Resilient Supply Chain

EcoStruxure™ enables trust in the Food & Beverage, Household and Personal Care industries
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
Manage complexity and improve visibility across your Supply Chain

**Agriculture efficiency & sustainability**
Help farmers and agribusiness improve productivity, better manage the use of resources and achieve regulation compliance and traceability.

**Greater yield**
leveraging digital solutions

**Warehouse management**
Ensure process, control and optimization of warehouse operations to improve efficiency and address ecommerce imperatives.

**Increased productivity** while ensuring safety

**Supply chain optimization**
Increase your visibility, improve agility and performance to build a resilient supply chain, end-to-end.

**Build a resilient Supply Chain**

**Product Information Management**
Ensure the right information related to the product is available for a seamless omnichannel retail experience

**Cold chain monitoring**
Manage efficiently your assets tracking, performance and maintenance to optimize your supply chain logistics

Up to **17%** increase in data accuracy

**Ensure efficient & secure operations**
Resilient Supply Chain
Manage complexity and improve visibility across your supply chain

Warehouse Management
Ensure process, control, and optimization of warehouse operations from receiving and shipping product items

Cold Chain Monitoring
Manage efficiently your assets tracking, performance and maintenance to optimize your supply chain logistics

Fields & Farms → Cooperative → Manufacturing → Distribution → Retailer → Consumers

Agriculture efficiency & Sustainability
Help farmers and agri-business improve profitability and better manage resources

Supply Chain Optimization
Get visibility into your entire suppliers’ network. Help operational and strategic decisions for efficiency and profitability

Product Information Management
Ensure the right information related to the product is available for omnichannel retail
Supply Chain Optimization

Increase your visibility, improve agility and performance to support operational and strategic decisions for efficiency and profitability

• Supply chains are in the spotlight.
• Efficiency is a constant driver but today, resilience is at the top of everyone’s agenda to adapt to the current situation.
• Four key trends to consider: digitization, sustainability, customization, and regionalization.
• Get increased visibility into the suppliers’ and raw material network, to manage compliance and identify suppliers at risk are key to build a resilient and credible Supply Chain
• Earlier Planning, Scheduling and Optimization to adapt to ever changing strategies on Stock Keeping Units (SKUs), accurate visibility on inventory management as well as integration of EDI* for smooth transactions between buyers and suppliers, these are some key digital solutions enabling businesses to improve their agility and performance.

Source: Schneider Electric blog, 2020
*EDI: Electronic Data Interchange
Suppliers Information Management

Get visibility into your entire suppliers’ and raw material network, manage compliance and identify your suppliers at risk

• Food Supply Chain are more and more complex and interconnected
• Significant bottlenecks into Supply Chain management exposed during the COVID 19 pandemic
• Imperative to get more visibility on the whole Supply Chain and build a more resilient, credible and sustainable Value Chain.
• Supply Chain & Risk Management has been the #1 concern of Food companies during the COVID pandemic
Suppliers Information Management
Get visibility into your entire suppliers’ and raw material network, manage compliance and identify your suppliers at risk

How to?
Digitize Supplier & Product Data, Source to Store
Centralize all Compliance, Sustainability, and CSR Data
Monitor your Supply Chain Compliance and Risks

Collecting Suppliers & Ingredients Data (Upstream Supply Chain)
EcoStruxure™ Traceability Advisor – Origin Module
Cloud-based solution for Supply Chain transparency

The solution
• Cloud-based platform enabling data collection from multi-tiers suppliers
• Suppliers Mapping & Risk identification as well as supplier Scorecard
• Traceability at supplier, purchase order or batch/lot level

Business value
• Increase sales and assure consumer trust (e.g. sustainable sourcing)
• Mitigate supplier risks and potential for reputational damage
• Streamline compliance and sustainability operations

Learn more
The solution

The AVEVA solution is designed from the ground up as an integrated solution.

How technology helps

Software solution that brings together in a single, fully-integrated toolset:

- Feedstock data management
- Planning & Scheduling
- Optimization activities

Business value

- Reduction of operational risks
- Gap shrinkage between planned and actual results
- Increased end-to-end throughput
- Reduction of logistics costs

Learn more
Customer Challenge
• Manual planning and scheduling activities
• No optimal scheduling of tank operations
• Limited forward-looking visibility or ability to make optimal decision for cost reduction, labour utilization or environmental impacts.

The Solution
• AVEVA Supply Chain Planning & Scheduling

Customer Benefits
• 5% less wine transfer during the first year
• Reduction of 4.25 Million Liters water
• Reduction of 33,750 kWh electricity usage
• Reduction in off-site third party storage by 1.5 Million Liters per month
• Reduced tank maintenance and labour hours

The Results: Life is On with...
Overall cost reduction of $380,000 per year

"We believe that the Advanced Planning & Scheduling (APS) system will increase productivity, utilisation, and service levels across the multiple stages of production and packaging at our bottling sites in Australia and New Zealand. The deployment of Schneider’s enterprise applications for vintage intake planning, tank farm optimisation, and production-line scheduling are part of our plan to optimise our end-to-end supply chain."

Managing Director, Winery
EcoStruxure Traceability Advisor – Track & Trace

Track & trace all products and events and gain visibility on supply chain's bottlenecks

The solution

- The Supply Chain events tracking based on mobile, cloud-connected track and trace solution is used for distribution tracking record.
- It allows to collect product movements within the supply chain based on the mobile scanner using the smartphone interface. All products when received or shipped out are linked to orders, invoices and customers.
- Flexible solution compliant to specific country regulations and GS1 global traceability standard

Business value

- Improved traceability at a product level along the whole value chain
- Increased agility and visibility on goods, people, assets and events on your logistics journey
- Accurate inventory management
- Reduced risk with fulfilment
- Efficient recall management

Learn more
Serialization to fight counterfeiting in tobacco, India

Indian Company

Customer Challenges
• Company loses about ~15% of their volume due to counterfeiting and transport related issues
• Solution able to print unique serial number as per UAE regulations (Tax and Track & Trace) on each SKUs at production lines
• Stringent project timelines.
• Allow central regulation body to get complete track and trace information of each product exported in different packaging level
• Ensure volume control by external agency on production.

The Solution
• Schneider Electric Serialization solution suite/ Code printing and aggregation and Track & Trace module
• Schneider Electric Line aggregation Hardware systems

Customer Benefits
• Integrated Traceability solution for the downstream supply chain
• Centralized solution covering multiple sites
• Seamless Connectivity with customer’s SAP and MES systems.
• Secure access to the UAE regulatory authority for event tracking and production volume control
• Easy hardware retrofit.
• Individual packet Track n Trace information availability

The Results: Life Is On with … Compliant solution providing Integrated Traceability with enhanced Flexibility for the Distribution...
Resilient Supply Chain

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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

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Let’s talk about EcoStruxure™ for Food & Beverage