

Using NextGen Technologies to Build Sustainable Food Supply Chains

Presented by:
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The Food value chain is enormously wasteful



Worldwide, about a third of all food grown for people to consume is thrown away; in the U.S., it's 40%

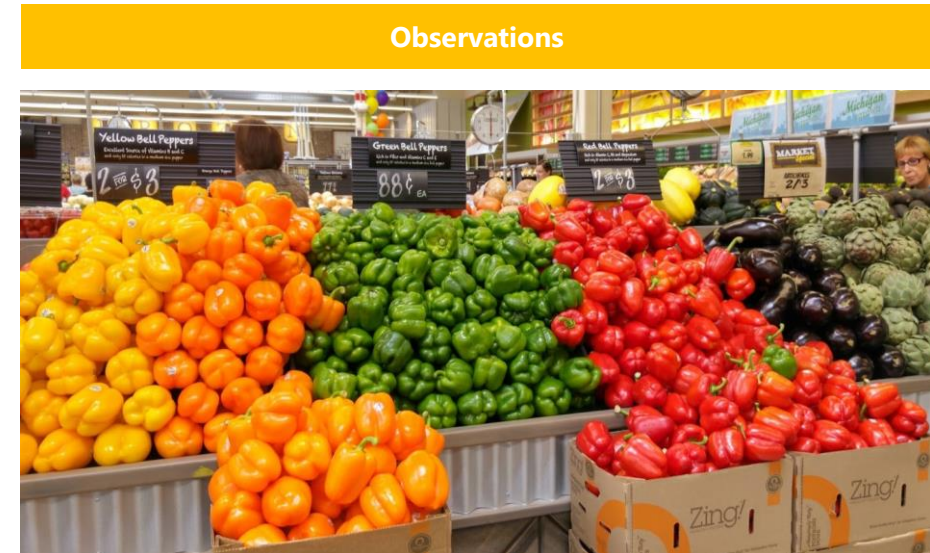
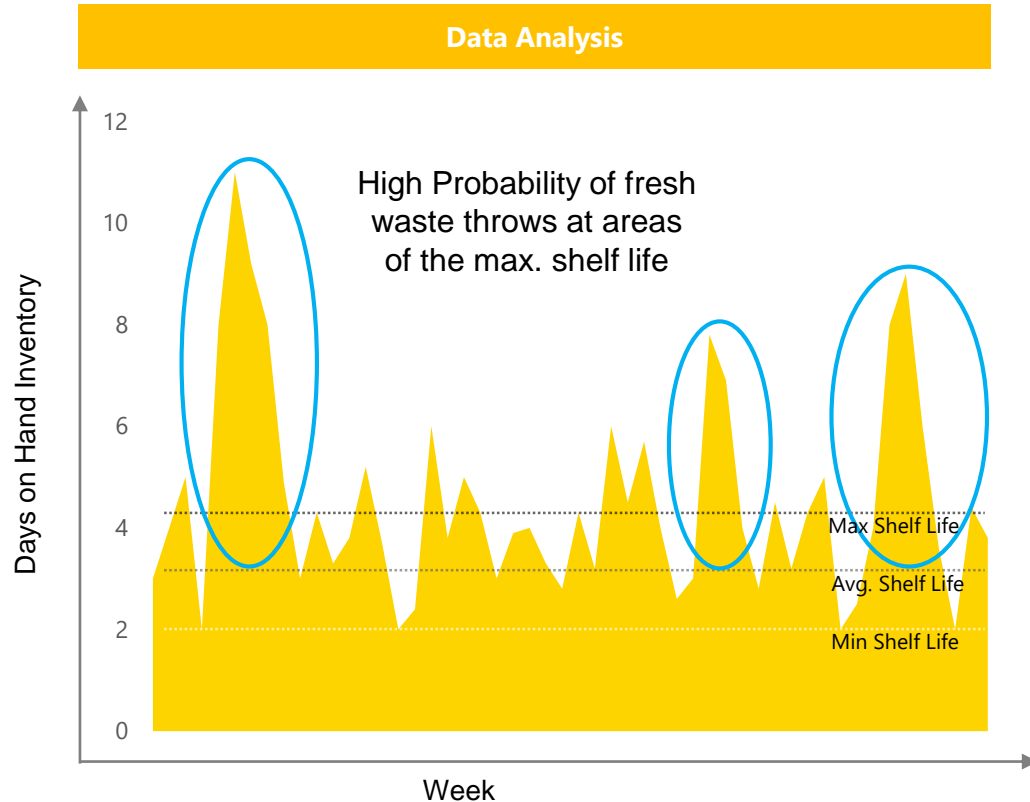


A lot of grocery stores throw away 20% of highly perishable products



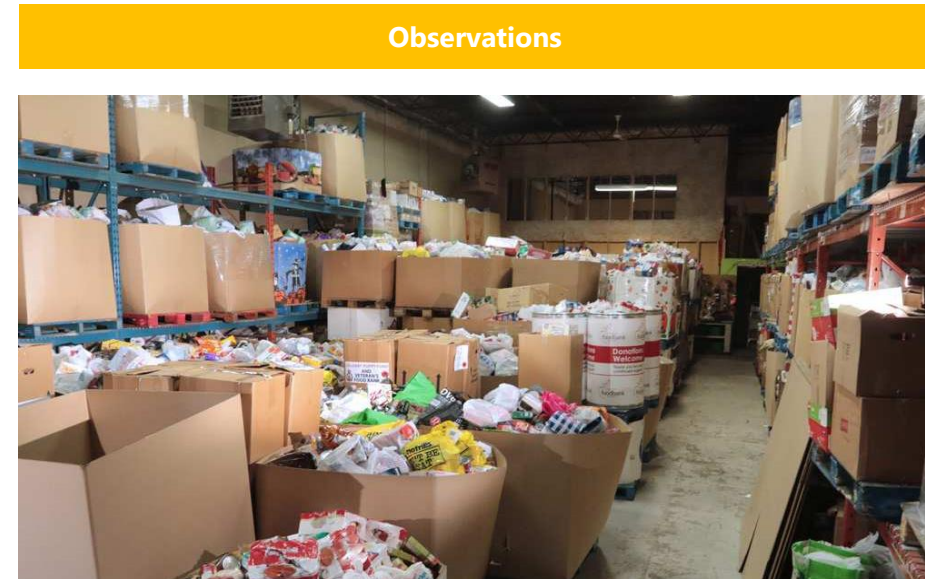
Distribution centers reject 10% of all the products delivered to them

The supply chain is flooded with produce



“We’re running this entire process in the dark – we just don’t have visibility into what’s coming and by when from suppliers.”

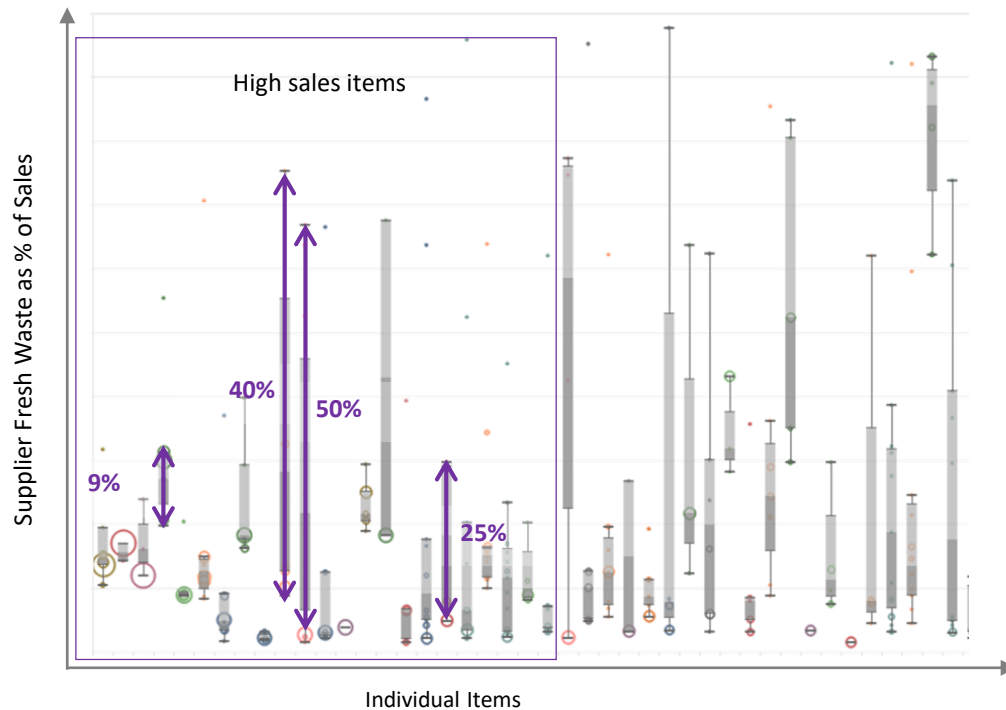
Over-ordering contributes to waste



“I know we order too much, but how much and what’s being wasted currently is hard to sort out.”

Variability in supplier quality increases waste

Data Analysis

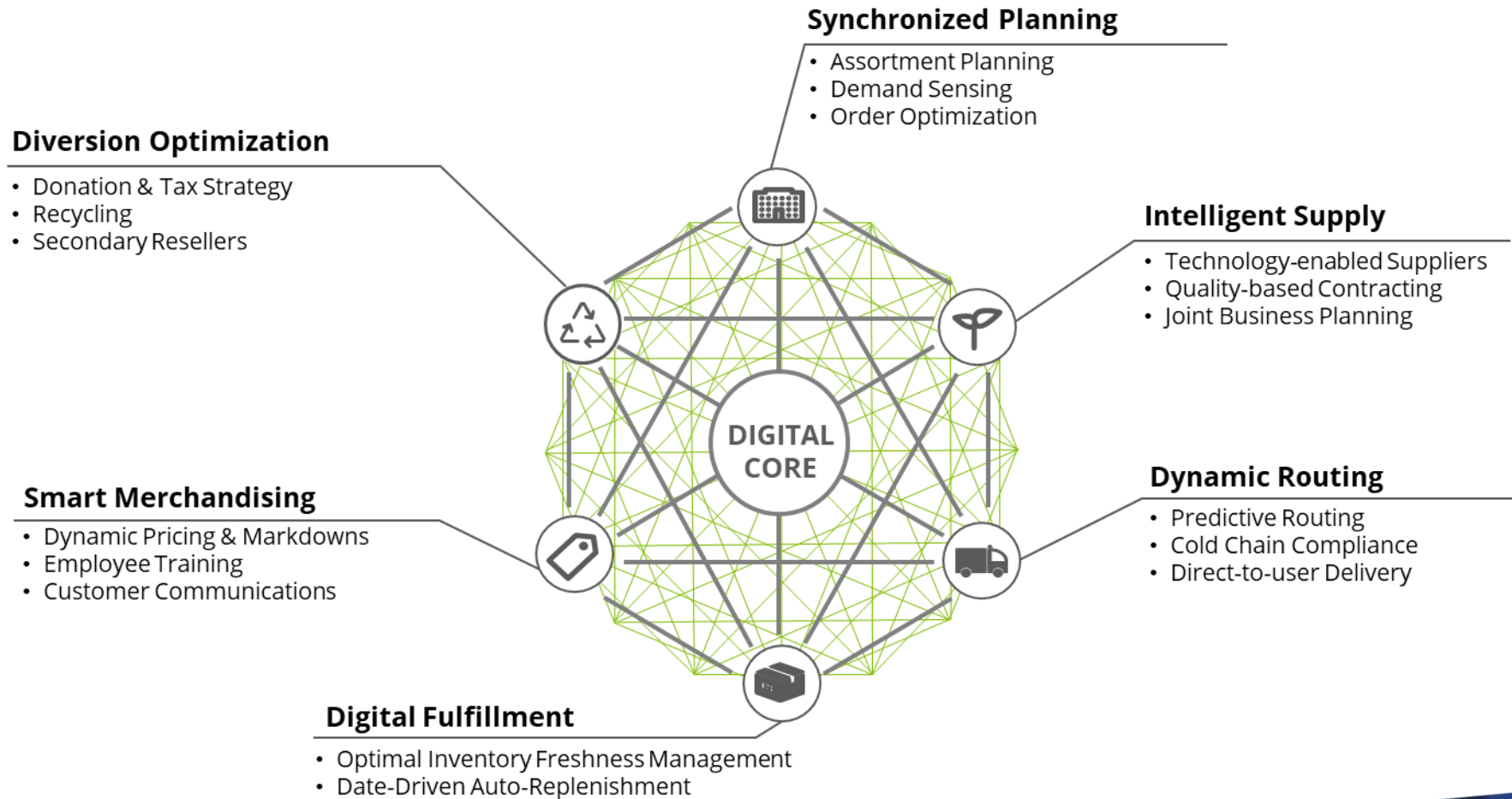


Observations



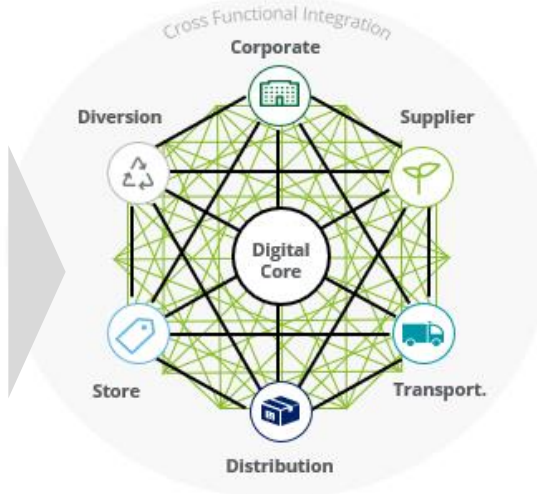
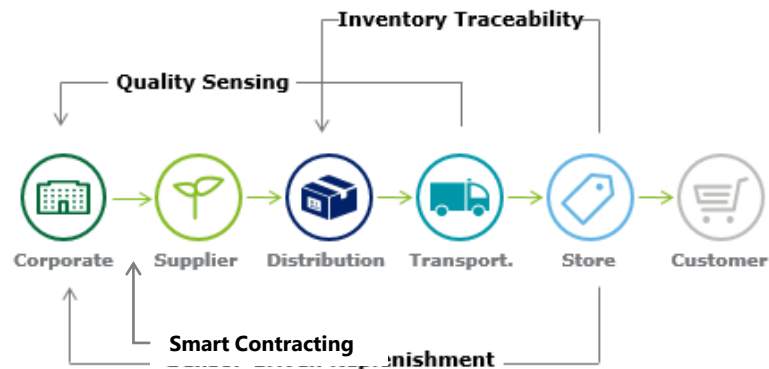
“For the same items, supplier performance in terms of waste is significantly different primarily due to product quality”

A connected value chain can improve fresh quality and reduce waste



Deloitte's end-to-end fresh solution connects the value chain to improve fresh quality and reduce waste

There is a need to transform end-to-end supply chain thinking, planning, and management into a dynamic web to address critical food waste and freshness issues across the value chain



End-to-End Solution

Leading food industry solutions that solve core business challenges

What to Buy

Contracted Freshness

Who to Buy From

Tech Enabled Growers

How to Pay

Quality Based Pricing

How Much to Buy

Dynamic Order Fulfillment

How to Move

Intelligent Product Routing

Delivering Freshness

Optimal Freshness Inventory Management


 Synchronized Planning

 Intelligent Supply

 Dynamic Routing

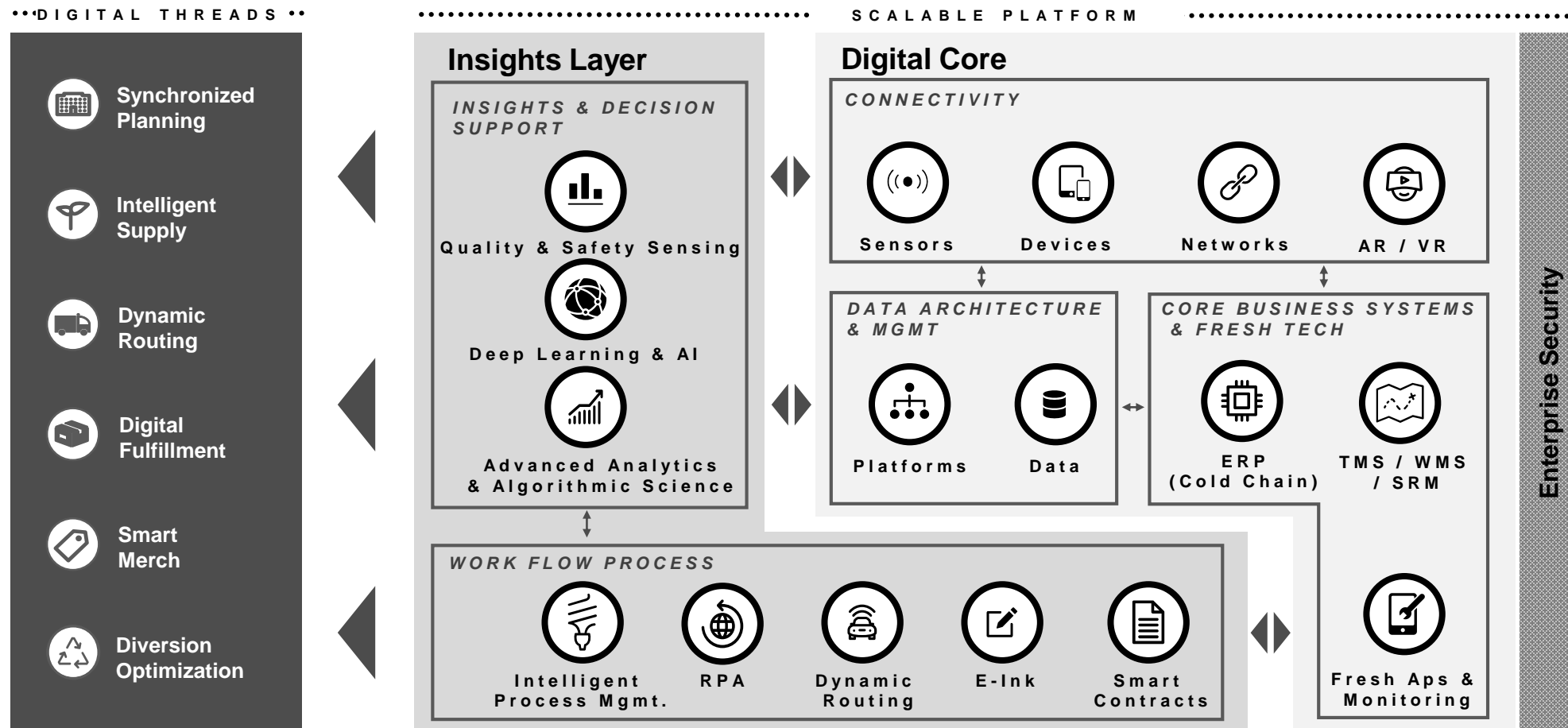
 Digital Fulfillment

 Smart Merch

 Diversion Optimization

Future of Fresh - Holistic Freshness Platform

Freshness is managed using a platform of core systems, processes, and traditional fresh tech



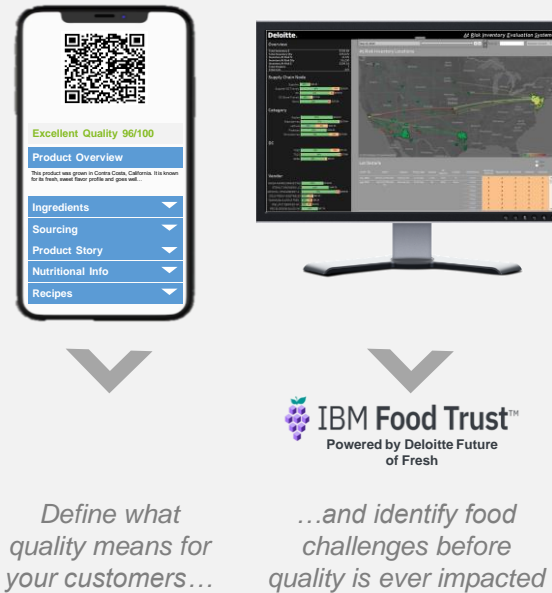
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Deloitte Future of Fresh | IBM Food Trust

Deliver consistent, safe, high quality food and realize greater end-to-end business value



Building a farm-to-table ecosystem of trust



Unlock Capabilities

Transparency and quality

- Define what is important (quality)
- Capture product information as it moves from farm-to-table
- Share data securely with upstream and downstream players to combat trust issues and manage risk

Action and change

- Learn where there are problems and how they can be fixed—inspire action
- Shift actions from audit to intervention by using insights to take corrective action before product goes bad

Brand loyalty

- Connect to customers in new ways that differentiate product quality & attributes
- Tell impactful stories that enhance consumer perception and addresses relevant purchasing trends / concerns (e.g., healthy, safe, sustainable)

Transparency

Establishes trust in data sharing

Traceability

Provides proof of origin & ownership

Information Consistency

Reduce friction & minimize disputes

Immutability

guarantee auditability & compliance

Real-time Settlements

Optimize working capital

Automation

Lower cost & reduce cycle time

Analytics

Mine data to gain business insights

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Deloitte Future of Fresh:

<https://www2.deloitte.com/us/en/pages/consumer-business/articles/future-of-fresh-food.html>