



The leading solution for
supply chain traceability

Using data to illuminate supply chains,
help manage a company's risks, and
comply with regulations.

Proven and trusted supply chain visibility software

Circular believes in the power of new technologies to unlock old problems. Founded in 2017, their business is traceability in complex industrial supply chains. Customers, regulators, and investors require more from companies today. They want proof. Circular helps companies evidence their efforts, providing secure verifiable data that drives decisions towards greater responsibility.

The case for proven traceability

Increasing public awareness, regulatory, and investor pressures are compelling companies to better track and analyze their supply chains, drive responsible sourcing of the materials used in their products, and reduce greenhouse gas emissions.

Companies that address these challenges soonest will significantly reduce their operating risk, boost competitiveness, and increase shareholder value. The opportunity is significant and sits across all sectors and stages of the supply chain.

However, addressing the opportunity requires the right enterprise technology and supply chain digitization.



The Circular Platform

Circular's solutions track the physical flow of material, not paperwork, from source to manufacturer. They create a digital twin of the material itself, connecting supply chain participants together and creating accountability and reliable proof. Along this backbone, they can collect emission data across scopes 1, 2, and 3, as well as ESG certificates from every participant.

Their software is built on a secure, private, permission-based enterprise SaaS platform with an intuitive easy-to-use interface. It has business logic embedded, clear dependencies, and integrated operations that are multilingual.

Each solution is built around customers' supply chain and integrates easily with existing ERP platforms through RESTful Web Service APIs, meeting all security and authentication protocols.



For manufacturers, supply chain risk, resilience and compliance is more important than ever. Change is being driven by:

01. Legislation

The US Inflation Reduction Act will see more than \$360 billion in clean energy and climate provisions over the next decade. In addition to proving the provenance and production of electric vehicle batteries, the Act includes renewable energy tax credits, the 'Green Bank' investment fund, fines for emissions, grants for environmental health initiatives and \$250 billion for clean energy loans.

This landmark legislation will not only transform the US economy toward green energy and new vital climate goals but will reset the conditions for how business is done with the world's largest economy and put in place a new gold standard for the rest of the world.

02. Regulation

European Battery Regulation makes the automaker responsible for the entire value chain of its batteries and aims to ensure that batteries placed in the EU market are sustainable and safe throughout their entire life cycle. Collection, recycling and safe disposal

FSB Task Force on Climate-Related Financial Disclosures (TCFD) requests businesses disclose info regarding oversight of climate-related risks, measures taken to manage and mitigate and opportunities to improve.

Corporate Sustainability Due Diligence Directive (CS3D) seeks to introduce due diligence requirements for firms operating in Europe to foster sustainable and responsible corporate behaviour throughout global value chains

EU Carbon Border Adjustment Mechanism (CBAM) seeks to cut greenhouse gas emissions by 55% by 2030. Aim to avoid carbon leakage; targeting carbon-intensive imported products, encouraging carbon pricing policies.

Critical Minerals Strategy sets out the UK's plan to secure our supply chains, by boosting domestic capability in a way that generates new jobs and wealth, and attracts investment.

03. Supply of materials

Manufacturers and their corporations face insecurity caused by supply and material shortages, commodity and energy inflation, freight, disruptions and labour constraints—all of which are exacerbated by the ongoing pandemic and war in Ukraine. They face a multitude of potential disruptions to their businesses, however, only 2% of companies have visibility into their supply chains beyond Tier 2.

Supply chain illumination helps identify risks, gaps, and vulnerabilities which, when addressed quickly and accurately, will allow manufacturers to withstand disruption and enable the resiliency that delivers growth.

Additionally, the need to prove re-use of critical minerals, metals, and plastics in products will be central to businesses achieving their ESG and market positioning goals and building a robust case when accessing capital that is conditional on these aims being met.

04. Consumer behaviours

Consumer attitudes and behaviours towards more sustainable lifestyles continue to mature. There has been a sharp increase in the number of people who have adopted a more sustainable lifestyle in the last 12 months in the UK. A Deloitte study found consumers are tending more sharply toward buying just what they need, reducing meat consumption, opting for low-carbon modes of transport, and choosing brands that have ethical or environmentally sustainable practices and values. Similarly, they are moving away from brands because of concerns in these areas.

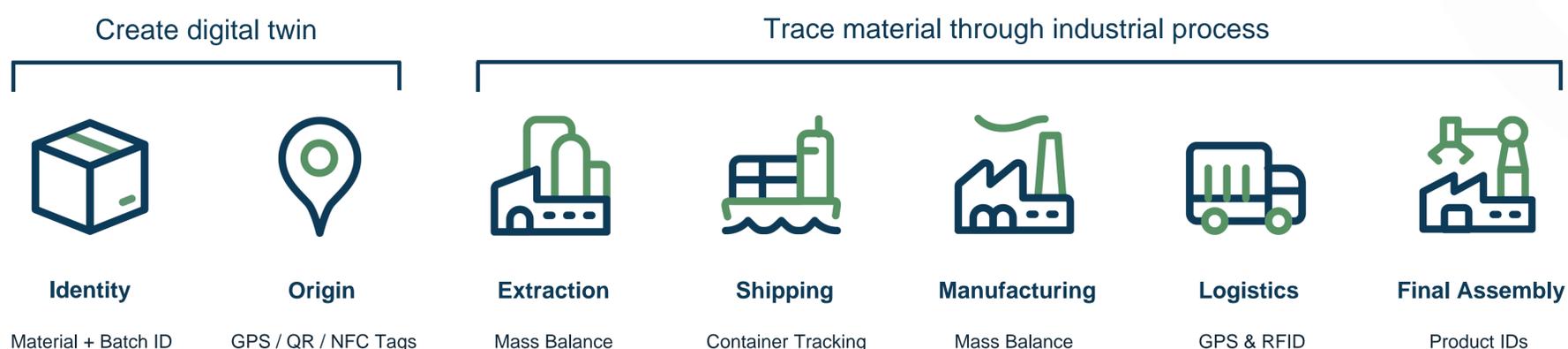
Producing sustainable packaging and products, reducing waste in manufacturing processes, committing to ethical working practices, reducing carbon footprints, and respect for human rights are the most important aspects for consumers when considering environmental and sustainable factors.

Increasingly, businesses that are able to prove their practices and credentials in these areas will enjoy certainty in their messaging, brand growth and stronger market position as a consequence.



Circular's technology mix, especially its use of the blockchain, provides data security and an immutable record which can be used as proof of responsible activity to regulators, auditors, and investors.

Delivering proven and assurable supply chains



Circular data is the backbone in creating full visibility of supply chains and proof of sustainable and compliant sourcing

- Digitizing supplier networks to ensure the provenance of materials
- Collecting CO₂-e across Scope 1, 2, and 3, and securely storing the data on an independent, verifiable ledger
- Providing dashboards to enable data-driven decision-making towards recycled versus virgin materials
- Attaching verified ESG data to projects and materials to prove delivery of ESG commitments over time

Why Circular is trusted by its customers to manage supply chain risks and ensure compliance

Most ESG-related technology solutions focus on regular reporting of internal data sources obtained from transactional or manual data collection procedures, which may not always be verifiable or accurate.

Circular uses proprietary blockchain technology to tag and track the commodity itself and record the processes it undergoes and the chain of custody including the associated and accumulated emissions as materials move downstream.

The technologies are productized to meet multiple customer needs from many industrial sectors including EV manufacturing, automotive, mining, and recycling. The applications of digitalized traceability are myriad and could be applied to the production of most goods.

01.

Material Traceability

Map and digitize supply chains to view and interrogate all activity and anomalies through easy-to-use dashboards.

02.

Battery Passports

Digital product passports designed to demonstrate the responsible and sustainable sourcing sought by EU regulations.

03.

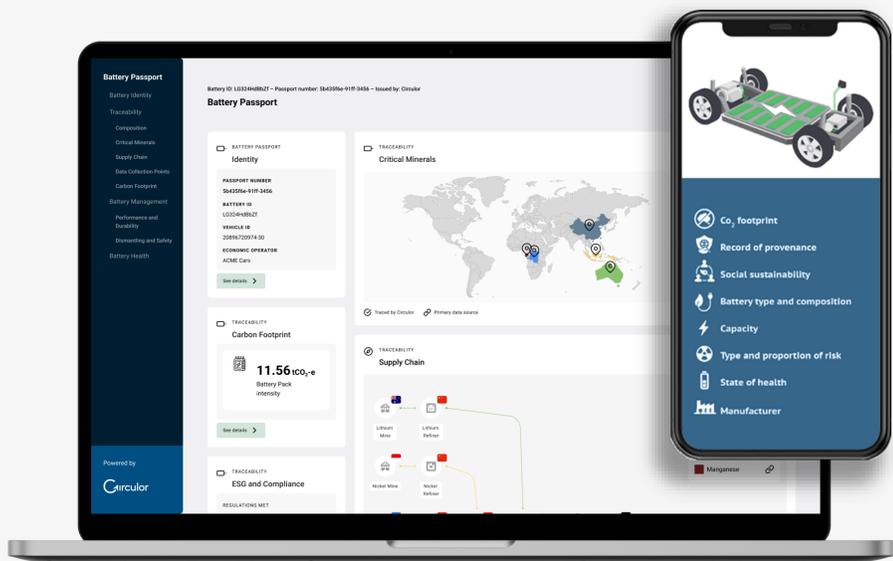
Emissions Tracking

Dynamically calculate emissions across supply chains to gain insights into accumulated CO₂-e footprints.



Digital Product Passports

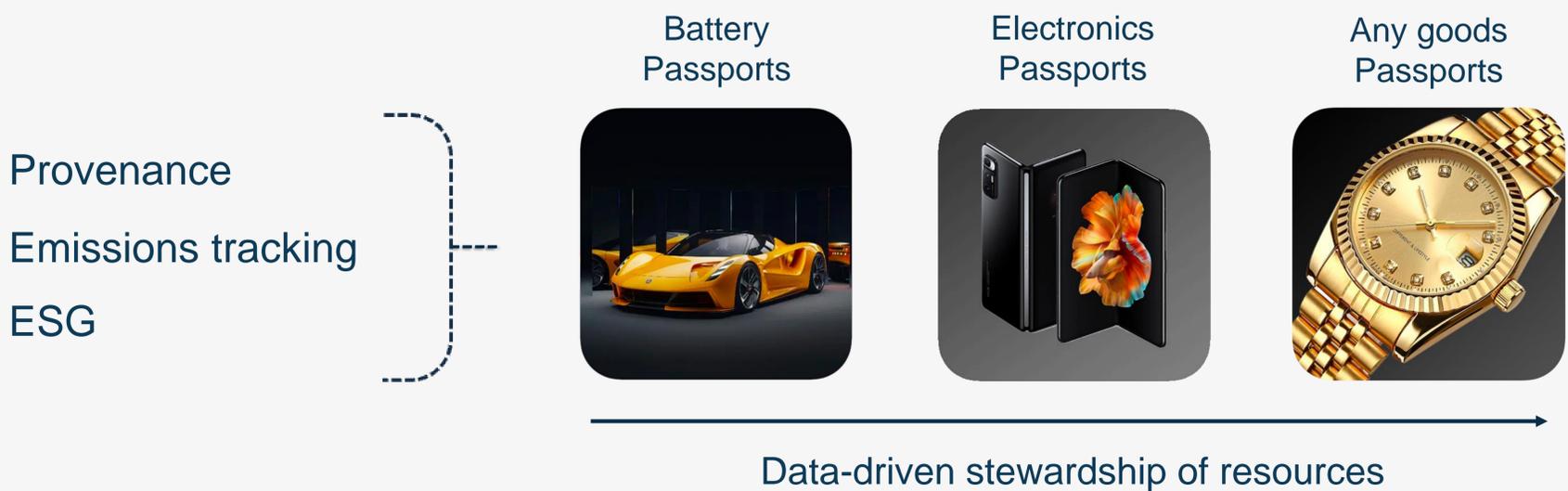
Circulor's pioneering work on digital battery passports answers a wealth of regulatory needs and opens up a new realm of DPPs for companies looking to tap the opportunities of circularity.



Circulor's Battery Passport provides proof of:

- ✓ Provenance and production journey
- ✓ Compliance with responsible sourcing requirements
- ✓ Compliance with sustainable sourcing requirements
- ✓ Collection targets
- ✓ Recycled content and recycling efficiencies
- ✓ Compatibility with the European Electronic Management System

Proven traceability supports digital product passports in multiple sectors



Unlocking the circularity revenue model

The accelerating merger of the physical and digital worlds will be revolutionary for manufacturers and recyclers.

An explosion in item-level digital identifiers for billions of products will enable manufacturers, brands, and recyclers to fully understand, locate, reuse, and resell in new ways and in much larger volumes.

This leap in responsible stewardship of resources will answer regulatory needs, meet shifting customer expectations, facilitate accurate retrieval of critical materials, bring cost savings, and open up resale opportunities.

However, to access these new benefits businesses will need proof.

Proof will ensure businesses have ongoing access to capital and qualify for the evolving commercial and policy incentives. Additionally, they can transform their marketing messages in favour of sustainability-seeking customers.

That proof will require technologies that can capture and process data.



Working with key industry players at scale



Circular is opening up a new landscape of business opportunities for long-term resource security. Working to achieve greater levels of visibility that propel customers towards a secure and circular future. By providing validation and verification, Circular enables industries to build the most precious commodity of all. Trust.

The Age of Change



[Watch Circular's award-winning short film about their work with Polestar](#)

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