

The "Product Passport" for Food Safety

FOOD & BEVERAGE INDUSTRY

Food safety is entering a new era of regulatory scrutiny and consumer expectation. Advanced traceability frameworks are redefining accountability—requiring companies to provide end-to-end visibility across the entire food lifecycle. In this environment, traceability is no longer just a compliance requirement—it is a **strategic capability**.

Leading organizations are transforming food safety systems into real-time, intelligence-driven product passports, enabling precise tracking from origin to consumption. A global food producer recognized that traditional batch tracking systems were insufficient—and seized the opportunity to build a digital traceability backbone that ensures compliance, strengthens consumer trust, and drives brand differentiation.

100%

Supply Chain Visibility
Farm → Processing → Shelf



Recall Scope
Reduced waste & financial loss

Real-Time

Traceability
Across the full supply chain

QR

Consumer Trust
Transparency at every touchpoint

From compliance-driven tracking to consumer-facing transparency – powered by INSIGHTEDGE™ and the 3D&S execution framework.

The Strategic Challenge

Despite operating at scale, the organization faced a critical gap: it could trace products—but not in real time, nor with the precision required by modern regulatory standards. Fragmented data, manual processes, and siloed systems left the company exposed to both operational and reputational risk.

Core Traceability Gaps

- Limited visibility beyond batch-level tracking
- Fragmented data across suppliers, production, and distribution
- Slow response time in contamination or recall scenarios
- Manual and inconsistent record-keeping processes
- Increasing regulatory pressure and reputational risk

Why This Matters

Modern food safety regulations demand granular, real-time accountability. A single contamination event without precise traceability can trigger broad, costly recalls—damaging brand equity and consumer confidence for years.

The inability to pinpoint affected batches at the pallet or SKU level forces companies into wide-net recalls, multiplying waste, financial loss, and regulatory scrutiny. The strategic imperative was clear: transform a reactive, batch-based system into a proactive, intelligence-driven traceability platform.



Without real-time traceability, recall scope expands dramatically—increasing cost, waste, and reputational damage.

Transformation Powered by 3D&S + INSIGHTEDGE™

Fortis & Peak deployed its proprietary **3D&S execution framework**—Define, Design, Deliver, Sustain—powered by the **INSIGHTEDGE™** intelligence engine to architect and activate a full Food Product Passport system across the organization's supply chain.

1

DEFINE

Mapped the full food value chain using INSIGHTEDGE™. Assessed traceability across sourcing, production, and distribution. Identified gaps in temperature monitoring, handling records, and data fragmentation across IT systems and supply chain partners.

2

DESIGN

Engineered the Food Safety Digital Passport: unified product identity, integration of farm-level and processing data, real-time temperature logs, traceability dashboards, and consumer-facing QR-enabled transparency systems.

3

DELIVER

Deployed digital product passports across all product lines. Integrated tracking across suppliers, plants, and logistics. Implemented IoT-based temperature monitoring and real-time dashboards for food safety, compliance, and recall readiness.

4

SUSTAIN

Established continuous monitoring of food safety risks and compliance metrics. Enabled real-time alerts, predictive risk detection, integration of new regulatory standards, and capability building in digital food safety.

Core Platforms & Transformation Architecture

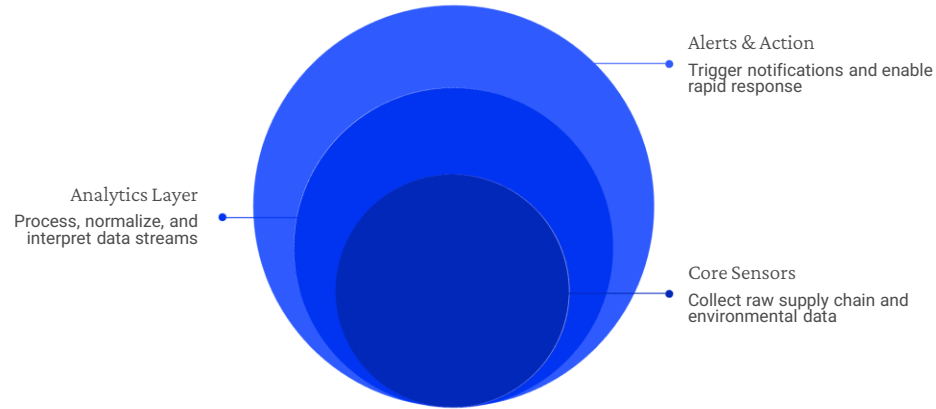
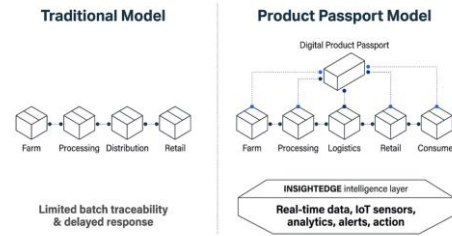
Two proprietary platforms form the backbone of this transformation—converting fragmented supply chain data into a living, real-time intelligence system that serves compliance, operations, and consumer trust simultaneously.

INSIGHTEDGE™— The Intelligence Engine

- Converts fragmented supply chain data into real-time visibility
- Enables predictive risk detection and rapid response
- Transforms compliance data into a strategic trust asset

3D&S— The Execution Framework

- **Define:** Identify traceability gaps and risk exposure
- **Design:** Architect digital product passport systems
- **Deliver:** Deploy real-time tracking and monitoring
- **Sustain:** Continuously enhance safety, compliance, and transparency



The intelligence layer operates continuously—sensors feed data into INSIGHTEDGE™ analytics, which generate automated alerts and enable immediate, targeted action across the supply chain ecosystem.

Measurable Impact & Strategic Positioning

The deployment of the Food Product Passport delivered measurable operational and strategic outcomes—transforming food safety from a cost center into a competitive differentiator and consumer trust asset.

Precision Recall

Recall scope reduced from large-scale interventions to targeted, batch- and pallet-level actions—minimizing waste and financial exposure.

Faster Response

Significantly faster response time in food safety incidents, enabled by real-time dashboards and automated alert systems.

Regulatory Readiness

Improved compliance and audit readiness across all regulatory frameworks, with continuous integration of new standards.

Consumer Trust

Enhanced transparency through QR-enabled product passports, giving consumers real-time access to product journey data.

In the future of food, safety is not proven after the fact—it is demonstrated in real time, at every step of the journey.

This engagement positions **Fortis & Peak** as the creator of INSIGHTEDGE™ and owner of the 3D&S methodology—a firm that transforms food safety into a strategic trust advantage and leads in enabling transparent, compliant, and resilient food systems.

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