

DEVELOPMENT OF AGROBUSINESS INNOVATION IN ALGERIA « InnovAgro »

THE AGRITECH BUSINESS OPPORTUNITIES IN ALGERIA

Smart Farm IoT

Intelligent livestock modules for modernising existing facilities

IDEA N°03



TYPE OF OPPORTUNITY:

Modular technology - Adaptable IoT sensors

*Related to other sheets

CHALLENGE:

Farmers with existing infrastructures lack modern tools to monitor and optimise their systems, leading to poor environmental management and losses due to undetected diseases or abnormalities.

IMPACT ON THE VALUE CHAIN:

Upstream : Optimisation of existing livestock to reduce costs and losses.

Downstream : Better quality and productivity for marketing products, which also has a positive impact on prices.

SOLUTION:

Adaptable IoT modules including environmental and acoustic sensors to modernise existing installations :

- Monitoring vital parameters: temperature, humidity, air quality (CO₂).
- Acoustic sensors to detect abnormal sounds (distress, illness).
- Connected dashboards for centralised management and automated alerts.



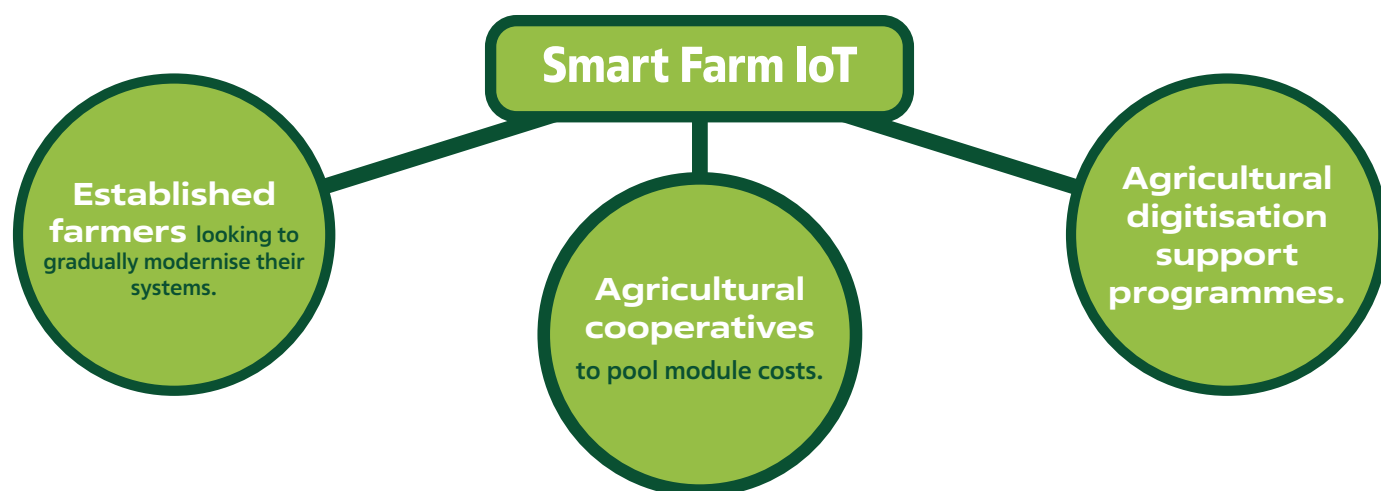
BENEFITS OR EXPECTED IMPACT

- Gradual modernisation of existing facilities.
- Early detection of anomalies thanks to automated sound analysis.
- Flexibility: modules that can be adapted to meet the specific needs of farmers.
- Improved productivity and reduced loss-related costs.

SOLUTION COMPONENTS

- IoT sensors adaptable to existing breeding systems.
- Acoustic technology to monitor sounds that indicate problems.
- Mobile application for real-time monitoring and management of parameters.
- Training farmers to install and use the modules.
- Customer service, before and after the purchase as well as for installation.

WHO WILL PAY FOR THIS SERVICE OR PRODUCT ?



SUCCESS STORIES

ChickenBoy

A ceiling-mounted robot that continuously monitors poultry house conditions, including air quality, temperature, humidity and sound, to improve animal welfare and productivity on poultry farms.

[CLICK HERE](#)

SmartCoop

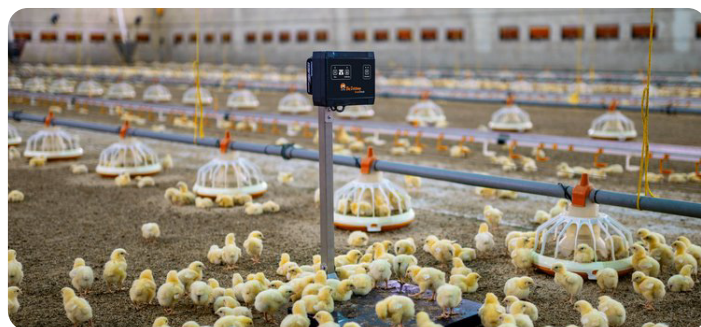
A poultry house automation system offering intelligent modules to control lighting, ventilation and other parameters, accessible via a mobile app for hobby farmers and small-scale producers.

[CLICK HERE](#)

ChickenSense

A deep learning-based solution for monitoring poultry feed consumption using acoustic sensors.

[CLICK HERE](#)



Crédit photo : cdn.bigdutchman.com

Aranet

Provides wireless IoT monitoring solutions for agriculture, including environmental sensors to monitor critical parameters in greenhouses and on farms.

[CLICK HERE](#)

PROCESS FOR REALISING THE OPPORTUNITY

PHASE 1:

Module development : design of compatible, easy-to-install sensors.

PHASE 2:

Tests in real-life conditions & POC : Installation in pilot farms.

PHASE 3:

User training : Onboarding on the use of dashboards.

PHASE 4:

Commercial roll-out : Progressive distribution with technical support.

COMPLEXITY



LEVEL OF INVESTMENT NEEDED



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

integrated into

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