

AXON Big Data Analysis Platform

Vertechs AXON Big Data Analytics Platform leverages big data processing and AI large language models, contextualized within well engineering operations, to perform in-depth analysis of both structured and unstructured drilling, completion, production data, etc. By generating real-time insights, it transforms engineering data assets into accelerated operational efficiency and enhanced project performance.



FEATURES

- Leveraging legacy and realtime data across drilling, completion, and production period
- Secure on-premises deployment with full control and data sovereignty
- Automated extraction, interpretation, and modeling of structured and unstructured data at scale
- Intuitive dashboards enabling interactive data visualization

- AI-powered insights with anomaly detection and parameter optimization
- Customizable solutions tailored to project and operator needs

APPLICATION

Well Data Analytics

AXON integrates drilling, completion, and production data to provide a full view of well operations. By analyzing logging data, formation stratification, wellbore geometry and operation performance, AXON delivers actionable insights that improve hydrocarbon identification, optimize tools' selection, and enhance operational efficiency. Multi-well comparisons and historical data analysis help teams refine engineering decisions for safer, smarter operations.



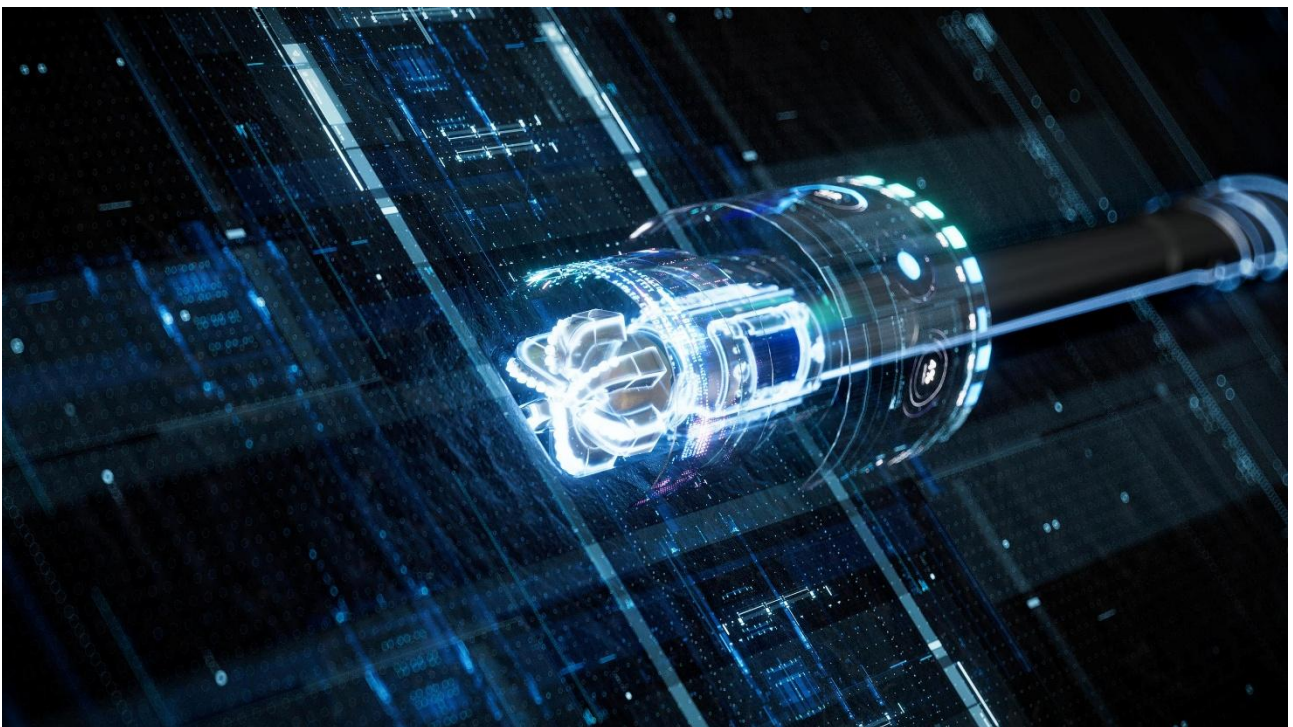
Well Construction Management

AXON compares planned designs with actual field execution to reveal deviations and performance gaps. Benchmarking key parameters allows teams to identify optimization opportunities, improve adherence to design standards, and continuously enhance drilling, completion, and production outcomes.



Predictive Operations

Using AI and machine learning, AXON recognizes potential issues before they impact performance. Early detection of wellbore risks, tool inefficiencies, or process bottlenecks enables teams to act proactively, ensuring smoother operations, reduced downtime, and improved safety and efficiency.



Contact Us

engineering@vertechs.com

Chengdu | Dammam | Houston | Calgary | Hong Kong

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