

# DEVELOPMENT OF AGROBUSINESS INNOVATION IN ALGERIA « InnovAgro »

## THE AGRITECH BUSINESS OPPORTUNITIES IN ALGERIA

### OptiLait

Mobile optical device for milk quality management.

#### IDEA N°08

TYPE OF OPPORTUNITY:  
**Technology & mobile application**

#### CHALLENGE:

Milk quality at processors is often low due to the poor quality of milk transported. This leads to economic losses, inefficiencies and a lack of transparency in the value chain.

#### IMPACT ON THE VALUE CHAIN:

**Upstream :** Improved awareness of quality among producers thanks to data accessible in real time.

**Downstream :** Reducing losses, improving the quality of dairy products and making processors more competitive.

#### SOLUTION:

Development of an optical device mounted on the suction tubes of milk collection lorries.

This system assesses milk quality in real time, provides instant data and helps stakeholders to make informed decisions.



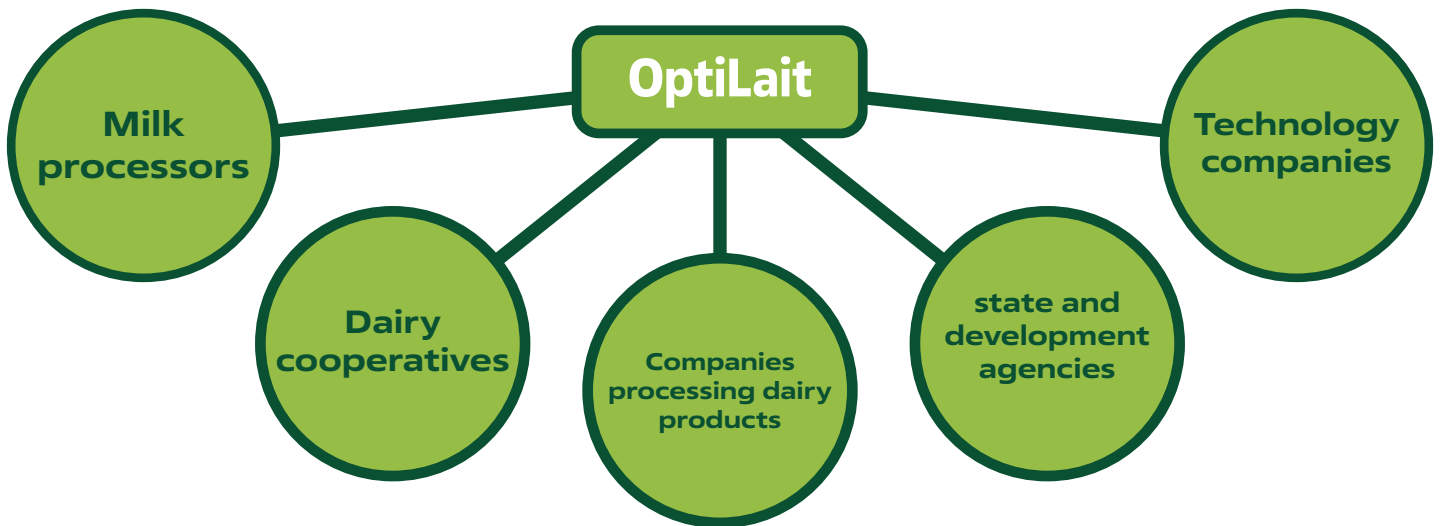
#### BENEFITS OR EXPECTED IMPACT

- **Improved quality :** Significant reduction in low-quality milk collected.
- **Increased efficiency :** Faster processes thanks to real-time analysis.
- **Reduced losses :** Less milk rejected or requiring additional processing.
- **Transparency :** improved collaboration between producers, collectors and processors.
- **Increased confidence :** Quality assurance for end consumers.

#### SOLUTION COMPONENTS

- **Optical technology:** Use of optical sensors to instantly analyse milk quality.
- **Truck-mounted installation:** The device is fitted to the suction tube of milk collection trucks.
- **User interface/mobile application:** Simple display showing milk quality in real time and remotely. Also accessible by producers to monitor current and historical quality.
- **Data analysis:** analytical tools for storing and analysing milk quality data.
- **Operator training:** Training programme for lorry drivers, milk collectors and producers on how to use the system.
- **Maintenance and support:** Regular maintenance, technical support and updating services to ensure that the device is working properly.

# WHO WILL PAY FOR THIS SERVICE OR PRODUCT ?



## SUCCESS STORIES

### Foss Analytics

The MilkoScan FT3 is an advanced milk analyser designed for real-time testing of milk composition and quality at various stages of production, including processing and incoming raw milk. It uses state-of-the-art Fourier Transform Infrared (FTIR) technology to provide accurate results for parameters such as fat, protein, lactose and many more, ensuring efficiency and quality control on dairy farms.

[CLICK HERE](#) ➔

### HT India Tech

HT India Tech's Mobile Automatic Milk Collection Unit (MAMCU) is a portable solution for automating milk collection, including weighing, analysing and recording milk quality parameters such as fat content and solids-non-fat (SNF). Designed with efficiency and transparency in mind, it simplifies operations for dairy co-operatives and farmers by integrating milk analysis, data management and payment systems.

[CLICK HERE](#) ➔



### Search for:

This paper presents a new method for the rapid detection of melamine in milk using surface-enhanced Raman spectroscopy (SERS) combined with a portable Raman instrument. This approach offers a sensitive and effective solution for ensuring milk safety by rapidly identifying melamine contamination.

[CLICK HERE](#) ➔

## PROCESS FOR REALISING THE OPPORTUNITY

### PHASE 1:

**Technological development :** Research, development and testing of optical devices to analyse milk quality.

### PHASE 2:

**Training :** Training operators in the use of the device and in good practice for collecting and processing milk.

### PHASE 3:

**Deployment :** Installation of the devices on the collection lorries.

### PHASE 4:

**Evaluation :** Monitoring and assessing the performance of the system to make adjustments.

#### COMPLEXITY



MEDIUM

#### LEVEL OF INVESTMENT NEEDED



LOW TO MEDIUM