



Agriculture and Food Industry Alliance



Cognitive Agriculture





Field robot CERES with sensor box

In the Fraunhofer lighthouse project “Cognitive Agriculture” (“COGNAC” for short), eight Fraunhofer institutes conducted joint research in the area of **Smart Farming** to enable farmers in a digitalized world to achieve high productivity in harmony with other goals such as sustainability, resource efficiency, or product quality.

Using innovative automation concepts and novel sensor technology, Fraunhofer designed a data-based agricultural ecosystem – an “**Agricultural Data Space**”, which integrates different concepts of digital platforms.

Automation concepts, monitoring solutions, and cognitive services

With “COGNAC”, Fraunhofer not only designed and tested an integrated platform for information-based (cognitive) agriculture, but also developed corresponding automation concepts, monitoring solutions, and cognitive services.

The researched solutions are being further developed together with

partners. Prospective partners are still being sought for this collaboration. Feel free to contact us!

Innovation Areas

Digital Ecosystem:

- Agricultural Data Space

Biosphere Monitoring:

- Novel sensor technology

Autonomous Field Robotics:

- Innovative automation concepts

Decision Support:

- Cognitive services

For further information, please follow the QR code.

