Representative Industry:
Metals and Heat-Intensive Production

Visualize & Analyze
3D Visualization
Real-time 3D view of furnace operations with 3D scenes leveraging data from Sight Machine

AI Application
Prescriptive Quality
Prescriptive recommendations for operators based on prediction of quality 2-3 days into the future

Visualize & Analyze
CO_2 Footprint
Real-time measurement of CO_2 footprint

Copilot
Enterprise Use Cases
Leverage manufacturing data to develop Copilots for enterprise-wide use cases. Examples: Marketing, supply chain

AI Application
CO_2 Reduction
AI applications to optimize CO_2 emissions per unit of saleable product

Visualize & Analyze
Energy Optimization
Optimize temperature settings to reduce energy usage while maintaining high product quality

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	OEE and KPI Tracker	Alarm Analysis	Centerline Analysis	Predictive Downtime	Prescriptive Uptime	Cookbooks and Recipe
Quality	Top Defect Pareto Daily Meeting Yield Dashboards	Yield Tracker	Root Cause Yield	Centerline Analysis: Recipe Setting	Predictive Yield and Energy Efficiency	Prescriptive Quality	Quality Optimizer, Cookbooks and Recipe
Cost • Energy • Materials • Labor	Materials Usage	Cost Tracker	Material Reduction, Defect Analysis	Yield and Rework Optimization	Predictive Cost	Prescriptive Material Consumption	Energy, Quality Optimization
Flexibility • Changeover • Process Changes • Mix	Changeovers, Network-wide Capacity	Changeover Variation, Network-wide Capacity Tracking	Root Cause Changeover Delays	Run-specific Recipes	Predictive Changeover	Prescriptive Changeover Schedule	Clean in Place (Changeover + Cost)

Descriptive Statistics   **Statistical Inference**   **AI/ML**