Agile Manufacturing

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

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Agile Manufacturing

Transforming operations to improve flexibility and profitability

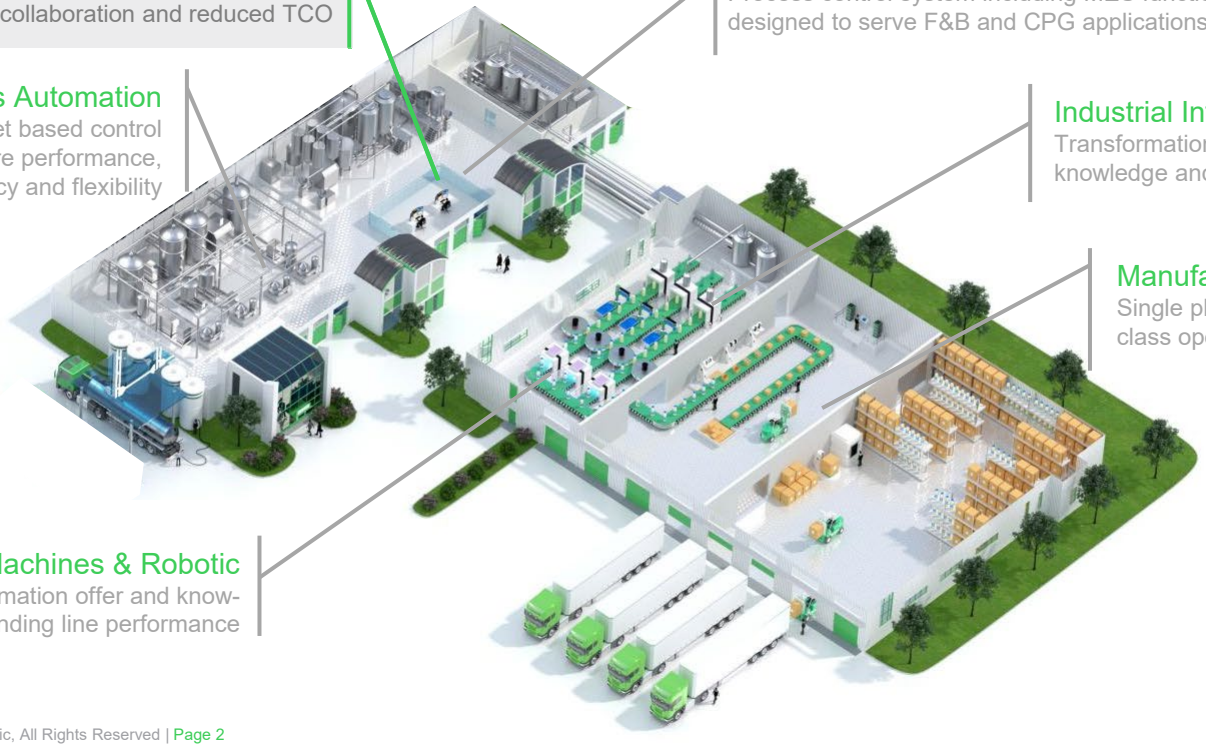
HMI and Data Integration
IoT ready system platform for better collaboration and reduced TCO

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

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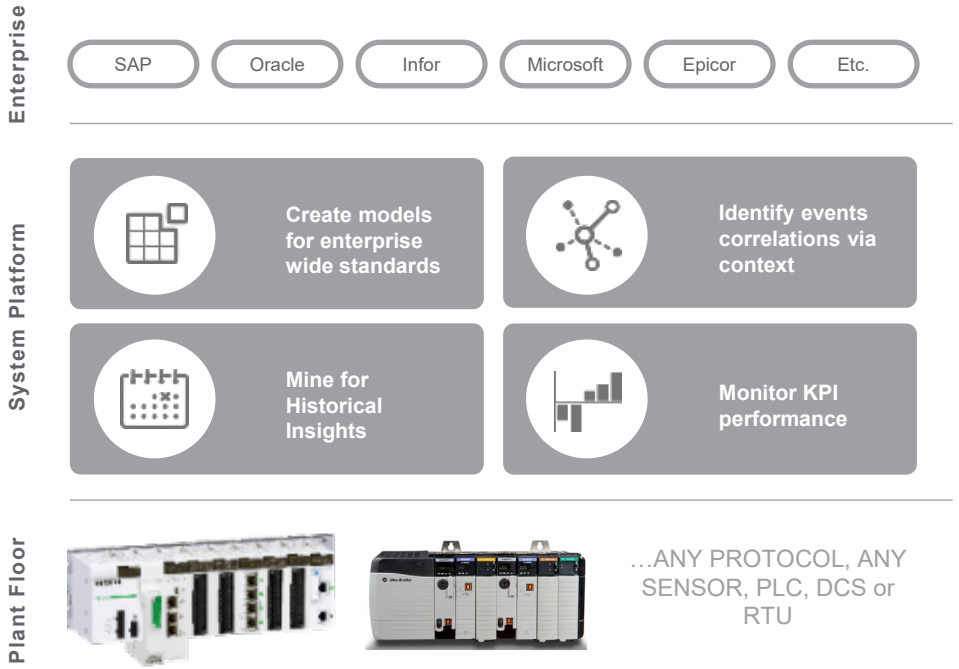
HMI & Data Integration

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



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AVEVA System Platform

A new standard in automation

The solution

Access External Applications

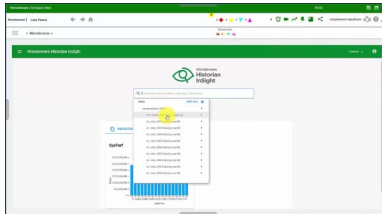
- Embedded Browser Control
- Custom Content
- Single Sign On

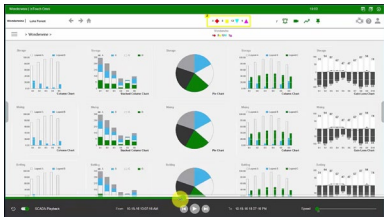
Leverage More Information

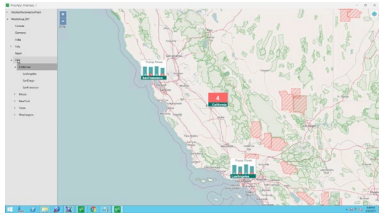
- SCADA Playback
- Works with existing process graphics
- Zero engineering to leverage

New Custom Applications

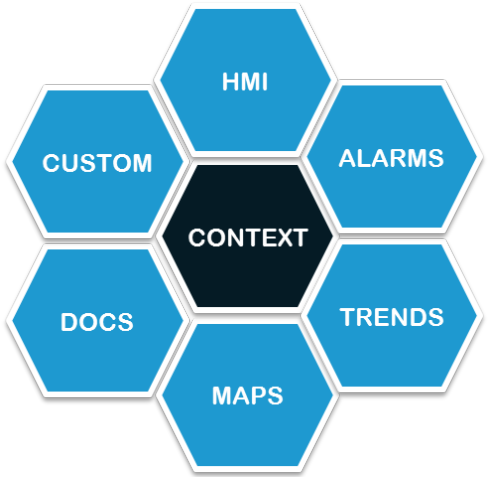
- Interactive Mapping from any Tile Server
- Using Process Graphics
- Build with HTML5 technology







Context at the core…



Learn more

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Internal

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 mush as 40% increased efficiency

Learn more

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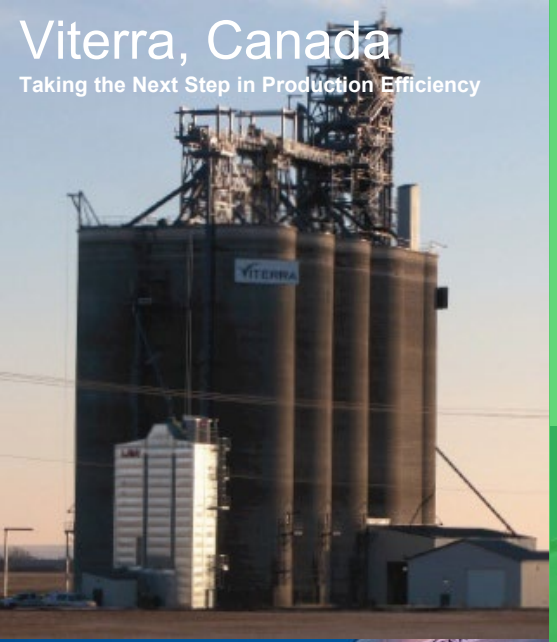
Viterra, Canada

Taking the Next Step in Production Efficiency



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

Link to Paper

Grain industry leader with 85 sites globally. Market and move millions of tons of grains, oilseeds, pulses to over 50 countries.

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

Apps, analytics, and services	AVEVA • System Platform • InTouch HMI • Historian
Edge control	
Connected products	

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Internal

Mars Deutschland GmbH, Germany

Full control over production processes

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

Link to Paper

European Pet food manufacturer

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Internal

La Tortilla Factory, USA

Modernization of manufacturing operations

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 yiels

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

Link to Web
Link to Video

1.5 Million Tortillas per day. 6 production lines.

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

Apps, analytics, and services	AVEVA • System Platform • InTouch HMI • InTouch Machine edition
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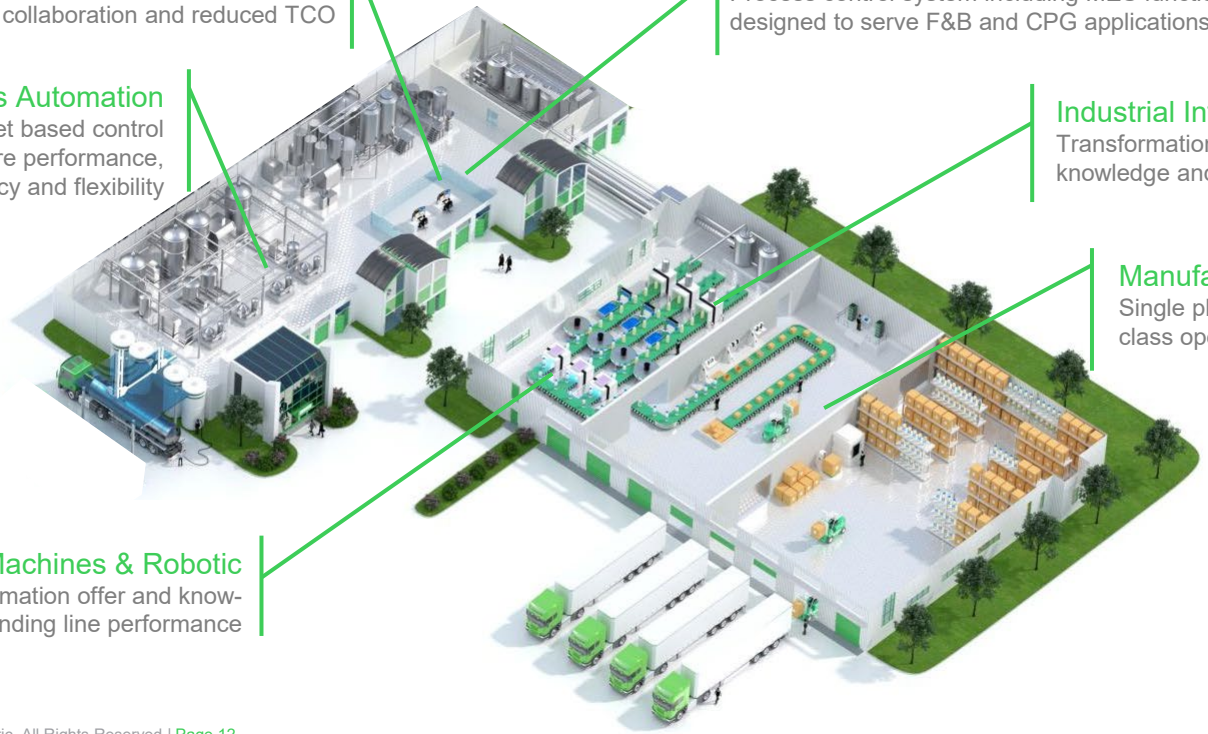

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EcoStruxure for Food & Beverage / CPG

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

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