Optimize asset maintenance through machine learning

HPE Digital Prescriptive Maintenance Services from HPE Pointnext

Why digitize your supply chain

A huge opportunity exists to accelerate and streamline asset maintenance through digitization. Applying Internet of Things (IoT) technologies—like sensors and artificial intelligence-based insights—to the maintenance process can help you accurately gauge performance and predict failures.

Still, predictive maintenance can only take you so far. Organizations that seek to optimize assets, speed maintenance processes, and reduce risk must look to prescriptive maintenance, which can give you the reasoning and knowledge behind predictions and help you initiate corrective action—either manually or automatically.

Manufacturing, transportation, oil and gas, and other heavily mechanized industries rely on supply chain fluidity to stay afloat. Organizations in these industries have made significant investments in mission-critical machinery that is relied upon to drive business outcomes. Unexpected malfunctions and even regularly scheduled maintenance can be costly in terms of downtime, lost productivity, and risk.

Maintaining this equipment, as you well know, isn't easy. Some organizations are spending a lot of time performing manual inspections and analyses of these assets. Others are recording information onto spreadsheets by hand. Condition-based monitoring, another method, provides more in-depth information about your equipment assets; but it, too, has limitations. This raises the question: how do you optimize the maintenance process to get the best performance, best value from your equipment?

Where IoT and AI meet to advance asset maintenance

HPE's comprehensive Digital Prescriptive Maintenance (DPM) Services and IP from **HPE Pointnext** with partner and **HPE** technologies help you make better equipment-based decisions tailored to your needs, your system, and your environment while automating the associated actions.

HPE Prescriptive Maintenance Solution Components

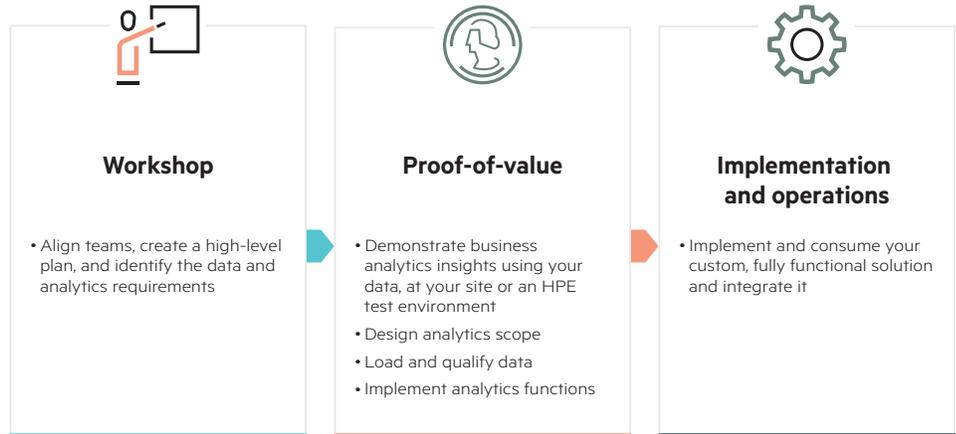| HPE POINTNEXT	Machine learning, analytics and data management software	Data lakes, IoT, infrastructure
Workshop **Proof-of-value** **Implementation**	data iku VERTICA kafka A distributed streaming platform Qlik Q nifi	**HPE Edgeline** **HPE Apollo** **HPE Servers** **HPE Storage**
Workshop, proof-of-value, and implementation of technologies and reference architectures from HPE and selected partners	Open framework from data ingestion, analysis to prediction, and action automation	Analysis of various structured and unstructured data sources at the edge and data center, on-premises, or in Hybrid IT	Integration with technologies from leading IT and maintenance technology partners

Key functionalities of HPE DPM Services

- Handles real-time and batch data streaming
- Integrate analytics and AI (machine learning, deep learning, etc.)
- Provides data exploration like anomaly detection
- Provides data prediction like equipment or product failure
- Guides maintenance through interpreted prediction
- Prescribes better decisions based on company specifics
- Executes actions through customized and automated workflow
- Operates at the edge and/or the data center

Workshop

- Align teams, create a high-level plan, and identify the data and analytics requirements

Proof-of-value

- Demonstrate business analytics insights using your data, at your site or an HPE test environment
- Design analytics scope
- Load and qualify data
- Implement analytics functions

Implementation and operations

- Implement and consume your custom, fully functional solution and integrate it

HPE DPM Services

HPE Pointnext deploys a three-phased approach to help you leverage the advantages **IoT** and **AI technologies** in asset maintenance. We start with a 1-day HPE Artificial Intelligence Transformation Workshop, move quickly into the proof-of-value process, and begin implementation of your customized solution.

HPE's global presence and experience working with customers across industries, including manufacturing, puts us in a unique position to address your specific needs and requirements. Combining this with HPE's proven technology, our experience deploying IoT and AI technologies, and HPE Pointnext services expertise, we can effectively digitize your assets to drive improved performance and business value.

Why HPE

Deploy a prescriptive approach to asset maintenance to optimize supply chain operations and create a competitive edge. **HPE DPM Services** enable you to:

- Boost speed through automation and accelerated response to maintenance issues
- Improve economics through strategically planned maintenance routines, greater uptime, productivity, and quality
- Reduce risk to the business and employees

For more information

Contact your HPE representative today to schedule a workshop or proof-of-value. Visit **hpe.com/services/ai-data** to learn more.

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