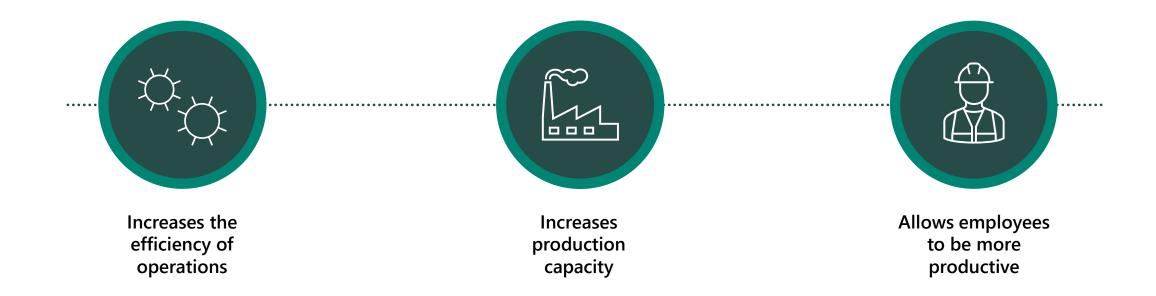


Industrial IoT for IoT Academy

Courtney Benson, *IoT Specialist*Joey Lorich, *IoT Technical Specialist*



Top Benefits of IoT in Manufacturing

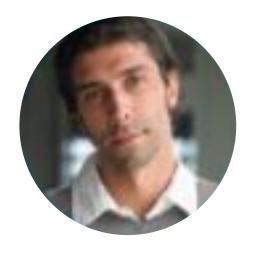


The Team



Wendy
Business Analyst

- Actionable insights and interactive reports
- Integrated data platform



SpencerVP of Global Operations

- Real-time visibility of global operations
- Streamline operations and reduce costs



MiguelPlant Manager

- Real-time visibility of plant operations – machines, people, and product quality
- Improve productivity

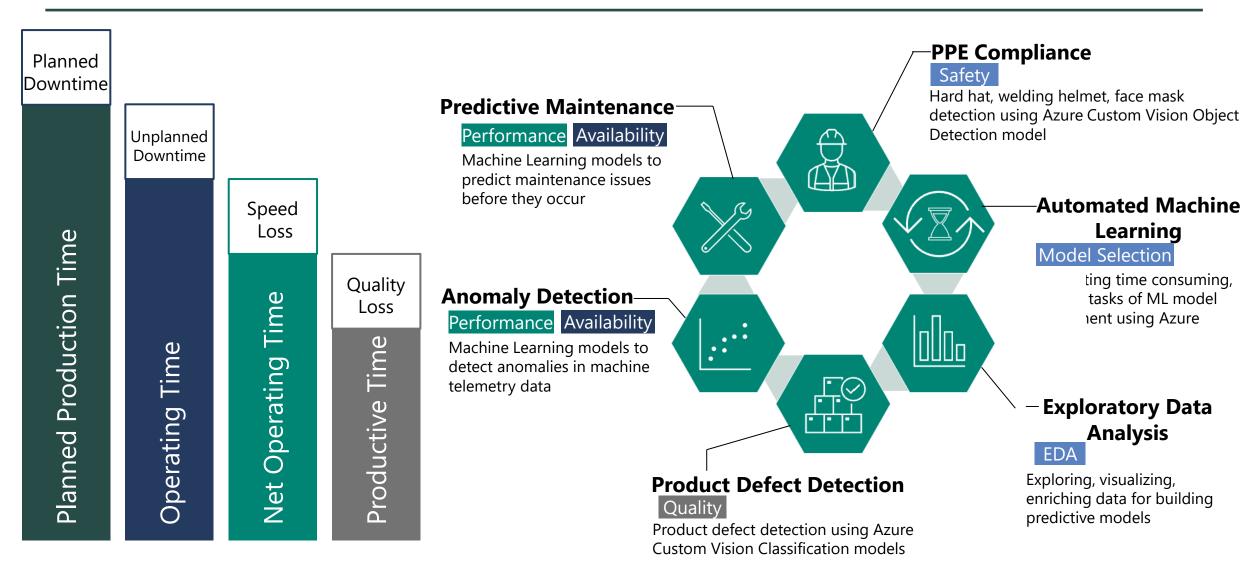


SeanMaintenance Supervisor

- Minimize downtime
- Diagnose issues faster

Demo

Al enabling Intelligent Manufacturing & Worker Safety



OEE = Availability x Performance x Quality

Architecture

Diagrams

Azure IoT Services for Manufacturing

- · <u>IoT Hub</u>
- <u>IoT Edge</u>
- Nested Edge

Industrial Device Connectivity

- <u>Standalone</u>
- · OPC-UA

Partner Solutions

· Thingworx on Azure

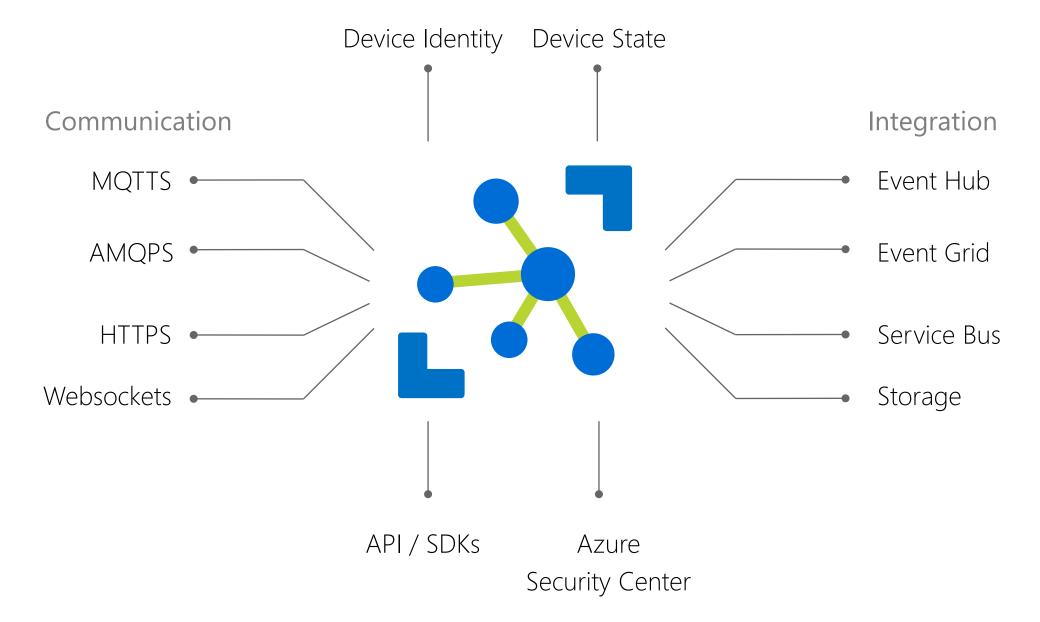
ML Optimization

ML on IoT Edge

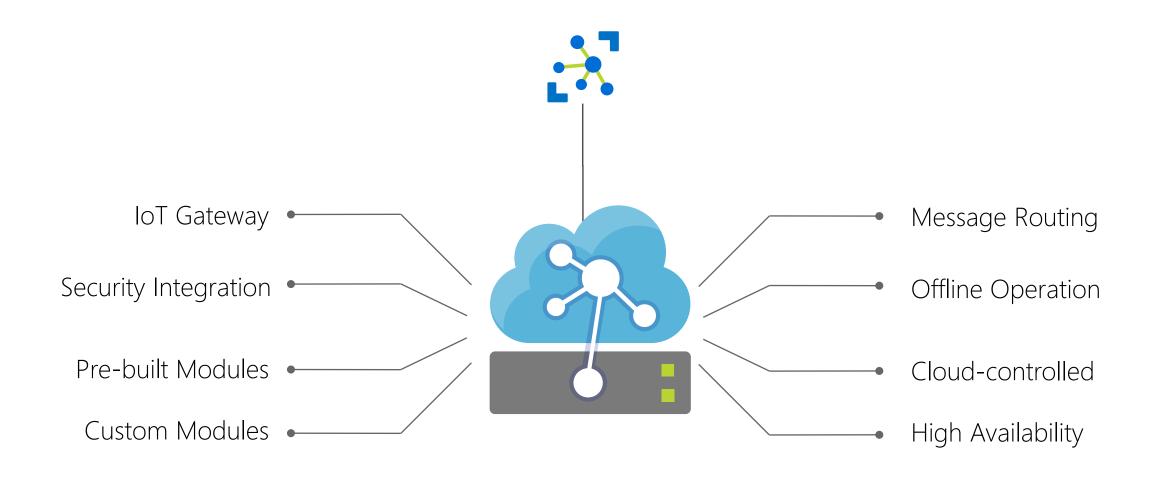
Scaled Deployments

<u>Production-ready Industrial</u>
 <u>Deployments</u>

IoT Hub

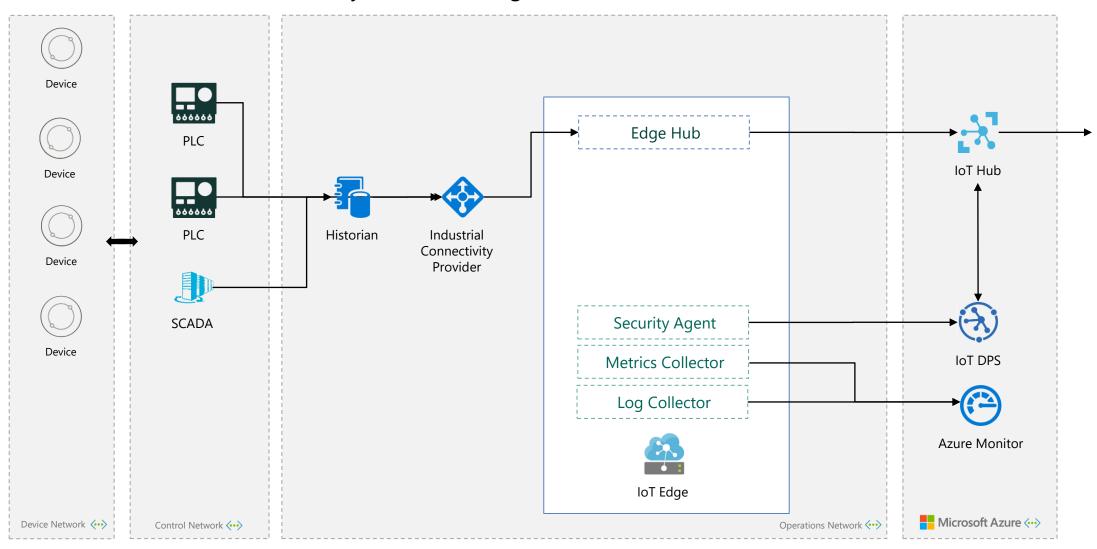


IoT Edge



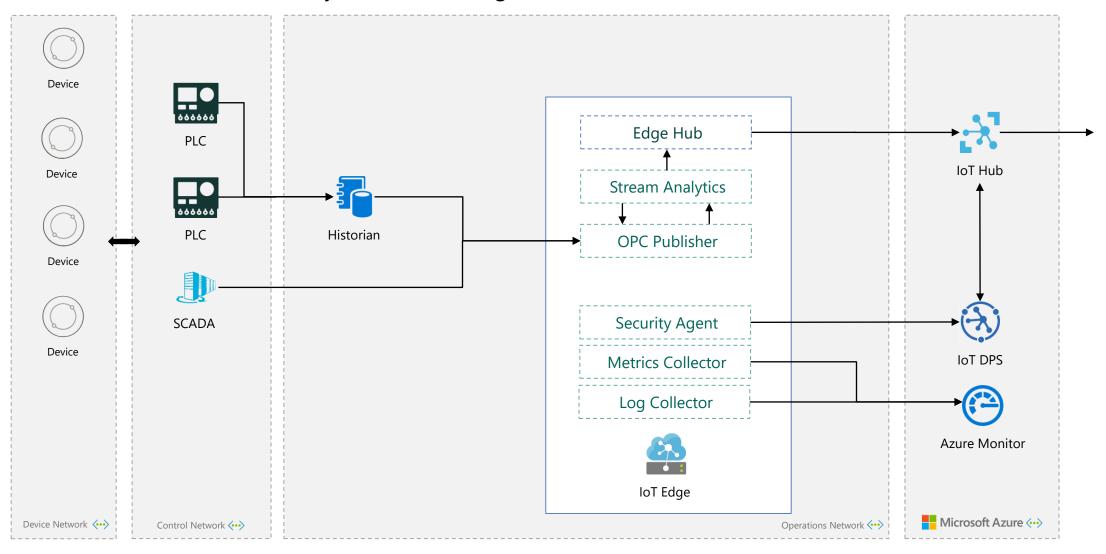
Industrial Device Connectivity

Standalone Industrial Connectivity Provider + Edge



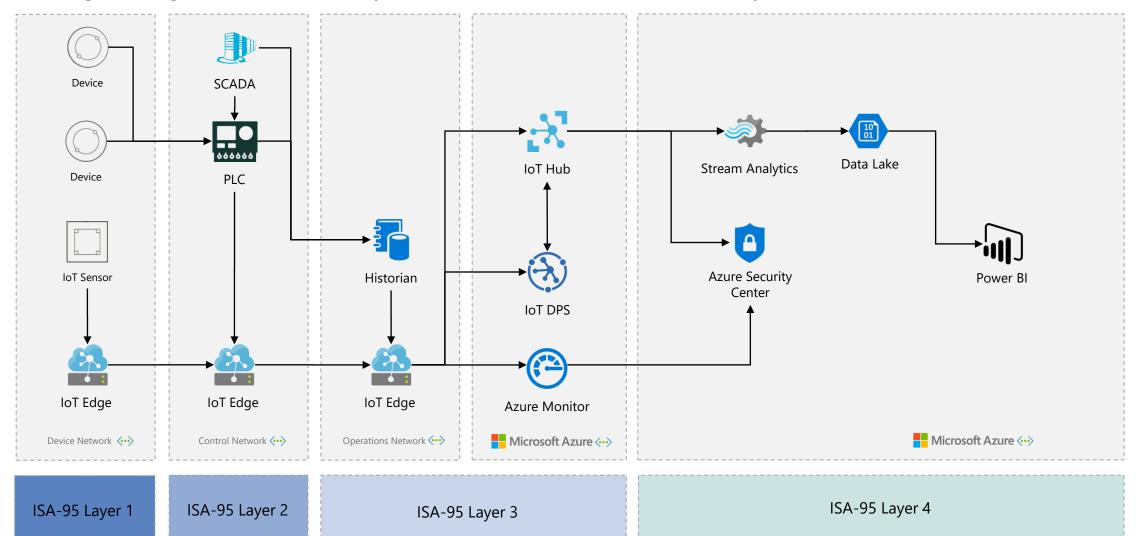
Industrial Device Connectivity

Microsoft OPC-UA Connectivity Provider on Edge



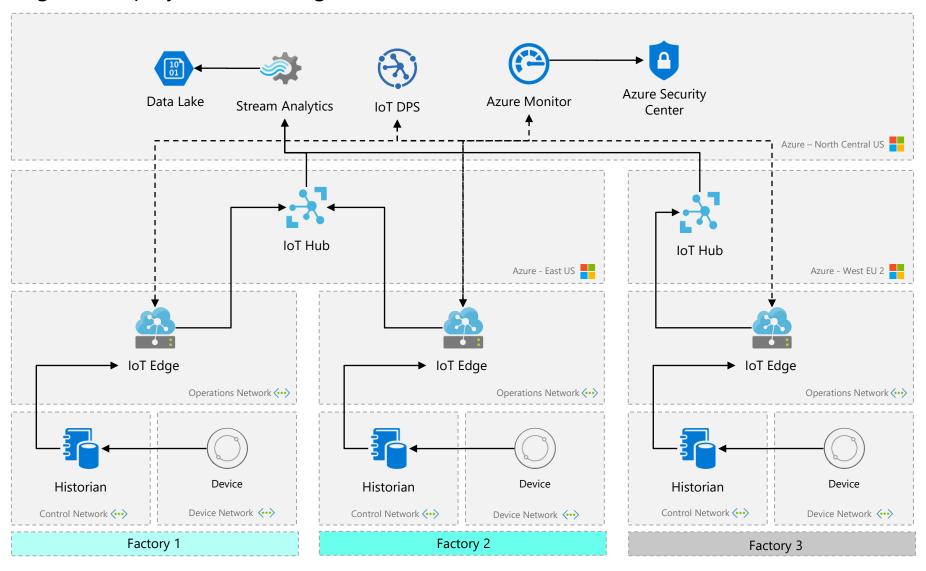
Nested Edge

Nesting IoT Edge nodes for security isolation, compliance, and efficiency



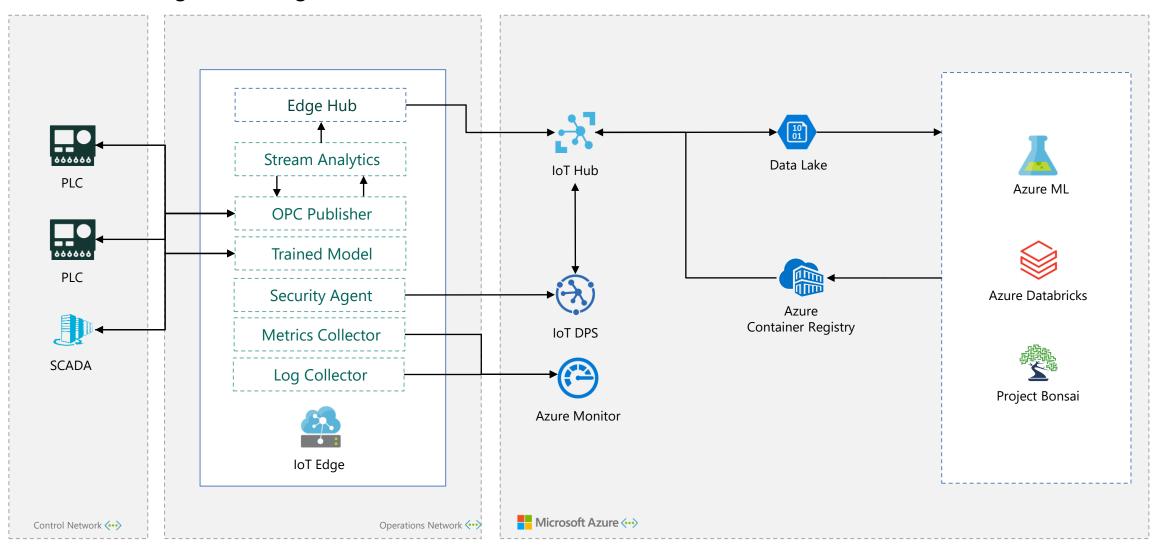
Production-ready industrial deployments

Regional deployments feeding a unified data store over the Azure network backbone



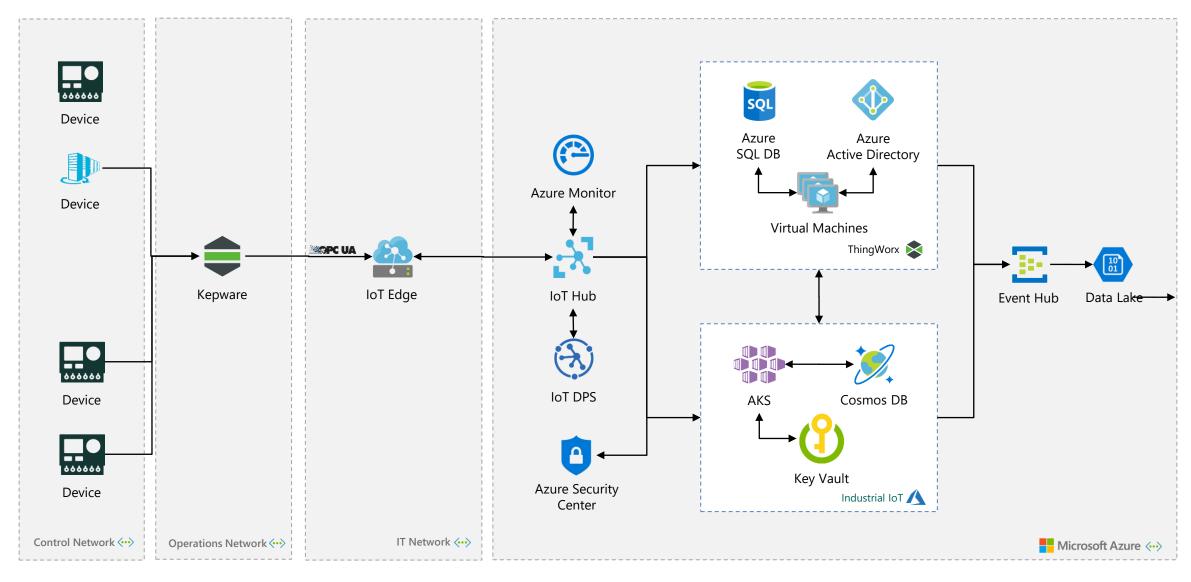
Industrial ML Optimization

Machine learning on the edge



PTC ThingWorx on Azure IIoT

Partner Solutions





Thank you

Additional IoT resources

Documentation

Gartner Magic Quadrant | Industrial IoT Platforms | 2020

<u>IoT Signals Report | Edition 2</u> <u>| October 2020</u>

Industrial IoT Documentation

<u>Customer and Partner</u> <u>Success Stories | Microsoft</u> <u>Azure</u>

Buy vs Build with PTC

<u>8 attributes of successful IoT solutions</u>

Training

<u>Introduction to Azure IoT -</u> <u>Learn | Microsoft Docs</u>

Introduction to Azure IoT
Edge - Learn | Microsoft Docs