Food Safety & Traceability

EcoStruxure™ enables trust in the Food & Beverage, Household and Personal Care industries
Our mission is to be your digital partner for Sustainability and Efficiency
Rethinking next generation industries: business resilience and sustainability performance for lifecycle integrated management
We help on every step of the value chain

Efficient facilities
Safer, more available, and greener resources

Resilient supply chain
Manage complexity and improve visibility

Agile manufacturing
Boost manufacturing flexibility & efficiency
... enabled by transversal digital transformation capabilities

- **Food Safety & Traceability**
  - Ensure compliance and increase trust across the whole value chain

- **Energy & Sustainability**
  - Reduce environmental footprint and meet sustainability goals

- **Asset Performance**
  - Maximize return on asset investment

- **Workforce Empowerment**
  - Take teams efficiency to the next level

- **Digital Engineering**
  - Cut time, cost and risks of capital project engineering
The Food & Beverage Ecosystem Reality
Is it all about TRUST and TRANSPARENCY?

- **Complex and Stricter regulation & standards**
- **Increased Product Recalls**
- **Sustainability Social Responsibility Credible Supply Chain**
- **Product Fraud (Counterfeiting)**
- **End-consumers ask for more INFORMATION, more TRANSPARENCY**

**Sources:**
- Allianz Risk Barometer 2018; Stericycle USA, 2016, 2017; RASFF, 2017
The Food & Beverage Ecosystem Reality
Complex and Stricter regulation & standards as drivers

End to end traceability is a critical tool to safeguard food safety

• FDA - Food Safety 2.0 (FDA vision for a digital transparent Food Safety system)
• FDA – New Traceability Rule (Sept. 2020)
• EU Green Deal – Farm to Fork Strategy (May 2020)
• GS1 working on a Standard for Product Recall
• Evolving labeling rules (e.g. Nutriscore, Country-score, Climate score, Animal welfare,……)
• Local regulations

“Whether you’re working on the safety of human or animal food, we will all benefit from being able to more rapidly trace a contaminated food to its source.”

Steven Solomon, Director of FDA’s Center for Veterinary Medicine
The Food & Beverage Ecosystem Reality

Still increasing Product Recalls with dramatic healthy consequences

- 1,795 New Alerts/Occurrences in 2019 vs 2018 +15% increase
- More and more complex product tracking for recalls, involving several countries and stakeholders
- Manufacturers involved also co-manufacture for other brands.

Sources: EU RASFF 2019; Recall Index Stericycle 2019; Food Safety Magazine 2019; Main Recalls 2019 (USA Today 2019)
The Food & Beverage Ecosystem Reality

Food Fraud booming during COVID

- Massive operations and organized crime involved in the global food system.
- Any type of food product can be a target.
- During the coronavirus pandemic, food fraud has been on the rise.
- Global supply chains have been disrupted by the pandemic.
- Food companies focused on trying to ensure an adequate food/raw material supply, rather than confirming their suppliers are all delivering 100 percent genuine and authentic food.
- Digitization of supply chains is key to prevent food fraud.

A total of 24 tones of products were seized and 162 tones were downgraded to a conventional status. To date, 19 criminal investigations and 105 administrative procedures have been launched, leading to the investigation or arrest of 20 individuals.
The Food & Beverage Ecosystem Reality

How to build a CREDIBLE Supply Chain with a responsible SOURCING?

- Sustainability is directly linked to end to end traceability by World food organizations
- Increasing number of Indexes and Standards: Dow Jones Sustainability Index, B-Corp certification for Sustainable Sourcing
- Investors are starting to link sustainability to Valuation: social responsibility, sustainability, product origin, ethical trading, animal welfare
- Sustainable operating practices to build a credible supply chain from source to store

“Supply chain improvements, like traceability, contribute to the advancement of the Sustainable Development Goals (SDGs).”


Source: Gartner on sustainability in supply chain
The Food & Beverage Ecosystem Reality

The Transparency Imperative from End-consumers

Shoppers want to know exactly:
• What’s in the products / nutrients
• How it was processed
• From where it was sourced / Local products
• Price comparison

The smartphone apps! The new trusted advisors for end-consumers?

Sources: Fortune, May 2016; University of Florida IFAS, October 2015; Sullivan Higdon & Sink, 2016; GFSI, 2015; CFI, 2016
Ensure compliance and trust across the product life cycle

**Manage your suppliers**
Get visibility into your entire suppliers’s network, check their compliance and identify your risks.

**Digitize your compliance**

**Reinforce your Food Defense**
Protect your facilities from any unauthorized physical or cyber access.

**Monitor downstream logistics**
Track and trace products and critical control points to guarantee product safety and protect your brand image.

**Achieve End to End traceability**
Increase visibility across your entire Value Chain, from raw materials to finished goods to improve transparency and trust for your end-consumers.

- **Build a credible Value Chain**
- **Up to 75% time reduction in compliance**
- **Achieve Best-in-class defence in depth**
- **Up to 100% first time good quality**
- **Ensure consumer trust**
Manage Food Safety & Traceability

Ensure compliance and increase trust across the whole value chain

• Manage your calibration process digitally to streamline operations and ease audits.

• Manage your manufacturing process in a paperless way and document automatically evidences of good manufacturing practices.

• Implement Food Defense with proper access control & cybersecurity protection.

• Track and trace raw materials and products across the whole supply chain to increase transparency and protect your brands.

• Monitor cold chain to guarantee product safety.

Let’s engage in this journey!
Discover our customer’s journey to End-to-End Traceability

Cracking digital for An End-to-End Traceability Journey with Danone

Watch the video
Read the blog
Food Safety & Traceability
Ensure compliance and trust across the product life cycle

End to End Traceability
Increase visibility across your entire supply chain to build a sustainable Value Chain

Digitize your compliance
Automatically document evidence of proper operation using digital tools and workflows

Suppliers Information Management
Get visibility into your entire suppliers' network, check their compliance and identify your risks

Food Defense & Cybersecurity
Protect your facilities from any unauthorized access and ensure the right in-depth defense for your IT and OT systems

Monitor downstream logistics
Manage efficiently your assets tracking, performance and maintenance to optimize your supply chain logistics

Fields & Farms
Cooperative
Manufacturing
Distribution
Retailer
Consumers

Raw Materials
Products

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# EcoStruxure for Food & Beverage / CPG

## Agile manufacturing
- Boost manufacturing flexibility and efficiency
  - Manufacturing Operation Management
  - Industrial Information Management
  - Process Control System
  - HMI and data Integration
  - Process Automation
  - Packaging Automation

## Efficient facilities
- Safer, more available, and greener resources
  - Smart Building Management
  - Power Safety & Availability
  - Power Quality & efficiency
  - Renewable Energy & Microgrids
  - IT Infrastructure Management

## Resilient supply chain
- Manage complexity and reduce logistics costs
  - Agriculture Efficiency & Sustainability
  - Suppliers Management
  - Supply Chain Optimization
  - Cold Chain Monitoring
  - Product Information Management

## Food Safety & Traceability
- Ensure compliance and trust across the product life cycle
  - Food Defense
  - Cybersecurity Services
  - Digital Calibration
  - Raw material traceability
  - Production traceability
  - Product Identification & Tracking

## Energy & Sustainability
- Reduce footprint and meet sustainability goals
  - Sustainability Consulting
  - Energy Demand Services
  - Strategic Energy Sourcing
  - Enterprise data management
  - Energy as a Service

## Asset Performance
- Maximize return on capital expenditure
  - Assessment and Consulting
  - Enterprise Asset Management
  - Condition Monitoring
  - Predictive Analytics
  - Line & Process Optimization
  - Modernization services

## Workforce Empowerment
- Improve staff knowledge, productivity and collaboration
  - Operator Training Simulator
  - Augmented & Virtual Reality
  - Workflow Management
  - Staff Schedule Management
  - Operator Knowledge Sharing

## Digital Engineering
- Cut time, cost and risks of capital project engineering
  - Electrical CAD
  - Building Information Modelling
  - Integrated Engineering-Design
  - Digital Asset Visualization
Let's talk about EcoStruxure™ for Food & Beverage