1.5 POTATO DATA PROCESSING EXCHANGE

5/7

CURRENT TRL
& TARGET TRL

+ 10%

INCREASED YIELD

- 10%

FOOD WASTE

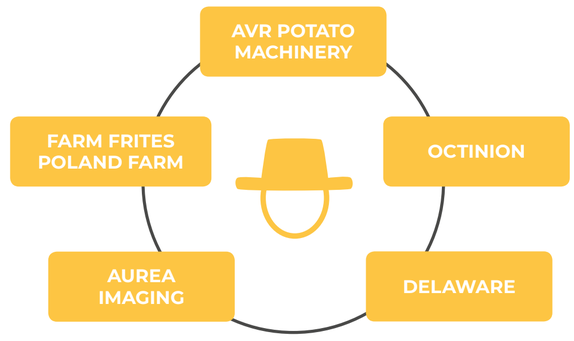
- 10%

IN FUEL CONSUMPTION

COUNTRIES

Being able to track produce back to the field regarding food security and quality, does not only support buyers and processors, it also helps farmers to identify problems and improve their yields in the following years. As an important step towards smart digital farming, this use case:

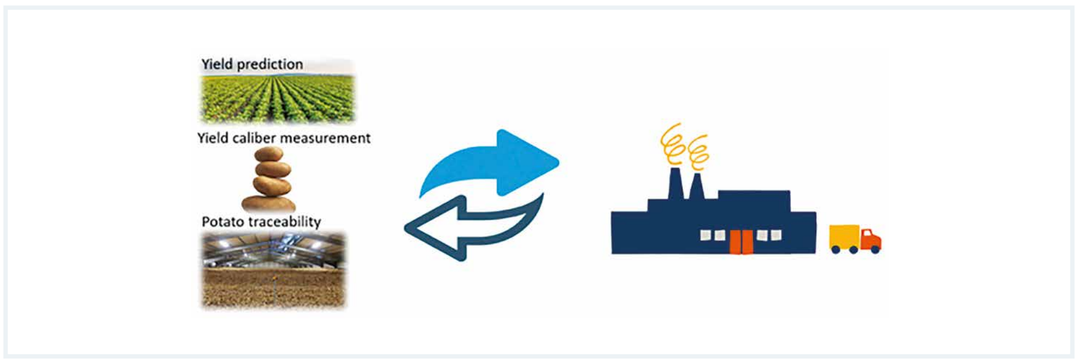
- Collects information and opens data flows between stakeholders in the supply chain;
- Measures potato crop growth, yield prediction, caliber yield measurements on the harvester and traceability data from field location to location in the shed;
- Mounts IoT devices on the harvesting machines to gather precise location-based information;
- Facilitates data exchange with the processing industry according to the current state of the art in standardisation.



In this use case farmers (Farm Frites Poland DWA) and the processing industry are present (Farm Frites Poland). AVR (potato machine manufacturer), Aurea Imaging (drone image analysis) and Octinion (caliber yield measurement) are developing the sensors and measurement principles supported by the IoT company Delaware.

PARTNERS

HOW IT WORKS



Different data points will be collected in real time on the different machines and will be analysed, stored and exchanged with other partners in this project. The IoT platforms of Aurea & AVR will be used as gateway.

THE IMPACT

OUR OBJECTIVES

- Cover three test fields in three countries: Sweden, Poland and Belgium;
- Exchange the collected data with Farm Frites Poland, as processing industry partner in this use case;
- Focus on the standardisation of this data exchange.

ECONOMIC IMPACT

- Increase in yield (+10%);
- Reduction in fuel consumption (-10%);
- Gross margin (+5%);
- Reduce costs in processing industry;
- Give fast digital access to important information.

OTHER IMPACT

- Food waste through alignment of supply and demand (-10%);
- Improve harvested potato yield;
- Give farmers more insight in data elements for business optimisation.

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