KS Industries

Transforming Project Controls and Delivery through Data-Driven Innovation

ACTIVECYBER

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Case Study

THE CHALLENGE ⌄

KS Industries (KSI), a leading provider of construction and integrated project delivery services, recognized the need to modernize its project controls and cost management processes to remain a leader in today's rapidly evolving construction landscape.

The company faced significant challenges typical in the construction sector: fragmented data across legacy systems, siloed workflows between project teams, and limited real-time visibility into project performance. These issues hindered effective risk management, cost control, and timely decision-making, impacting both project outcomes and client satisfaction.

To address these challenges, KSI committed to a digital transformation strategy focused on leveraging its data as a strategic asset.

The goal was to enhance project delivery, improve transparency for clients, and drive operational excellence across the project lifecycle.

THE APPROACH ⌄

KSI partnered with Active Cyber to revise their analytics strategy for a scalable, centralized solution designed for the construction industry. Leveraging the Strategy Software platform, they were able to unify project data, strengthen project controls, and enable real-time analytics across all phases of project delivery, from planning and scheduling to execution and close-out.

KEY ARCHITECTURAL IMPROVEMENTS IMPLEMENTED ⌄

1 **Migration to Strategy Cloud:**

KSI transitioned its core project controls and cost management systems to Strategy Cloud, centralizing data from estimating, scheduling, procurement, and field operations. This established a single source of truth for project performance and financial data.

2 **Modernized Data Architecture for AI Readiness:**

The company restructured its data architecture to support advanced analytics, predictive risk modeling, and automated cost forecasting. A unified data model and event-driven pipelines ensure high-quality, well-governed data for project teams.

3 **Optimized Query Performance for Field Teams:**

Recognizing the need for timely information on-site, KSI implemented edge caching and query optimization, enabling remote project teams to access critical cost, schedule, and risk data even in low-bandwidth environments.

4 **Real-Time Data Ingestion and Processing:**

By deploying real-time data ingestion pipelines, KSI achieved up-to-the-minute visibility into project progress, equipment utilization, safety incidents, and cost variances—empowering proactive project controls and risk mitigation.

5 **Enhanced Data Governance and Security:**

A robust governance framework was established, including role-based access controls, data lineage, and compliance monitoring, ensuring data integrity and regulatory alignment across all project stakeholders.

6 **Self-Service Analytics Enablement:**

Project managers, cost controllers, and executives now leverage self-service analytics tools to generate custom reports, monitor key performance indicators (KPIs), and track project health without IT bottlenecks.

CLIENT & USER IMPACT ⌄

KSI's investment in Strategy Cloud has delivered substantial benefits for both internal teams and external clients:

- **For Project Controls & Delivery Teams:** Real-time access to project data has improved the accuracy of cost tracking, schedule adherence, and risk assessments. Field teams can now respond rapidly to project deviations, reducing delays and cost overruns.
- **For Corporate Functions:** Finance, operations, and safety departments utilize centralized dashboards for enterprise-wide visibility, streamlined reporting, and strategic planning.
- **For Clients:** Enhanced transparency and data-sharing capabilities allow clients to monitor project progress, budget status, and performance metrics in real time. This has strengthened trust, improved collaboration, and elevated the overall client experience.

OVERCOMING ADOPTION CHALLENGES ⌄

A key hurdle was driving adoption among field personnel, many of whom were new to digital project controls tools. KSI addressed this by developing intuitive, role-specific dashboards—delivering actionable insights on project status, safety alerts, and resource utilization directly to mobile devices. This focus on usability and immediate value accelerated adoption and demonstrated the tangible benefits of data-driven project controls.

RESULTS ⌄

KSI's digital transformation has already produced measurable outcomes:

- 60% improvement in data query performance, enabling faster, more informed decisions by both field and office teams.
- Accelerated analytics development lifecycle, with rapid deployment of dashboards for project tracking, cost management, and safety monitoring.
- Significantly improved client transparency, with clients gaining real-time visibility into project delivery, risk status, and budget performance.

These results underscore KSI's evolution into a data-driven construction leader, with project controls and cost management practices that set a new industry standard for operational excellence and client value.

ABOUT THE CLIENT ⌄

KS Industries is a premier construction and project delivery firm, serving sectors including energy, heavy industrial, and infrastructure. With a commitment to world-class operations and client-focused service, KSI continues to lead the way in project controls, risk management, and innovative construction solutions.

ACTIVE CYBER'S ROLE ⌄

Active Cyber provided strategic guidance and technical leadership throughout KSI's transformation, ensuring the successful implementation of Strategy Cloud. Their expertise in construction project controls, cost management, and digital innovation was instrumental in helping KSI realize its vision for data-driven project delivery.

For more information on how Active Cyber can help your business,
visit www.activecyber.com or contact us at info@activecyber.com.