# **Smarter** technology for all



Certified Solution **Partner** 

Makers of the PI System Seamless Data Infrastructure from Edge to Cloud

# The PI System: IIoT Data Infrastructure for Industrial Operators

Seamless Data Management from Edge to On-Premise to Cloud

#### Introduction

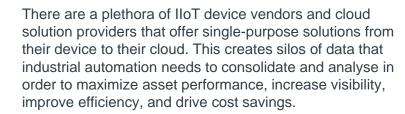


The Industrial Internet of Things (IIoT) creates opportunities to collect data in ways that were previously too difficult or too expensive.

OSIsoft's PI System - PI Edge, PI Core, and PI Cloud collects, consolidates, analyses, visualizes and shares large amounts of high-fidelity, time-series data from multiple sources to people and systems across all operations.

Two-thirds of Fortune 500 industrial organizations use the PI System. It is the proven system of record for operational data in essential sectors such as power generation and utilities, water, oil & gas, mining, metals, manufacturing, pharmaceutical, facilities, transportation, food and beverage, and more.

# Challenges



### Solution



The OSIsoft PI System is a data infrastructure that spans seamlessly from the edge, to on-premise, to the cloud.

By putting all data into one system that is available to personnel and applications enterprise-wide, OSIsoft brings consistency, reliability, and performance that industrial operators and service providers use for:

- Optimized operations
- Improved maintenance and reliability practices
- Incident avoidance and compliance in EH&S
- Energy efficiency improvements

## Features/Results



The PI System is able to collect data from many sources, regardless of location, vendor or technology. It stores, organizes, visualizes, analyses, and notifies natively, and integrates with other enterprise systems like Enterprise Resource Planning, Computerized Maintenance Management, Manufacturing Execution Systems, Data Lakes, and Advanced Analytics. This enables you to:

#### Improve efficiency of business processes:

Running the PI Edge technologies on Lenovo Smart Edge computers such as the M90n-1 Nano IoT on remote/ mobile assets and plant floor equipment supports local analytics and visualization.

#### Make better decisions:

PI Core software runs at the plant data center on Lenovo servers such as the SE-350 for real-time decision-making.

#### **Enable data science for the enterprise:**

PI Edge and PI Core can send data to PI Cloud to support advanced analytics and data sharing to new value networks to drive smarter, strategic decisions across the enterprise.