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AlarisPro partners with Dr. Adam Porter and team at Fraunhofer USA on AlarisPro's NASA-Funded AI Safety and Reliability Digital Twin Project

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AlarisPro

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Baltimore, MD – Following AlarisPro's recent NASA SBIR award for the development of its AI-Enhanced Digital Twin Framework for Unmanned Aircraft Systems (UAS), the company is proud to announce the formal support and collaboration of the Fraunhofer USA Center Mid-Atlantic and Dr. Adam Porter, Director and renowned expert in AI and software engineering.

Dr. Porter, who also serves as Technical Advisor for Software and Machine Learning on AlarisPro's Strategic Advisory Board, has committed Fraunhofer USA's collaboration in key areas of the project, including AI contributions, system validation, and design support. The initiative aligns with NASA's goal of building future In-Time Aviation Safety Management System (IASMS) services to support the safe integration of UAS into the National Airspace System (NAS).

“Fraunhofer USA has partnered with AlarisPro leadership over the years on groundbreaking innovations in software engineering, aviation reliability tracking, and logistics modeling,” said Dr. Porter. “We’re excited to formally support this initiative and work alongside AlarisPro to help build a safer and more predictive aviation future.”

“At a major car manufacturer, our team developed a novel AI-based system capable of predicting maintenance needs before they affected performance -- technology that demonstrated significant improvements in system reliability and the potential to reduce costly downtime,” said Jeno Szep, Senior Research Scientist at Fraunhofer USA.

“What AlarisPro is doing for aviation carries the same spirit, but on a much broader and more complex scale. The opportunity to apply AI-driven predictive maintenance and lifecycle management to UAS and aerospace systems is both exciting and transformative. Together, Fraunhofer USA and AlarisPro are bringing the proven power of proactive intelligence from the automotive world into the skies.”

This partnership further strengthens AlarisPro's position as the leader in data-driven UAS fleet management and systems' reliability. The AlarisPro AISR Digital Twin framework, now

backed by both NASA and Fraunhofer USA, will provide UAS operators and regulators with real-time insight into system health, predictive maintenance capabilities, and operational risk, all crucial for safely expanding unmanned operations within the National Airspace System (NAS).

“Having Dr. Porter and his team at Fraunhofer USA actively engaged in this work is a tremendous advantage,” said Anthony Pucciarella, CEO of AlarisPro. “Dr. Porter’s deep understanding of AI and systems architecture, combined with Fraunhofer’s reputation for cutting-edge research, adds tremendous value to our NASA initiative and to our broader vision for UAS safety innovation.”

This partnership reinforces AlarisPro’s position at the forefront of UAS safety and reliability, and it brings together two leaders committed to delivering solutions that are both operationally effective and aligned with evolving regulatory standards promoting safety and reliability for our National Airspace.

About AlarisPro

AlarisPro is the industry leader in UAS fleet management, safety, and compliance, equipping operators, manufacturers, and maintenance professionals worldwide with the critical safety and reliability data needed to reduce risk, ensure compliance, and optimize performance. Built by military aviators and civilian aviation and UAS experts, AlarisPro delivers the industry’s only component-level reliability data lake, enabling predictive maintenance and regulatory alignment. With innovations like Digital Twin technology, a customizable Safety Management System (SMS), and fleet-wide compliance intelligence, AlarisPro helps organizations prepare for FAA Part 108 BVLOS certifications, Part 135 operations, and SOC 2 Type II requirements. Trusted by commercial, government, and defense organizations, AlarisPro is redefining how unmanned aircraft systems are operated, maintained, and certified for safe, scalable growth. Learn more at www.alarispro.com.

About Fraunhofer USA

Fraunhofer USA is a leading applied research and development organization that collaborates with industry, government, and academia to accelerate innovation and deliver practical solutions to complex challenges. As part of the global Fraunhofer network, it leverages deep expertise across sectors to bridge cutting-edge science with real-world application. The Fraunhofer USA Center Mid-Atlantic focuses on advancing software engineering, artificial intelligence, and aerospace systems, supporting U.S. competitiveness and technology leadership. Through collaborative projects and



technology transfer, Fraunhofer USA helps bring pioneering ideas from the lab into impactful products, processes, and systems that strengthen industry and society.

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