

## **FOR IMMEDIATE RELEASE**

### **AlarisPro Unveils Industry-First UAS Digital Twin Technology to Revolutionize Aviation Safety and Reliability**

**Baltimore, MD — May 28, 2025** — AlarisPro, the leader in Unmanned Aircraft System (UAS) operations and fleet management has recently launched its groundbreaking Digital Twin technology—an advanced safety and reliability platform powered by machine learning and the industry’s only comprehensive UAS component reliability data lake.

As UAS operations continue to expand within the National Airspace System (NAS), the need for predictive maintenance and real-time safety assessment tools has never been greater. Traditional aviation safety measures often rely on manual reporting and post-incident analysis, leaving significant gaps in proactive risk management.

AlarisPro is closing that gap. By leveraging a proprietary, industry-wide repository of UAS component performance data, AlarisPro’s platform enables operators to autonomously detect safety anomalies, predict component failures, and take preemptive actions—before incidents occur. This data-driven approach enhances operational efficiency, optimizes maintenance logistics, and ensures full regulatory compliance.

“At AlarisPro, we are redefining what it means to fly safely,” said Anthony Pucciarella, CEO and Founder at AlarisPro. “Our Digital Twin technology marks a pivotal advancement for UAS operators and manufacturers, enabling real-time insight into aircraft health and allowing for proactive decision-making across the board.”

The new Digital Twin framework creates a virtual counterpart of each aircraft, synchronized continuously with live and historical performance data. Using machine learning and transfer learning methodologies, the system adapts across various platforms and component types—making it scalable and effective even with limited historical data.

This innovative approach transitions maintenance from reactive to predictive, drastically improving safety margins and reducing costs. Through AlarisPro’s real-time risk assessment engine, insights generated by the Digital Twin are translated into actionable safety metrics, offering unparalleled visibility to operators, OEMs, and regulators alike.

“With our unique combination of aviation expertise, data analytics, and machine learning, AlarisPro delivers a transformative solution that supports the safe integration of UAS into the national airspace,” said Anthony Pucciarella.

### **About AlarisPro**

*AlarisPro offers the most advanced UAS operations and fleet management platform on the market, equipping operators, manufacturers, and maintenance professionals worldwide with the critical safety and reliability data needed to reduce risk, ensure compliance, and optimize unmanned systems and subsystems. Designed by military aviators and civilian UAS experts, AlarisPro brings a systems-of-systems approach to analyzing UAS reliability. The platform uniquely manages the industry's only centralized repository of UAS component reliability data, empowering users to make data-driven decisions, maximize operational efficiency, and safely expand mission capabilities across the unmanned aviation ecosystem.*

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