Agile Manufacturing

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

© 2020 Schneider Electric, All Rights Reserved | Page 2
Information Management: more than ‘just’ a historian

The solution

• Insight is a cloud-based industrial solution for operations: Historical & Events, Autogenerated Dashboards, Process Graphics, Equipment efficiency analysis
• Make operational data accessible and empower your workforce with Insight – anywhere, anytime, any device

Insight enables users to

• Connect with critical production data – anywhere, anytime, on any device
• Unlock plant performance and efficiency KPIs such as OEE and asset utilisation
• Compare across assets, plants or fleets
• Understand the performance and state of production process in visual context
• Create personalised content, dashboards and alerts
• Share and collaborate – across and between teams

Learn more
EcoStruxure™ Clean In Place Advisor
Unveiling sources of optimization and documenting evidence of proper cleaning

The solution

• Performance Assessment unveil current status of your CIP stations
• Clean-In-Place Advisor monitors real-time operation and document optimization possibilities and cleaning evidences

Typical benefits

• Reduced water and carbon footprint:
  – Up to 30% energy savings
  – Up to 5% water and chemical savings
• Higher productivity: up to 15%
• Improved traceability
• Typical ROI from 6 – 8 months

Learn more
Customer Challenge
- Full traceability of all materials of the blending process
- Tracking of all incoming raw materials used in more than 150 recipes
- Production data linked into the company’s ERP system
- Gain HACCP certification
- Improve the quality of finished goods
- Reduce inventory discrepancies

The Solution
- System Platform (Powered by Wonderware)
- Historian

Customer Benefits
- Better insight into the blending operation: more consistent product quality from following recipes exactly
- Improved raw material stock control
- Real-time blend closure in the ERP system
- Improved management of the blending process

The Results: Life is On with... HACCP certification achieved within 3 months of going live

“Imana Foods would not have achieved HACCP accreditation without this solution in place”.

Paul Alcock, MD, Imana Foods

Link to Paper

Leader in the South African Soya Mince market. Producer of Packet Soups and Gravy Mix since 1984
Customer Challenge
• Needed a powerful & flexible platform to create templates

The Solution
• System Platform (Powered by Wonderware)
• Historian

Customer Benefits
• Flexibility to process data quickly & record them at any time
• Quickly identify the problems that occur during production and fix them within a short time by monitoring the deviations
• Monitoring of equipment and applications allowed an increase of the OEE by improving the machine coordination

The Results: Life is On with... Increased Product Quality & traceability to end-users.

Link to Web
Link to Video
Measurable savings through CIP optimization

European Dairy Products Producer

Customer Challenge
• Reduction of Energy spend within the plant
• CIP operations focus to optimize energy spend

The Solution
• EcoStruxure Cleaning Advisor: including
  • On-site assessment: 2 days
  • Walkthrough audit on utilities
  • Monitoring & optimization software tool
  • Training of operators

Customer Benefits
• CIP operations optimized
• 217,000€ savings per year
• Deployment of the methodology and solution to other plants

The Results: Life is On with... Payback < 6 months
Agile Manufacturing

Transforming operations to improve flexibility and profitability

- **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

- **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

- **HMI and Data Integration**
  IoT ready system platform for better collaboration and reduced TCO

- **Smart Machines & Robotic**
  Packaging automation offer and know-how for outstanding line performance

- **Industrial Information Management**
  Transformation of your data into actionable knowledge and wisdom

© 2020 Schneider Electric, All Rights Reserved | Page 9
## 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
Let’s talk about EcoStruxure™ for Food & Beverage