Deloitte. | **databricks**

ACCELERATING DIGITAL INNOVATION
WITH IMPROVED ASSET PERFORMANCE

Deloitte's Asset360 uses advanced data analytics to help transform asset management and realize new operational value

For organizations in asset-intensive industries such as oil and gas, energy, and other heavy industrial sectors, effective equipment maintenance and operational cost management are keys to overall Asset Lifecyle Management. But gathering insight to help predict failures, enhance maintenance schedules, and reduce downtime requires comprehensive data and analytics.

Top challenges facing asset-intensive industries:

- Random equipment failures with lengthy repair times
- Stopped production and poor labor productivity
- Lack of real-time asset monitoring
- Difficulty extracting data from manual documentation
- Lack of time and funding for strategic improvement thanks to unplanned downtime

Along with too much siloed information, outdated processes, and aging enterprise resource planning (ERP) systems, these challenges can prevent organizations from achieving profitability, sustainability and safety goals. But there's a better way forward.

DELOITTE'S ASSET360

Deloitte's Asset360 combines Deloitte's deep asset management experience with Databricks' powerful Data Intelligence Platform to provide a highly scalable analytics tool to help Energy, Renewables, and Industrials (ER&I) clients leverage data for improved asset management. Utilizing advanced artificial intelligence (AI), machine learning (ML), and digital twin technologies, organizations can implement Asset360 to improve:

Predictive maintenance
Utilize ML to assess the risk of asset failure and proactively alert relevant team members.

Work order management
Generate and prioritize work orders autonomously, factoring in safety and potential risks, and electronically communicate schedule changes to field technicians.

Risk-based inspections
Provide analytics to schedule inspections more effectively by reducing the risk of asset failure.

Outage management
Optimize outage scope and duration based on risk indicators to minimize disruptions.

Lifecycle management
Employ preconfigured data models, business rules, and algorithms for better total cost of ownership management using real-time asset health indicators.

Procurement
Streamline parts ordering and inventory management based on asset condition.

EMPOWERING PERSONNEL ACROSS THE ORGANIZATION

Asset360 is designed to make life easier for ER&I teams:

Superintendents gain the ability to focus on high-value opportunities with tools for effective decision-making.

Supervisors can share real-time information with field staff and proactively address work delays.

Reliability engineers can access asset health data to reduce unexpected equipment failures without wasting time searching for data.

Planners can schedule and prioritize jobs efficiently based on risk assessment and resource availability.

Field technicians can access real-time work and asset information to perform tasks quickly and efficiently, without relying on outdated methods.

FROM DIGITALLY-ENABLED DATA TO VALUE-DRIVEN MAINTENANCE ACTIONS

With a solution like Asset360, asset maintenance does more than prevent breakdowns, it helps optimize performance and extend asset lifecycles. Our solution leverages an advanced data and analytics platform with cutting-edge data science capabilities to enable daily benefits across the organization:

Integrated Asset Information
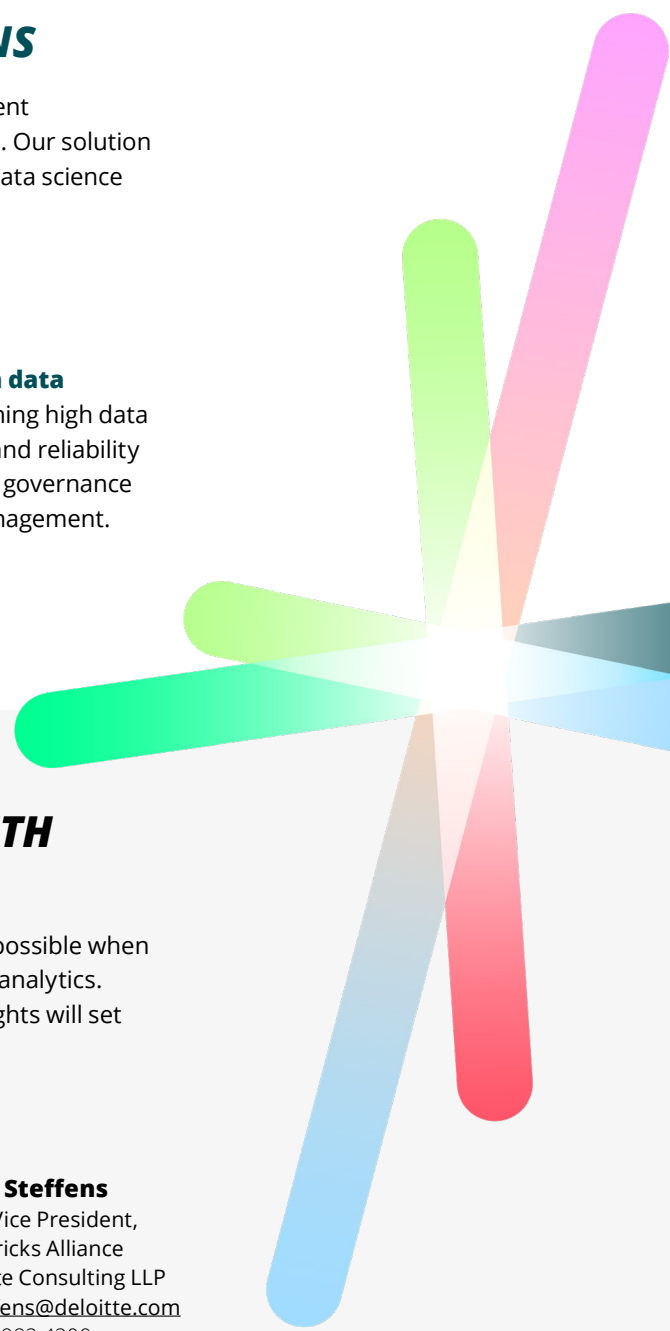Helping to ensure data and analytics insights are integrated and accessible across various functions.

Data-driven decisions
Enabling risk-based decisions and providing deeper insights from data analysis.

Trust in data
Maintaining high data quality and reliability through governance and management.

ACCELERATE ASSET PERFORMANCE WITH DELOITTE AND DATABRICKS

Deloitte's Asset360 solution, powered by Databricks, reshapes what's possible when organizations take a proactive, scalable approach to modernizing data analytics. In this fast-paced digital world, monitoring data and making use of insights will set organizations apart.

Ready to get started?

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