



## Optimizing assets with AI-powered technology

### What are the challenges?

Asset-intensive companies are struggling with aging infrastructure, an aging workforce, skills gaps and a lack of asset performance visibility. They need to balance asset cost, performance and risk.

With assets aging, these operators are facing a workforce exodus. In some industries, up to 40 percent may retire in the next five years. Knowledge retention about asset condition, basic maintenance tasks and risks are a constant challenge.

Smart companies are thinking differently. They are exploring new methods and tools that help minimize costs, optimize performance as well as tools to help avoid asset-related risks.

### How IBM IoT can help

Innovative companies increasingly aim to take full advantage of new artificial intelligence (AI)-powered technologies that can be incorporated into Asset Performance Management (APM) solutions. These AI-powered tools help companies optimize asset decision making. By providing advanced APM features, operations leaders, asset owners and risk professionals can help improve asset health, maintenance, lifecycle planning and overall asset strategy.

IBM's APM solutions are optimized for companies that need to maximize their asset investments, lower risks and reduce maintenance costs in ways not previously possible. Our solution is purpose-built to help companies design their asset future and competitive advantage. The solution is equipment agnostic, leverages IBM's AI heritage, and is fully integrated into IBM® Maximo® and other leading enterprise asset management (EAM) solutions, based on IBM's decades of EAM experience.

### IBM's APM solutions includes the following capabilities:



**Health :** *Maximo APM–Health* is the foundation for condition based maintenance, includes monitoring asset health and failure prediction.



**Predict:** *Maximo APM–Predict* predicts asset health using statistical models and machine learning. It includes failure date/probability, key drivers, degradation curves, and anomaly detection.



**Assist:** *Maximo APM–Assist* delivers prescriptive repair guidance to technicians/reliability engineers.

### Outcomes

IBM is engaging with countless asset-intensive companies to help bring our AI-powered, APM approach to the industry. Our ability to predict asset failure has a direct effect on unplanned downtime, and affords the opportunity to schedule and plan rather than react.

### We can also help companies:

- Optimize their CAPEX versus OPEX spend
- Improve their deferred maintenance decisions
- Develop better short and medium-term capital planning strategies
- Prioritize unplanned work
- Reduce unplanned downtime and lower maintenance costs.

The savings are real. For example, recently a UK client has achieved £85 million in savings, while a US client has achieved up to a 20 percent reduction in unplanned work.

IBM can help you to address these pressing challenges and win in the marketplace with us as your partner.

Learn more at: [ibm.co/apm](https://ibm.co/apm)