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DEUTSCHE ZUSAMMENARBEIT

MINISTRY OF KNOWLEDGE ECONOMY, STARTUPS AND MICRO-ENTERPRISES

Implemented by:

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DEVELOPMENT OF AGROBUSINESS INNOVATION IN ALGERIA « InnovAgro »

THE AGRITECH BUSINESS OPPORTUNITIES IN ALGERIA

SmartWasteUp
Intelligent solution for waste monitoring and recovery

IDEA N°23

TYPE OF OPPORTUNITY:
Internet of Things (IoT) technology & digital management platform
*Related to other sheets

CHALLENGE:

Inefficient management of agricultural and agri-food waste results in economic losses and negative environmental impacts. In addition, the lack of real-time monitoring systems limits coordination between waste producers and recovery operators.

IMPACT ON THE VALUE CHAIN:

Upstream : Improving waste management at source and reducing environmental impact.

Downstream : Creating new economic opportunities by recovering waste through recycling and upcycling.

SOLUTION:

Development of a digital platform and integrated IoT system to :

• Monitor the production and movement of agricultural waste in real time.

• Put waste producers in touch with companies specialising in recycling or upcycling via an intelligent matchmaking system.

• Offer data analysis to optimise waste management and identify new recovery opportunities.
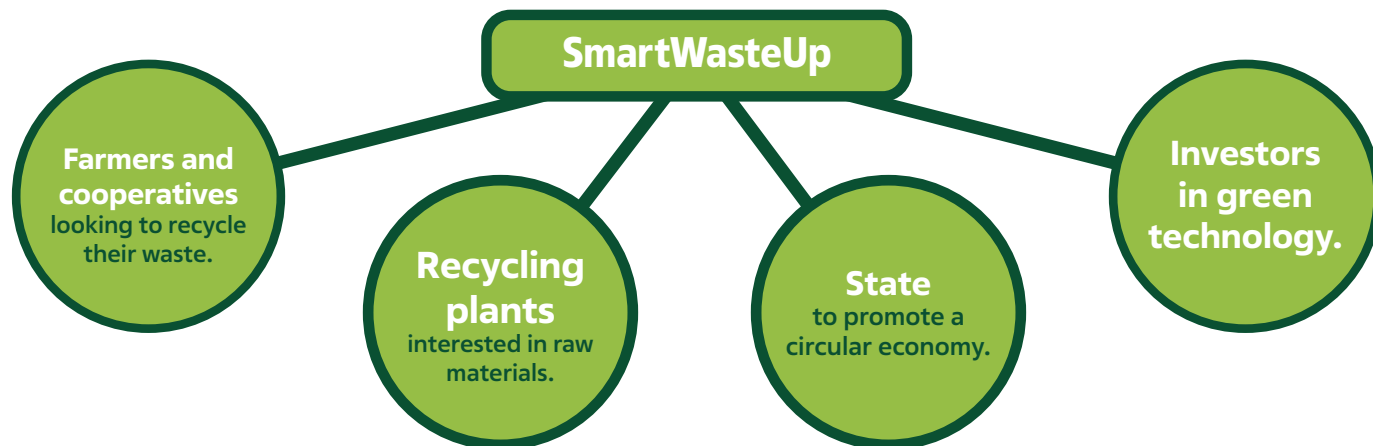
BENEFITS OR EXPECTED IMPACT

• **Monitoring and transparency:** A real-time tracking system to guarantee optimised management.

• **Circular economy:** Facilitating exchanges between waste producers and upcyclers to maximise re-use.

• **Reduced costs:** lower waste management costs thanks to optimised logistics.

• **Environmental impact:** Reducing the negative impact of waste on the environment.

SOLUTION COMPONENTS

• **IoT sensors:** Measure and track waste flows in real time.

• **Matchmaking platform:** connects waste producers with recycling and upcycling companies.

• **Data analysis:** Identify opportunities for optimisation and added value.

• **User support:** Training and support for farmers and businesses in integrating the solution.

WHO WILL PAY FOR THIS SERVICE OR PRODUCT ?

SmartWasteUp

- **Farmers and cooperatives** looking to recycle their waste.
- **Recycling plants** interested in raw materials.
- **State** to promote a circular economy.
- **Investors in green technology.**

SUCCESS STORIES

Scrapo
is an online platform dedicated to bringing together buyers and sellers of recyclable materials. It facilitates the circular economy by enabling companies to find economical and sustainable solutions for their recyclable waste, while reducing environmental impacts.

CLICK HERE 👆

WasteHero
offers IoT solutions and a real-time waste management platform. It helps companies and municipalities optimise collection logistics, reduce costs and minimise environmental impact through accurate data analysis and connected sensors.

CLICK HERE 👆

Rubicon
is a company specialising in digital solutions for waste management and recycling. It offers a connected platform for optimising waste flows, reducing management costs and promoting sustainable practices in businesses and local authorities.

CLICK HERE 👆

The Access Group
offers commercial waste management software that helps businesses track, plan and optimise their waste management operations. By integrating digital tools and advanced analytics, it reduces costs, improves efficiency and promotes environmentally friendly practices.

CLICK HERE 👆

PROCESS FOR REALISING THE OPPORTUNITY

PHASE 1:
Technological development: Creation of the digital platform and integration of IoT sensors.

PHASE 2:
Pilot Test: Deployment in a pilot agricultural region to validate the effectiveness of the system.

PHASE 3:
Training and awareness-raising: Support for producers and businesses to ensure optimum adoption.

PHASE 4:
Large-scale deployment: extending the system to several regions and sectors.

COMPLEXITY
MEDIUM TO HIGH

LEVEL OF INVESTMENT NEEDED
LOW TO MEDIUM

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

Combined with
30-31

complementary goals
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