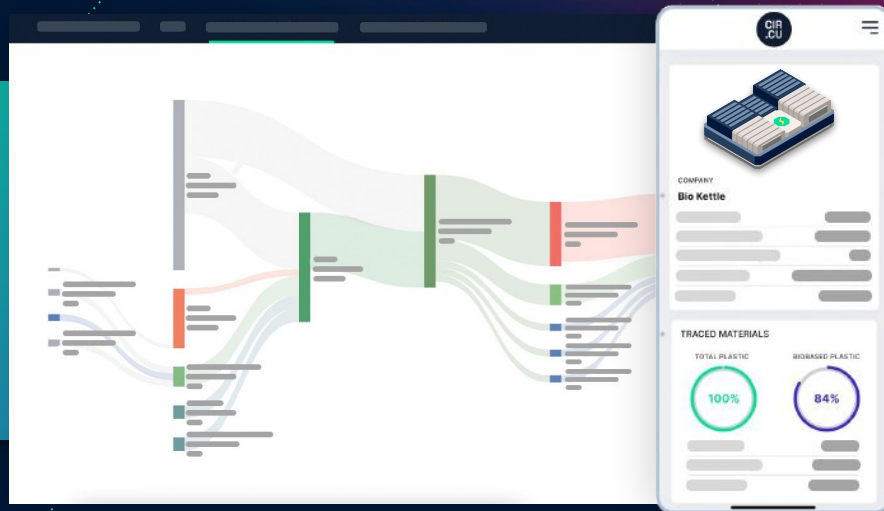


Bringing transparency and traceability to global supply chains with Digital Product passports

COMPANY PROFILE

Headquarters The Hague, Netherlands
Established 2016
Employees >40



TRENDS

Regulations - Which ones are on your radar?

Sustainable product policy & ecodesign

REGULATION OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL

establishing a framework for setting ecodesign requirements for sustainable products and repealing Directive 2009/125/EC

CHAPTER III - DIGITAL PRODUCT PASSPORT

*Article 8
Product passport*

SUSTAINABILITY

H&M, Decathlon Dial Back Claims to Dodge Greenwashing Crackdown

H&M and Decathlon will also donate €500,000 (about \$508,000) and £400,000 respectively to causes linked to sustainability in the fashion industry.

REGULATION OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL

concerning batteries and waste batteries, repealing Directive 2006/66/EC and amending Regulation (EU) No 2019/1020

*Article 65
Battery passport*

1. By 1 January 2026, each industrial battery and electric vehicle battery placed on the market or put into service and whose capacity is higher than 2 kWh shall have an electronic record ("battery passport").

Circular economy action plan

The European Commission adopted the [new circular economy action plan \(CEAP\)](#) in March 2020. It is one of the main building blocks of

Council of the EU Press release 28 November 2022 10:30

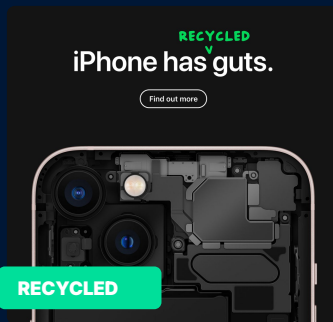
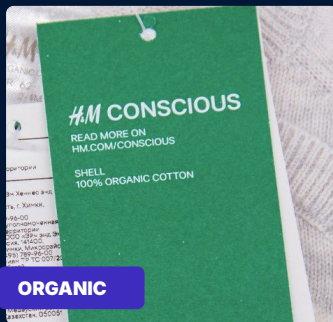
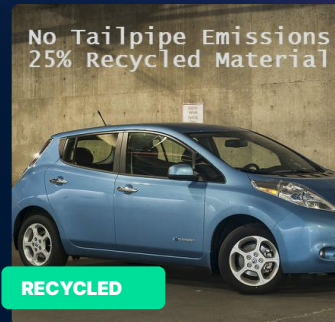
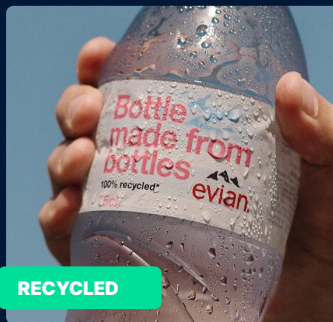
Council gives final green light to corporate sustainability reporting directive

The Council gave its final approval to the corporate sustainability reporting directive (CSRD).

This means that companies will soon be required to publish detailed information on sustainability matters. This will increase a **company's accountability**, prevent divergent sustainability standards, and ease the transition to a **sustainable economy**.

TRENDS

Net-zero & circularity claims



What are your net-zero or circularity goals? And how are they being tracked?

The Problem

Supply chain complexity and environmental impact



Lack of trust in data sharing amongst Suppliers:

- Current systems do not ensure trustful and confidential data sharing
- No incentives to share data

Lack of visibility beyond Tier 1-2:

- Limited understanding of materials and flows
- Scope 3 remains unknown
- Lack of sufficient data quality

Industry Challenges



Data Sharing

Companies have no way of communicating openly with suppliers & customers



Wasted Resources

Landfills are growing
→ Valuable materials going to waste



Green-washing

High risk
and high costs

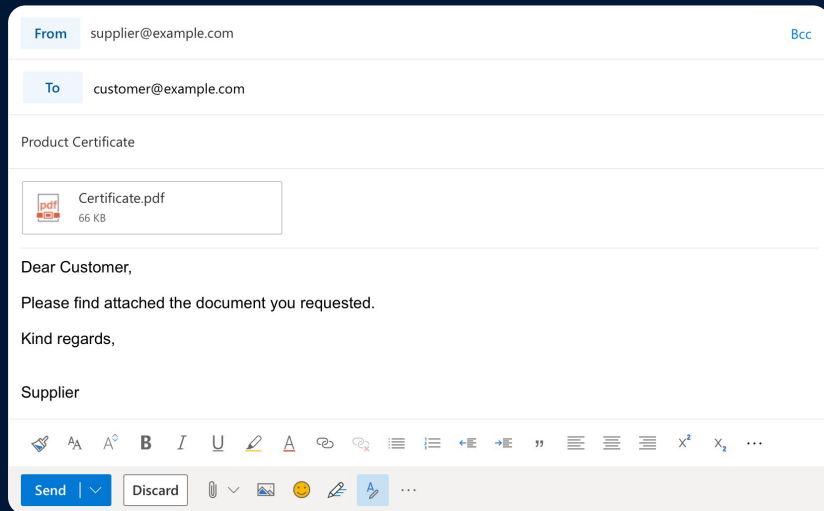


Legislation

More pressure
from governments

THE PROBLEM

Traceability today



- Labour intensive
- Prone to error and/or fraud
- Usually reactive
- Not scalable

Look familiar?

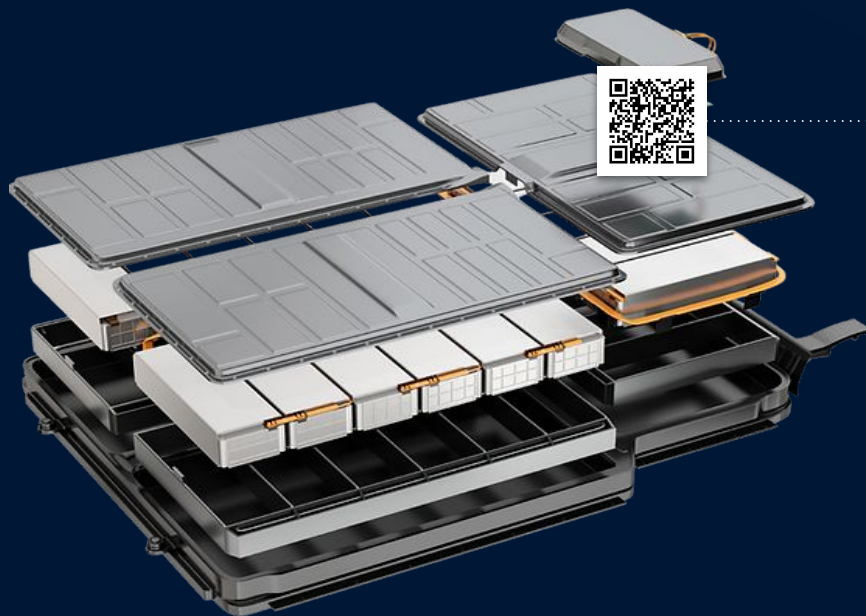
Supply chain visibility is one of the greatest barriers to achieving circularity

Circularise was founded on a vision for Circularity



Battery Passport Example

The Circularise battery passport

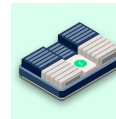


EV BATTERY

Circularise Battery Passport

Battery ID: 0xe2...DB05

500 kg



PUBLIC DATA PER EU BATTERY DIRECTIVE

Battery model	Model 1
Battery type	EV battery xyz
Product name	Power One
Manufacturing site	Kyoto Factory, Japan
Recycled content	Co 12%, Pb 85%, Li 4%, Ni 4%
Battery health	100%
Durability	200,000 km or 10 years guarantee
Performance	100 kWh
GHG emissions	5000 kg CO2 Eq
Supply chain due diligence policy	View here
Responsible sourcing	View certification
Hazardous substances	Hg <0.0005%, Cd <0.002%

ACCESS VIA SMART QUESTIONING

Declaration of conformity evidence	Download here
Certifications	Download here
Dispatch date	01/04/2023

Configurable to meet all your business and compliance needs

Create Product template

Enter template name

Frameworks

Add

Search framework...

☐ Inflation Reduction Act (IRA)

☐ European Battery Regulation (EUBR)

☐ Uyghur Forced Labor Prevention Act (UFPLA)

☐ European Deforestation Regulation (EUDR)

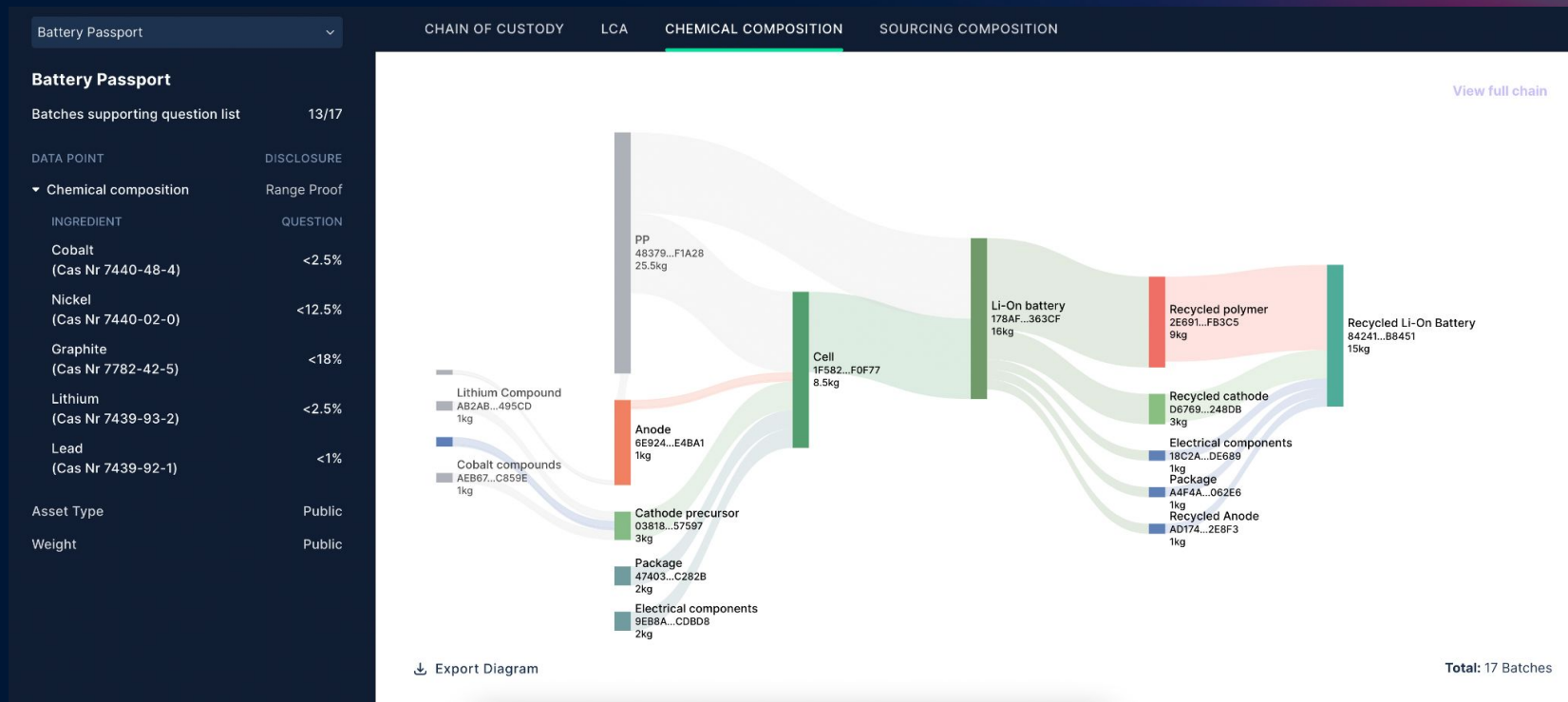
☐ Catena-X Battery Passport

Data points

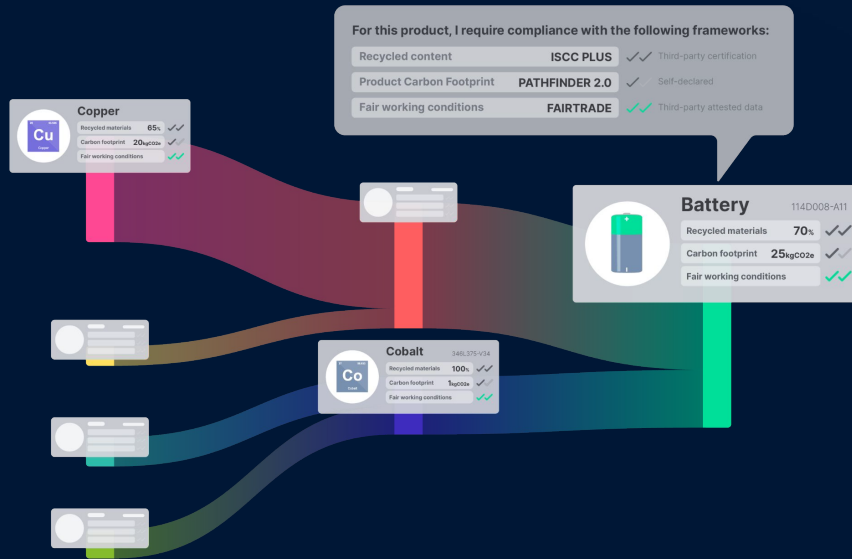
Please select question

How data points.

Chemical composition - battery passport



Why Product Traceability is Essential for Modern Supply Chains



- Increasing **regulatory** demands for sustainability and ethical sourcing.
 - Upcoming regulations require not just corporate-level sustainability reporting but granular, product-level data.
- **Consumers** and stakeholders demand greater transparency.
 - Risk of **reputational damage**, compliance issues, and fraud without robust traceability.
- **Complex** global supply chains make it **difficult** to track materials from origin to end product.

We are the Leading Innovator for Digital Traceability

FUNDED BY



CUSTOMERS



STRATEGIC PARTNERS



PRODUCT

Magnum Eco Spinner

Product ID: CA23A...90CC3

2.6 kg

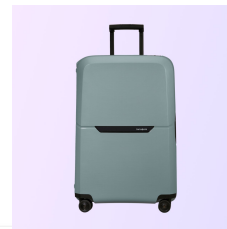
Batch traceability

Sams^onite

*Data is mocked for this demo

ACCESS VIA SMART QUESTIONING

- Manufacturing site
- Certifications
- Circular characteristics
- Sourcing composition
- LCA



Chain of custody

- 10/09/2022, 14:22
- Product created from D35AA...B661A [+2.6 kg]



Scan for a
Digital Product
Passport

Digital Product Passports by CIRCULARISE

SAMSONITE SUPPLY CHAIN



Projects

Public projects

Past:

CSERVEES (2018-2022) - Recycling WEEE

EIC Accelerator (2020-2022) - Company upscaling

Ongoing:

CSyARES (2022-24) - Rare earths, metals, mining sector, battery and magnet production.

Circular Foam (2021-25) - Polymers, plastics, polyurethane for white goods and building sector.

EuReComp (2022-26) - Aerospace, automotive and wind turbine industry and electronics.

Onto-Deside (2022-25) - Rare earths and metals sectors. Ontologies and data spaces.

PREcycling (2022-26) - Polymers in the electronics industry, children's toys.

REEsilience (2022-26) - Rare earths and metals for magnet production.

CE-RISE (2023-2026) - Critical raw materials, Electronics.

COMPASS (2024-2027) - Aerospace, automotive, composite and metals.

And more...

Constantly looking for new opportunities



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