

# **Smart Manufacturing**

### Areas of Operation

Filling Lines Packing of Goods Cabinets for machinery Remote Sites & Equipment Machine States Detecting Possibilities of failures

#### **Plants**

Cement | Steel | Mining | Pulp & Paper | Metal Power | Chemical | Food Processing | Pharmaceuticals

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WORK

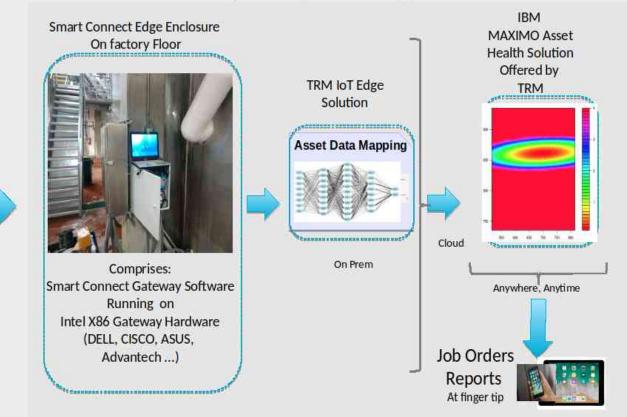
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## Repeatable Turnkey Solutions Non-Invasive Deployments Asset Health Solution Deployed at Food Processing Plant in North Carolina

TechData Vendor Partners Deliver Non-Invasive Industry 4.0 Solution From Edge to Dashboard

Data Source Multi-Vendor Sensors





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# Smart Manufacturing: Reducing Downtime & Increasing Efficiencies

### **Asset Management**

## **Operational Efficiencies**

- Gain visibility into asset usage across multiple sites
- Manage preventive, predictive, and conditioned-based maintenance from a single platform
- Effectively manage inventories of supplies, replacement parts, and equipment by
- Automating procurement, contracts, and work orders

- Align processes, resources, and functions
- Improve energy management of machinery
- Establish early warning systems
- Integrate remote, automated video monitoring
- Track multiple MTBFs from a single system

# **Sensor Data Points:**

All sensors that PLCs, DCS, HMI, SCADA systems are connected to All sensors that monitor and control field equipment, manufacturing and production processes

Temperature Sensors **Torque Sensors** Vibration Sensors Water Quantity Sensors Fluid Property Sensors **Force Sensors** Photo Optic Sensors **Pressure Sensors Energy Usage Sensors** Motors **Diesel Engines** Sound/Noise - Decibel Sensors Condition-monitoring Sensors

Humidity Sensors Ultrasonic Sensors Water Quality Sensors Flow Sensors Automation & Control Sensors Level Sensors Industrial Position Sensors **Rate and Inertial Sensors Proximity Sensors** Drives Sequence Sensors Telematics Sensors Cameras

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