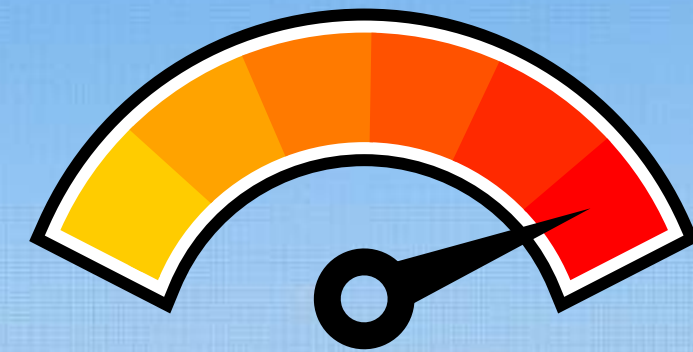




This is... SASIME

THE CHALLENGES
OUR MISSION
THE PROJECT
IMPACT
MARKET APPROACH
GET IN TOUCH





The climate change affects Europe harder than other parts of the world, and the Mediterranean region harder than the rest of Europe.

Unfortunately, rural Portugal is exemplary for this....



DESERTIFICATION

DEPOPULATION



A large, rustic wooden water wheel is the central focus, tilted slightly to the right. It has a dark wooden rim and spokes, with some spokes painted in bright blue and yellow. The interior of the wheel is painted with a pattern of red and green. The wheel is situated in a dry, arid landscape with sparse, yellowish-brown grass. In the background, a low stone wall runs across the middle ground. To the right, a large, leafless tree with a thick, gnarled trunk stands against a clear blue sky. A single utility pole with several power lines is visible on the left side of the frame. The overall scene conveys a sense of rural poverty and traditional craftsmanship.

POVERTY

CHALLENGE?

OPPORTUNITY!



OxOTE

Regeneration

THROUGH
INNOVATION AND EDUCATION



What if...

We could grow food in a true regenerative and healthy way? And we could help restore biodiversity at the same time?

Mixing crops instead of monocultures and without the use of fertilizers or pesticides?
Without having to use a lot of water, building extensive infrastructure or manual labour?

SYSTEM OF

AUTONOMOUS

SMART

IRRIGATION FOR

MIXED-CROP

ENVIRONMENTS



SASIME

KEY FEATURES OF SASIME

- Precision Irrigation: Flexible nozzles deliver water directly to each section, ensuring optimal hydration for every plant, in a mixed crop biodiverse environment.
- Adaptive Intelligence: Algorithm adjusts irrigation to the unique and changing water needs of mixed crops.
- Smart Data Integration: Combines real-time soil humidity and live weather data to optimize timing and efficiency.
- Solar-Powered Autonomy: Solar panels generate energy for the system while providing protective shade for crops.
- Self-Sustaining Water Supply: Advanced harvesting unit captures rain and air moisture, securing full water independence.



THIS YEAR WE DEVELOPED THE FIRST 'SMART FOODBEDS'



SCHOOLS

Yuverta Vocational (agriculture)
Aeres (Applied biology)
TechNova College (Software Dev)
Hanze University (Mech. Engineering)



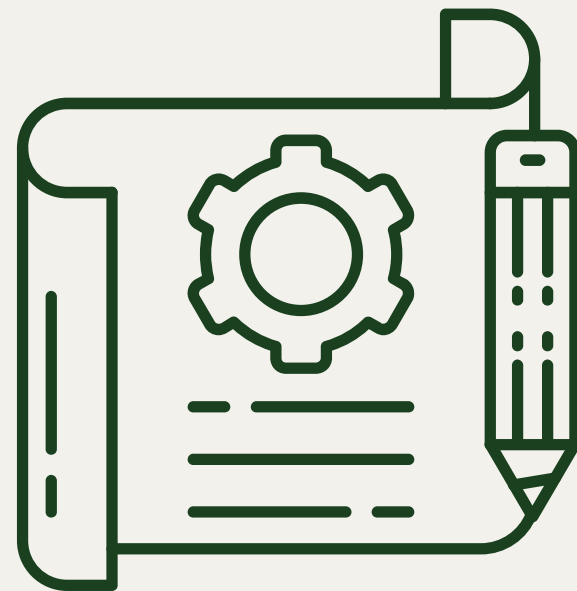
STUDENTS

28 students and 3
Professor working
for 4 Months on the
concept

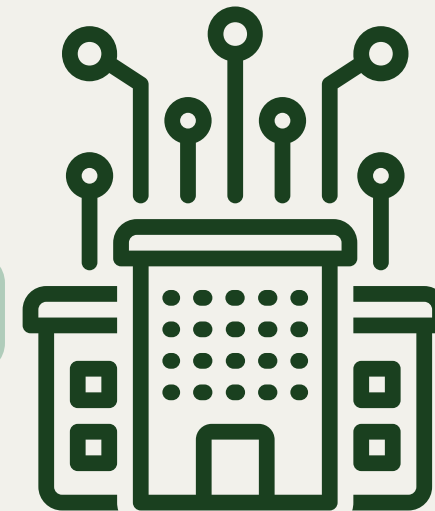


CROWDFUNDED

€ 5670
33 donations



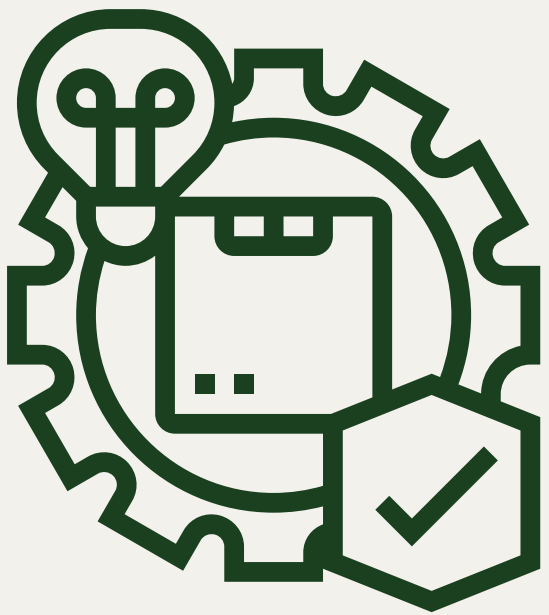
DESIGN OF
THE
IRRIGATION
ROBOT



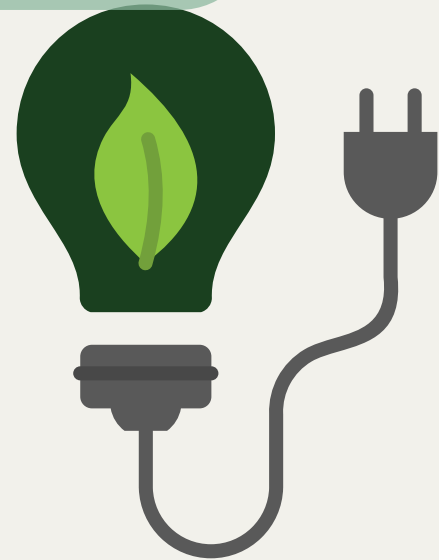
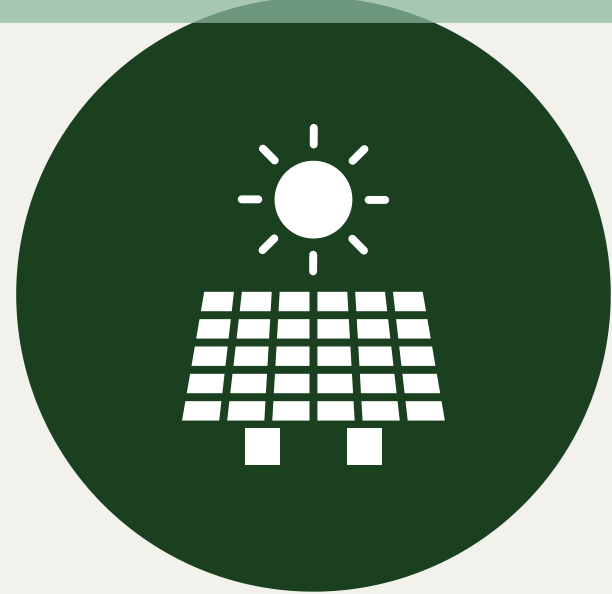
ICT
INFRASTRUCTURE
LORA NETWORK
BETA ALGORITHM



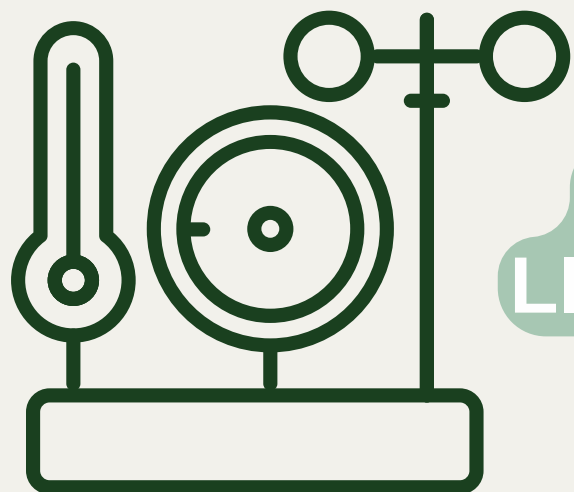
IN THE NEXT PHASE IN 2026,
WE WANT TO:



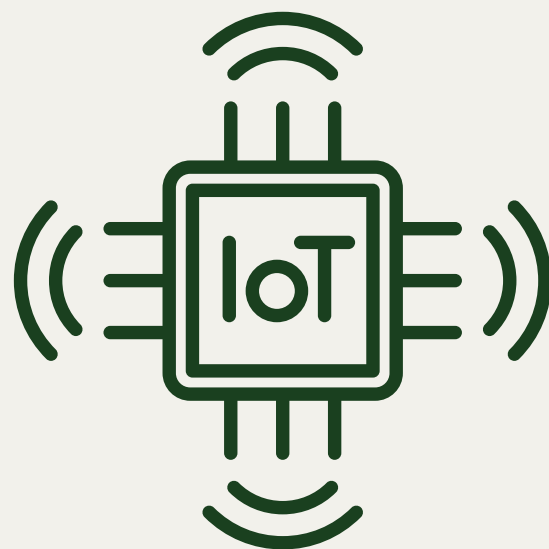
BUILD
PROTOTYPE
IRRIGATION
ROBOT



ADD AUTONOMOUS
WATER AND
ELECTRICITY SUPPLY
INTEGRATION



INTEGRATE
LIVE WEATHER
DATA



ADD VARIABLES
AND FURTHER
DEVELOP
ALGORITHM



MONITOR
EXTENSIVELY
WATER USAGE
AND CROP
RESULTS

How can you help us make Sasime a reality?

Raising



FUNDS TO

Build the proto-type
Acquire key-components
Hosting and guidance of the team
System integration and adaptations
Year-round monitoring and project management.

Looking for



PARTNERS FOR

Setting up a joint venture
Market knowledge, support bringing SASIME to the market
Funding



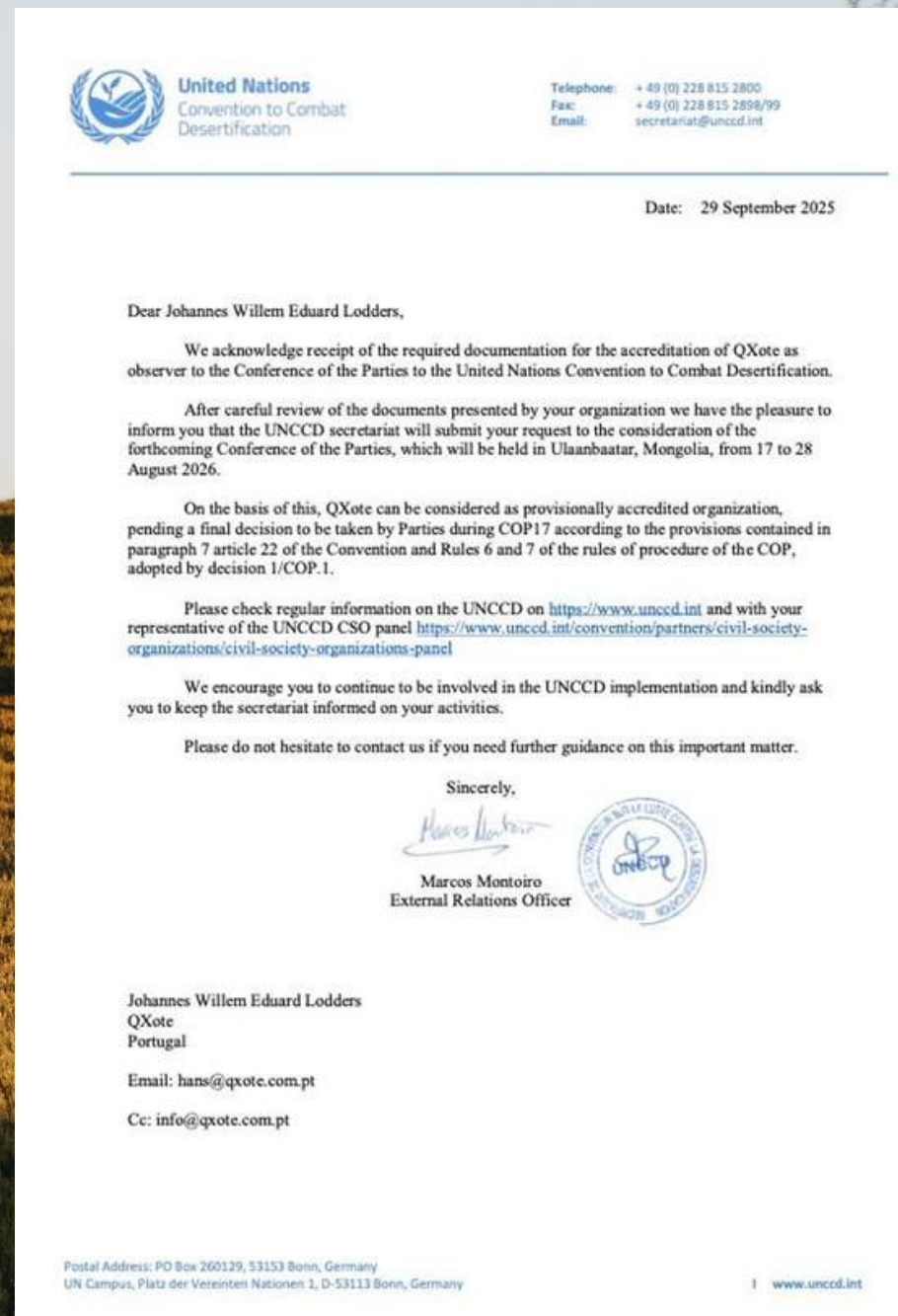
**IMPACT:
REPLICABLE, ACCESSIBLE AND
BIODIVERSE FOOD PRODUCTION
WITHOUT THE NEED OF
INFRASTRUCTURE
AND WITH EFFICIENT WATER USE**

QXOTE Relevance

What we are trying to accomplish is crucial, because we can draw lessons from the developments in our region. What is occurring in our village and surrounding areas serves as a scenario for rural communities in many rural, semi-arid regions throughout Europe.

The effects of climate change and biodiversity loss are felt in numerous locations, and our region, unfortunately, finds itself at the forefront of these challenges.

Let's turn this situation around and make it a beacon of active hope and positive change instead!



QXote has been pre-acknowledged by the United Nations (UNCCD), as an organization combatting desertification. The second organization in Portugal to be recognized as such!

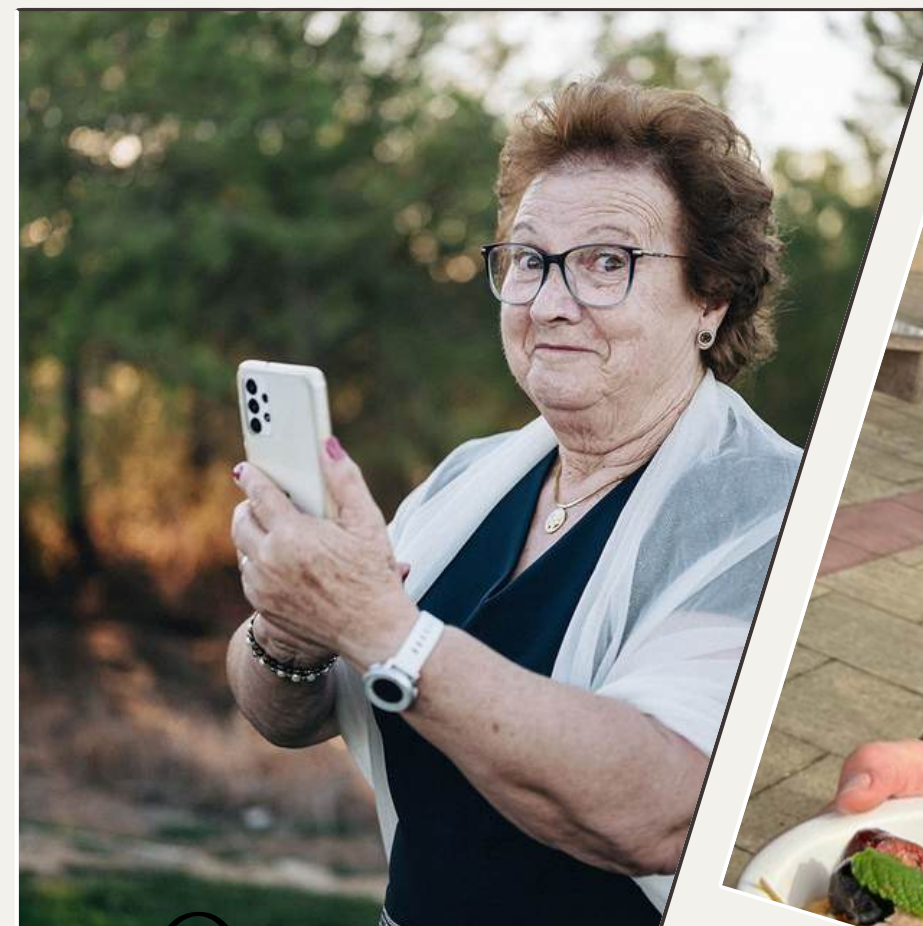
Advantages for end-users

SASIME allows end-users to:

- Grow food everywhere in dry, and remote areas, or areas without easy access to water and electricity
- Oversee and water their crops automatically, knowing they receive the right amount of water at the right time
- Minimize maintenance and management, because the mixing of plants makes the crop grow more resilient, biologically deterring weeds and harmful insects
- Seasonal harvesting during many months, using the crops diversity for continuous production
- Achieve higher yield during the whole year without adding fertilizers or pesticides (phase 1 demonstrated 12 x more production in multi-crop beds)
- Know they are growing healthy food, while increasing biodiversity and a fertile soil.



*And
Mona*



*Our tech
Girl*



*Dana Paula,
our local chef* ❤️

Market approach

We regard SASIME as a replicable and educational concept. Our current vision on the market is not to sell SASIME as a turn-key robot, but as an adaptable construction.

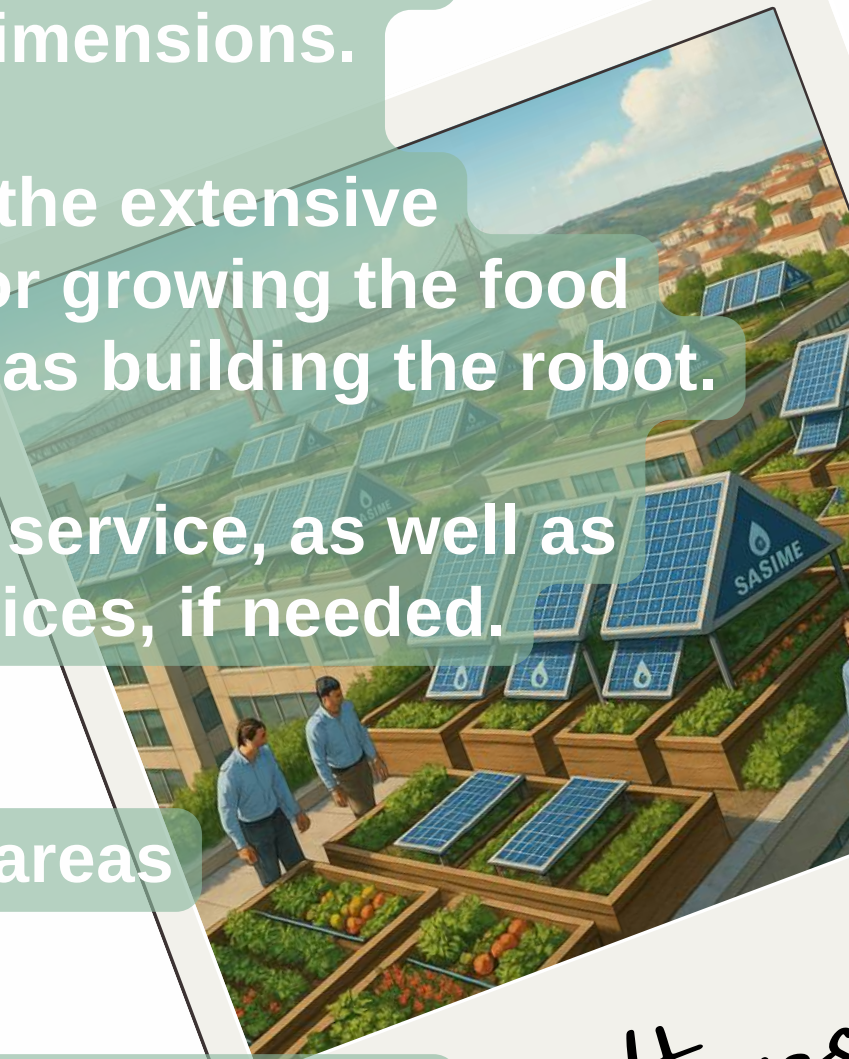
Customers will receive the components (flexible nozzle, solar powered water harvesting, smart sensors) to build the structure fitting to their own needs and dimensions.

QXote and partners will develop and sell the extensive instructions and educational materials, for growing the food sustainably (which mix of crops), as well as building the robot.

The intention is to sell the algorithm as a service, as well as construction and system integration services, if needed.

Market approach will be mainly B2B:

- municipalities, in sparsely populated areas
- schools, for their school garden
- companies, for their employees
- farmers, developing sections for home growth and developing more biodiverse food systems



Rooftops



Schools



Farmers' gardens in rural areas

GET IN TOUCH!

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