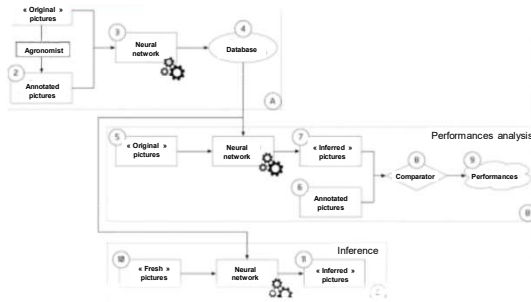


# ExpoLots

Development of a decision-making tool for inspectors when rating export batches



## Summary

The notations of the export batches are currently carried out visually on the basis of official photographic scales taking into account the rate of coverage of the surface of the tubers by superficial alterations. An artificial intelligence (AI) has already been developed to recognize these alterations but it now requires training to be the most efficient. This will make it possible to subsequently develop an on-board smartphone application with a specific shooting protocol.

The objective of this project is to develop a smartphone application that meets export certification standards and allows inspectors to use it routinely as a decision support tool for grading batches during certification by offering automatic classification of 100 tubers washed according to the levels of the official scale.

## Actions

**Preliminary action:** study on the feasibility of recognizing the symptoms of common scab and rhizoctonia on the basis of previous work and extension to wireworm damage notations, drafting of the protocols

**Action 1:** data acquisition

**Action 2:** computer annotations

**Action 3:** AI training and consolidation

**Action 4:** development of a classification application

**Action 5:** beta-test of the application on the 2024 harvest

**Action 6:** promotion and communication

## TECHNICAL MEMO

Project's holder:



**inov3PT**  
SEED POTATO  
FOR THE FUTURE

Project duration: 36 months

Beginning/End of the project:

01/01/2022 – 31/12/2024

Partners:

- The 3 regional organisations of seed potato producers: Bretagne Plants, Comité Centre et Sud, Comité Nord
- Official Control and Certification Department
- Collectors

Provider:

- Carbon Bee

Financial support:



Project managers FN3PT/inov3PT:  
Bernard Quéré, Karima Boucek

Project team:

Christophe Dargier, Yves Le Hingrat (FN3PT/inov3PT)

Producer organisations supervisors and experimentation managers