

The Challenge

Across all industries, company **sustainability commitments** are being publicly announced, due to increasing governmental and consumer pressure.

However, food value chains are often extremely complex, making Scope 3 emissions and ingredient provenance difficult to track and prove.

Quality control plays a critical part in keeping food systems safe, sustainable and trustworthy, but the hundreds of checks and paperwork involved is very time-consuming, and mistakes often go undetected.

How can we get a real-time, accurate data picture of each product and process along an entire complex value chain?

The Solution

ReCarbonX's blockchain-based system creates a digital copy – a **digital twin** – of the full value chain, capturing Scopes 1, 2 and 3 emissions.

The ReCarbonX 'umbrella system' captures and analyzes every transaction in the creation, transportation, use and end-of-life recycling of any product; in real-time, along the entire value chain.

Clear visualization of data enables easy and very fast internal and external auditing.

Standard protocols are employed at each point: critical for companies working under common rules.

Benefits

- **Easy Corporate Sustainability Reporting.**
- **Real-time, clear data pictures**, not just snapshots based on default values from LCA tables.
- **"What if?" Simulations:** Use the ReCarbonX Sustainability Simulator to identify biggest impact potential/ROI to improve company footprint:
 - Is it more efficient to improve my own operations, or should I employ a sustainable toll-processor?
 - Is it more impactful to reduce direct emissions in my own production, or invest in renewable fuel logistics?
 - Which supplier's ingredients will have the largest effect on the final eco-footprint of my product?
- **Cover Scopes 1-2-3 emissions** in a secure and audit-approved way.
- **Prove statements and report content** reliably, 24/7, including suppliers-of-suppliers data.
- Significantly **lower resource needs**; fully trackable and provable.
- **Company-wide operation:** can be used across all locations globally, with easy supplier and customer integration.
- Reflects upstream changes on your footprint in **real time**.

ReCarbonX Systems
VALUE MADE VISIBLE



Life-Cycle Assessment (LCA) gives us only a snapshot picture of a product's eco-footprint at a certain point in time, using average typical emissions values and conversions along the upstream product value chain.

It can't capture sustainability improvements that were made after an LCA report.

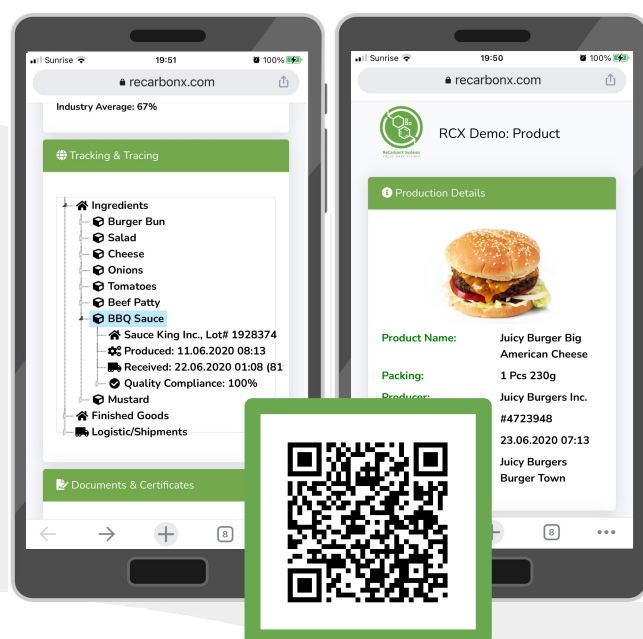
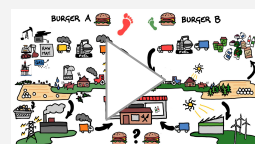
Whenever an improvement is made, the producer needs to do a new assessment.

Our video explains it!

A Tale of 2 Burgers

(and their Eco-Footprints!)

<https://youtu.be/yYh74sGjGG0>



Communication, Advocacy, Reporting and Transparency

Blockchain and digital tracing offer huge opportunities for transparency and learn-as-we-go consumer journeys. The QR code is an efficient transmedia portal, with the potential to open up worlds of awareness and discovery about the way manufacturing and processing interact with the planet. But it's not always easy to explain this to consumers! ReCarbonX can help with your messaging around the technology, to inspire circular, sustainable consumption and better everyday living.
Value made visible!

- **Easily integratable with ERP systems and 3rd party software.**
- **Fully customizable interfaces.**