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

- **Process Control System**: Process control system including MES functions designed to serve F&B and CPG applications.
- **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.
- **HMI and Data Integration**: IoT ready system platform for better collaboration and reduced TCO.
- **Process Automation**: Innovative Ethernet based control platform for more performance, transparency and flexibility.
- **Smart Machines & Robotic**: Packaging automation offer and know-how for outstanding line performance.

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HMI & Data Integration
Leveraging the world leading real time industrial platform

The foundation for IT/OT convergence.

- Hardware agnostic real time control and information management.
- Capability extension to incorporate new IIoT connected point.
- Toolkit ecosystem partners to develop and deploy customer and industry specific applications.
- Easy integration with business applications through a common information model.
The solution

Access External Applications
• Embedded Browser Control
• Custom Content
• Single Sign On

Leverage More Information
• SCADA Playback
• Works with existing process graphics
• Zero engineering to leverage

New Custom Applications
• Interactive Mapping from any Tile Server
• Using Process Graphics
• Build with HTML5 technology
AVEVA System Platform

A new standard in automation: industrial IoT platform for hybrid delivery model- cloud & on-prem

Business value

- Accessibility for all size Organizations & Users
- Designed for new age workers
  - Multiple device,
  - Responsive User interface,
  - Multi-touch gestures)
- Powering the digital transformation with hybrid delivery model
- Reduce engineering with as much as 40% increased efficiency

Learn more
Customer Challenge
• Operate at rated capacity across multiple geographically dispersed facilities
• Expedite shipping efforts through more efficient load-in practices
• Establish scalable operational practices

The Solution
• System platform (Powered by Wonderware)
• InTouch HMI
• Historian

Customer Benefits
• 80% reduction in development time: from 4 months to 4 weeks
• 60% reduction in idle time between loading of railcar
• 40% decrease in rail receiving time by implementing standardized instrumentation and operator control

The Results: Life is On with... 10% increase in shipping efficiency

"Historian allows insight into how our equipment is operating relative to its rated capacities. This identifies equipment efficiency and where Viterra can improve to maximize unused capacity and where additional capacity may be warranted."
Paul Bourbon
Manager Automation Services

For Food & Beverage

Grain industry leader with 85 sites globally. Market and move millions of tons of grains, oilseeds, pulses to over 50 countries.
Customer Challenge
• Compliance with legal regulations within a strictly regulated production environment
• Continuous production control and complete product tracing
• Multiple production and automation systems to integrate

The Solution
• System Platform (Powered by Wonderware)
• InTouch HMI

Customer Benefits
• Open and flexible system integration
• Scalability of the applications
• Consistent process protocols

The Results: Life is On with... Guarantee of product quality even exceeding legal requirements

"Thanks to the open system connectivity Mars benefits not only from an integrated system solution but also from the flexibility to continuously scale and adapt the system applications”

Günter Osswald, Managing Director, G&O Automatisierungsgesellschaft mbH & Co. KG
Internal Customer Challenge

- Lack of situational awareness due to manual operation on shopfloor
- Improve line efficiency
- Improve product waste & give away

The Solution

- System Platform (Powered by Wonderware)
- InTouch (Standard Edition)
- InTouch (Machine Edition)

Customer Benefits

- Flexible solution, easy to adapt to existing hardware
- Quick installation, in 4.5 months
- Improved line efficiency in 6 months
- 2% decrease in waste
- 5% increase in product yields

The Results: Life is On with... Payback in less than a year

Link to Web
Link to Video
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
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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

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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