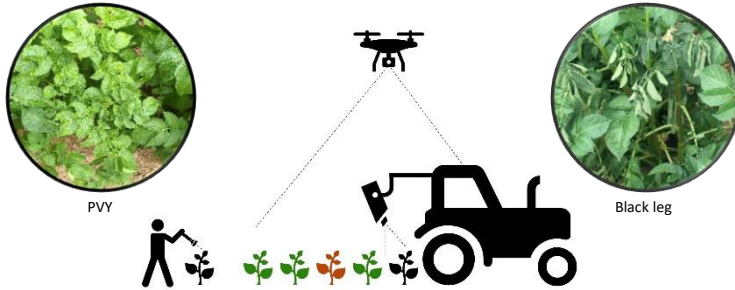




inov3PT
SEED POTATO
FOR THE FUTURE

ECOPUR

Evaluation of optical sensors to help with roguing



Abstract

The french seed potato is recognised worldwide for its high quality. According to seed potato certification, the main reasons for rejection are viral diseases (35,4%, mainly virus Y) and bacterial diseases (21%, blackleg). Fields roguing, by manual removal of plants showing symptoms, is commonly used by seed potato growers in France to manage diseases such as blackleg and viruses. It's an important and tedious job, requiring time and qualified staff, and can sometimes be difficult.

The aim of the ECOPUR project is to assess the potential value of optical sensors for supporting seed potato production in the inspection and roguing of two diseases: virus Y and blackleg, in order to make roguing work more efficient (accessibility, earliness, reliability). The results of this project should enable inspectors and seed potato growers to assess the added value provided by these assistance tools for 1/detecting the plants to be eliminated from a plot during a roguing operation, 2/mapping the overall health status of plots for the planning and management of roguing operations, and 3/diagnosing individual plants suspected of being diseased during an inspection.

Actions

Action 1 : generic support (choice of partnership strategy), setting up shared trials, sampling/marking, lab tests for plant annotation

Action 2 : development of an on-board roguing aid system for field detection of plants expressing PVY symptoms

Action 3 : testing a commercial remote sensing service

Action 4 : development of portable diagnostics using spectrometry

TECHNICAL MEMO

Project leader :



Project duration : 36 months

Start/End of project :

01/01/2025 – 31/12/2027

Partners :

- The 3 regional seed potatoes growers organisations: Bretagne Plants (BP), Comité Centre et Sud (CCS), Comité Nord (CN) and their growers
- Senseen
- Spectricon/PhotonLines/Adventiel

Provider :

- Agroscout

Financial support :



inov3PT project manager:

Alexander Kröner

Project team :

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