



EcoRegen

UrbanLab for Green Cities Suceava, 25-27 October, 2024

Nr. 3

About the team

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The problem - Definition and causes of drought

Short description about the problem:

- Decrease in agricultural production
- ☐ Increasing production costs
- Rural population migration
- ☐ Competition for water resources
- ☐ Impact on public health



The problem visualised & data points

Water deficit caused by drought

Decline in agricultural production



Migration and urbanization.

Increase in production costs

Existing solutions

Rainwater harvesting and storage systems



River gardens



Underground cistern



Creative containers



Our solution – PLUVIO+

The project aims to develop an innovative system for efficient water capture and use in agriculture by collecting moisture from the air and alternative natural sources, ensuring farmers have constant access to a sustainable water source and promoting long-term sustainability in agriculture, even under low rainfall or drought conditions.

The project contributes to ecosystem protection by reducing dependence on traditional water resources and minimizing the carbon footprint through sustainable methods of water capture and use.



Our solution - visual representation

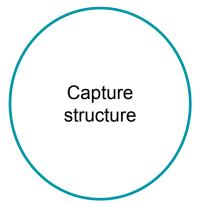


Our solution - the competitive advantage

	Oursolution	Rainwater harvesting and storage systems	River gardens	Underground cistern	Creative containers
Efficiency in water collection and usage		×	V	V	×
Short- and long-term costs	V	V	×	V	×
Sustainability and environmental impact	V	×	V	×	×
Automation and smart technologies	V	×	×	×	×
Adaptability to variable climate conditions	V	×	V	×	V
Maintenance costs and durability	V	×	×	V	V

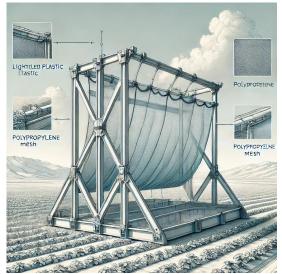


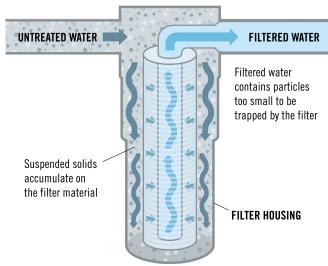
Scalability & replicability potential



Modular filtration system

Mobile app development







Implementation plan

Months 1 - 3

Building together: team, collaborations, and market knowledge!

Months 3 – 12

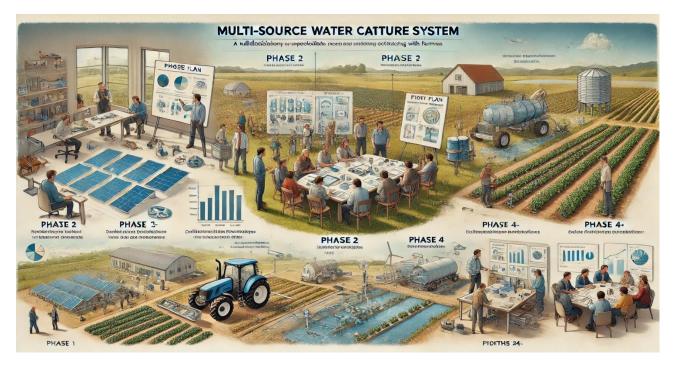
Innovate and Implement:
Prototype, Test, and
Expand!

Months 12 - 24

Evaluate and Optimize: Impact Assessment, Product Enhancement, and Growth!

Months 24 +

Sustain and Innovate: Long-term Support, Continuous Improvement, and National Expansion!



Necessary investments

Investment	Price	Nr. items	Total
hydrophobic nets, frames, tanks	100 Euro	10	1000
Hydrophobic riets, frames, tanks	100 Luio	10	1000
hydrophobic nylon, recycled metal frames, recycled plastic tanks	200 Euro	10	2000
Mobile Application Development	-	-	10000
Marketing and Distribution	-	-	5000
Total investments	18.000 Euro		



EcoRegen Thank you!



