FOCUS ON
SUPPLY CHAIN EFFICIENCIES

RUNNING A MORE
EFFICIENT FOOD NETWORK

Inefficiency in the food system is a pervasive problem worldwide. With so many participants, there are endless opportunities to lose efficiency and profits. Inefficiencies negatively effect consumer pricing, the carbon footprint, food waste, and expected freshness. And with the absence of consistent and well-designed certification processing, **inefficiencies between producers and suppliers are estimated at $60 billion annually**[1].

What's feeding the fire for food chain inefficiencies?

Legacy supply chains slow companies down

Though some large retailers are deploying new technologies like blockchain[2] to create automated and intelligent supply chains, most companies are bogged down in manual paper-based processes that make it difficult and time-consuming to identify issues and manage inventory.

Slow adoption of digital supply chain tools keeps 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 annually[4], companies have been slow to adopt digital tools that could enable better supply and demand matching and identify waste hot spots.

Poor coordination across the food chain network creates waste

Irregularities in the global food system make hand-offs far from seamless. Enabling a system that tracks product loss, waste, and expiration dates could save $150 billion annually[3] in food waste.

IBM **Food Trust**™

BLOCKCHAIN
FOR THE FOOD SYSTEM

A shared digital food supply chain powered by blockchain helps supply chain players better collaborate with each other to operate more efficiently and reduce waste.

WORKING SMARTER ACROSS A SHARED ECOSYSTEM

Easily identify process inefficiencies, eliminate bottle-necks, and optimize your supply chain for continuous growth.

REAL-TIME DEMAND FORECASTING

All food system participants can now know the provenance, real-time location, and status of their food products. Armed with better data, companies can develop more accurate supply and demand forecasting models, localize the sourcing of ingredients, and restructure contracts.

SCALABILITY

Automated processes and end-to-end synchronization can create efficiencies at every step.

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

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

APPLYING IBM FOOD TRUST
TO INCREASE EFFICIENCIES

IBM Food Trust consists of different modules designed to help participants in the food system - from producers, suppliers, manufacturers, distributors, and retailers - to make their supply chains more efficient.

Using the **Data Entry and Access** module, participants can securely upload, manage and access transactional data.

With the **Trace** module, food system members can securely and transparently trace the location and status of food products on the supply chain.

Additionally, with the **Certifications** module, users can prove sustainability and provenance with ease by securely managing certificates throughout the entire supply chain.

[1] https://www.bcg.com/publications/2018/tackling-1.6-billion-ton-food-loss-and-waste-crisis.aspx

[2] https://news.walmart.com/2018/09/24/in-wake-of-romaine-e-coli-scare-walmart-deploys-blockchain-to-track-leafy-greens

[3] https://www.bcg.com/publications/2018/tackling-1.6-billion-ton-food-loss-and-waste-crisis.aspx

[4] https://www.bcg.com/publications/2018/tackling-1.6-billion-ton-food-loss-and-waste-crisis.aspx

IBM