

## **Fixposition Revolutionizes Agricultural Robotics with Vision-RTK 2, Providing Global and Precise Positioning in Challenging Environments**

Schlieren, Switzerland – January 8<sup>th</sup>, 2024 — Fixposition, a pioneer in positioning technology, introduces Vision-RTK 2, a groundbreaking solution that propels the future of autonomy for agricultural robots and autonomous machinery. In an era where robotic technology plays a pivotal role, Fixposition's Vision-RTK 2 stands out as a cost-efficient and accurate real-time global positioning system, even in GNSS-degraded areas.

Agricultural robots and autonomous machinery encounter unique challenges:

- Dynamic environment conditions (outdoor – indoor positioning)
- Areas with degraded or limited GNSS connectivity.

Fixposition addresses these challenges by providing robust and precise positioning technology, ensuring the seamless operation of autonomous equipment across diverse scenarios.

### **Vision-RTK 2: Deep Sensor Fusion Positioning Technology**

Fixposition's flagship vision-RTK technology, the [Vision-RTK 2](#), represents a fusion of Global Navigation Satellite System (GNSS), inertial measurement units (IMU), and visual odometry. This innovative combination delivers unparalleled real-time global positioning, distinguishing it from traditional systems heavily reliant on IMU for dead reckoning. The Vision-RTK 2's multidisciplinary approach enhances reliability and operational scope, even in GNSS-compromised situations.

Peter Mardaleichvili, Fixposition's Head of Product Management, emphasizes the unique advantages of their system, stating, **"Our integration of camera systems sets us apart, eliminating time-dependent drift common in other solutions, especially in GNSS-challenged environments. Our user-friendly approach accelerates market entry, showcasing our innovative edge."**

### **Ease of Integration and Deployment**

The Vision-RTK 2 is designed for quick adoption in robotic and autonomous systems, featuring a [Starter Kit](#) that includes the sensor, mounting system, Wi-Fi, and GNSS-RTK antennas. This ready-to-use package comes with comprehensive guidance and dedicated support, ensuring a swift setup time.

**"Our web interface simplifies sensor configuration and performance monitoring,"** says Mardaleichvili. **"This user-friendly aspect accelerates our clients' market entry, but the true testament of our system's capabilities is witnessing it in action."**

### **World FIRA 2024 Demonstration**

**"Our solution allows customers to concentrate on their primary business goals, sparing them the complexity of addressing positioning challenges. The wide array of use cases across various industries prepares our system for unforeseen scenarios, providing OEMs with the assurance to design in our technology faster and in a more cost-effective way."** adds Peter Mardaleichvili, Fixposition's Head of Product Management.

# FIXPOSITION

Fixposition will showcase the Vision-RTK 2 at the upcoming World FIRA 2024, scheduled from February 6-8. The demonstration will highlight the system's effectiveness in various settings, including vineyards, orchards, greenhouses, and other challenging scenarios. Prospective users can witness firsthand how Vision-RTK 2 excels in environments lacking a GNSS signal.

## **Book a Free Demo at World FIRA 2024**

Experience the Vision-RTK 2 in action by booking a free demo at the World FIRA 2024. Send an email to [sales@fixposition.com](mailto:sales@fixposition.com) to secure your slot or get in touch with our team at the event in advance to book a personal meeting:

- Lorenzo Soma: Business Development and Sales, [lourenco.soma@fixposition.com](mailto:lourenco.soma@fixposition.com)
- Facundo Garcia: Field Application Engineer, [facundo.garcia@fixposition.com](mailto:facundo.garcia@fixposition.com)
- Arnau Ochoa: GNSS Engineer, [arnau.ochoa@fixposition.com](mailto:arnau.ochoa@fixposition.com)

## **Visit Fixposition at Booth #40**

To see the precise positioning solution in action, visit **Fixposition's booth #40** at World FIRA 2024.

## **For media inquiries, please contact:**

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## **About Fixposition:**

Fixposition is a Zurich-based company that has emerged as a leader in precise positioning technology. As a spin-off from ETH Zurich, we've pioneered the development of the Vision-RTK 2, a second-generation sensor that excels in delivering unmatched accuracy, even in challenging GNSS environments. This achievement is made possible through our innovative deep fusion technology, which seamlessly integrates computer vision and satellite navigation, making it compatible with third-party correction services. For more information, visit [www.fixposition.com](http://www.fixposition.com).