

A woman with short dark hair, wearing a dark blazer over a light-colored top, is standing in a factory or industrial setting. She is holding a mobile phone to her ear with her right hand and a clipboard with a pen in her left hand. The background shows a large, brightly lit industrial space with overhead lights and structural elements. The overall tone is professional and focused.

# Agile Manufacturing

EcoStruxure™ boosts manufacturing flexibility & efficiency  
in the Food & Beverage, Household and Personal Care industries

Life Is On

**Schneider**  
Electric

# Agile Manufacturing

Transforming operations to improve flexibility and profitability

## HMI and Data Integration

IoT ready system platform for better collaboration and reduced TCO

## Process Control System

Process control system including MES functions designed to serve F&B and CPG applications

## Process Automation

Innovative Ethernet based control platform for more performance, transparency and flexibility

## Industrial Information Management

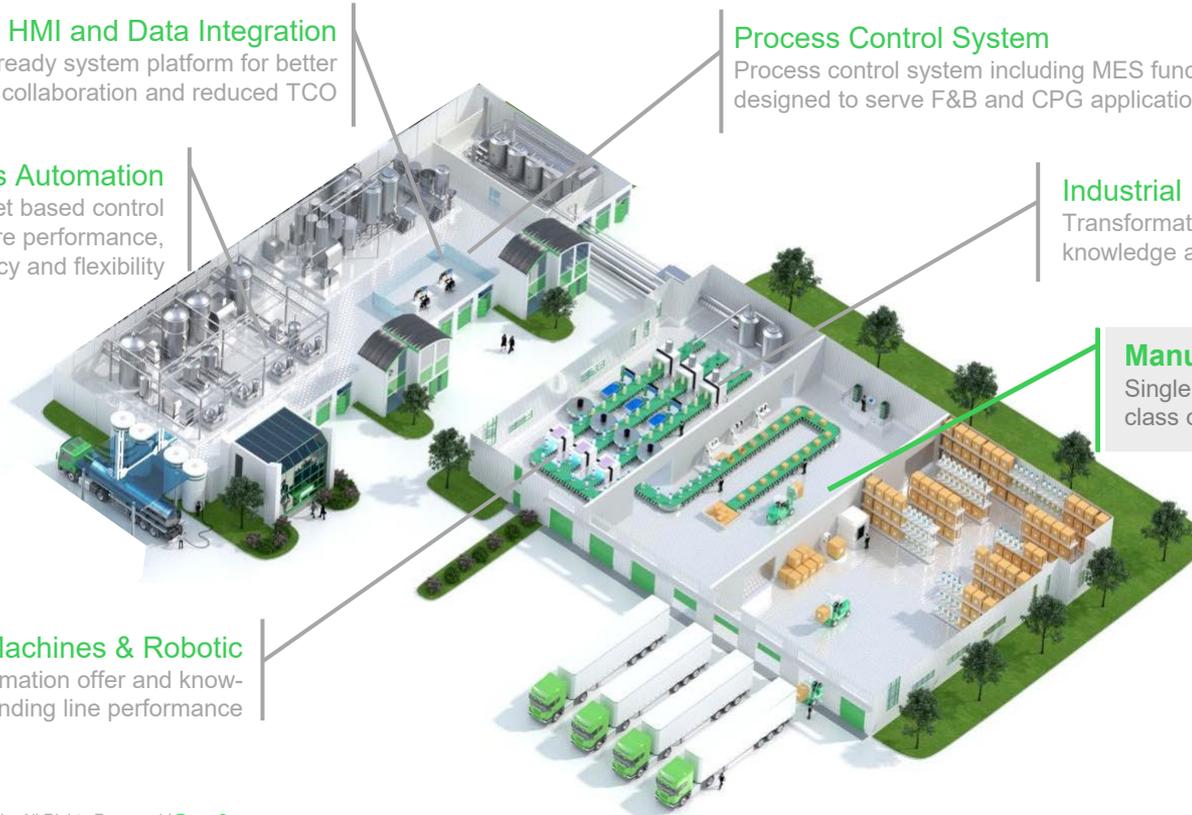
Transformation of your data into actionable knowledge and wisdom

## Manufacturing Operation Management

Single plant and Multi-site IT platform for best-in-class operation, performance and quality

## Smart Machines & Robotic

Packaging automation offer and know-how for outstanding line performance



# Manufacturing Operation Management

The different steps of Operation Management benefits

**(1) SEE:**  
Reveals the  
“hidden factory”



**(2) ACT:**  
Automates  
work orchestration

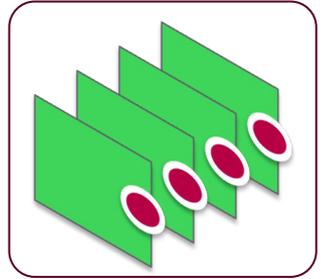
- ✓ Right Order
- ✓ Right Recipe
- ✓ Right Equipment
- ✓ Right Quality
- ✓ Right Quantity
- ✓ Right Time
- ✓ Right Cost

**(3) OPTIMIZE:**  
Brings strategy to  
real-time execution

Performance  
Production  
Quality  
Inventory  
Maintenance  
Utilities

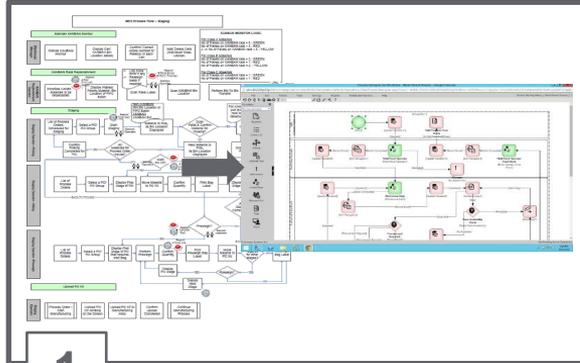
**(4) SCALE:**  
Speed & ease of  
standardization

Standard Solution  
Template Library



# Manufacturing Operation Management

The model driven approach



1

## DIGITALIZE

Capture manufacturing processes and collaborations and digitalize them using low code technology

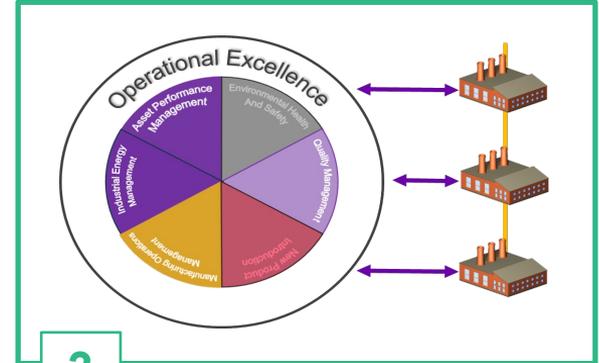
Transform how work is done in the plant



2

## STANDARDIZE

Manage best practices, KPI's, product specifications and compliance and safety data between sites



3

## IMPROVE

Continuous improvement of processes based on rich data collection with governed change management

# Manufacturing Operation Management

The model driven approach

## The solution

Includes market leading Manufacturing execution, recipe management and batch offerings

- Provides a process-based approach, where work practices, business rules and associated UIs are defined graphically into application models
- Able to be easily modified to meet operational requirements without re-programming
- Reliable integration with other IT systems, using the Enterprise Integrator framework and plug-ins

Integrated &  
Collaborative  
Systems



Operational  
Activities  
Framework



Process &  
User Interface  
models

AVEVA

Schneider  
Electric

# Manufacturing Operation Management

## Operational activities description



AVEVA  
Manufacturing Execution  
(Production & Inventory)

- Paperless Work Order and Product Specification Management.
- Real-Time Visibility to Production and Inventory activities
- Comprehensive Electronic Manufacturing Genealogy and Material Traceability



AVEVA  
Manufacturing Execution  
(Quality)

- Dynamic Quality Sample Plan generation and enforcement based on Work Order Specification (Product and Process)
- SPC Alerting and Charts to Identify and Correct Quality Deviations in Real-Time



AVEVA  
Manufacturing Execution  
(Performance)

- Detect, Capture & View Utilization Events
- Real-Time Visibility to Line and Equipment Production Performance
- Enables Root-Cause Analysis of Capacity losses



AVEVA  
Recipe Management

- Recipe Management Standardization across multiple Automation Systems
- Equipment Formula Management and Recipe Procedure Management
- Role based Security, Recipe Versioning and Approval



AVEVA  
Batch Management

- Flexible Recipe Management and Batch Scheduling
- Material Management and Traceability
- Electronic Batch Records and Reports with Support for FDA 21 CFR Part 11

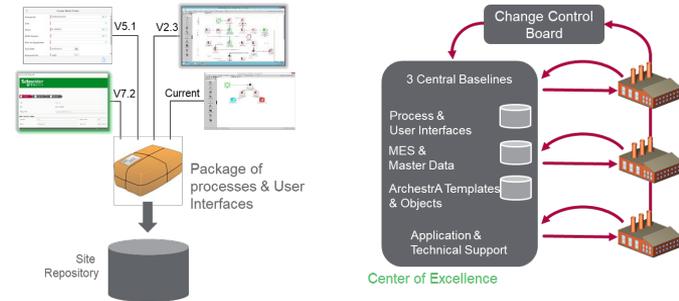
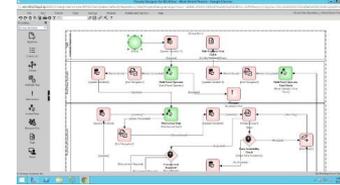
# AVEVA Manufacturing Operation Management

The model driven approach

## Business Value

- 30% Quality Improvement
- 30% More Equipment Uptime
- 20% Reduction in Manufacturing costs
- 10% Increased Productivity
- 20% OEE Improvement

[Learn more](#)



# Advanced Planning & Scheduling

A digital nervous system to quickly adapt value chains to dynamic market conditions

- Whether you have plants and warehouses around the world or in a single location with PlanetTogether production planning and scheduling, you'll have demand, capacity and inventory visibility to help you get ahead of whatever changes are coming your way.
- Business values:
  - Grow sales with quicker production lead-times
  - Cut inventory by aligning manufacturing with demand
  - Reduce unit costs with more efficient production runs
  - Improve decisions with capacity visibility and scenarios and Analytics



planet  together

# Campbell's Soup, USA

Reduced Product Scraps and Material Costs



### Customer Challenge

- Cans with missing labels: mislabeling instances and product recalls
- Finished product losses due to manufacturing issues
- Difficulty in process optimization and continuous improvement projects due to minimal plant data collection
- Existing SPC software was out-of-date and not integrated with the ERP system
- Significant inaccuracy in using master data across multiple systems and heterogenous plant environments

### The Solution

- System Platform
- InTouch HMI
- MES Quality / Operations
- Workflow Management

### Customer Benefits

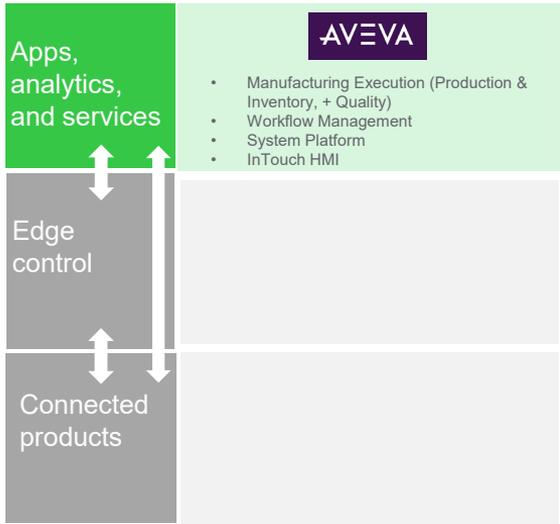
- **3%** Reduction in material costs
- **75** additional CI projects a year (accelerate continuous improvement efforts)
- Quality solution with mislabeling module: verifies and validates unit and case level labeling
- Achieves manual, semi-automatic and automatic in- / at-line sampling with validation against specifications

The Results: Life is On with... 25% Decrease in product give-away

[Link to Video](#)

Global food company making a range of high-quality soups and simple meals, beverages, snacks and packaged fresh foods.

EcoStruxure For Food & Beverage  
Innovation At Every Level



# Farchioni automates its ancient process

Olive oil producer



## Customer Challenge

- Achieve high level of product quality consistency: difficult tracking & tracing issues related to quality due to paper-based reporting
- Complete its fully-automated smart factory

## The Solution

- System Platform
- InTouch HMI
- MES Performance & Operations

## Customer Benefits

- Empowered workers with enhanced visibility on the production lines.
- InTouch ensures that a 3,000 quintal batch looks, smells, and tastes identical to a 1 liter sample.

**The Results: Life is On with... increased yield, with 32 million bottles of olive oil produced each year**

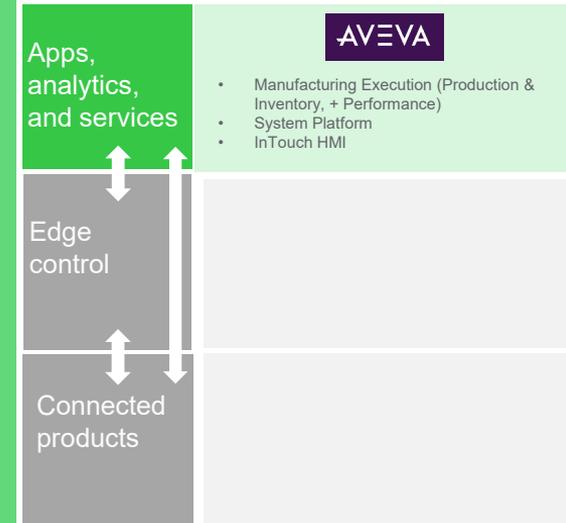
“Food safety also means avoiding cross-contamination within the lines. So, knowing the pipeline is a process that works exactly like it’s supposed to, it’s an important safety guarantee”.

Andrea Violetti  
Director General Farchioni Olii

[Link to Web](#)

Italy’s leading producer of olive oil.

**EcoStruxure** For Food & Beverage  
Innovation At Every Level



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# F&N Dairies, Thailand

Savings in Production, Logistics and Inventory  
Costs



## Customer Challenge

- Enable quality tracking
- Facilitate connectivity of plant operations to industrial automation devices, computers and laboratory
- Reduce the total cost of ownership

## The Solution

- MES Quality
- System Platform
- Historian

## Customer Benefits

- Reduced quality traceability time from 4 hours to 1 minute
- Achieved production goal of 2,500 cans a minute (3 million cans a day)
- Attained “100% First-Time Quality”

## The Results: Life is On with... ROI attained within 1 year

“We have comprehensive control of our manufacturing operations to ensure product quality and control”

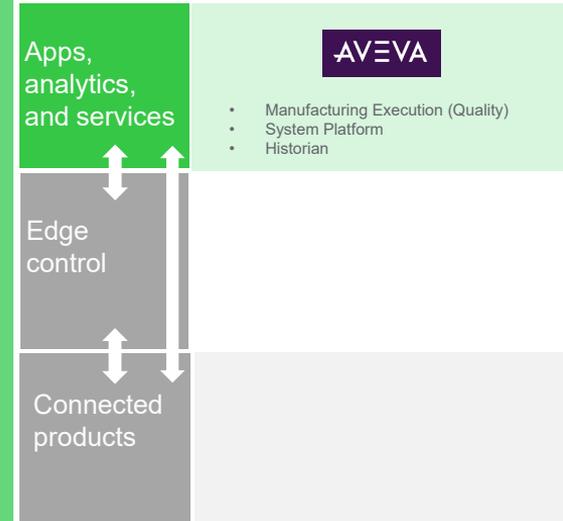
Somchai Khwahan,  
Production Manager,  
F&N Dairies

[Link to Web](#)

[Link to Video](#)

Producing 24 million cases  
of food and beverage a year

**EcoStruxure** For Food & Beverage  
Innovation At Every Level





# Beam Global Spirits and wine, USA

Jim Beam and Wonderware solutions, a perfect mix



## Customer Challenge

- Improve plant technology while maintaining the product quality
- Upgrade path of automation as plant needs evolve

## The Solution

- System Platform
- InTouch HMI
- Historian
- InBatch

## Customer Benefits

- Ease of use allowing increased efficiency in operation
- Consistent control of the processes across all plants
- Reliable product quality due to automation
- Real-time information allowing preventive actions
- Rapid trouble-shooting of plant inefficiencies

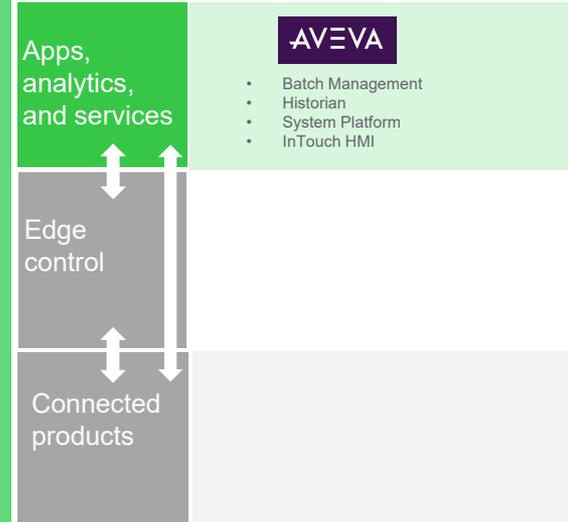
## The Results: Life is On with...Controlled recipe procedures & execution allowing more production batches

“With regards to metrics, what we’re seeing is consistency in throughput. We are able to tell when problematic areas arise and by having it automated, we are able to take preventive action in order to maintain consistent operation.”

Harry Crigler  
Distillery Operations Manager

Largest spirit company in the USA, founded in 1775

**EcoStruxure** For Food & Beverage  
Innovation At Every Level



# Maple Leaf Foods, Canada

Improving Food quality and safety through automation



## Customer Challenge

- Implement a standardized automation solution in all the production sites through a scale-up approach.
- Provide an efficient solution that needs limited energy and primary resources to produce a high quality product

## The Solution

- Line Performance

## Customer Benefits

- Standardized solution on each production site
- Real-time and instant data available for better maintenance reactivity, waste management and production
- Solution easy to understand by the business group
- Easy implementation and use of the solution
- Easy integration of MES with the current ERP (SAP)

## The Results: Life is On with... An automated performance management solution

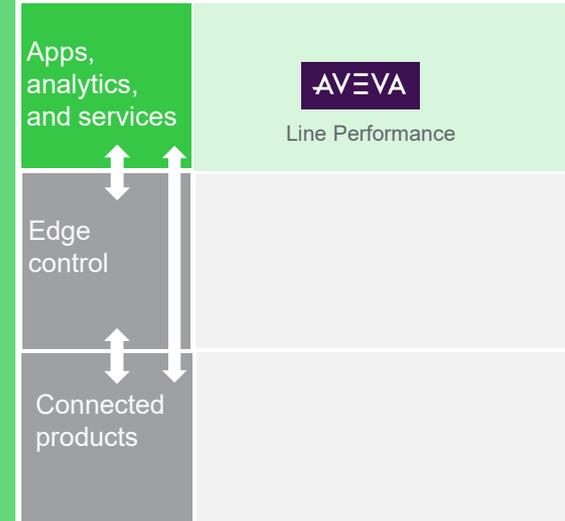
“Our approach is to design an automation system that is flexible enough to deal with day to day variance.”

Dave Eckart  
Director of automation

[Link to Video 1](#)  
[Link to Video 2](#)

Leading consumer protein company making high quality, innovative products. The company also operates in the refrigerated plant protein category. The company operates 25 sites in Canada and one in USA.

**EcoStruxure** For Food & Beverage  
Innovation At Every Level



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# Graphic Packaging International

Improving supply chain visibility and efficiency



## Customer Challenge

- Lack of changeover visibility
- Scheduling Errors
- Reliance on tribal knowledge
- Lack of forward-looking capacity utilization to be able to commit capacity to customers

## The Solution

- Planet Together Advanced Planning and Scheduling (APS)

## Customer Benefits

- 6% reduction on unit costs due to increased OEE
- \$16M in annual saving
- Scheduling decisions are based on automation and company KPIs rather than intuition

## The Results: Life is On with... More efficient supply chain

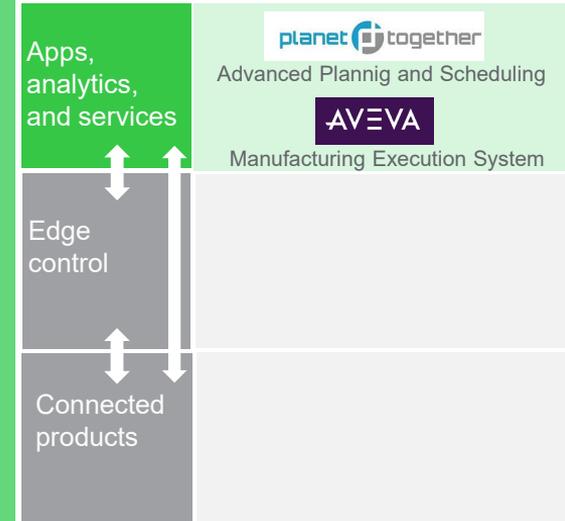
“Scheduling and Planning is one of the most overlooked opportunities in the manufacturing industry today. The impact goes well beyond the ability to drive results you can see in your P&L, but into your culture and how work gets done..”

Dean Dietrich  
VP Operations

Graphics Packaging International

One of the world's largest packaging manufacturers operating 30 plants in USA, Canada and Mexico

**EcoStruxure** For Food & Beverage  
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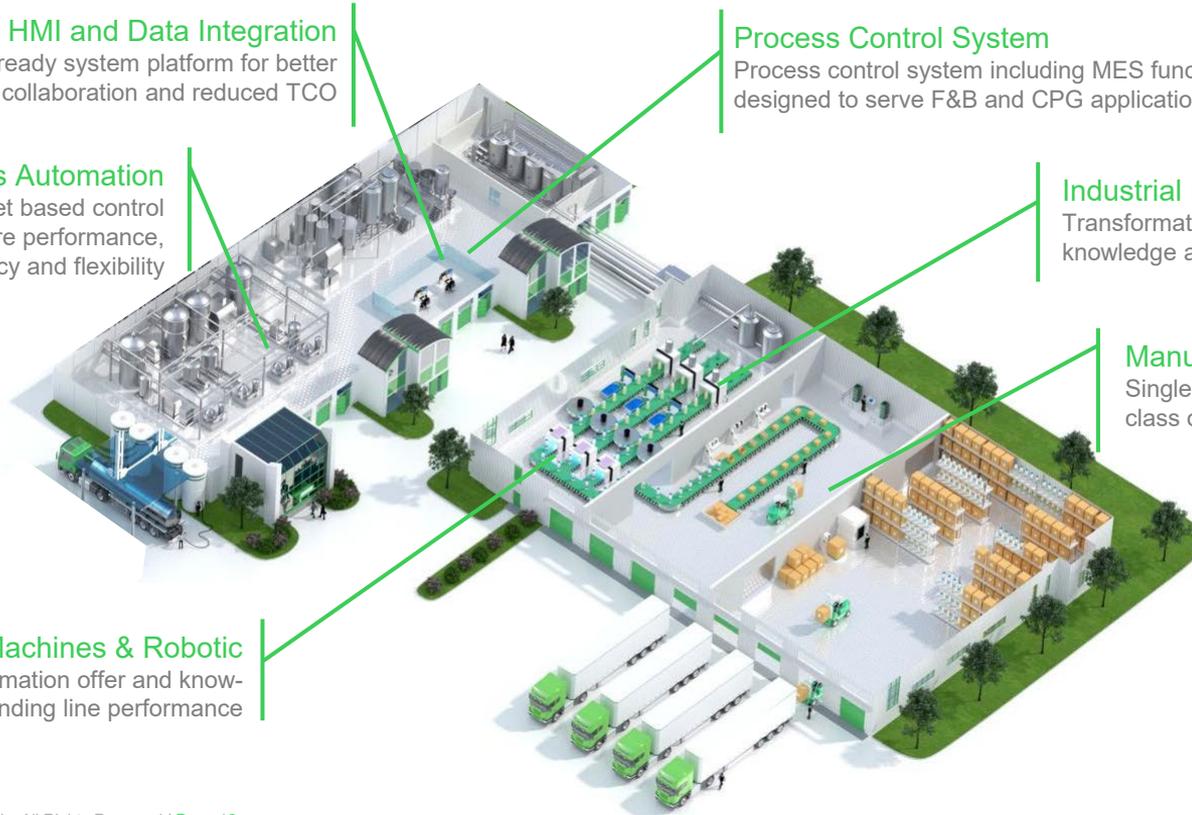
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# EcoStruxure for Food & Beverage / CPG

## 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

A photograph of two men in white lab coats and hairnets, wearing safety glasses, leaning on a yellow and black railing in a factory setting. They are looking at each other and talking. The background shows industrial machinery and structures.

Let's talk about

EcoEtruxure™  
for Food & Beverage

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