



Decoding the Past, Shaping the Future: AI-Powered Project Forensics

A longtime managed cloud hosting customer turned to LoadSpring for help unlocking the insights hidden in their Primavera P6 data.

Executive Summary

When a global EPC and Construction Management firm specializing in massive energy and industrial projects set out to conduct a deep historical and forensics analysis of a past project, they recognized an opportunity to modernize their overall approach to project intelligence—gaining critical data to refine future project planning, improve execution, and mitigate risks. As a long-time LoadSpring managed cloud hosting customer, they turned to their trusted partner for help unlocking the insights hidden in their Primavera P6 data.

After discussing the client's needs, LoadSpring implemented LoadSpring INSIGHTS™, a solution combining robust data transformation and AI-driven analysis. By cleansing and structuring the project data and leveraging a customized Large Language Model (LLM), LoadSpring automated the creation of comprehensive, executive-level reports and a level of intelligence the client had never seen before.

The result was a streamlined system that saved significant time and delivered the precise intelligence the client needed—turning a complex data challenge into a compelling strategic asset.



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The Challenge

The customer needed to shift from standard reporting to a detailed analysis of how their project evolved over time. This required in-depth comparisons using historical data and the collection of monthly snapshots to track changes. The added complexity of creating selectable, interactive comparisons made the process overwhelming from a data management perspective. While their team was highly proficient in Primavera P6, they lacked the time and data expertise to extract and structure this information effectively.

Additionally, the customer wanted a way to create a concise, high-level summary at the completion of each project. This summary would capture key details of the project's lifecycle, presented in a format suitable for executives—brief, one or two pages, with graphs included. The customer needed a tool to adjust the level of detail in their communications based on the audience. For example, to provide executives with a quick 1-minute read, the tool had to generate a concise 2-3 paragraph summary, delivering key insights efficiently. The goal was to create a clear, easily digestible overview that could serve as a final project summary for clients.





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The Solution

Once the data was validated and processed, the AI seamlessly created human-readable summaries of the project lifecycle.

Given the customer's requirements, LoadSpring collaborated closely with them to determine the most effective approach for transforming their data into a clear, concise, and visually compelling project story. The client selected LoadSpring INSIGHTS, which offers two key components:

1. Data Transformation: LoadSpring handled the heavy lifting involved in preparing the data. This included cleaning, normalizing, unifying, and structuring the project data to ensure that it was both actionable and comparable across multiple snapshots taken throughout the project lifecycle. The data was extracted from the client's cloud-hosted P6 and transferred into INSIGHTS, where it underwent a comprehensive cleansing process. From there, LoadSpring created multiple views that focused on the relevant project data, filtering out irrelevant information and grouping data based on activity codes. This refinement process ensured that the data was tailored for project-specific insights. The result was a focused and actionable breakdown of the project's performance, enabling effective comparisons without overwhelming the team with unnecessary data.

2. AI-Driven Insights: Rather than relying on time-consuming, manual interrogation of the data, LoadSpring implemented a customized Large Language Model (LLM) to automate the analysis and reporting process. This advanced AI model went beyond typical AI chat interfaces by generating comprehensive reports, complete with detailed interrogation of the data, executive-level summaries and data visualizations. Once the data was validated and processed, the AI seamlessly created human-readable summaries of the project lifecycle. These reports provided leadership with a concise, insightful view of the project's performance, highlighting key takeaways and actionable insights in a format that was both easy to digest and ready for presentation to stakeholders.

This two-pronged solution—combining robust data transformation and AI-driven insights—enabled the client to gain a deeper understanding of their project, not just in terms of raw data, but as a clear, story-driven narrative.





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Outcomes

The implementation of LoadSpring INSIGHTS delivered transformational results in three key ways:

- **Immediate Impact:** The AI-driven solution streamlined the process of analyzing project data, significantly reducing the time and effort required to compare historical snapshots. This enabled the team to quickly extract insights and make informed decisions without the burden of manual data processing.
- **Executive-Level Project Summaries:** The client can now generate clear, concise lifecycle summaries at project completion. These reports are high-level yet insightful, designed for executive review, and include key visualizations that tell the story of the project's progression.
- **Predictive Analytics for Future Performance:** By leveraging historical data and automated reporting tools, the client can identify patterns and trends that inform future project performance. Structured data visualization enables proactive analysis of project evolution, allowing for the forecasting of risks and opportunities, better resource allocation, and continuous improvement in project execution.

By leveraging LoadSpring's AI and data expertise, the customer unearthed the intelligence it was seeking while gaining a repeatable, scalable solution for future projects and predictive intelligence.

Bridging Human Insight with AI

The AI initially provided insights at the project level. However, when the analysis was further refined to include activity code-level breakdowns, the customer gained section-by-section visibility within the project.

This deeper analysis allowed them to correlate data with real-world events, recalling specific incidents that impacted certain project areas. By combining AI-driven insights with their own human knowledge, the team could enhance the narrative, adding context that pure data queries couldn't capture.

Additionally, the AI-generated summaries allowed for manual entries, ensuring that project schedulers could further refine the story with their firsthand experience.



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Conclusion

LoadSpring's INSIGHTS didn't just meet the client's expectations—it redefined what's possible in project analysis and scheduling intelligence.

By transforming fragmented data into structured, AI-driven insights, the solution delivered a level of clarity, efficiency, and foresight that was previously out of reach.

The integration of AI-generated executive summaries, interactive comparisons, and predictive analytics gave the client not only a deeper understanding of past projects but also a powerful roadmap for future success.

This groundbreaking approach bridged the gap between raw data and strategic decision-making, proving that with the right technology, historical project analysis can become a forward-looking asset—one that drives smarter, faster, and more confident business decisions.

Discover how LoadSpring INSIGHTS can turn your project data into actionable intelligence—contact us today.

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