



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**



**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

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



Digitize your compliance

Automatically document evidence of proper operation using digital tools and workflows



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**

Food Safety & Traceability

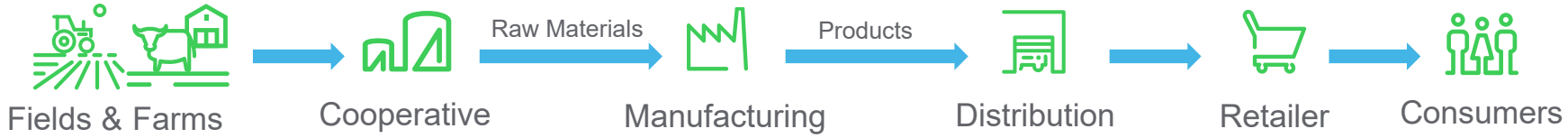
Ensure compliance and trust across the product life cycle

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

Reinforce your Food Defense

Protect your facilities from any unauthorized physical or cyber access

- **Enhance facilities security**

Protect your facilities occupants and assets with an integrated, role-based physical access control and intrusion detection solution that unifies your building's security infrastructure and building management systems.

- **Ensure the right defense in-depth for your IT/OT systems**

Identify and mitigate risks by applying standards and good practices throughout the whole line of defense which must integrate people, processes, and technology.



Food Defence & Cybersecurity

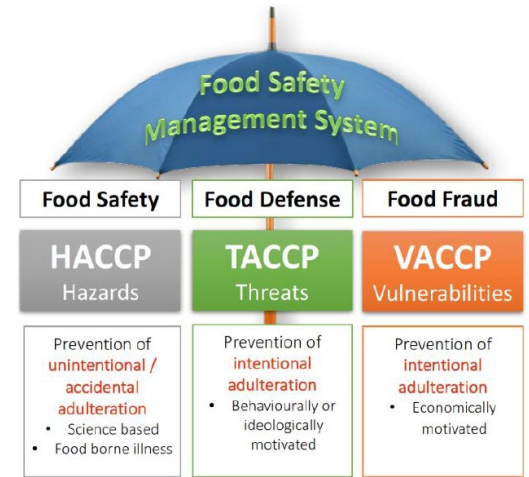
Protect your facilities from any unauthorized access and ensure the right defense in-depth for your IT / OT systems

Protection of food products from **contamination or adulteration** intended to cause public health harm or economic disruption.

Process to ensure the security of food and drink from all forms of intentional **malicious attack** including ideologically motivated attack leading to contamination.

Food Defence Programs shall be developed to reduce the risks from both internal and external threats in order to protect your customers. Food Defence assessment is based on 3 basic types:

- **Threat assessment** (TACCP) of critical areas in the Food Supply Chain. This includes also reviewing **cybersecurity** risks
- **Vulnerability assessment** (VACCP)
- Likelihood of the threat assessment and its impact.



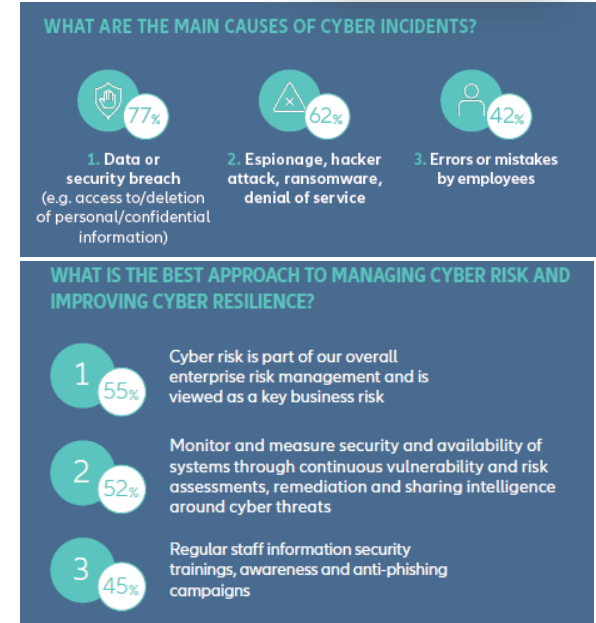
Cybersecurity

Ensure the right defense in-depth for your IT / OT systems

Cyberincidents
#1 Risk

- Cyber risks continue to evolve, now listed as n°1 Risk (Allianz Risk Barometer 2020).
- Cyber-attacks are becoming more **sophisticated and targeted**
- Significant increase in the number of ransomware incidents drive up the frequency of losses for companies.
- **Mega breach** now costs an average of **\$42Million, +8% over 2018** (Ponemon Institute)
- For breaches in excess of 50 million records, the cost is estimated to be \$388mn (+11% vs 2018).
- Ransomware is the most prominent cybercrime threat.
- Business email compromise (BEC) – or spoofing – attacks are increasing in frequency.

How to protect the most crucial asset of F&B customers, their **DATA**?



EcoStruxure™ Security Expert

First defense in building security - Unified access control and intrusion detection

The solution

- **Integrated** role-based physical access control and intrusion detection solution that **unifies building's security infrastructure and building management systems**.
- Ensure building occupants are safe and assets protected
- **Compliant** with security agency listings & regulations
- **Software & hardware** solution that delivers powerful security features:
 - Access control/Intrusion detection/Video surveillance/Visitor management
 - Identity theft detection & protection/Alarm Management

Business benefits

- **Single integrated platform** for access control and building management solutions
- **Improved efficiency** by simplifying security management
- **Faster decision making** by connecting people to consolidated data
- Best-in-class building visualization & control, **from anywhere, at anytime**



[Learn more](#)



Oleificio San Giorgio, Italy

Greenfield project – oil mill



Customer Challenge

- Greenfield project: full production traceability with industry food and safety certifications

The Solution

- Traceability (MES system)
- EcoStruxure Process Expert (former Hybrid DCS)
- Electrical distribution
- Uninterruptible power supply for IT (UPS)
- **Building infrastructure (security systems)**
- RFID Antenna system - “call to load” system for trucks

Customer Benefits

- Single supplier for integrated solution
- Reduced costs and increased efficiency
- Remote monitoring for improved safety and optimized operation
- Compliant with international standards

The Results: Life is On with...Automated Food defense and GMO free certified production

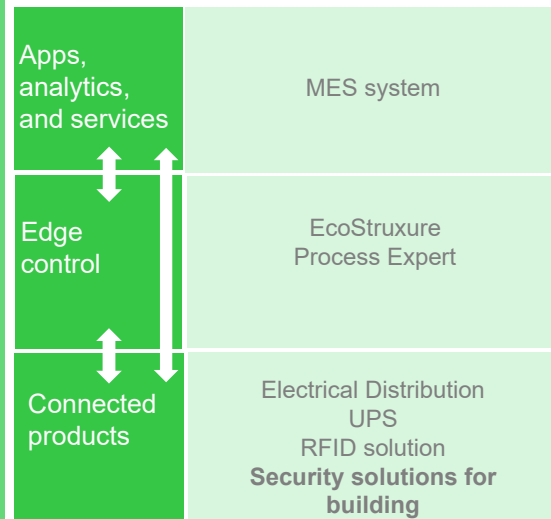
“To built a plant capable of processing 1000 tons of seed and hour, 24 hours a day, by totally automating the arrival of raw material and output of finished product in less than a year and a half, we have found in Schneider Electric the right partner for our challenge”

Eng. Nicola Tesser,
Plant Manager,

Oleificio San Giorgio, S.R.L.

Producing 200 tons of vegetable oil per day

EcoStruxure[®] for Food & Beverage
Innovation At Every Level



Cybersecurity Services

A defense in-depth approach

The Solution

- Identify and mitigate risks by applying standards and good practices throughout the whole line of defense which must integrate people, processes, and technology.
- A certified team of cybersecurity of experts
- A dynamic ecosystem of partnerships and to produce a holistic, security-conscious offering
- An ISO conformant vulnerability management process that is activated upon external notification, vulnerability disclosure, or customer report
- An advanced global threat intelligence center that actively monitors cyberspace for threats to our products and customers.

Learn more

360° cybersecurity solutions:

Security Consulting

Policy and procedure
Asset inventory
Gap analysis
Risk and threat
Compliance

Design & Implementation

Defense in depth
Secure architecture
Asset management
Security assurance level
System hardening
Solution integration

Training

Security awareness
Security engineer
Security administrator
Advanced expert

Monitoring

Firewall Security
Device Management
Threat Management
Device Security
OT SIEM Support

Maintenance

System upgrades
Security patches
Incident response

Benefits

- Comprehensive safety and cybersecurity plan tailored to your operations
- Cybersecurity protection without negative impact on day-to-day operations
- Secured control network communications and architecture
- Reduced chance of cybersecurity incidents resulting from human error

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Cybersecurity Solution to secure remote access to networks & operations

World-renowned distillery company, Europe



Customer Challenge

- Requirement for secure remote access to replace existing methods to provide effective and timely support for its operational technology
- Provide remote support and maintenance services
- Provide a method allowing specified users to pass from an outside zone to resources on the production or process network in a secure architecture

The Solution

- Definition of the requirements and develop a solution
- Maintain the availability of the manufacturing control systems.
- A prototype solution was demonstrated successfully at 2 sites with centralized hubs

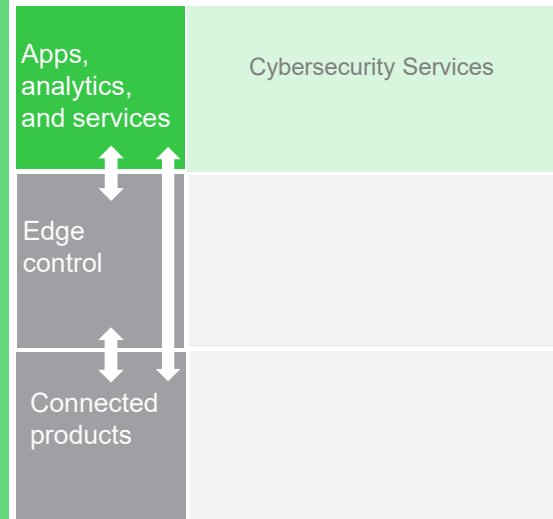
Customer Benefits

- Valued Schneider Electric experience in the IT space, expertise and knowledge in the OT environment's
- End to End Security and peace of mind
- Simplified and Scalable system
- Central monitoring and control
- Global Reach & 24/7 Support
- Brand Protection

The Results: Life is On with... Improved resilience and uptime

One of the world-renowned distilled spirits company

EcoStruxure for Food & Beverage
Innovation At Every Level



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

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Fields & Farms



Cooperative

Raw Materials



Manufacturing

Products



Distribution



Retailer



Consumers

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

<p>Food Safety & Traceability Ensure compliance and trust across the product life cycle</p> <ul style="list-style-type: none"> Food Defense Cybersecurity Services Digital Calibration Raw material traceability Production traceability Product Identification & Tracking 	<p>Energy & Sustainability Reduce footprint and meet sustainability goals</p> <ul style="list-style-type: none"> Sustainability Consulting Energy Demand Services Strategic Energy Sourcing Enterprise data management Energy as a Service 	<p>Asset Performance Maximize return on capital expenditure</p> <ul style="list-style-type: none"> Assessment and Consulting Enterprise Asset Management Condition Monitoring Predictive Analytics Line & Process Optimization Modernization services 	<p>Workforce Empowerment Improve staff knowledge, productivity and collaboration</p> <ul style="list-style-type: none"> Operator Training Simulator Augmented & Virtual Reality Workflow Management Staff Schedule Management Operator Knowledge Sharing 	<p>Digital Engineering Cut time, cost and risks of capital project engineering</p> <ul style="list-style-type: none"> Electrical CAD Building Information Modelling Integrated Engineering-Design Digital Asset Visualization
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Let's talk about
EcoEtruxure™
for Food & Beverage

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