

### PROJECTS

# **Canopy Potato**

#### **Project information**

**Coordinator:** FN3PT

Duration: 42 months (01/10/2020 to 31/03/2024)

Total Budget from the French Ministry of Agriculture

and Food - CASDAR: € 299.959,00



Pessl Instruments GmbH, Werksweg 107, 8160 Weiz, Austria Tel: +43 (0) 3172 5521 · Email: office@metos.at · www.metos.at Develop, deploy and validate a system of wireless transmission fixed sensor networks, in order to monitor the development of potato plant in real-time

## **Description of the action**

- Action N°1: Implementation and deployment of the network of fixed sensors on the experimental sites and validation of the real measurements
- Action N°2: Experimental, multi-year, and multi-site validation of dynamic monitoring of plant canopy
- Action N°3: Development of an information system for collecting, storing, and viewing data from the sensor network
- Action N°4: Optimization of the frequency of oil application based on real-time canopy monitoring
- Action N°5: General coordination, communication

PESSL will support actions 1, 3, and 5.

### The expected results are:

- Obtain a unique system integrating the various chosen sensors (ultrasound, reflectance) allowing the monitoring of plant growth in real-time
- Development of a validated phenotyping method, usable as a decision support tool to better position oil sprays
- Design of new technical recommendations
- Acquisition of more precise knowledge on the differential in plant development according to the variety, the year of cultivation, and its geographical origin
- Help users to better understand digital tools
- Obtaining a scalable database



- FN3PT (France)
- INRAE (France)
- <u>Comite Nord (France)</u>
- Comite Centre & Sud (France)
- bretagne plants (France)
- <u>PESSL (Austria)</u>