

# DEVELOPMENT OF AGROBUSINESS INNOVATION IN ALGERIA « InnovAgro »

## THE AGRITECH BUSINESS OPPORTUNITIES IN ALGERIA

### SmartStock Agro

Intelligent refrigerated warehouses to optimise post-harvest storage.

IDEA  
N°04



TYPE OF OPPORTUNITY:

**Physical infrastructure & Internet of Things (IoT) technology**

\*Related to other sheets

#### CHALLENGE:

Producers and players in the agri-food value chain are faced with major losses of fresh produce, due not only to a lack of adequate storage facilities, but also to a lack of effective management of preservation conditions. The lack of real-time monitoring and adjustment of parameters such as temperature, humidity and ventilation exacerbate these losses, impacting on product quality and market value.

#### IMPACT ON THE VALUE CHAIN:

**Upstream :** Reduction of post-harvest losses thanks to optimised conditions, autonomous monitoring and automatic/remote modification of conditions.

**Downstream :** Improved product quality for processing and marketing.

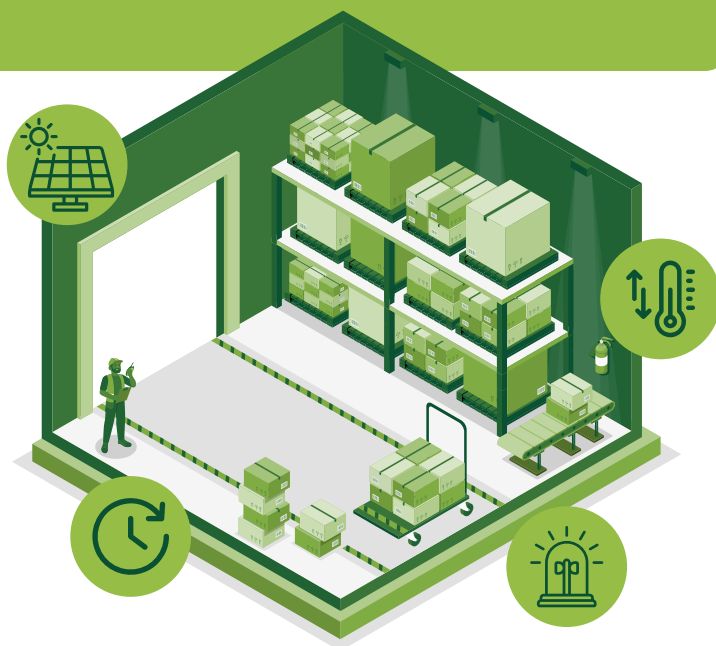
#### SOLUTION:

**Refrigerated warehouses equipped with intelligent IoT technologies enabling :**

- Automated temperature and humidity control.
- Real-time remote stock management with alerts on critical conditions.
- The integration of sensors to monitor storage time and product freshness.
- Autonomous energy operation via solar modules.

#### BENEFITS OR EXPECTED IMPACT

- Significant reduction in post-harvest losses.
- Improved product quality and shelf life.
- Easier access to specialist markets thanks to better preserved products.
- Optimising energy costs through automation and solar power.



#### SOLUTION COMPONENTS

- Intelligent refrigeration system with automatic parameter adjustment.
- IoT sensors to monitor temperature, humidity and emitted gases (e.g. ethylene).
- Connected stock management dashboard to keep track of products in stock.
- Alerts and notifications to prevent malfunctions.
- Optional renewable energy to minimise energy costs.

# WHO WILL PAY FOR THIS SERVICE OR PRODUCT ?



## SUCCESS STORIES

### Agri-Stor

Offers refrigeration, ventilation and humidification solutions for post-harvest storage, including intelligent refrigeration controllers for automated, resource-efficient management.

[CLICK HERE](#)

### DATOMS IoT Solutions

DATOMS develops IoT solutions for cold stores, enabling real-time monitoring of critical parameters such as temperature and humidity, to reduce post-harvest losses and improve energy efficiency.

[CLICK HERE](#)

### Ecozen

Intelligent solar warehouses to reduce agricultural losses.

[CLICK HERE](#)



*Credit photo : www.ecozensolutions.com*

## PROCESS FOR REALISING THE OPPORTUNITY

### PHASE 1:

**Warehouse design :** Prototyping with integration of IoT technologies and refrigerated systems **and differentiation between specific or generic/general warehouses.**

### PHASE 2:

**Pilot roll-out & POC :** Tests with farms and/or processors.

### PHASE 3:

**User training :** Support for optimal warehouse management.

### PHASE 4:

**Scale-up :** déploiement élargi et promotion des infrastructures auprès des producteurs.

### COMPLEXITY



### LEVEL OF INVESTMENT NEEDED



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

Combined with

05