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PredictiveIQ Highlights the Role of Physics AI in Advancing Predictive Sustainment at the 2026 Maintenance Symposium

Phoenix, Arizona | January 23, 2026 – PredictiveIQ, a technology company developing Physics AI solutions for advanced diagnostics, prognostics, and predictive sustainment, participated in the Department of War Maintenance Symposium and the co-located Maintenance and Logistics Exhibition, held January 20–23, 2026, at the Phoenix Convention Center in Phoenix, Arizona.

The event brought together maintenance and logistics professionals from across the military, government, industry, and academia to address evolving sustainment challenges, exchange technical knowledge, and explore innovative approaches to improving equipment reliability and operational readiness.

Under the theme *"Advancing Readiness to Exploit the Logistics Deterrent Effect,"* the symposium emphasized the critical role of maintenance and logistics in supporting mission effectiveness and sustaining complex systems throughout their operational lifecycles.

PredictiveIQ's participation reflected the company's commitment to advancing intelligent maintenance technologies that help organizations anticipate equipment issues, improve maintenance planning, and make more informed sustainment decisions.

Moving Beyond Reactive Maintenance with Physics AI

Traditional maintenance strategies often depend on scheduled inspections, predefined service intervals, or corrective actions after equipment failures occur. While these approaches remain important, modern operational environments increasingly require more predictive and condition-based maintenance capabilities.

PredictiveIQ addresses this challenge through Physics AI, an approach that integrates physics-based engineering models with machine learning and operational data to provide deeper insights into the condition and behavior of complex assets.

By incorporating the physical principles that govern equipment performance, Physics AI can support more informed predictions of system behavior, even in environments where historical failure data is limited.

This capability is particularly valuable for sophisticated equipment and mission-critical assets, where unexpected failures can affect operational availability, maintenance resources, and overall lifecycle costs.

Through advanced diagnostics, prognostics, virtual sensors, and remaining useful life estimation, PredictiveIQ's technology is designed to help maintenance teams better understand equipment health and identify potential issues before they develop into more significant operational disruptions.

Connecting Predictive Intelligence with Sustainment Decisions

A central challenge in modern sustainment is transforming engineering and operational information into actionable maintenance decisions.

Physics AI offers a path toward addressing this challenge by connecting predictive analytics with the physical behavior of equipment and systems.

These capabilities can support maintenance organizations in evaluating asset conditions, prioritizing maintenance activities, and making more effective use of available resources.

Rather than relying exclusively on historical patterns, Physics AI enables maintenance strategies informed by engineering knowledge, operational conditions, and predictive insights.

For organizations responsible for maintaining complex fleets and equipment, this approach represents an opportunity to strengthen condition-based maintenance practices and support greater operational efficiency.

The Maintenance Symposium provided an important forum for exploring how advanced engineering technologies and intelligent analytical tools can contribute to the future of maintenance and sustainment.

Advancing the Future of Intelligent Maintenance

As maintenance requirements grow more complex, the integration of artificial intelligence with engineering-based predictive capabilities is becoming increasingly relevant to organizations seeking greater reliability and asset availability.

PredictiveIQ continues to advance technologies designed to support this transition, helping organizations move toward more proactive, informed, and efficient maintenance strategies.

The company's participation in the symposium reinforced its commitment to addressing real-world sustainment challenges and contributing to the broader advancement of predictive maintenance technologies.

Through Physics AI, PredictiveIQ aims to support a future in which maintenance decisions are increasingly guided by engineering intelligence, enabling organizations to better manage equipment performance and long-term operational readiness.

About PredictiveIQ

PredictiveIQ develops Physics AI software for advanced diagnostics, prognostics, and predictive sustainment. Its technology combines physics-based engineering models with machine learning and operational data to generate explainable health indicators, condition indicators, virtual sensors, remaining useful life estimates, and uncertainty-aware decision support.

PredictiveIQ supports defense and commercial customers seeking earlier fault detection, improved fault isolation, condition-based maintenance, and greater asset readiness.
For more information about PredictiveIQ, visit www.predictiveiq.com.