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
The Food & Beverage Supply Chain Reality
How to build a more resilient Supply Chain?

**Sustainability**
Ensure an efficient & sustainable food production

**End-to-End Supply Chain Management**
to ensure business continuity

**Sourcing**
Increase visibility to build a credible supply chain

**Go-to-market**
E-Commerce booming

Digital Technologies, the most robust solution to the recovery and transformation of the food system in order to build a resilient Supply Chain

Sources: [SupplyChainDigital, 2020](#); [Which50, 2020](#); [Allianz Risk Barometer 2020](#)
The Food & Beverage Ecosystem Reality

Complex and Stricter regulation & standards as drivers, accelerated by the COVID-19 pandemic

- Importance to build a robust, more sustainable and resilient food system that functions in all circumstances, capable of ensuring access to a sufficient supply of affordable food for citizens
- **EU Green Deal – Farm to Fork Strategy** (May 2020) for a healthier and more sustainable EU food system
- ISO 20400 - world’s first international standard for sustainable procurement, which provides guidance to organizations on how to integrate sustainability within procurement.
- Evolving labeling rules (e.g. Nutriscore, Country-score, Climate score, Animal welfare,…..)

“**At the heart of the Green Deal the Biodiversity and Farm to Fork strategies point to a new and better balance of nature, food systems and biodiversity; to protect our people’s health and well-being, and at the same time to increase the EU’s competitiveness and resilience.**”

Frans Timmermans, Executive Vice-President of the European Commission

Source: EITfood, 2020; From Farm to Fork Strategy, 2020; EU Green Deal/Farm to Fork, 2020
Sustainability actions across the Supply Chain

Energy efficiency

- Improved visibility and control of energy costs and usage
- Optimization of power consumption and costs
- Using renewable energy

Circular operations

- Circular capabilities of sites to reuse, refurbish, repair and extend life
- Site-level circular innovations like efficient processes, creating return loops for packaging, waste reutilization

Decarbonization

- Zero-carbon to reduce our CO₂ footprint, reducing emissions and de-risking operations

Source: ProFood World
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. The EU Farm to Fork Strategy addresses the challenges of sustainable food systems and is aligned with the United Nations’ Sustainable Development Goals (SDGs).
- Increasing number of Indexes and Standards: Dow Jones Sustainability Index, B-Corp certification for Sustainable Sourcing & ISO 20400 for Sustainable Procurement
- 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: “Innovation with a Purpose: Improving Traceability in Food Value Chains through Technology Innovations” 2019, World Economic Forum, in collaboration with WEF/INSEAD

Source: Gartner on sustainability in supply chain; Lumina intelligence report, 2020
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
The Food & Beverage Ecosystem Reality

End-to-end Supply Chain Management

Manufacturers need End-to-End Supply Chain management to ensure business continuity and enable:

• Product tracking for recalls, involving several countries and stakeholders
• Co-manufacture for other brands.
• Supply chain disruptions agile response
• Ensure an adequate food/raw material supply, rather than confirming their suppliers are all delivering 100 percent genuine and authentic food.
• Prevent food fraud and counterfeit.

Sources: xxxxxxxx
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 e-commerce 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 omni-channel retail experience.

Up to 17% increase in data accuracy

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

Ensure efficient & secure operations

© 2020 Schneider Electric, All Rights Reserved | Page 10
Resilient Supply Chain
Manage complexity and improve visibility across your supply chain

- **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

- **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

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

Fields & Farms → Cooperative → Manufacturing → Distribution → Retailer → Consumers
**EcoStruxure for Food & Beverage / CPG**

<table>
<thead>
<tr>
<th>Agile manufacturing</th>
<th>Efficient facilities</th>
<th>Resilient supply chain</th>
</tr>
</thead>
<tbody>
<tr>
<td>Boost manufacturing flexibility and efficiency</td>
<td>Safer, more available, and greener resources</td>
<td>Manage complexity and reduce logistics costs</td>
</tr>
<tr>
<td>Manufacturing Operation Management</td>
<td>Smart Building Management</td>
<td>Agriculture Efficiency &amp; Sustainability</td>
</tr>
<tr>
<td>Industrial Information Management</td>
<td>Power Safety &amp; Availability</td>
<td>Suppliers Management</td>
</tr>
<tr>
<td>Process Control System</td>
<td>Power Quality &amp; efficiency</td>
<td>Supply Chain Optimization</td>
</tr>
<tr>
<td>HMI and data Integration</td>
<td>Renewable Energy &amp; Microgrids</td>
<td>Cold Chain Monitoring</td>
</tr>
<tr>
<td>Process Automation</td>
<td>IT Infrastructure Management</td>
<td>Product Information Management</td>
</tr>
<tr>
<td>Packaging Automation</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

### 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
- Sustainability Consulting
- Energy Demand Services
- Strategic Energy Sourcing
- Enterprise data management
- Energy as a Service

### Energy & Sustainability
Reduce footprint and meet sustainability goals

- Assessment and Consulting
- Enterprise Asset Management
- Condition Monitoring
- Predictive Analytics
- Line & Process Optimization
- Modernization services
- Operator Training Simulator
- Augmented & Virtual Reality
- Workflow Management
- Staff Schedule Management
- Operator Knowledge Sharing

### Asset Performance
Maximize return on capital expenditure

- Digital Engineering
- Contractor training & consultation
- Energy Demand & management solutions
- Enterprise asset management
- Condition monitoring
- Predictive Analytics
- Line & Process Optimization
- Modernization services

### Workforce Empowerment
Improve staff knowledge, productivity and collaboration

- Electrical CAD
- Building Information Modelling
- Integrated Engineering-Design
- Digital Asset Visualization

### Digital Engineering
Cut time, cost and risks of capital project engineering

© 2020 Schneider Electric, All Rights Reserved | Page 12
Let’s talk about EcoStruxure™ for Food & Beverage