



MINISTRY OF KNOWLEDGE
ECONOMY, STARTUPS
AND MICRO-ENTERPRISES

Implemented by:



DEVELOPMENT OF AGROBUSINESS INNOVATION IN ALGERIA « InnovAgro »

THE AGRITECH BUSINESS OPPORTUNITIES IN ALGERIA

AgriSmart

Integrative optimisation and intelligent monitoring platform for agriculture.

IDEA
N°18



TYPE OF OPPORTUNITY: **Digital platform integrating a mobile application, Internet of Things (IoT) sensors and AI models, which can integrate the necessary sub-solutions.**

*Related to other sheets

CHALLENGE:

The absence of an integrated solution that centralises the management and optimisation of technical itineraries, biochemical parameters and critical resources leads to economic losses, limited yields and inefficient farming practices. This challenge is compounded by a lack of coordination between different isolated tools and solutions.

IMPACT ON THE VALUE CHAIN:

Upstream : Reduction of agricultural losses thanks to predictive and modular analysis and real-time monitoring tools.

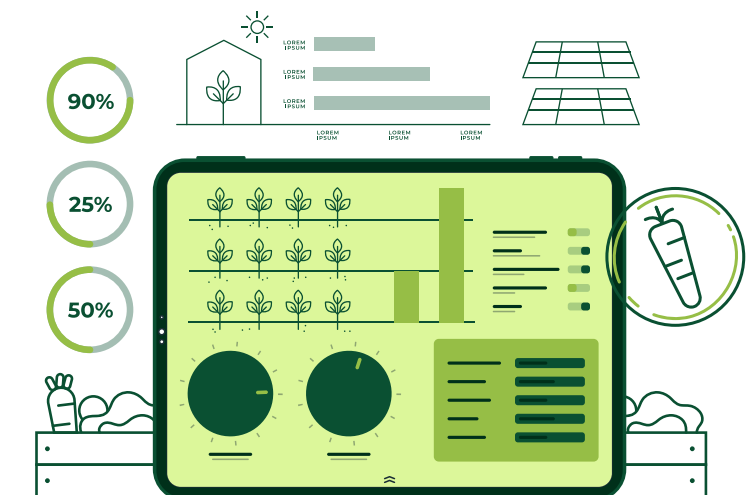
Downstream : Better quality processed products thanks to enhanced traceability and improved quality.

Systemic : Coordination and integration of existing solutions to create a more resilient and sustainable value chain.

SOLUTION:

An all-in-one platform designed for:

- **Real-time monitoring:** Integration of IoT sensors to measure weather conditions, soil quality and logistics data.
- **Optimising practices:** specific modules for storage, irrigation, fertilisation and transport.
- **Predictive analysis:** Use of machine learning algorithms to provide personalised recommendations.
- **Accessibility:** Intuitive interface accessible via mobile and web, centralising all agricultural data.
- **Modular:** Able to integrate all types of solutions that are more specific to crops and farm needs.



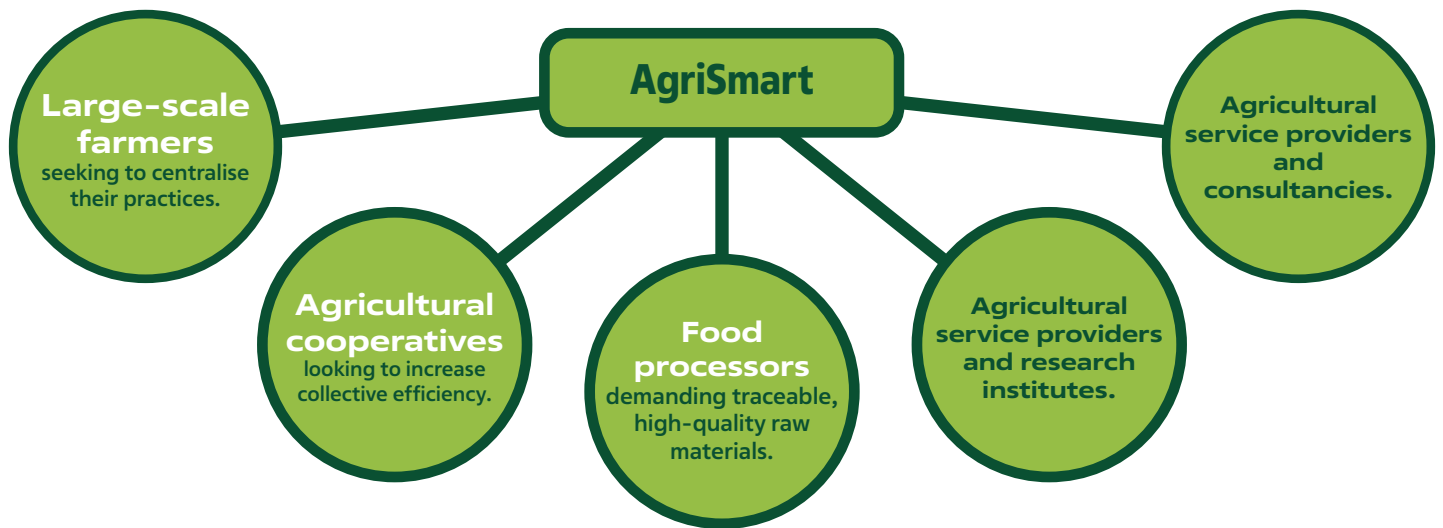
BENEFITS OR EXPECTED IMPACT

- Optimising agricultural yields and reducing losses.
- Reducing losses and increasing agricultural yields.
- Improved coordination of farming practices with enhanced traceability.
- Energy efficiency through automation and optimisation solutions.
- Flexibility and modularity to adapt to specific crops or sub-solutions such as storage and fertilisation.

SOLUTION COMPONENTS

- Next-generation IoT sensors for soil, climate and stocks.
- Machine learning models to predict and optimise interventions.
- Cloud platform with modular modules for specific needs (irrigation, transport, etc.).
- On-site installation, suitable for farms and processing stations.
- Real-time alert and management system with customisable dashboards.
- AI models for predictive analysis and proactive recommendations.

WHO WILL PAY FOR THIS SERVICE OR PRODUCT ?



SUCCESS STORIES

Arable Mark

A set of IoT sensors and mobile applications that collect real-time environmental data to optimise farming practices, improving input and resource management.

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CropX

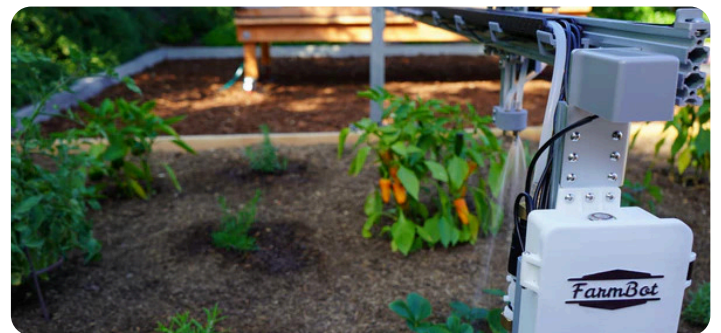
CropX provides predictive analysis solutions for agriculture, based on connected soil sensors and artificial intelligence platforms. These tools enable farmers to optimise irrigation, fertilisation and crop management. CropX's ability to transform complex data into concrete recommendations fits perfectly with the idea of developing intelligent solutions to improve agricultural productivity.

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FarmBeats

A platform that uses AI and IoT sensors to monitor crop health and provide specific recommendations based on the data collected.

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FarmBot

FarmBot offers an open-source robotic system for automated crop management, from planting to watering and data collection. The system integrates IoT sensors to monitor soil moisture, temperature and other environmental parameters, while providing crop recommendations via a digital interface. This technology is perfectly aligned with the idea of optimising agricultural processes through intelligent tools.

Crédit photo : farm.bot

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PROCESS FOR REALISING THE OPPORTUNITY

PHASE 1:

Preliminary studies :
Analysis of farmers' needs.

PHASE 2:

Prototyping and testing : Development on pilot plots.

PHASE 3:

Deployment : User training and module integration.

PHASE 4:

Monitoring and optimisation : Analysis of user feedback to improve the platform.

COMPLEXITY



LEVEL OF INVESTMENT NEEDED



Here are some opportunities that you might be interested in related to yours – Scan QR code

integrated into
20

Linked in chain
29

complementary goals
15