

Revolutionising Organic Farming: World Debut of Fully Autonomous Weed Detection and Removal Implement

Toulouse, February 6th 2024 - In a historic breakthrough for the agricultural technology (agritech) sector, an innovation to redefine organic farming was unveiled to the world at World FIRA 2024. This pioneering development, a fully autonomous implement capable of detecting weeds in row, even in high-density crops, and instantly removing them mechanically, marks a major leap forward in the quest for sustainable, chemical-free weeding solutions in organic farming.

The world's first all-in-one recognition and removal module, designed to transform the face of organic farming, is a game-changer for farmers and the entire agritech industry. This groundbreaking technology can be integrated into various types of (self-driving) agricultural machinery by Original Equipment Manufacturers (OEMs) and system integrators or added to the portfolio of implement providers.

Key Features of the Odd.Bot Weeder, the Revolutionary Implement:

1. **In-Row Weed Detection:** The autonomous implement utilises cutting-edge A.I. technology to identify and precisely remove weeds within the crop rows, even in high-density plantings, without harming the intended crops.
2. **Chemical-Free Weeding:** The implement offers a sustainable alternative to chemical herbicides, promoting environmentally friendly, organic farming practices.
3. **Instant Mechanical Removal:** Weeds are completely removed instantly, ensuring they do not compete with crops for nutrients, sunlight, and resources.
4. **Versatile Integration:** OEMs and system integrators can easily implement this all-in-one detection and removal module into a wide range of (self-driving) agricultural machinery, expanding automation opportunities in the farming sector.

The AI-driven recognition module identifies weeds and their growth points shortly after sprouting. Moreover, it accurately analyses weeds, revealing information about soil pH, moisture levels, and specific mineral deficiencies. The Weeder system incorporates human expertise when the AI's confidence may fluctuate, ensuring a thorough evaluation. Weeds are destroyed with a pull or a push, depending on the size and type.

The tooling was unveiled at World FIRA 2024. Martijn Lukaart, CEO of Odd.Bot, declared, *"We stand at the threshold of a new era in organic farming, where chemical-free weeding is not just within reach but also economically viable. Our fully autonomous weeding implement and the introduction of 'Weeder' marks a monumental shift in how we approach weed management and integrate technology into agriculture."*

This innovative product was developed and perfected through a collaborative initiative with farmers participating in the Odd.Bot Trailblazer Program and Wageningen University & Research.

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This exciting development represents a significant step forward in the integration of cutting-edge technology in agriculture.

For more information about the world debut of the fully autonomous weed detection and removal implement, to schedule interviews or to attend the exclusive Weader presentation, please contact Chris Van den Heuvel via press@odd.bot

About Odd.Bot:

Odd.Bot is a leading innovator in the agricultural technology sector, dedicated to developing solutions that empower farmers and promote sustainable farming practices. The company's fully autonomous weeding robot and the reveal of 'Weader' are set to revolutionise weed management and technology integration in agriculture, paving the way for a greener, more efficient future.

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