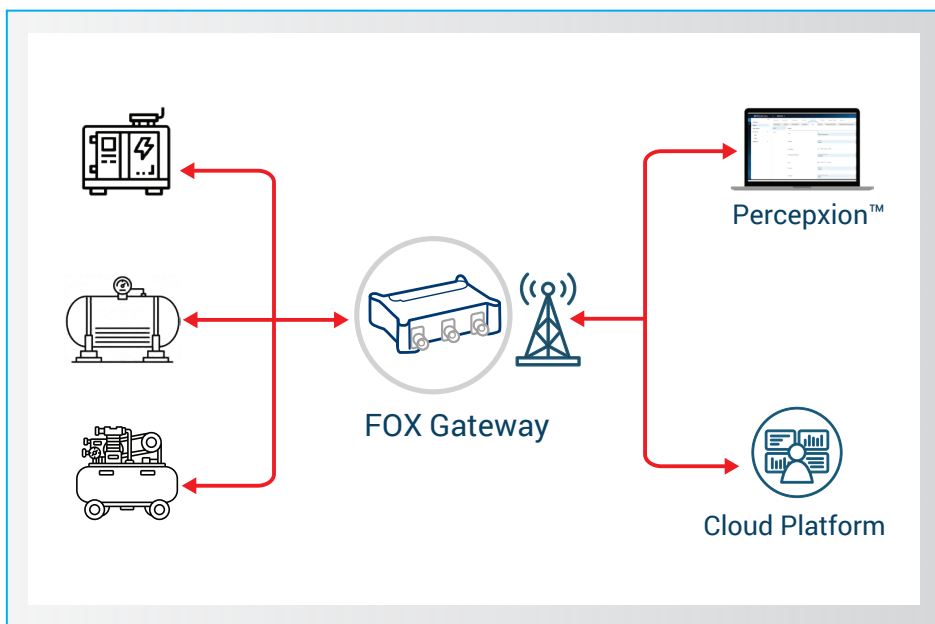


Reduce Unplanned Downtime by 30%  
Optimize Fuel Inventory Levels  
Lower Energy Costs Up To 30%



## The Industrial Challenge: Why Edge Intelligence Matters Now

Industrial enterprises are facing unprecedented challenges that threaten profitability and operational resilience:

- Maintenance costs rising 15-20% annually
- Security breaches targeting operational technology infrastructure
- Data overload from thousands of distributed assets
- Costly unplanned downtime up to \$260,000 per hour

### ■ Actionable Insights at the Edge

- No latency, no delays
- Transform raw sensor data
- Real-time edge decisions

### ■ Enhanced Security

- Encrypted data
- Security co-processor

### ■ Lower Total Cost of Ownership

- Reduce cloud usage
- Optimize cellular data costs

## Generators, Power Systems, HVAC

- Reduce unplanned downtime



## Fuel Tanks

- Optimize inventory levels and reduce emergency dispatches

## Industrial Air Compressors

- Lower energy usage & improve equipment lifespan



## Case Study: Nationwide Monitoring of Critical Infrastructure at Cellular Sites

### Background

A leading mobile network operator faced the challenge of monitoring critical assets nationwide while meeting strict compliance and security requirements. Existing solutions lacked scalability and adaptability for diverse equipment.

### Solution

Lantronix implemented an intelligent IoT architecture using FOX Series gateways and PercepXion™ cloud services. The solution offered edge intelligence, secure data transmission, and automated provisioning for thousands of devices.

### Results

The operator now benefits from continuous visibility, proactive threat detection, and simplified maintenance. The deployment accelerated integration, reduced operational costs, and positioned the network for future IoT-driven processes.

