

Representative Industry: Food Manufacturing

Visualize & Analyze

Loss Trees

Show where losses are occurring in both process areas and packaging

Visualize & Analyze

Overfilling

Enable real-time feedback on filling accuracy and management of packaging

AI Application

Root Cause of Yield Losses

Identify from thousands of parameters which are causal for real-time RCA of yield losses

AI Application

Dynamic Recommendations

Set production parameters to match raw material and environmental conditions

Visualize & Analyze

Efficiency by SKU

Associate cost, energy information by SKU, and optimize plant production

Edge Infrastructure

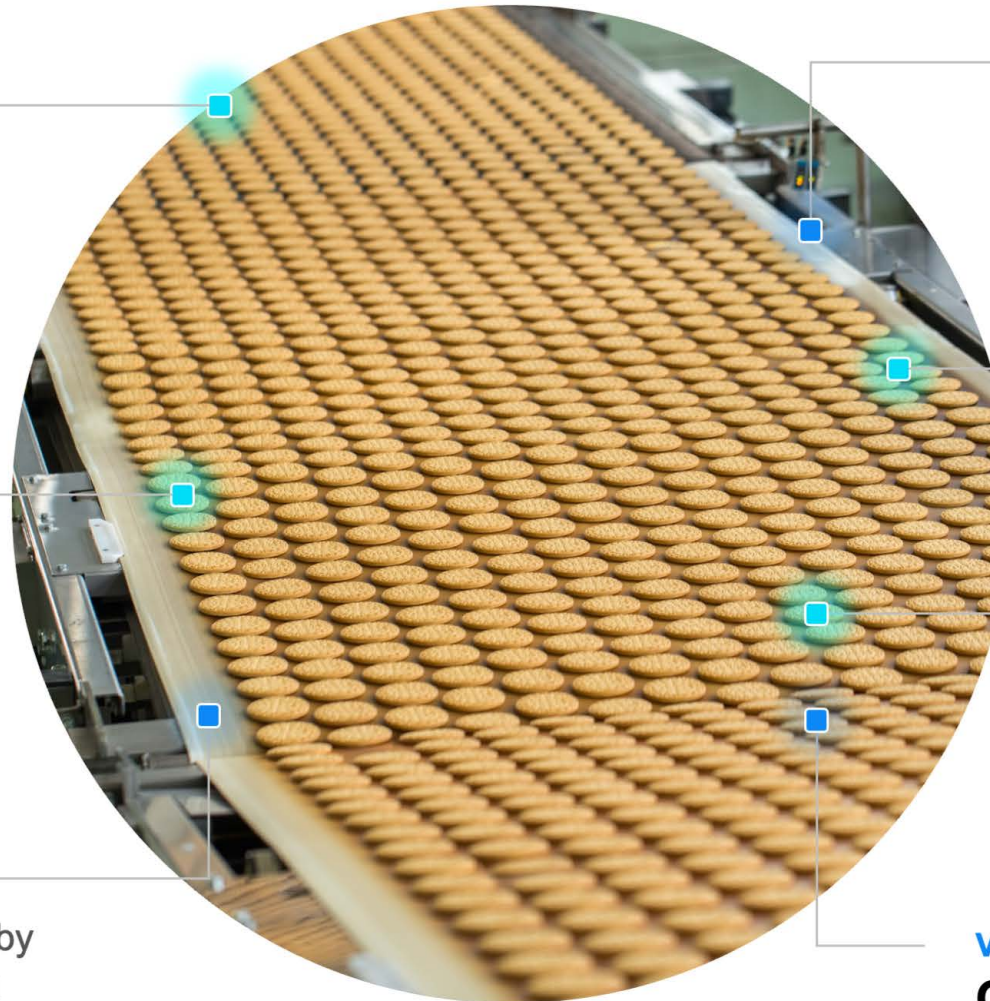
IoT Operations

Leverage IoT Operations as key infrastructure element for edge architecture

Visualize & Analyze

Optimize Line Speed for Stability and Yield

Identify the best line speeds by SKU.
Identify opportunities to increase line speed



Structure Once. Analyze Infinitely.

Unified Data Foundation Enables AI Across All Manufacturing Use Cases

	Visibility What's happening?	Variation What's changing?	Cause What's the cause?	Rule What's the rule/recipe?	Prediction What will happen?	Prescription What steps to take now?	Optimization How to optimize the system?
Throughput - Availability - Rate	Global Ops View Asset Throughput Comparison	Ramp Up Efficiency After Product CIP or Changeover	Real-time Inventory Control and Tracking	Packaging Fault Code Triage	Predictive Downtime	Packaging Microstops Reduction	Cookbooks and Recipe
Quality	Top Defect Pareto Daily Meeting Yield Dashboards	Dimension Consistency	Batch Production Consistency (e.g., Fermentation)	Set Points for Raw Material Seasonal Change/Mix (e.g., Grains, Dairy)	Allowance for Environment (e.g., Winter vs. Summer, Humidity)	Prescriptive Quality	Quality Optimizer, Cookbooks and Recipe
	Descriptive Statistics		Statistical Inference		AI/ML		
Cost - Energy - Materials - Labor	Waste Minimization / Water and Utilities Minimization	Cost Tracker	Material Reduction, Defect Analysis	Cooker/Fryer/Steamer Energy Reduction	Predictive Cost	Prescriptive Material Consumption	Overpack Reduction
Flexibility - Changeover - Process Changes - Mix	Changeovers, Network-wide Capacity	HACCP Compliance	Root Cause Changeover Delays	Scheduling and Line Balancing	Predictive Changeover	Viable Scrap Reblend Consistency and Optimization	Clean in Place (Changeover + Cost)