



CONSTRUCTION

SMART CONSTRUCTION IOT PLATFORM JOB SITE INSIGHTS™

PCL uses the Job Site Insights™ smart construction platform to ensure our projects sustainably provide clients with the highest quality building while reducing costly rework, decreasing client warranty claims, and improving building commissioning and turnover time.

JSI™ ingests data from IoT sensors throughout the project lifecycle and provides actionable alerts, insights, and analytics to reduce costs, improve quality, and increase sustainability.

SMART CONSTRUCTION PLATFORM

Job Site Insights™ is a PCL-developed, cloud-based, smart construction platform that works with Microsoft Azure smart building technologies to provide cost-effective monitoring of trends and potential issues on our projects. JSI creates a digital twin of the as-built construction site, visualizing IoT-sensor data on a model and mapping devices to spaces, assets, and people. Using advanced analytics, like machine learning (ML) and artificial intelligence (AI), JSI™ delivers actionable insights, automation, and prescriptive recommendations to the construction field staff in real-time – making construction “smarter.”

CLIENT PARTNERSHIP

- Increased build quality
- Less warranty claims
- Improved building commissioning & turnover
- Decreased energy costs
- Smart building

PROJECT OUTCOME

- Costly rework reduced
- Drive LEAN construction
- Increased sustainability and energy utilization
- Increased productivity
- Better risk management & mitigation

WHY JSI™

- Support LEAN construction practices
- Improve construction carbon foot print and increase sustainability
- Reduce costly rework and warranty claims
- Increased build quality and safety
- Enhanced productivity and schedule optimization
- Reduced insurance costs
- Improved building commissioning and turnover

- Monitors conditions like temperature, humidity, and flooding throughout the construction project, especially while operating under temporary heat and power.
- Alerts project staff if conditions deviate from ideal, in real-time, allowing immediate remediation of a problem before it can become an issue.
- Provides trending and integration to project analytics for a real-time view into the project health in a single pane of glass.



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