

A close-up, profile view of a young child with dark hair, looking intently at a clear glass they are holding to their lips. The child's face is partially in shadow, and the background is a bright, out-of-focus light source, possibly a window. The overall mood is clean and focused.

Food Safety & Traceability

EcoStruxure™ enables trust in the Food & Beverage,
Household and Personal Care industries

Life Is On

Schneider
Electric



**Our mission is to be
your digital partner for Sustainability and Efficiency**

A man wearing a dark cap and a plaid shirt is standing in a field of green crops, holding a tablet computer. In the background, there are industrial structures, possibly a refinery or power plant, under a clear sky. The overall scene suggests a focus on modern agriculture and industrial management.

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

Agile manufacturing

Boost manufacturing
flexibility & efficiency

Resilient supply chain

Manage complexity and
improve visibility

... 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?

Cost of a pre-audit visit (IFS)
€1,500/man day

Cost to implement a new standard system
\$5K-15K

Change in legislation & regulation in Top 3 Business risk
+3pts

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**

Climate Change listed now as Top 10 Business risk
+4pts

Loss of Reputation or Brand Value in Top 10 Business risk
+2pts

F&B New Alerts / Occurrences 2019 vs 2018
+15%

Food Fraud
\$50Bn/y

The Food & Beverage Ecosystem Reality

Complex and Stricter regulation & standards as drivers

Complex and Stricter regulation & standards

Increased Product Recalls

Sustainability
Social Responsibility
Credible Supply Chain

Product Fraud (Counterfeiting)



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



Rapid response across EU stems foodborne illness outbreaks

Alert systems quickly tracked down sources of food poisoning



EU authorities say traceback from foodborne illness to contamination in food factories is happening faster, due to better alert systems and co-operation between member states.



FRI, 09 OCT, 2020 - 18:48
STEPHEN CADOGAN

On July 4, 2019, Ireland reported a cluster of cases of Salmonella Bredeney food poisoning, and issued an urgent inquiry in the EU's Epidemic Intelligence Information System for Food and Waterborne Diseases and Zoonoses platform.

- 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.

Complex and Stricter regulation & standards	Increased Product Recalls
Sustainability Social Responsibility Credible Supply Chain	Product Fraud (Counterfeiting)

1173 RASFF (EU) alerts 2019 vs 2018 +5%

124 Recalls USDA 2019 vs 2018 +20%

498 FDA recalls 2019 vs 2018 +29%



The Food & Beverage Ecosystem Reality

Food Fraud booming during COVID

Complex and Stricter regulation & standards

Increased Product Recalls

Sustainability
Social Responsibility
Credible Supply Chain

Product Fraud
(Counterfeiting)



“ 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. ”

- 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.

Food Fraud
\$50Bn/y

The Food & Beverage Ecosystem Reality

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

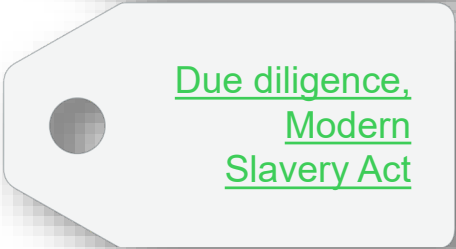
Complex and Stricter regulation & standards	Increased Product Recalls
Sustainability Social Responsibility Credible Supply Chain	Product Fraud (Counterfeiting)



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

Source: “Innovation with a Purpose: Improving Traceability in Food Value Chains through Technology Innovations” 2019, World Economic Forum, in collaboration with McKinsey

- 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



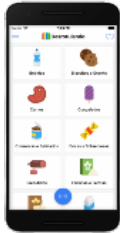
The Food & Beverage Ecosystem Reality

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?

Complex and
Stricter
regulation &
standards

Increased
Product Recalls

Sustainability
Social Responsibility
Credible Supply Chain

Product Fraud
(Counterfeiting)

65%

want to know
how food is
produced

35%

Pays attention to
sustainability
claims

45%

turning to more
sustainable
choices

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' network, check their compliance and identify your risks

Build a **credible** Value Chain



Digitize your compliance

Automatically document evidence of proper operation using digital tools and workflows

Up to **75%** time reduction in compliance



Reinforce your Food Defense

Protect your facilities from any unauthorized physical or cyber access

Achieve Best-in-class **defence in depth**



Monitor downstream logistics

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

Up to **100%** first time good quality



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.

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!

Up to **99%**
quality data
collection time

Up to **75%**
time reduction in
compliance
to regulations.

Up to **97%**
quality control
time reduction.

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

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	Energy & Sustainability Reduce footprint and meet sustainability goals	Asset Performance Maximize return on capital expenditure	Workforce Empowerment Improve staff knowledge, productivity and collaboration	Digital Engineering Cut time, cost and risks of capital project engineering
Food Defense	Sustainability Consulting	Assessment and Consulting	Operator Training Simulator	Electrical CAD
Cybersecurity Services	Energy Demand Services	Enterprise Asset Management	Augmented & Virtual Reality	Building Information Modelling
Digital Calibration	Strategic Energy Sourcing	Condition Monitoring	Workflow Management	Integrated Engineering-Design
Raw material traceability	Enterprise data management	Predictive Analytics	Staff Schedule Management	Digital Asset Visualization
Production traceability	Energy as a Service	Line & Process Optimization	Operator Knowledge Sharing	
Product Identification & Tracking		Modernization services		



Let's talk about
EcoEtruxure™
for Food & Beverage

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