Belden

Scalable intelligence for industrial performance

Executive Summary

InUse

Why Optimizing Industrial Operations with AI, Data, and Robust Networks Matters

The industrial automation landscape is undergoing a transformative shift, driven by the imperative to harness data more effectively across the factory floor. **As operations grow increasingly complex, the need for robust data acquisition, advanced analytics and contextualization has become paramount.**

Real-time data collection and analysis are no longer optional. They are foundational to agile, informed decision-making in dynamic production environments.

From systems monitoring and control to predictive condition monitoring, AI-powered insights are enabling smarter management of machine health, optimizing material flow and enhancing overall operational efficiency.

This evolution underscores a critical pivot: **automation is no longer just about machinery.** It's about intelligence at every layer of the industrial ecosystem.

It is critical for end users, systems integrators and OEMs to emphasize the significance of a robust, resilient, reliable and scalable network infrastructure to support their digital transformation. In reality, this is often overlooked.

The partnership between Belden's leading Industrial Automation Solutions and InUse's AI power application layer is intended to fill this gap.

Belden's role: secure infrastructure & predictive maintenance

Belden provides the necessary network infrastructure backbone, thanks to:

- High-quality, resilient, reliable and scalable network solutions that connect legacy as well as modern equipment seamlessly
- Edge computing solutions for reduced clod dependency
- Data orchestration and contextualization capabilities for real-time insights
- Built-in features process sensor data to detect anomalies and predict failures.

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InUse's role: AIOT and gen AI-powered application layer

InUse overlays Belden's infrastructure with a low-code, AI-powered IIoT platform that transforms raw data into clear, actionable insights.

Anticipate and optimize every interruption to normal business operations through **AI-powered proactive supervision** and predictive maintenance.	Offer in-depth **KPI analysis and performance optimization** using performance monitoring, multi-site comparison and continuous improvement digitalization.	Augment daily operations with intelligent, **accelerated and connected collaboration** through human machine-AI synergy, centralized communications and 360 vision.	**Ensure compliance in real time** through measurement and optimization, carbon-footprint reduction and energy conservation.

Customer value & outcomes

Together, Belden and InUse deliver a complete, future-ready solution:

> **OEMs/machine builders benefit from:**

- Fast go-to-market for new services like predictive maintenance and overall equipment effectiveness (OEE) optimization.
- Easy configuration and scaling across machine fleets.
- Tailored solutions leveraging combined network and application expertise.

> **System integrators gain:**

- Reduced integration complexity across technology stacks.
- Accelerated deployment of scalable, customized applications.
- New revenue opportunities through value-added services.

This partnership enables customers to transition from reactive to proactive operations, driving measurable improvements in efficiency, uptime and profitability.