

DEVELOPMENT OF AGROBUSINESS INNOVATION IN ALGERIA « InnovAgro »

THE AGRITECH BUSINESS OPPORTUNITIES IN ALGERIA

SmartMove Agro

Mobile refrigerated containers for optimised transport of agricultural products.

IDEA
N°06



TYPE OF OPPORTUNITY:

Connected logistics and refrigeration technology.

*Related to other sheets

CHALLENGE:

During the transport of agricultural and agri-food products, significant losses occur due to the inability to monitor and control storage conditions, such as temperature and humidity, in real time. Unforeseen variations during the journey, caused by delays, weather conditions or technical breakdowns, compromise the quality of perishable goods. What's more, the absence of real-time data limits carriers' ability to intervene quickly to prevent spoilage.

IMPACT ON THE VALUE CHAIN:

Upstream : Better transport of fresh produce from the field to markets/processors.

Downstream : Reduction in quality losses during transport, increase in added value due to improved quality arriving at the next link.

SOLUTION: Development of intelligent mobile refrigerated storage facilities integrating :

- IoT sensors for real-time monitoring of temperature, humidity and vibration.
- Automatic alerts in the event of parameter deviations to ensure product freshness and adaptation of parameters in "auto-pilot" mode.
- Connected software for tracking and tracing products during transport.
- Container with photovoltaic panels for greater autonomy and lower costs.

BENEFITS

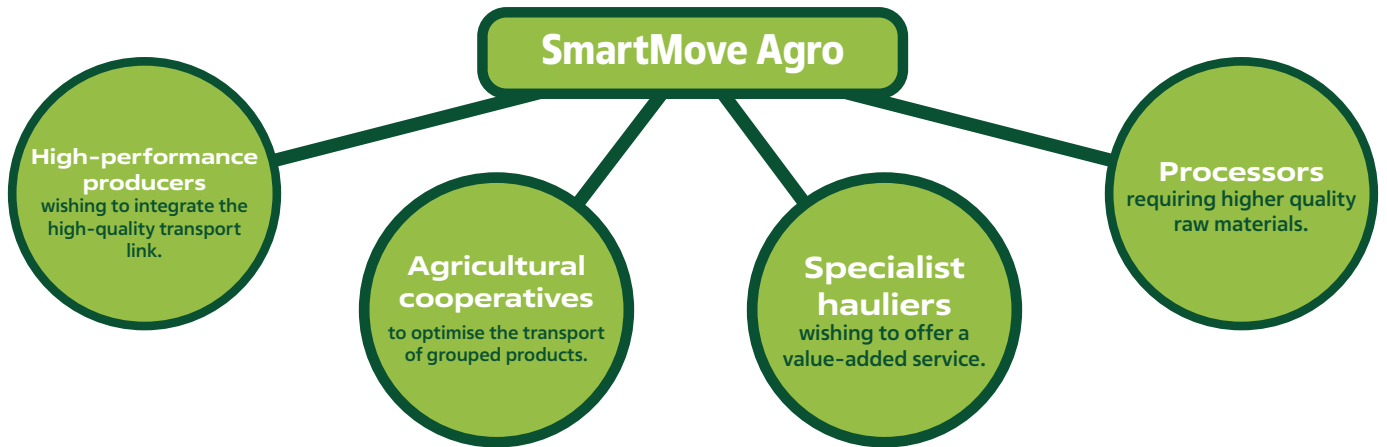
- Reduced losses during transport thanks to real-time remote monitoring.
- Better quality products delivered to processors and markets.
- Optimised journeys thanks to intelligent, integrated tracking.
- Energy self-sufficient operation using renewable energy.



SOLUTION COMPONENTS

- Mobile refrigerated containers for temperature-controlled transport, powered by photovoltaic systems.
- Connected sensors for monitoring internal and external conditions.
- Real-time alert system via mobile application.
- Traceability management to ensure products are tracked to their destination.

WHO WILL PAY FOR THIS SERVICE OR PRODUCT ?



SUCCESS STORIES

Thermo King

Mobile refrigeration solutions for the agricultural sector.

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Wiliot's Cold Chain Monitoring Solution

Cold chain tracking, even in small containers or packaging, can benefit from technologies such as Bluetooth tags and beacons. Today, prices for tracking devices are measured in cents rather than dollars, and the bar is being raised. Wiliot's IoT Pixels, small computing devices without batteries, use Bluetooth Low Energy technology. They are cost-effective and harvest energy from ambient radio waves. These IoT Pixels monitor the contents of shipping containers, products and even vaccine vials to ensure optimum temperature and efficiency. This efficient technology ensures uninterrupted visibility, minimises disruption and reduces overall operational costs.

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Disrupt-X

Disrupt-X's Mobile Cold Storage Solution offers a mobile cold storage solution that integrates IoT technologies to monitor temperature conditions in real time, ensuring the integrity of sensitive goods during transport.

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PROCESS FOR REALISING THE OPPORTUNITY

PHASE 1:

Study of logistics requirements to define technical specifications & mapping of trajectories and tracking and environmental management requirements.

PHASE 2:

Development of mobile warehouses with IoT integration.

PHASE 3:

Test phase with agricultural and transport companies followed by the POC.

PHASE 4:

Large-scale **roll-out** and promotion to logistics players.

COMPLEXITY



LEVEL OF INVESTMENT NEEDED



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

Combined with

05

Linked in chain

05