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DEUTSCHE ZUSAMMENARBEIT



MINISTRY OF KNOWLEDGE
ECONOMY, STARTUPS
AND MICRO-ENTERPRISES

Implemented by:



Deutsche Gesellschaft
für Internationale
Zusammenarbeit (GIZ) GmbH

DEVELOPMENT OF AGROBUSINESS INNOVATION IN ALGERIA « InnovAgro »

THE AGRITECH BUSINESS OPPORTUNITIES IN ALGERIA

AgriFertiTech

Intelligent platform for optimising agricultural fertilisation programmes.

IDEA
N°20



TYPE OF OPPORTUNITY:

Internet of Things (IoT) technology, Artificial Intelligence and Big Data.

*Related to other sheets

CHALLENGE:

Farmers lack accurate and accessible data on the actual fertiliser requirements of their crops. This leads to over- or under-use of fertilisers, causing economic inefficiencies, lower yields and negative environmental impacts, including soil and water pollution.

IMPACT ON THE VALUE CHAIN:

Upstream : Reduced costs for farmers through optimised input management.

Downstream : Improving agricultural yields, reducing environmental impact and adding value to agricultural products through precise, sustainable fertilisation.

SOLUTION:

Web platform and mobile application for fertilisation based on crop rotation techniques and AI including predictive analysis (analytics) using historical data and real-time data to personalise recommendations.



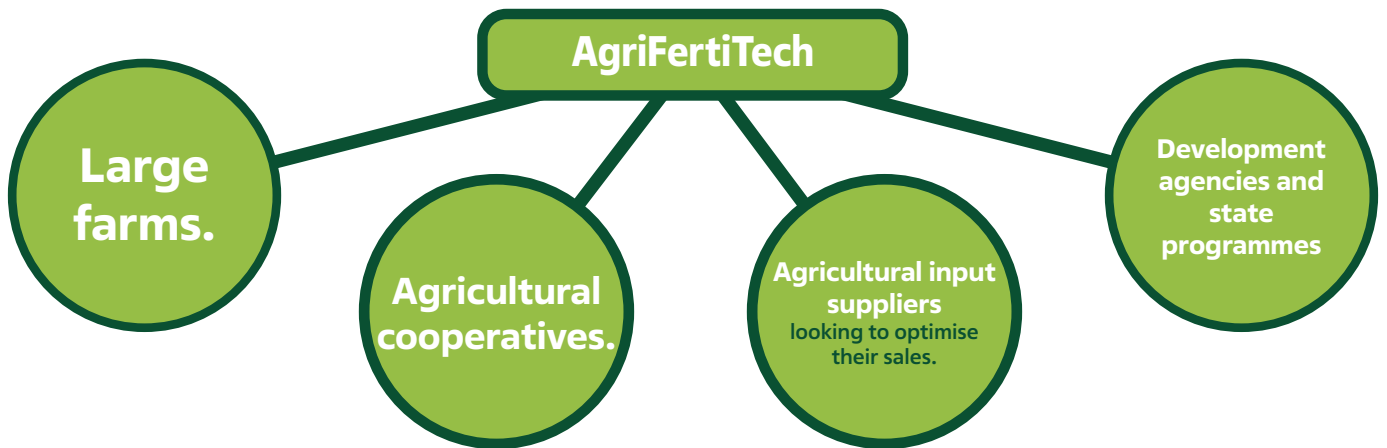
BENEFITS OR EXPECTED IMPACT

- **Cost optimisation:** Reduce excessive use of fertilisers and unnecessary expenditure.
- **Improved yields:** Precise fertilisation adapted to crop needs.
- **Sustainability:** Reducing environmental impact through soil-friendly farming practices.
- **Accessibility:** Simple, intuitive tool, suitable for farmers of all levels

SOLUTION COMPONENTS

- **IoT sensors:** Collecting precise data on soil characteristics.
- **Artificial intelligence algorithms:** analysis and personalised recommendations.
- **Digital interface:** Mobile or web application to display recommendations in real time.
- **Monitoring system:** Historical data to adjust practices over the long term.
- **Technical support:** Assistance with installation and training in the use of the platform.

WHO WILL PAY FOR THIS SERVICE OR PRODUCT ?



EXEMPLES RÉUSSIS

AgroCares

offers a mobile soil analysis solution, a real-time soil nutrient monitoring platform and specific recommendations.

[CLICK HERE](#) 

Farmers Edge

Sensor and AI-based platform to provide personalised irrigation and fertilisation recommendations on.

[CLICK HERE](#) 

CropX

Description : Soil management system with IoT sensors and real-time analysis to optimise the use of agricultural inputs.

[CLICK HERE](#) 

Agrivi

Farm management platform offering recommendations for optimising cultivation practices, including fertilisation.

[CLICK HERE](#) 



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PROCESS FOR REALISING THE OPPORTUNITY

PHASE 1:

Research and Development :
Creation and testing of sensor prototypes and algorithms.

PHASE 2:

Pilot deployment :
Test on several farms

PHASE 3:

Training : End-user training for effective adoption.

PHASE 4:

Evaluation and Expansion : Performance monitoring and large-scale deployment

COMPLEXITY



LEVEL OF INVESTMENT NEEDED



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

Combined with
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integrated into
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Linked in chain
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