



Press Release

16. Juni 2025

Strengthening Europe's sovereignty: Airbus and Quantum Systems work on ecosystem for aerial reconnaissance

Paris, 16 June 2025 - At the start of the Paris Air Show 2025, Quantum Systems and Airbus Defence and Space have signed a Memorandum of Understanding (MoU) to deepen their strategic cooperation. Both companies are working together on solutions to seamlessly integrate tactical aerial reconnaissance in particular into modern command and information systems.

The focus of these efforts is on quickly and effectively strengthening the capabilities of the armed forces while at the same time ensuring European technological sovereignty. In view of increasing geopolitical uncertainties and accelerated innovation cycles in the defence sector, resilient, interoperable and ready-to-use airborne surveillance and information systems are to be deployed in the short and medium term.

In contrast to other providers with closed system architectures, Quantum Systems and Airbus are deliberately focussing on transparency and interface openness for their AI-supported reconnaissance and impact network. The European user should have full control over the technology, data and further development of the systems.

In addition, existing initiatives relating to open interfaces, digital battlefields and forward-looking simulation environments are to be jointly developed further. The user-centred approach is a direct lesson from the developments on the battlefield in Ukraine. Quantum Systems has its own production facility and R&D hub there.

"This partnership is a strong signal for the European defence industry. Together with Airbus, we are creating a networked, autonomous and sovereign ecosystem for unmanned systems - operational, interoperable and open to partners. To this end, we will connect the Quantum Systems MOSAIC architecture underneath the Airbus CombatCloud. This will create a reconnaissance network from high



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altitudes down to the lowest level on the battlefield," says Florian Seibel, CEO of Quantum Systems.

Michael Schöllhorn, CEO of Airbus Defence and Space, said: "The partnership is in line with Airbus' strategic vision of shaping a European ecosystem in military aviation. In concrete terms, this is about ensuring Europe's sovereignty in AI-supported mission systems and crewed-uncrewed teaming. Together, we are consistently thinking 'software first'. This will enable military missions to be carried out more efficiently and effectively in future, while at the same time ensuring the adaptability of the systems."

Quantum Systems will collaborate closely with the Airbus business areas 'Air Power' and 'Connected Intelligence'. Together both companies form a dynamic and powerful alliance to advance European defence capabilities through their innovation, agility, international reach and deep AI expertise.

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About Quantum Systems



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Quantum Systems is at the forefront of AI-powered aerial robotics, developing a family of smart systems that go far beyond traditional drones. Our advanced electric vertical take-off and landing (eVTOL) small Unmanned Aerial Systems (sUAS), combined with our Drone Port solution, are designed to deliver automated actionable aerial intelligence. Built on a foundation of in-house software and AI, our systems transform aerial data into critical insights, empowering decision-making across security, defense and public safety, as well as for the commercial, industrial and GIS sectors.

Featuring cutting-edge technology like edge computing and real-time AI-driven data processing, Quantum Systems enables operators to make informed decisions with unmatched speed and precision. Our solutions bring aerial intelligence to your fingertips, automating the entire process—from deployment to data analysis.

Founded in 2015 and headquartered at Special Airport Oberpfaffenhofen near Munich, Quantum Systems operates globally with locations in the United States, Australia, Ukraine and Romania. Our German-engineered technology is trusted worldwide, paving the way for a new era of data-driven solutions.



June 4th, 2025

Quantum Systems Launches MOSAIC UXS: Multi-Domain Command and Control Platform for Unmanned Systems



Strategic expansion into software solutions complements the company's AI-powered Family of Systems with unified command and control capabilities across air, land, and sea domains

Gilching, Germany – 4 June 2025 – Quantum-Systems GmbH, the leader in aerial intelligence solutions for defense, emergency services, and industry, today announced the market launch of MOSAIC UXS, a software suite that transforms how military and security organizations command and control unmanned systems of different vendors across multiple domains.

MOSAIC UXS addresses a critical operational challenge and provides unified mission planning and mission execution across all domains while integrating seamlessly with existing command and control systems.

"Current drone operations create significant resource constraints," said Martin Karkour, Chief Sales Officer at Quantum Systems. "MOSAIC UXS enables a single operator to simultaneously control UAVs, unmanned ground vehicles, maritime



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assets, from us and third-party systems without manufacturers disclosing proprietary IP."

Key capabilities of MOSAIC UXS

360° Interconnectivity: Interfaces with all kinds of information management systems and sensors, ensuring on-demand data availability.

Data Consolidation: Combines data flows from diverse sensors, sources and systems to provide unified operational awareness.

AI-Powered Mission Intelligence: Enables mission planning & execution including optimized mission component positioning and real-time adjustment.

Swarm Operations: Orchestrates individual vehicle autonomy to complete specified tasks within coordinated operations.

Digital Situational Awareness: Creates a digitally visible area including terrain, elevation, points of interest and electromagnetic signals.

Scalable Operations: Scales from smartphone-operated frontline and first responder units to multi-screen command and control centers.

Open, Modular System: Interfaces for third-party unmanned systems, including non-ISR, as well as plug & play command and control system integration.

MOSAIC UXS is designed to provide comprehensive situational awareness while reducing the cognitive load for operators across all mission types and scales.

Availability and Strategic Vision

MOSAIC UXS is now available for defense and security customers.

"This launch represents our strategic evolution from unmanned systems manufacturer to comprehensive solutions provider," said Karkour. "We're enabling truly autonomous, multi-domain operations that multiply effectiveness and tactical advantage while reducing operational burden."



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Florian Seibel, Co-CEO of Quantum Systems, emphasized the platform's collaborative approach: "We're committed to prevent vendor lock-in through open SDK/API architecture. MOSAIC UXS is designed for rapid iteration and third-party hardware and software integration – whether strike modules, GNSS-denied navigation, mesh networks, or BMS interfaces. Most importantly, MOSAIC UXS incorporates real-world feedback from our Ukraine operations team and frontline experience."

For media inquiries, please contact:

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May 4th, 2025



Quantum Systems wins two tenders in Spain and becomes Spanish Armed Forces main supplier for mid-range-reconnaissance

Spanish Armed Forces sign landmark framework agreement on mid-range reconnaissance with Vector and become the first Family of Systems customer, including Twister for the Spanish Air Force.

Madrid, 04 May 2025 – Quantum Systems, the European market leader for real-time unmanned aerial intelligence solutions, is proud to announce that the Spanish Armed Forces have procured two different systems from the cutting-edge Family of Systems - Vector and Twister - making the Spanish Armed Forces the first customer to embrace Quantum Systems' full-spectrum Intelligence, Surveillance, and Reconnaissance (ISR) capabilities.

The Spanish Armed Forces and Quantum Systems have signed a framework agreement through which the Spanish Armed Forces will receive new medium range reconnaissance capabilities, with a landmark order of **91 Vector systems**, comprising 182 drones. **Vector** will be deployed for ISR missions across the Spanish Armed Forces, offering endurance, reliability, and mission flexibility.



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Vector will find its initial users with the Spanish Army (*Ejército de Tierra*) and the Spanish Marine Infantry (*Infantería de Marina*). Deliveries of the first systems will begin in **2025**.

“Spain will be at the forefront of the use of tactical aerial reconnaissance in Europe,” said Martin Karkour, Chief Sales Officer of Quantum Systems. “The Spanish Armed Forces recognize that aerial intelligence is a strategic asset, across service branches. We are proud to support them with scalable, full-spectrum ISTAR solutions that enable faster, better-informed decision-making.”

The Spanish Armed Forces and Quantum Systems will announce further details about the deployment of Vector and the framework agreement at the International Defence & Security Exhibition (FEINDEF) from 12 – 14 Mai in Madrid, Spain.

In parallel, the Spanish Air Force procured **multiple Twister systems**, with options for additional Systems, for their specialized Forces to equip them with short range reconnaissance systems for highly dynamic missions.

With the procurement of Twister and Vector, the Spanish Armed Forces will experience the full value of Quantum Systems’ Family of Systems architecture for ISTAR missions at short- and mid-range.

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March 25th, 2025

Quantum Systems Unveils Vector AI sUAS at AUSA Global Force in the U.S.



AI-Driven, Tactical eVTOL sUAS Defines New Standard in ISR Operations for Maneuver Forces

HUNTSVILLE, Ala., USA, March 25th, 2025 –Quantum Systems, a leader in electric vertical take-off and landing (eVTOL) aerial intelligence solutions, today unveiled Vector AI – the next-generation, AI-powered, extended-endurance tactical sUAS – at AUSA Global Force Symposium & Exposition 2025.

Designed for frontline forces operating in dynamic and contested environments, Vector AI supports advanced intelligence, surveillance, and reconnaissance (ISR) capabilities with autonomous mission execution, superior electronic warfare (EW) resilience, and real-time AI-driven situational awareness. These capabilities ensure warfighters maintain a decisive intelligence advantage in high-tempo operations.

"This platform is designed to meet the evolving needs of allied forces for software defined defense. It delivers advanced ISR capabilities in the most challenging battlespaces. Its interoperability and seamless battlefield integration provide a decisive advantage to forward-deployed military units and operational superiority during complex missions," said Sven Kruck, Co-CEO at Quantum-Systems GmbH.

March 25th, 2025

"Vector has already proven itself in global military operations, and this latest iteration builds upon those battlefield insights to deliver the most capable mid-range eVTOL sUAS available today," said Dave Sharpin, CEO of Quantum-Systems Inc. "With extended endurance, AI-driven mission autonomy, and modular, MOSA-compliant design Vector AI provides unmatched flexibility and adaptability for modern military forces operating in dynamic and contested environments."

Vector AI: Built for the Fight

Designed for maneuver forces conducting reconnaissance, surveillance, and target acquisition (RSTA) missions, Vector AI introduces significant advancements over previous generation sUAS:

- **Hardened Against GPS and Communications Denial – Visual Inertial Odometry (VIO) and Silvus Technologies' Spectrum Dominance capabilities** equips users with resilient navigation and command and control in contested environments, strengthening operational resilience and mission success even in GPS and communications-denied areas.
- **Mission-Adaptable with Modular Payload Integration – MOSA (Modular Open Systems Approach) compatible, the enhanced Ethernet-based, open-architecture payload bay** seamlessly integrates third-party ISR, SIGINT, and EW sensors, enabling rapid mission customization and future-ready scalability.
- **Autonomous AI-driven ISR – Dual onboard NVIDIA Jetson Orin processors** enable real-time object recognition, automated target tracking, and adaptive mission execution, reducing operator workload and increasing mission effectiveness.
- **Seamless Multi-Domain Interoperability – Vector AI is fully compatible with ATAK (Android Tactical Assault Kit), Cursor-on-Target (CoT), and leading battlefield management systems (BMS),** ensuring real-time situational awareness and coordinated targeting across joint and coalition forces.
- **Extended Endurance for Greater Time on Station – A redesigned eVTOL power system and advanced energy management** enable over three hours

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of continuous flight, ensuring longer ISR coverage with fewer system swaps, keeping operators focused on the mission.

Built for rapid deployment and sustained operations in austere environments, Vector AI delivers AI-powered ISR at the tactical edge. Its compact, lightweight airframe facilitates ease of transport and deployment, while its enhanced autonomy enables warfighters to focus on the mission—not the system.

AUSA Global Force Debut & Demonstration

Vector AI will be showcased at the Quantum Systems booth #735 at AUSA Global Force Symposium & Exposition 2025 in Huntsville, Alabama, where attendees can explore how Vector AI and Quantum Systems' interoperable Family of Systems are redefining tactical ISR for the modern warfighter.

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