on the experience with the automotive sector to deliver services also in other domains (e.g. textiles).

- PANEL C -

TOWARDS A DATA-DRIVEN CIRCULAR ECONOMY

ADVOCATE: **DOUGLAS JOHNSON-POENSGEN** CEO, CIRCULOR;

EXPERTS: **BOB GALYEN**, GALYEN ENERGY;
BRIAN ENGLE, AMPHENOL

HOST: **ROMAN KORZYNIEZ**, VDI/VDE-IT

PANEL C | HYPOTHESES

- **Most will only share data with a clear business opportunity.**

Major partners in the economic system are convinced that data sharing is necessary to move forward in the circular economy, but few are willing to share data unless there is a clear business opportunity. In order to incentivize data sharing, we need not just to consider the regulation/compliance aspect in the design of the governance, but also business opportunities.

- **For CE reliable data is essential to understand the big picture.**

Circularity is more than just recycling. It also includes maintenance, re-use, refurbishment and needs to start with the design. To move from a linear to a circular economy, reliable data is essential to understand the big picture of the entire value chain and to tackle the steps with the greatest sustainable impact - environmentally, socially, economically and energetically.

PANEL C | HYPOTHESES

- **Data integrity is key and helps to create new opportunities.**

The challenge is not just about data availability, but also about quality, validation and interoperability. Data integrity is key to circular economy solutions and helps create new opportunities and business. Measuring and sharing huge amounts of data is possible as other sectors are showing. Proper access rights are mandatory.

- **The Battery Passport is a pioneering example of digital product passports.**

Thanks to the various activities to promote circular economy in Europe, the battery passport will have a high impact and has the potential to become a pioneering example of digital product passports in the circular economy. Collaborative bottom-up trials and pilots to learn and adapt are the next step.

PANEL C | HYPOTHESES TOWARDS A DATA-DRIVEN CIRCULAR ECONOMY

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The Battery Passport is a
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Leave us your questions and comments

The **slido** event will stay open
until **31st January 2023 EOB**

<https://app.sli.do/> | **#BatteryDataPanel**

