

DEVELOPMENT OF AGROBUSINESS INNOVATION IN ALGERIA « InnovAgro »

THE AGRITECH BUSINESS OPPORTUNITIES IN ALGERIA

AgriDistill

Intelligent, modular unit for distilling and adding value to agricultural products.

IDEA
N°24

TYPE OF OPPORTUNITY: **Internet of Things (IoT) technology, automation and recovery of agricultural waste.**

*Related to other sheets

CHALLENGE:

The lack of specific, modern solutions for transforming products such as apples and other fruits into medicinal alcohol or other derivatives is leading to significant economic losses. Current processes lack efficiency, traceability and sustainability, particularly in terms of agricultural waste management.

IMPACT ON THE VALUE CHAIN:

Upstream : Making the most of surpluses and second-quality products, limiting post-harvest losses.

Downstream : Creation of high added-value products that comply with pharmaceutical or cosmetic standards, facilitating access to specialised markets.

SOLUTION: Development of a specific processing unit for :

- **Distillation** : Production of pharmaceutical-grade medicinal alcohol.
- **Recovering agricultural waste** : transforming residues into secondary products (biogas, compost, etc.).
- **Integrated IoT** : real-time monitoring of critical parameters (temperature, humidity, fermentation).
- **Traceability** : secure QR codes to guarantee product compliance with international standards.

BENEFITS OR EXPECTED IMPACT

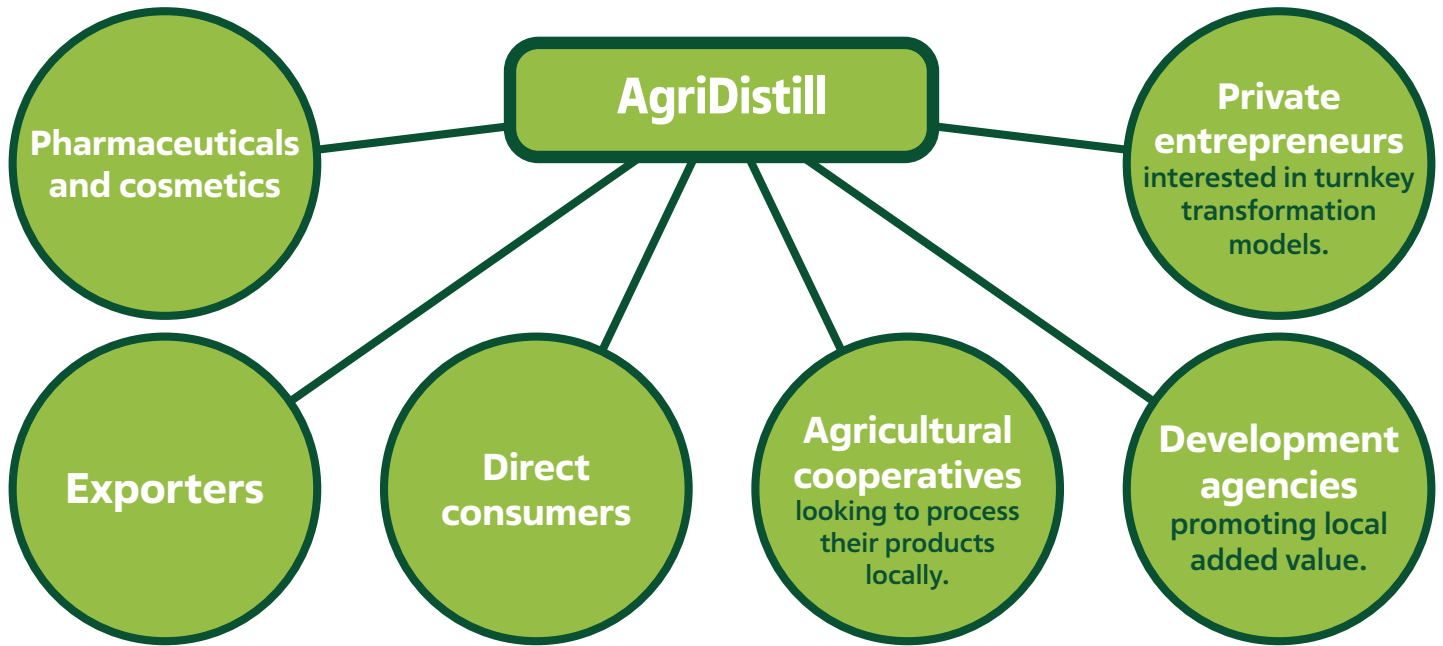
- **Increased efficiency** : Reduced losses and optimised yields thanks to automation.
- **Superior quality** : Processed products that meet the standards of demanding markets.
- **Enhanced traceability** : Tracking every stage of the transformation process using IoT sensors and secure QR codes.
- **Adaptability** : Modular solution adapted to different types of agricultural products.
- **Sustainability** : Optimum use of agricultural waste.

SOLUTION COMPONENTS

- **Distillation module**: For transforming fruit into alcohol or other by-products.
- **IoT for monitoring**: Sensors (CO₂, temperature, etc.) to monitor critical stages.
- **Waste recovery**: machines to convert waste into energy or compost.
- **Traceability tools**: QR codes and batch tracking.
- **E-commerce system**: Interface to facilitate the sale of processed products.



WHO WILL PAY FOR THIS SERVICE OR PRODUCT ?



SUCCESS STORIES

Key Technology

Offers state-of-the-art sorting and processing systems with automation and real-time analysis solutions to maximise quality and yield in the processing of agricultural products.

[CLICK HERE](#) ➔

Sortex by Bühler

Advanced optical sorting systems for efficient processing in compliance with international standards, adapted to various agricultural products.

[CLICK HERE](#) ➔

Tetra Pak® Processing

Offers connected processing units to efficiently produce processed food and beverages.

[CLICK HERE](#) ➔

Tomra Food

Provides automated sorting and processing solutions for the food industry, with integrated IoT technologies and traceability software.

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PROCESS FOR REALISING THE OPPORTUNITY

PHASE 1:

Feasibility study : analysis of the specific needs of the sector, identification of high-potential products and choice of appropriate technologies.

PHASE 2:

Development and installation : Setting up the processing unit with integration of the IoT systems.

PHASE 3:

Training : Raising awareness and training users in the use and maintenance of equipment.

PHASE 4:

Pilot roll-out : Launch of the unit in a pilot region to assess its impact.

PHASE 5:

Extension : Replication of the solution to other regions and agricultural products.

COMPLEXITY



LEVEL OF INVESTMENT NEEDED



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

Linked in chain

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