

Press release - 17 janvier 2025

## **INRAE Embarks on the Global Event on Agricultural Robotics**

**INRAE will participate in the WORLD FIRA event, taking place from February 4 to 6. Over three days, attendees can explore innovations in agricultural robotics addressing agroecological challenges.**

Several highlights are offered by INRAE:

- The scientific symposium on the theme "Robots capable of adapting to humans and the environment" in partnership with the Grand Challenge for Agricultural Robotics. This event will be an opportunity to showcase scientific and technological advances enabling progress in the adaptive, robust, and interactive behaviors of agricultural robots.
- Discussion workshops around the challenges of innovative solutions and inviting the public to become familiar with or challenge themselves using simulation technologies.
- A stand hosted by the Technologies and Information Systems for Agro-systems (TSCF) research unit of the INRAE Clermont-Auvergne-Rhône-Alpes center. Participants will be welcomed to discuss new agroecological practices implemented in agricultural systems thanks to new technologies and their deployment in new agricultural equipment.
- Demonstrations in partnership with SabiAgri and Ceol will showcase advancements in robotics, from crop monitoring to defining agricultural actions, highlighting improved cooperation between robots.
- Presentations of the collaborative tool Centipede RTK by researchers from the Occitanum unit of the INRAE Occitanie-Toulouse Center. This tool is also integrated into the robots used in the previously mentioned demonstration. This technology improves collaboration and data exchange for various uses, particularly in precision agriculture (optimization of planting, yields, etc.).
- Two tutorial sessions presenting the agricultural robotics software platform developed collaboratively as part of TSCF unit partnership projects. This platform is open to partners and the general public and will support the developments of the Grand Challenge for Agricultural Robotics, led by the RobAgri association.

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INRAE, the National Research Institute for Agriculture, Food, and the Environment, is a major player in research and innovation. The institute brings together a community of over 10,000 people, including 8,000 permanent staff and more than 2,500 project-funded contractors annually. It operates over 270 research, service, and experimental units across 18 centers throughout France.

As a mission-driven research institute, INRAE ranks among the world's leading research organizations in agricultural and food sciences, plant and animal sciences, and ecology-environment. It is the first research organization globally specializing in the "agriculture-food-environment" nexus. INRAE aims to be a key player in driving the transitions necessary to address major global challenges.

In the face of population growth, food security challenges, climate change, resource scarcity, and biodiversity loss, the institute plays a pivotal role in developing solutions and supporting the acceleration of agricultural, food, and environmental transitions.