

## Quantum Systems announces the launch of Trinity™ Pro – the evolutionary platform that expands operational capabilities, reduces risk, and provides industry leading aerial intelligence.

Germany, Munich, May 2nd, 2023 – Quantum Systems GmbH, the aerial intelligence company that provides multi-sensor data collection drones to commercial customers and government agencies, today announced the launch of Trinity Pro - the future-proof mapping drone designed to adapt to changing requirements and accelerate decision-making through aerial data with a high level of safety and ease of use.

The Trinity Pro, with its broad range of sensors, further improves the ROI from its highly successful predecessor, and firmly places itself as the premier fixed-wing VTOL drone.

### **Addressing the ever-changing needs of the commercial market**

The Trinity Pro, with its state-of-the-art flight control system allows for continued adaptation and evolution to meet ever-changing industry requirements.

Designed with the needs of tomorrow's data consumers in mind, the Trinity Pro provides an expanded feature set, capturing and delivering more data in less time than ever before. The Trinity Pro transforms drone capabilities, while remaining easy to operate, and simple to integrate into existing workflows.

With minimal downtime and low maintenance requirements, the Trinity Pro positions itself as the easiest to use, and highest performance fixed wing/VTOL drone on the market today.

### **Focusing on hardware-software synthesis**

The Trinity Pro is an advanced unmanned aerial system (UAS) designed to adapt to changing demands, provide additional connectivity, and accelerate decision-making. At the heart of Trinity Pro is the Quantum- Skynode autopilot, utilizing a Linux mission computer. This provides additional onboard computing power, increased internal storage, versatility, and seamless interoperability. These advanced avionics systems enable AI-readiness for the platform, support for downstream integration of next-generation sensors and provide cutting-edge safety features during field operations.

Included in the Trinity Pro system is Quantum-Systems' proprietary operations software, QBase 3D, and an ever-expanding portfolio of industry workflow and software integrations, which eliminate complex mission setup processes and maximize ROI in terms of cost and time efficiency.

The Trinity Pro's new capabilities include planning functions for missions requiring take-off and landing at different locations, allowing for efficient and safe long corridor flights and BVLOS operations. The platform also incorporates advanced self-diagnostics to ensure smooth and safe operation.

Trinity Pro launches alongside a new customer portal, an online solution for managing individual drones and fleets, training, and support activities. Users can easily access support, training materials, documentation, and online courses to enhance their skills and earn certifications.

### **Technical advancements**

Trinity Pro now includes an enhanced terrain-following system, which significantly improves safety during operations. Additionally, improvements to trigger point calculations result in improved image overlap and higher data quality. Trinity Pro also features automatic wind simulation for crash avoidance in bad weather and a linear approach for landing.

Furthermore, Trinity Pro is equipped with a downfacing LiDAR scanner that provides highly accurate ground avoidance and landing control. The system features USB-C ports for faster data transfer. Trinity Pro is protected against dust and water damage and features increased wind limits of up to 14 m/s in cruise mode (handling gusts up to 18m/s) and 11 m/s during hover.

“Hundreds of customers across various industries, including mapping, surveying, forestry, utilities, and construction, rely on the Trinity platform in their daily operations. The new capabilities of Trinity Pro make it even easier for professionals to expedite data collection and management, operations, and ultimately improve decision making. Through an enhanced user experience and a streamlined integration of future technologies, we are building on the success of the Trinity platform to help customers take advantage of aerial intelligence at scale,” said Florian Seibel, CEO of Quantum-Systems GmbH.

### **Built on the legacy of the Trinity F90+ UAS**

The Trinity UAS (launched in 2017) was designed to streamline the complex process of collecting aerial data. Since then, the Trinity platform has continued to improve in its performance and functionality, and additional features have been introduced to make the technology even more accessible and usable for daily operations.

With drone adoption continuing to rise, worldwide customers are utilising the Trinity platform to gather more aerial data than ever before to optimise their business processes. The platform has already accumulated over 75,000 flight hours and continues to innovate in response to the increasing demand for automation, data quality, and safety assurance.

Today’s announcement builds upon Trinity’s established success in supporting professionals across various industries, and it introduces novel solutions to meet even the most demanding requirements of commercial users.

## About Quantum Systems

Quantum Systems specialises in the development, design, and production of small Unmanned Aerial Systems (sUAS). The company's range of electric vertical take-off and landing (eVTOL) sUAS are built to maximize range and versatility and to provide operators with a seamless user experience. By integrating cutting-edge software capabilities, like edge computing and real-time AI-powered data processing, Quantum Systems is building next-generation UAS for clients in defence, security, public sectors.

Quantum-Systems was founded in 2015 and is headquartered at Special Airport Oberpfaffenhofen, 20 km west of Munich.

For more information about Quantum-Systems visit [www.quantum-systems.com](http://www.quantum-systems.com).