

DEVELOPMENT OF AGROBUSINESS INNOVATION IN ALGERIA « InnovAgro »

THE AGRITECH BUSINESS OPPORTUNITIES IN ALGERIA

AquaCycle

Compact wastewater recycling plant.

IDEA
N°26



TYPE OF OPPORTUNITY:

Compact, mobile water treatment and recycling technology.

*Related to other sheets

CHALLENGE:

Increasing water stress, exacerbated by climate change and inefficient management of water resources, is limiting access to water for irrigation and other agricultural uses. Currently, agricultural and domestic wastewater is often discharged without adequate treatment, resulting in economic losses and environmental impacts.

IMPACT ON THE VALUE CHAIN:

Upstream : Reducing the need for drinking water for irrigation by recycling wastewater at farm level.

Downstream : Improved agricultural yields and reduced water purchase costs.

SOLUTION:

Development and deployment of compact, modular plants capable of recycling wastewater for on-site agricultural use.

These plants use innovative technologies such as biofilms, reverse osmosis or advanced membrane processes to transform wastewater into reusable water.

The compact, mobile plant is equipped with IoT sensors to monitor the quality of the treated water in real time and optimise the process.

BENEFITS OR EXPECTED IMPACT

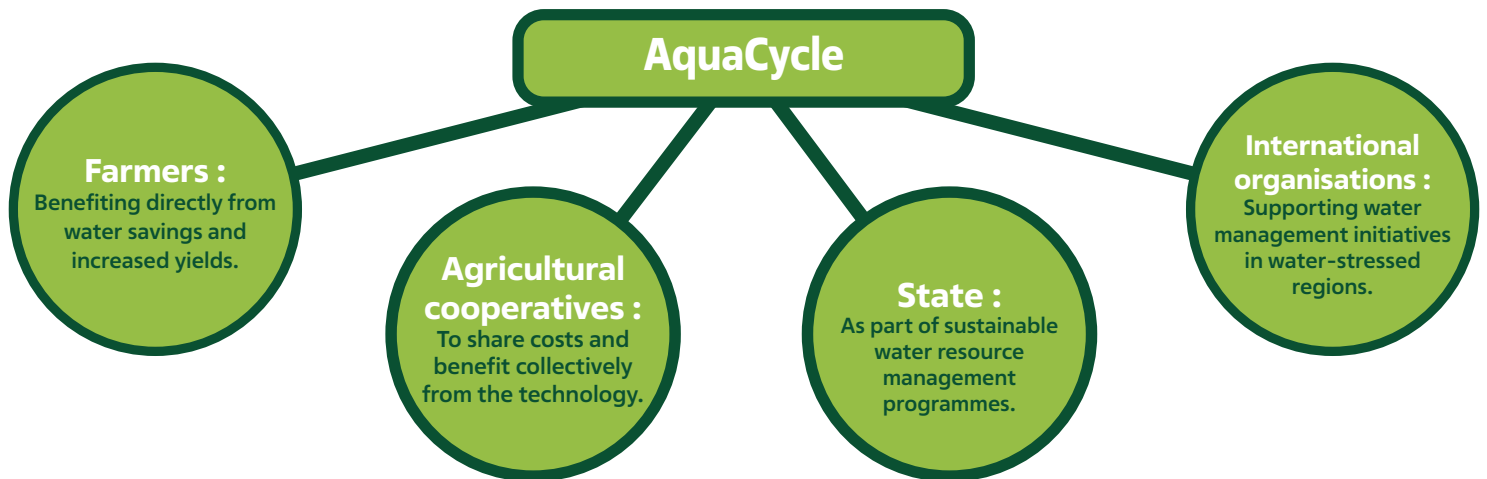
- **Efficiency :** Reduced dependence on drinking water resources for irrigation.
- **Savings :** Reduced irrigation costs for farmers.
- **Sustainability :** Limiting pollutant discharges and optimising water resources.
- **Adaptability :** Technology adapted to farms of different sizes
- **Mobile :** Small, mobile and compact units, making it easy to use on the farm or to share between farms.



SOLUTION COMPONENTS

- **Modular technology :** compact treatment systems using biofilms, membranes or reverse osmosis.
- **IoT monitoring :** Sensors to analyse water quality in real time.
- **User-friendly interface :** Mobile application or dashboard for monitoring station operation and receiving alerts.
- **Simplified maintenance :** designed for quick, low-cost maintenance operations
- **Mobility :** Stations can be moved and shared easily.

WHO WILL PAY FOR THIS SERVICE OR PRODUCT ?



SUCCESS STORIES

Organica Water

offers modular and compact solutions for wastewater treatment and reuse, combining biological filtration and IoT technology for sustainable agricultural applications.

[CLICK HERE](#) 

BioGill

offers innovative modular wastewater treatment units that use biofilms to effectively degrade organic matter. Simple to install and environmentally friendly, these systems are designed to improve the quality of treated water while reducing operating and energy costs.

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PROCESS FOR REALISING THE OPPORTUNITY

PHASE 1:

Feasibility study : Analysis of water requirements and types of water waste in the target regions.

PHASE 2:

Technological development : Design of compact stations and testing of prototypes.

PHASE 3:

Pilot deployment : Installation in agricultural areas and on several different farms to validate effectiveness.

PHASE 4:

Extension : Large-scale roll-out based on pilot results

COMPLEXITY



LEVEL OF INVESTMENT NEEDED



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