

# PRESS RELEASE

Pfronstetten-Aichelau, September 22, 2025



## Silver for DuxAlpha at the Innovation Award AGRITECHNICA 2025

### *Recognition for the first 3D path planning system for digital agriculture*



*Award-winning technology for the fields of the future: The modular DuxAlpha system – consisting of display, processing unit, and GNSS receiver – enables topographically precise 3D path planning, real-time machine connectivity, and automated documentation in a retrofittable all-in-one package. Photo: Arnold NextG*

**Pfronstetten-Aichelau / Frankfurt am Main, September 22, 2025** – With the Silver Medal at the prestigious AGRITECHNICA Innovation Award 2025, DuxAlpha is recognized as one of the most groundbreaking agrotechnical developments of the year. The DLG's international panel of experts honors a system that has the potential to fundamentally reshape modern agriculture: DuxAlpha is the first solution to combine topographically accurate 3D path planning with fully digital machine connectivity, cloud-based farm management, and automated field documentation – brand-independent, retrofit-capable, and ready for autonomous operation.

With DuxAlpha, the tractor becomes a digital twin of the field. The system maps terrain in 3D, calculates track lines with an accuracy of up to 2.5 cm, and synchronizes all machine processes in real time. Every task – from guidance to application rates to cost tracking – is documented automatically. The system is operated intuitively via terminal or app and is retrofit-ready for machines without factory-prepared automation – from older models to state-of-the-art equipment.

"With DuxAlpha, we are bringing the future to the field," says Kevin Arnold, CEO of DuxAlpha. "Receiving the Silver Medal is a tremendous honor for our entire team and a powerful endorsement of our vision. It confirms that a networked, automated, and sustainable agriculture is not just possible, but already a reality. DuxAlpha is more than just another guidance system – it is a technological platform where precision, automation, and efficiency converge. We sincerely thank the DLG and the jury for this recognition."

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Christoph Hei, Head of Development at DuxAlpha, emphasizes the system's technical depth: "DuxAlpha sets new standards – from the control hardware to the software architecture. With decades of experience, we are designing interfaces and features today that anticipate the needs of tomorrow's sustainable agriculture. The system addresses not just the individual machine, but the entire operation: it enables farmers to automate tasks now, maximize efficiency, save valuable time, and significantly reduce costs. From the first pass to automated documentation, everything runs seamlessly in the background – easing the operator's workload while ensuring instant transparency."

The system combines six core strengths into a seamless solution: 3D precision delivers topographically accurate path planning with up to 2.5 cm accuracy, even on slopes. Automated fieldwork ensures all operations are autonomously detected, recorded, and processed. FarmLink, the open cloud interface, connects tractors, implements, and sensors into a smart, self-learning system. Smart machine logic enables synchronized collaboration between multiple machines on the same field. Thanks to real-time connectivity, machines share positions and tasks live – without delays. And DuxAlpha is brand-independent and retrofit-compatible, from vintage tractors to the latest high-tech models. This makes DuxAlpha the platform for a new generation of digital agriculture – efficient, connected, and ready for an autonomous future.

## **The vision of DuxAlpha and Arnold NextG**

The unique DuxAlpha technology, in combination with the NX NextMotion drive-by-wire system from Arnold NextG, lays the foundation for fully autonomous operations in agriculture. While traditional guidance systems are limited to partial automation, this combination is the first worldwide to realize a system that automates the entire workflow – including road-capable, independent navigation of vehicles from farmyard to field and back again, without safety drivers, limitations, or conditions. This synergy delivers maximum efficiency, sustainability, and cost savings – driving a clear competitive advantage. Together, Arnold NextG and DuxAlpha are setting a new benchmark for the future of farming and vehicle technology.

Visit us at AGRITECHNICA 2025 – Hall 21, Booth H05.

## **About DuxAlpha:**

DuxAlpha is the first 3D path planning system to combine machine connectivity, real-time data exchange, and automated documentation into a single solution. It is brand-open, retrofittable, and intuitive to operate – ready for the next stage of digital agriculture, from manual operation to full autonomy. [www.duxalpha.com](http://www.duxalpha.com)

## **Über Arnold NextG:**

Arnold NextG pioneers tomorrow's Safety-by-Wire® technologies. Its highly redundant central control unit, NX NextMotion, enables secure and flexible implementation across any vehicle platform – globally unique in design. The system supports the safe deployment of autonomous vehicle concepts in compliance with the latest hardware, software, and safety standards. From remote control to teleoperation and platooning, Arnold NextG develops and delivers solutions from concept to road approval. With NX NextMotion now certified for road use, Arnold NextG is setting the global standard in drive-by-wire systems. [www.arnoldnextg.com](http://www.arnoldnextg.com)

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