

# DEVELOPMENT OF AGROBUSINESS INNOVATION IN ALGERIA « InnovAgro »

## THE AGRITECH BUSINESS OPPORTUNITIES IN ALGERIA

### AquaDesal+

Intelligent modules for water desalination

IDEA  
N°25



TYPE OF OPPORTUNITY:

**Internet of Things (IoT) technology and renewable energy**

\*Related to other sheets

### CHALLENGE:

Water desalination remains a costly and energy-intensive solution, often inaccessible to small farms. The lack of intelligent systems limits the optimisation of available resources and increases the environmental impact of fossil fuel consumption. The salinity of farmland poses problems for yields and the sustainability of farms.

### IMPACT ON THE VALUE CHAIN:

**Upstream** : Increased availability of water for agricultural activities on the farms themselves and reduced costs.

**Downstream** : Better water management for sustainable agricultural production that is resilient in the face of shortages.

### SOLUTION:

Development and construction of compact, mobile desalination units/systems equipped with IoT technologies to monitor and optimise production parameters in real time.

These systems use renewable energies (solar, wind), are small, compact and mobile, and include predictive analysis solutions to minimise operating costs.

### BENEFITS OR EXPECTED IMPACT

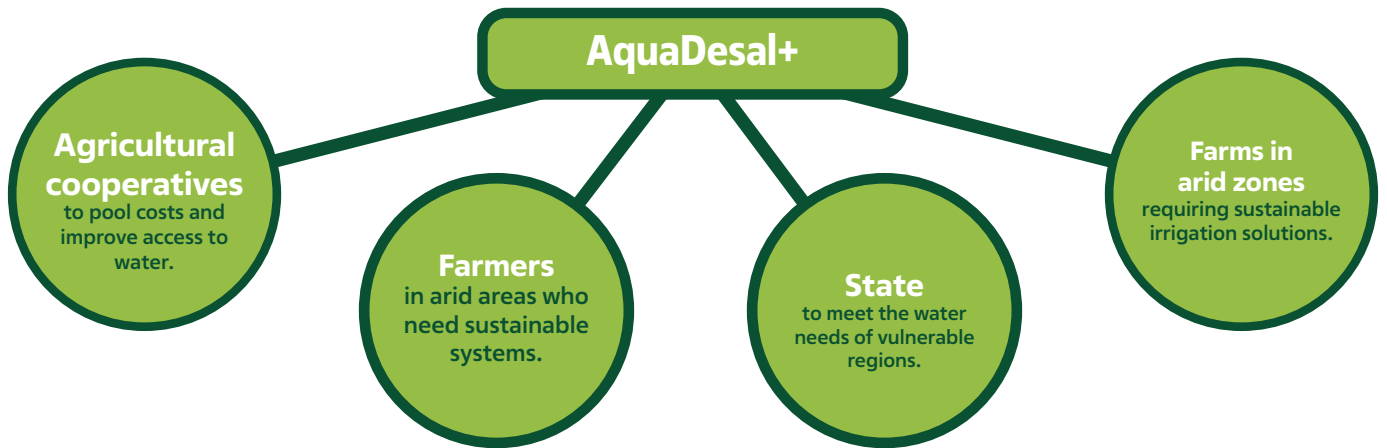
- **Cost reduction** : optimising energy and resources through intelligent systems.
- **Greater accessibility** : Desalination adapted to small farms.
- **Sustainability** : Use of renewable energy to reduce environmental impact.
- **Proactive management** : forecasting requirements and optimising production cycles.
- **Mobility** : small, mobile and compact units, making them easy to use on the farm or to share between farms.



### SOLUTION COMPONENTS

- **IoT sensors** : Real-time monitoring of desalination parameters (temperature, pressure, flow rate).
- **Renewable energy** : Integration of solar panels or wind turbines to power the systems.
- **Analysis software** : Management and analysis tool for optimising performance.
- **Modular systems** : adaptable to the needs of different farm sizes.

# WHO WILL PAY FOR THIS SERVICE OR PRODUCT ?



## SUCCESS STORIES

### Aquatech

Aquatech is a world leader in water treatment solutions, specialising in desalination, wastewater recycling and purification technologies. With a focus on sustainability and innovation, their advanced systems optimise the use of water resources to meet industrial, municipal and agricultural needs.

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### Solar Water Solution

offers innovative desalination systems powered entirely by solar energy, eliminating the need for electricity or fossil fuels. Their patented technology enables low-cost, sustainable production of drinking water, particularly suited to remote regions and farming communities with limited access to fresh water.

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## PROCESS FOR REALISING THE OPPORTUNITY

### PHASE 1:

**Feasibility study :** Analysis of regional needs and available infrastructure.

### PHASE 2:

**Development and testing :** Creation of prototypes and performance validation.

### PHASE 3:

**Pilot deployment :** Installation in targeted areas to assess effectiveness.

### PHASE 4:

**Training and extension :** Raising awareness among users 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

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26

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26