

Focus on food waste

Driving **food waste** out of the supply chain

With up to a third of all food produced ending up in the trash¹, the global imperative to reduce food waste is gaining momentum, but lacking traction. Estimates place the volume globally at over **one billion tons of food going into landfills each year²**.

*What's standing in the way of
toppling the food waste mountain?*



Reducing food waste is challenging

Even with companies and countries on board (the US aims to halve food waste by 2030)³, reducing food waste remains complex, requiring efforts across the supply chain, from farmers and distributors to retailers and consumers.



Insufficient infrastructures keep companies in the dark

Even though studies suggest widespread adoption of digital supply chain tools could reduce food loss and waste by up to \$120 billion annually⁴, companies have been slow to adopt digital tools that could enable visibility into the food chain and identify waste hot spots.



Questionable freshness leads to consumer waste

Every year, a third of fresh food is thrown away globally by consumers who are unsure about the quality of their food⁵.

Blockchain for the food system

With a digital food system, network participants can now better track the quantity of food wasted and of food rescued. Blockchain technology stores digitized records in a decentralized and immutable manner, promoting trust and transparency which in turn helps reduce food waste.

End-to-end traceability

A digital food supply network powered by blockchain enables full transparency across the food chain to maximize shelf life, optimize partner networks and increase recall response efficiency, helping reduce waste.

Collaboration

Selective data sharing enables all in the food system to adopt consistent standards, policies and procedures.

Full transparency

With greater visibility into food waste, food producers, distributors and retailers can help identify opportunities to reduce food waste along the supply chain.

IBM Food Trust creates a secure, shared and permissioned record of transactions. This enables unprecedented visibility during each step of the food supply chain, so you can achieve new levels of trust and transparency, making food safer and smarter from farm to fork.

Reducing food waste with IBM Food Trust

IBM Food Trust consists of different modules to help suppliers, manufacturers, distributors and retailers increase visibility within the food chain.

Leveraging blockchain and IoT technology, the **Insights** capabilities module can provide unprecedented supply chain visibility to help identify when and where food waste happens.

The **Trace** module provides participants with a way to securely and transparently trace the location and status of food products on the supply chain to better manage—and reduce—food waste.

With the **Documents** module, users can prove food provenance and authenticity by securely managing certificates and documents along the supply chain. Having access to such documents and data helps to eliminate inefficiencies in your network that lead to food waste.

For more information contact your IBM representative or visit ibm.com/food

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2. <https://foodinsight.org/consumers-perception-food-waste/>
3. <https://www.epa.gov/sustainable-management-food/united-states-2030-food-loss-and-waste-reduction-goal>
4. <https://www.bcg.com/publications/2018/tackling-1.6-billion-ton-food-loss-and-waste-crisis.aspx>
5. U.N. Food and Agriculture Organization (F.A.O) <http://www.fao.org/save-food/resources/keyfindings/en/>