

Welcome to the Innovative Sustainable Economy Mission

3rd Innovation Camp - DAY 2

Olhão 23-24 October 2025





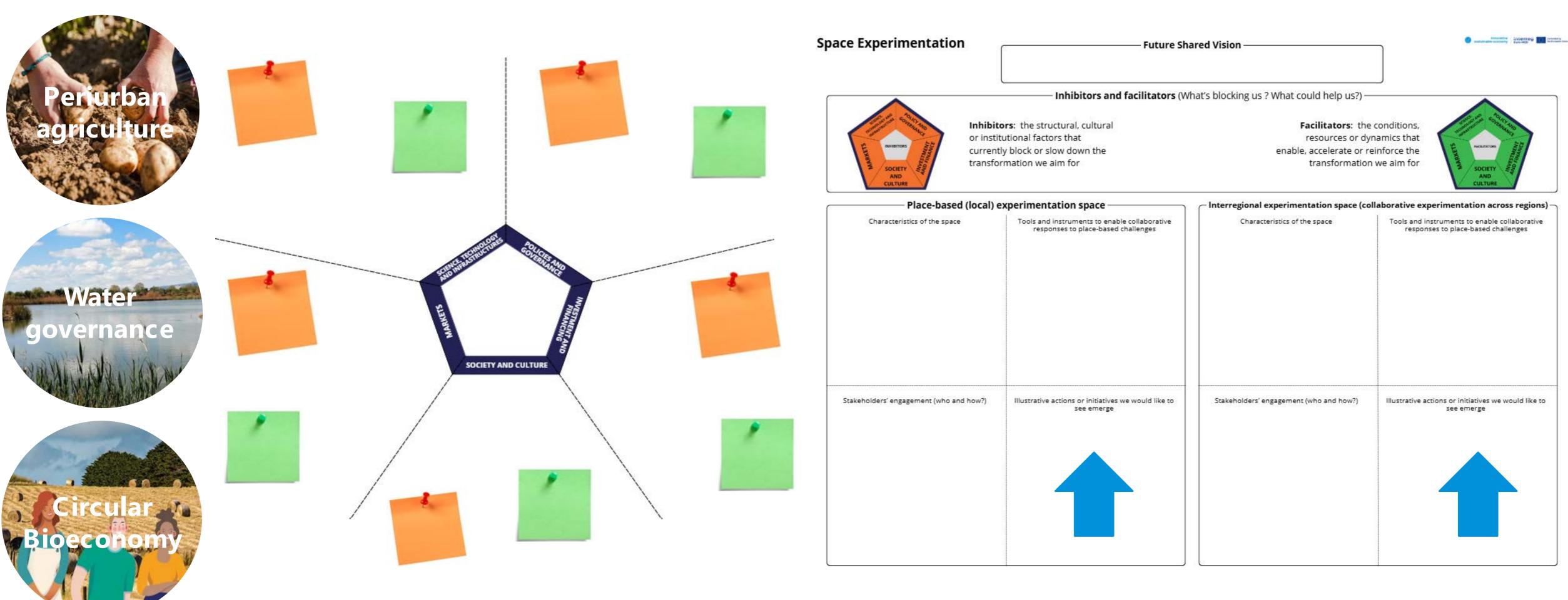


INNOVATION SHOWCASE: MED projects' solutions





What we discussed yesterday?

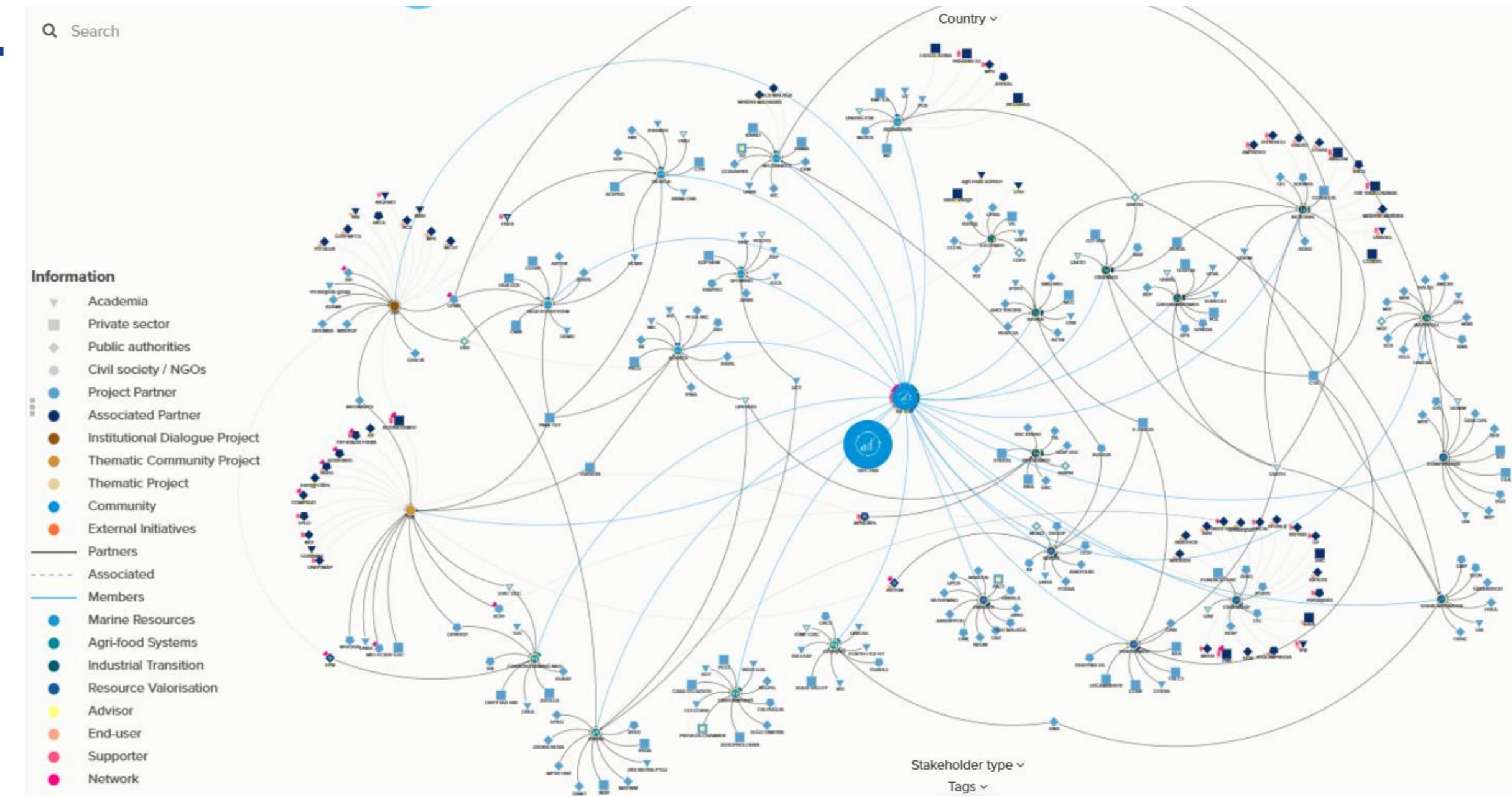






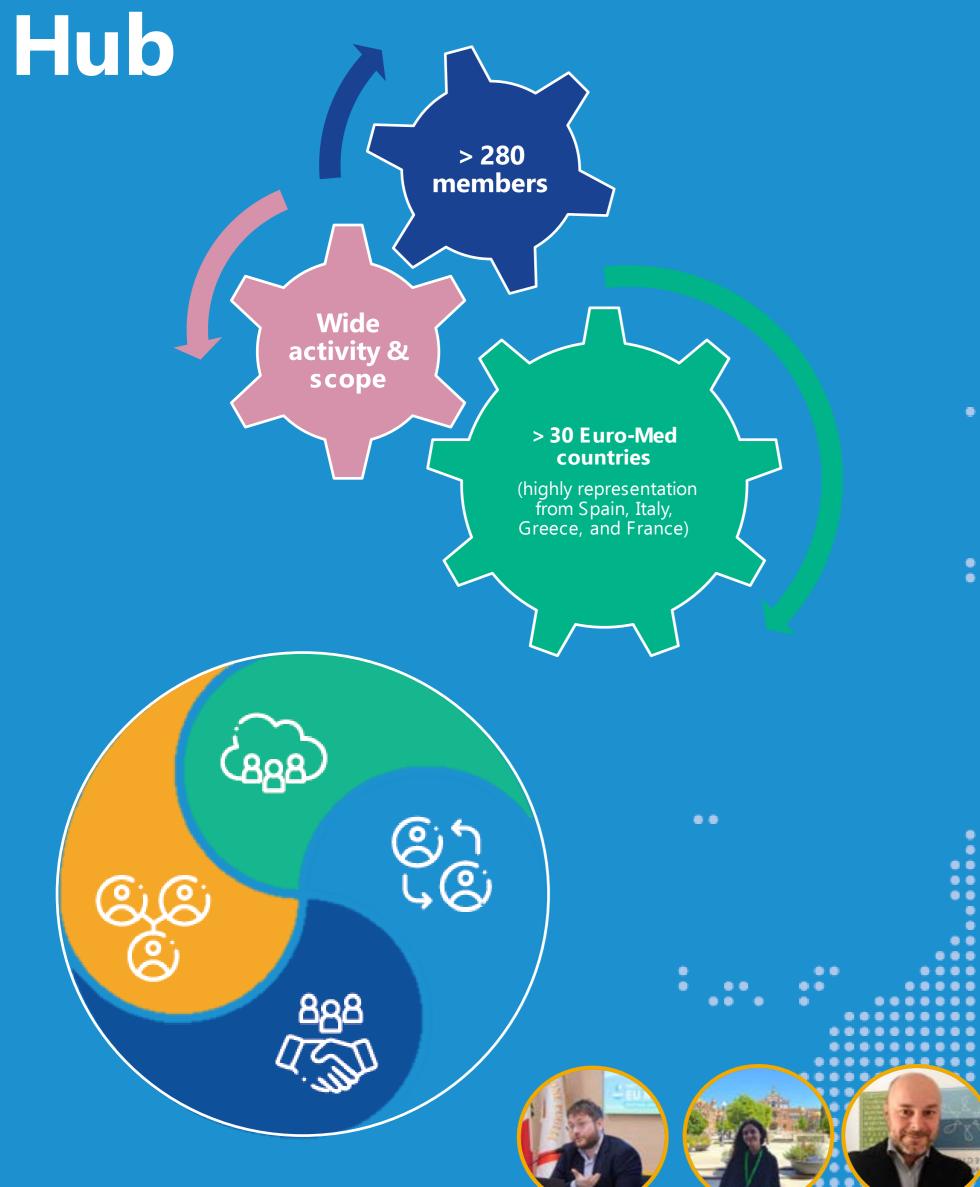






Innovative Sustainable Economy

Community























































Thematic vs challenges





Agri-Food Systems



Industrial Transition



Resource **Valorisation**



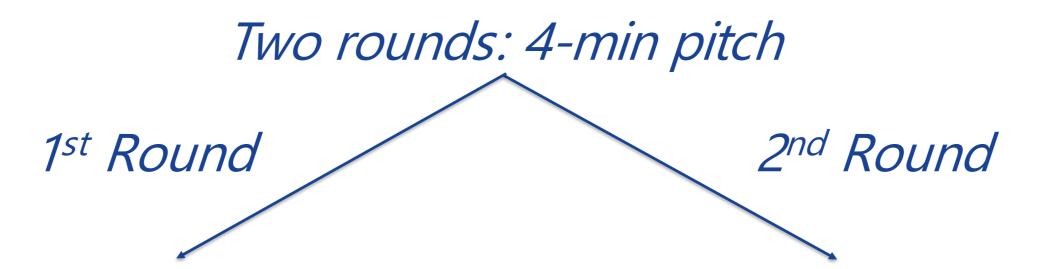
A taste of innovative solutions!

The objectives of the showroom is to present place-based transformative solutions









Solutions tested on the ground

Other initiatives and PA regions







1st Round SOLUTIONS TESTED ON THE GROUND







SHARE.MedWATER

CARBON FARMING MED

GREENSMARTMED

REVIVE

AgroCedrus

IDRON

Clepsydra

Sea of Change

Germ of Life

ITI Água e Ecossistemas de Paisagem







GAMIFIED ACTIVTY Scan the QR code Or go to



www.menti.com
1128 9145







Strategic Harmonization and Resource Enhancement in the ME Diterranean: Advancing Water Management and Innovation through Non-Conventional Resources.

SHARE.MedWATER

ISE 3rd Innovation Camp 23-24 October 2025 Olhao, Portugal







SOME INTERESTING FACTS

What is the average water consumption per person in Europe?

125 to 150 litters per person per day

What is the average water losses in Europe?

Between 30% and 50% of water is lost

More than 40 % of the EU's population is already experiencing water scarcity

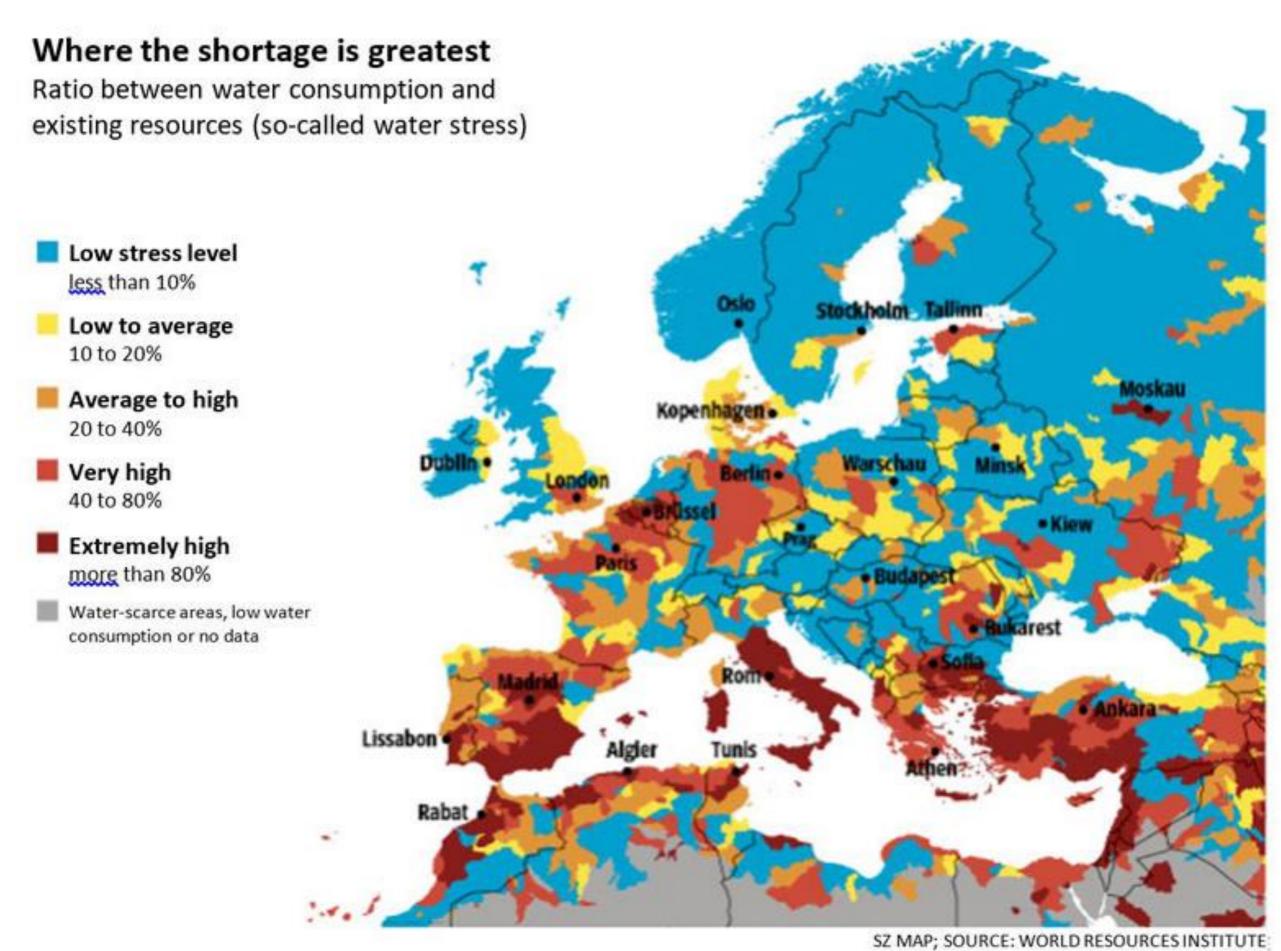


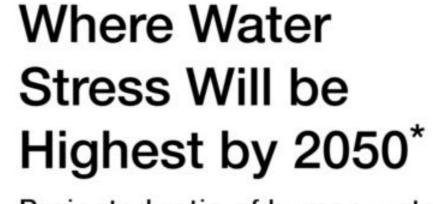


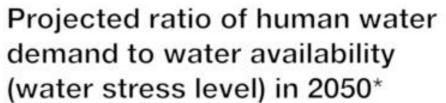


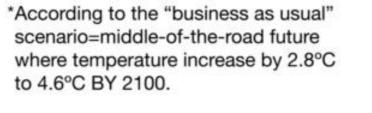
SOME INTERESTING FACTS













- Extremely high
- (<80%)
- High (40-80%)
 - Medium to high (20-39%)
- Low to medium (10-19%)
- Low

(<10%)



SHARE-MedWATER







SOME INTERESTING FACTS

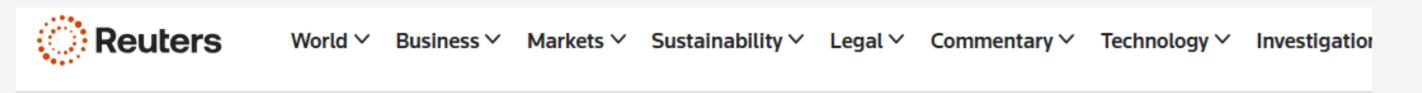
NEWS ANNOUNCEMENT | 23 June 2025 | Joint Research Centre | 2 min read

Escalating drought threatens Europe's ecosystems and agriculture

WEATHER AND NATURAL DISASTERS

Italy has declared a state of emergency because of drought: 'There is no doubt that climate change is having an effect,' the prime minister said

PUBLISHED TUE, JUL 5 2022-11:15 AM EDT | UPDATED TUE, JUL 5 2022-11:52 AM EDT



Greek islands face water crisis as tourist season peaks



A Glimpse Into Spain's Future, Where Water Comes by Truck, Not Tap

Residents of Pozoblanco and 22 other villages in the country's south have had to get their drinking water from tankers since April, when the reservoir serving the area dried up.









Overall Objective

SHARE.MedWATER main objectives are to tackle water scarcity by fostering the reuse of unconventional water sources through innovative treatment technologies, circular water strategies, and participatory governance models, promoting community-based approaches, knowledge sharing, and policy integration and supporting sustainable and resilient water management in the Euro-MED region.







How SHARE.MedWATER will tackle this challenges?

- ✓ Integrating non-conventional water reuse (rainwater, greywater, wastewater)
- ✓ Addressing regulatory gaps
- ✓ Bridging local and district scales: link decentralized (community) and centralized (district) water reuse models while addressing the lack of structured policies for decentralized water reuse.
- ✓ A decision-support tool that will guide stakeholders in evaluating and optimizing unconventional water integration (economic, environmental, social factors).
- √ 7 pilot community projects
 - Greece Rainwater Treatment for Farming and Potable Use
 - Cyprus Assessment and development of a community-based model for grey water treatment and reuse
 - Albania Heritage-driven Rainwaters Community-based Reuse
 - Italy Rainfall collection and treatment in REC community of Cervia
 - Spain Rice field water reuse for protection of coastal areas in Delta del Ebro
 - Malta Restoration of Historical Rainwater Harvesting Reservoirs in Vittoriosa
 - France Sustainable Wastewater Reuse for a Smart Valley in Lozzi, Corsica



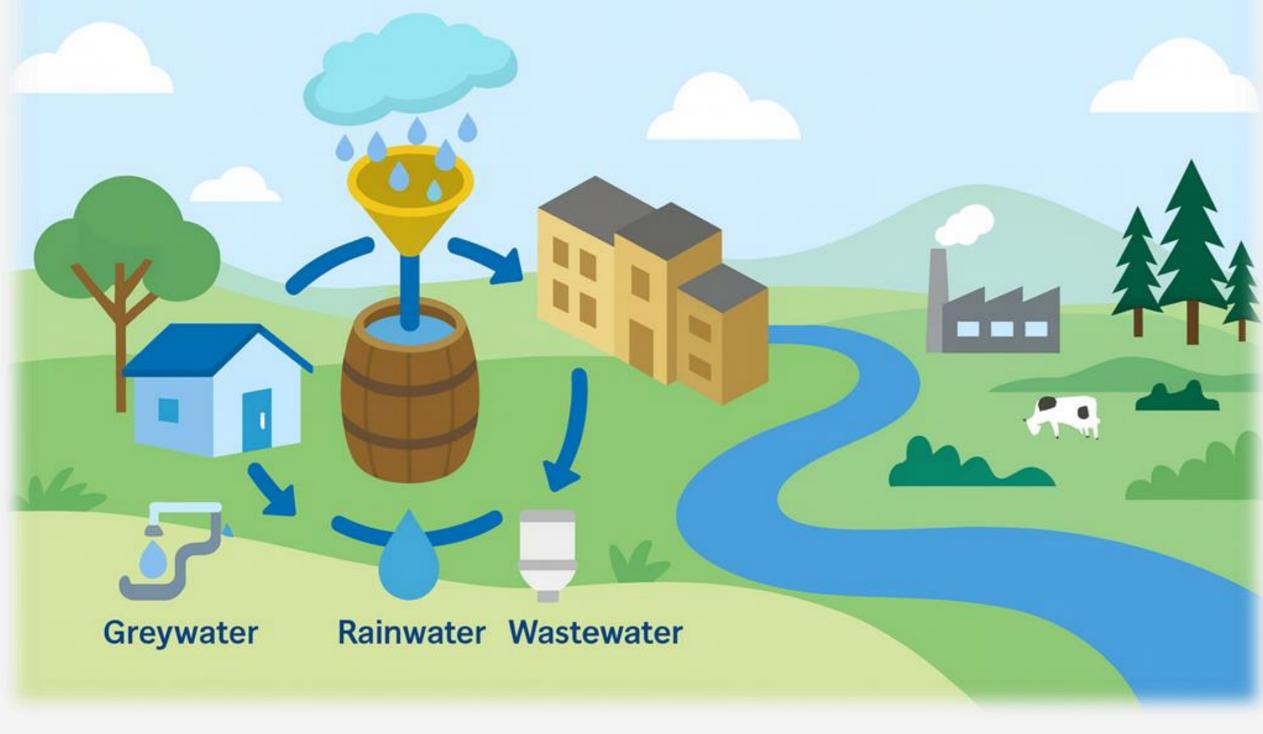






How SHARE.MedWATER will tackle this challenges?

SHARE.MedWATER Community Model







Outputs: Hydro-economic models, DSS tools, recommendations for policy/strategy integration.









Thank you for your attention!!!



Source: Food and Agriculture Organization of the United Nations: FAO















Carbon Farming MED: Local Action for Systemic Change

Carlos A. Torres-Guerrero Beta Tech Centre, UVIC-UCC

Innovative Sustainable Economy Mission 3rd Innovation Camp

Faro, Portugal











"Mediterranean soils could capture over 300 Mt CO₂/year — but we're not using that potential."

Carbon farming is not just a climate solution — it's a rural opportunity.

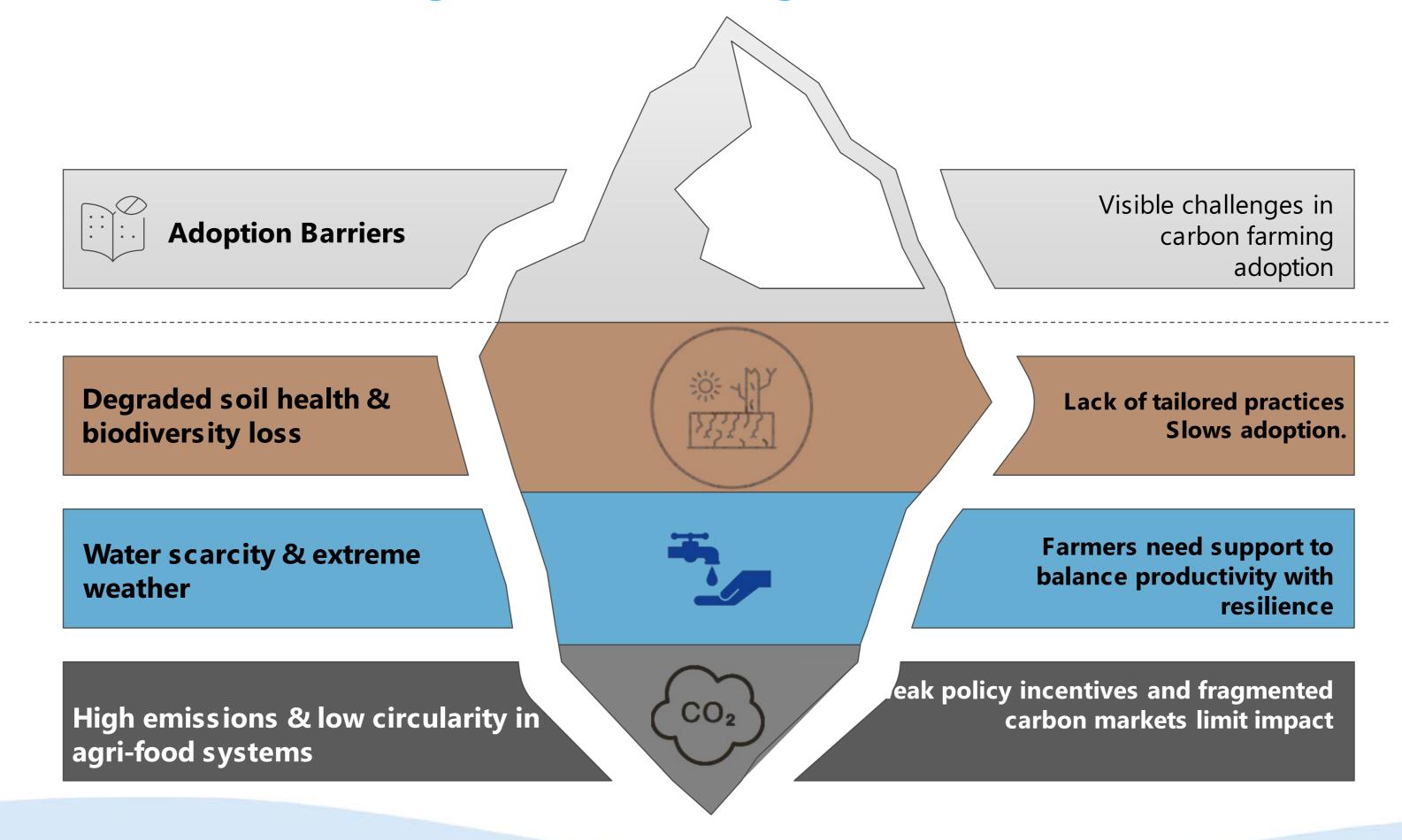








But... why Carbon Farming Isn't Scaling Yet?



Carbon farming faces systemic barriers that mirror the Mediterranean's climate challenges





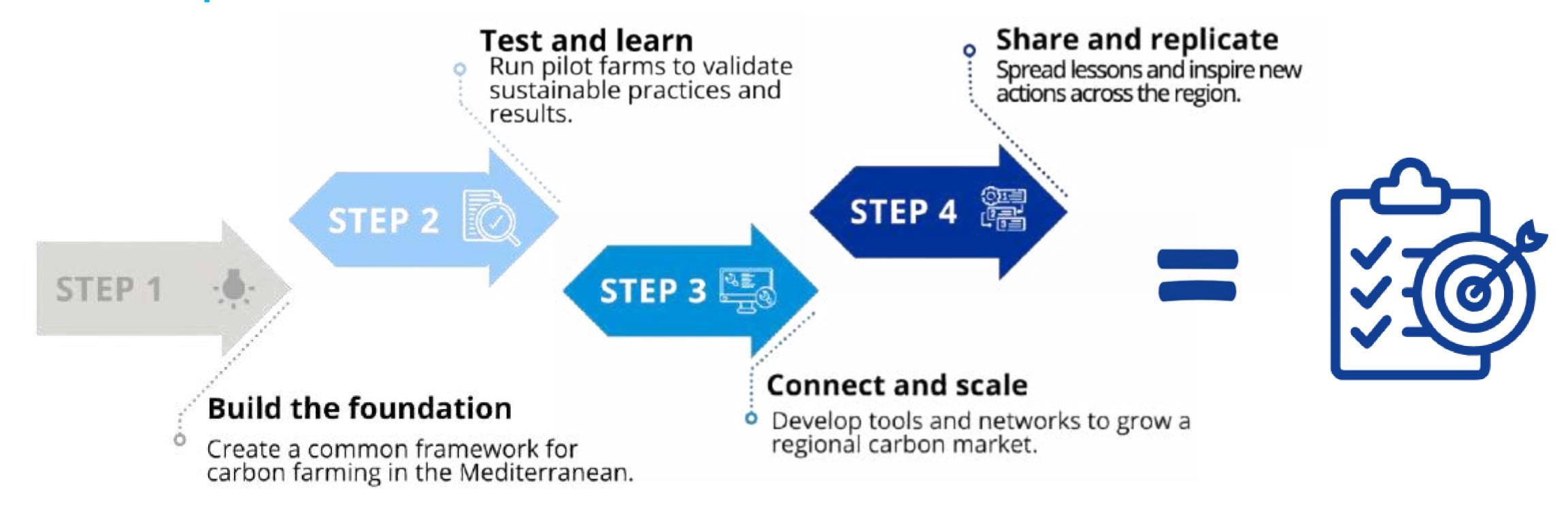




Carbon Farming MED

Aimed to develop a resilient Mediterranean agriculture system and to help farmers to implement **carbon farming** as a new **green business model** to obtain **additional revenues**, optimizing **regenerative agricultural** and **agroforestry** practices and providing the necessary tools to facilitate the carbon **credits' market adoption**.

The roadmap to achieve it:





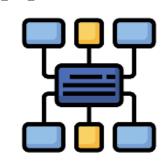






Our solutions:

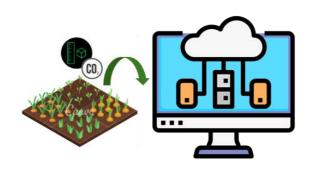
Framework of Good Practices & Business Opportunities



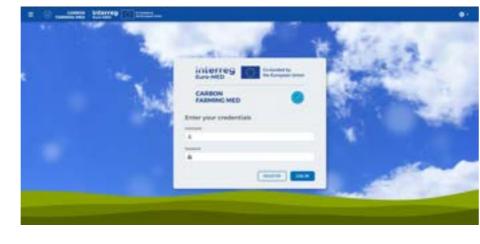
A practical guide co-developed with farmers to implement regenerative agriculture and agroforestry, while identifying new income streams.



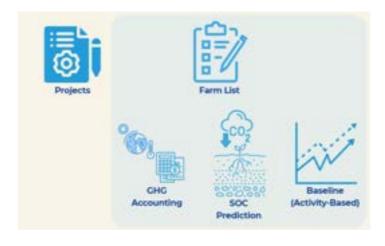
Carbon Credit Calculation Platform



A digital tool to quantify soil organic carbon and GHG reductions, aligned with EU methodologies and ready for market integration.







Scaling Strategy & Market Access



A roadmap to connect farmers with carbon buyers, cooperatives, and public incentives — enabling replication across the Mediterranean.











Pilot Farms Driving Regional Transformation



Our pilot farms are the starting point for place-based innovation. By testing, validating, and sharing regenerative practices, we connect local action with Mediterranean-wide strategies for climate resilience and sustainable agriculture.







Thank you!























Carlos A. Torres Guerrero carlosalberto.torres@u

https://carbonfarmingmed.interreg-euro-med.eu















GREENSMARTMED





GREENSMARTMED

Green and Resilient European Excellence Network for Smart MED SMEs

Innovation Showcase: Transformative Solutions in Action

ISE 3rd Innovation Camp 24th October 2025

Chrysovalantis Ketikidis Senior Researcher

Maria Zaragoza & Martina Griful Innovation Consultant





The Challenge

Obstacles for SMEs

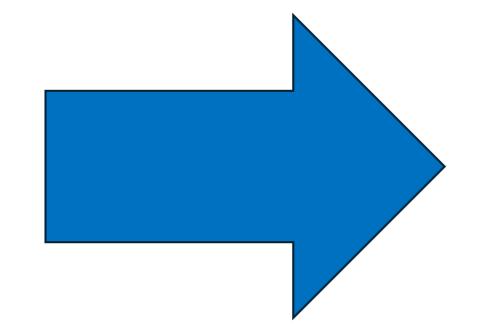
Limited access to financing

Lack of knowledge and expertise

Unclear policy frameworks

Lack of infrastructure

Limited collaboration



Non-circular, high emission in agri-food supply chains



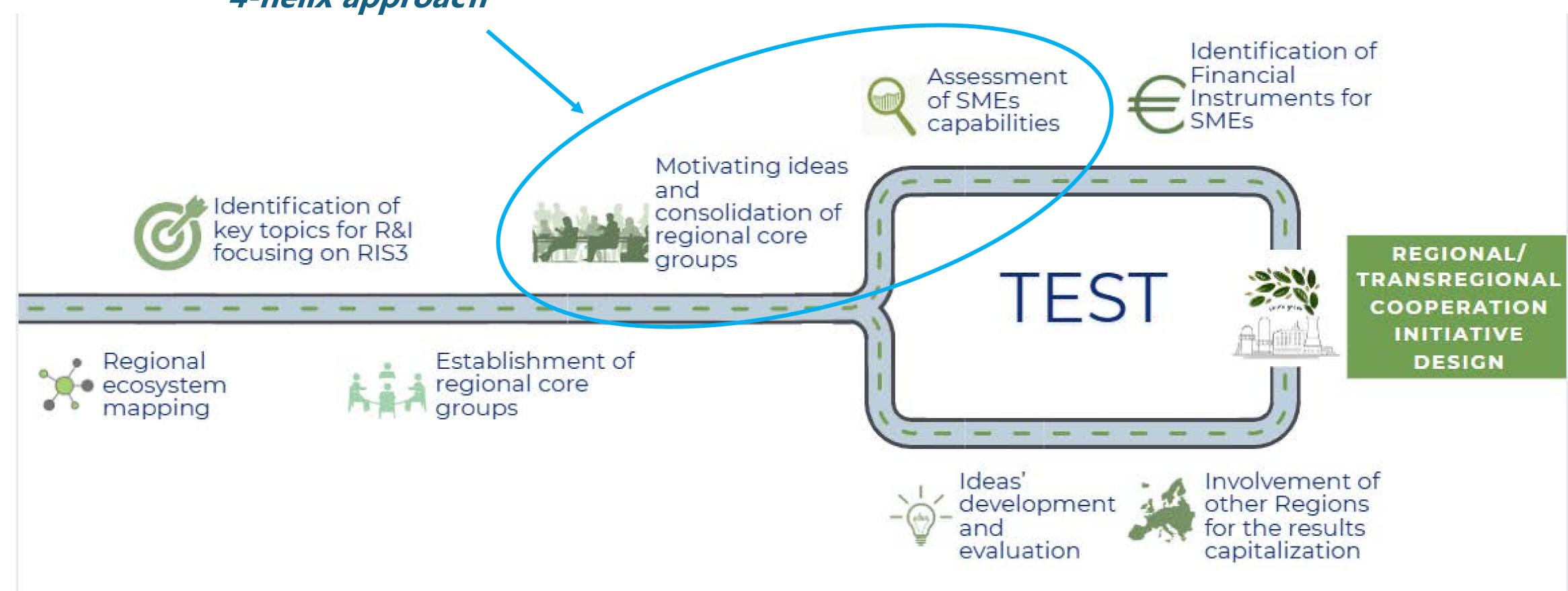






The GREENSMARTMED Methodology















GREENSMARTMED





THE GREEK CASE EXAMPLE

Chrysovalantis Ketikidis Senior Researcher



Regional Core Groups - The Greek Case Example

In person meetings



Identification of SMEs needs



Ideas development with a regional impact





Matching with appropriate financial tools

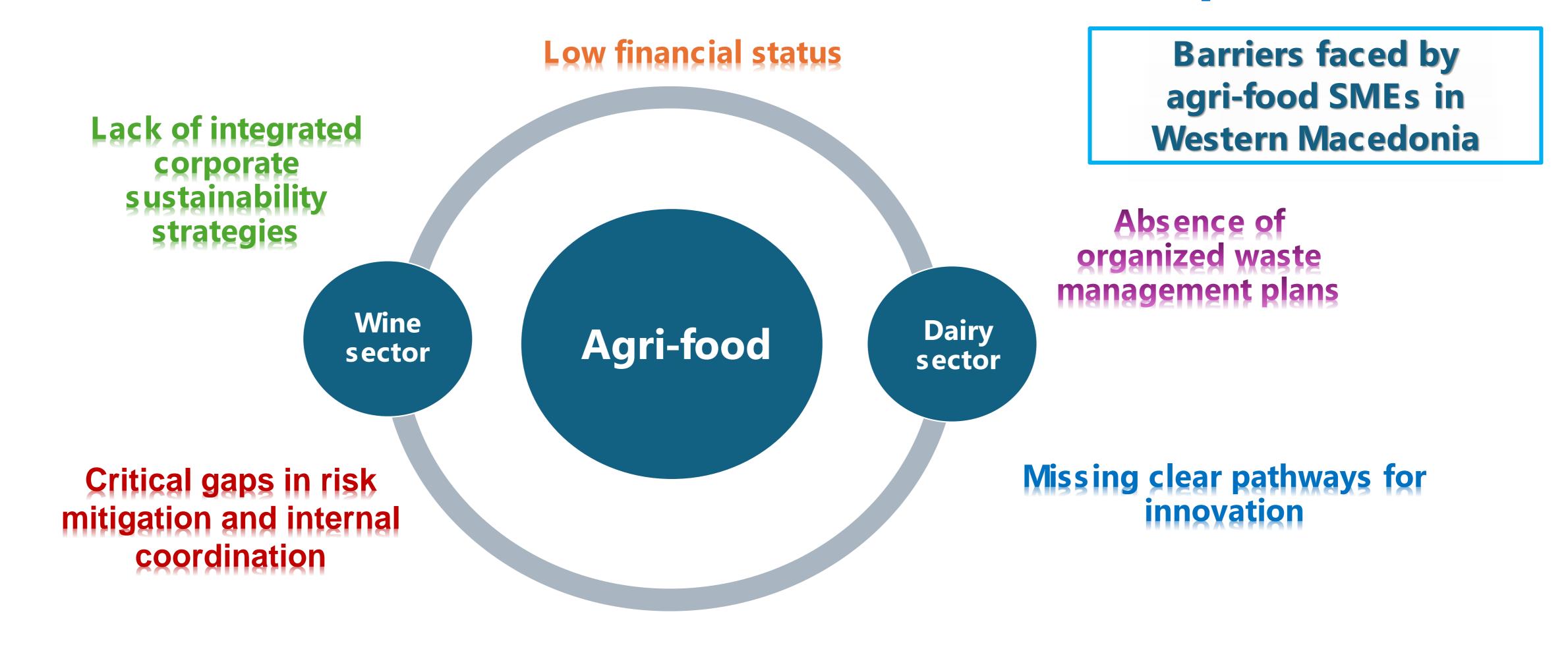








SMEs Barriers - The Greek Case Example











Impact & Outlook – The Greek Case Example

Tangible Impact – What has been achieved?

Strategic Outlook – Where we go next?

SMEs needs and capabilities in sustainability and circular economy identified

Regional-level projects, creating entirely new circular loops identified

Composting Unit

RES installation

Involvement of other Regions in circular ideas development

Trans regional Collaboration

Matching projects, ideas and needs with financial tools

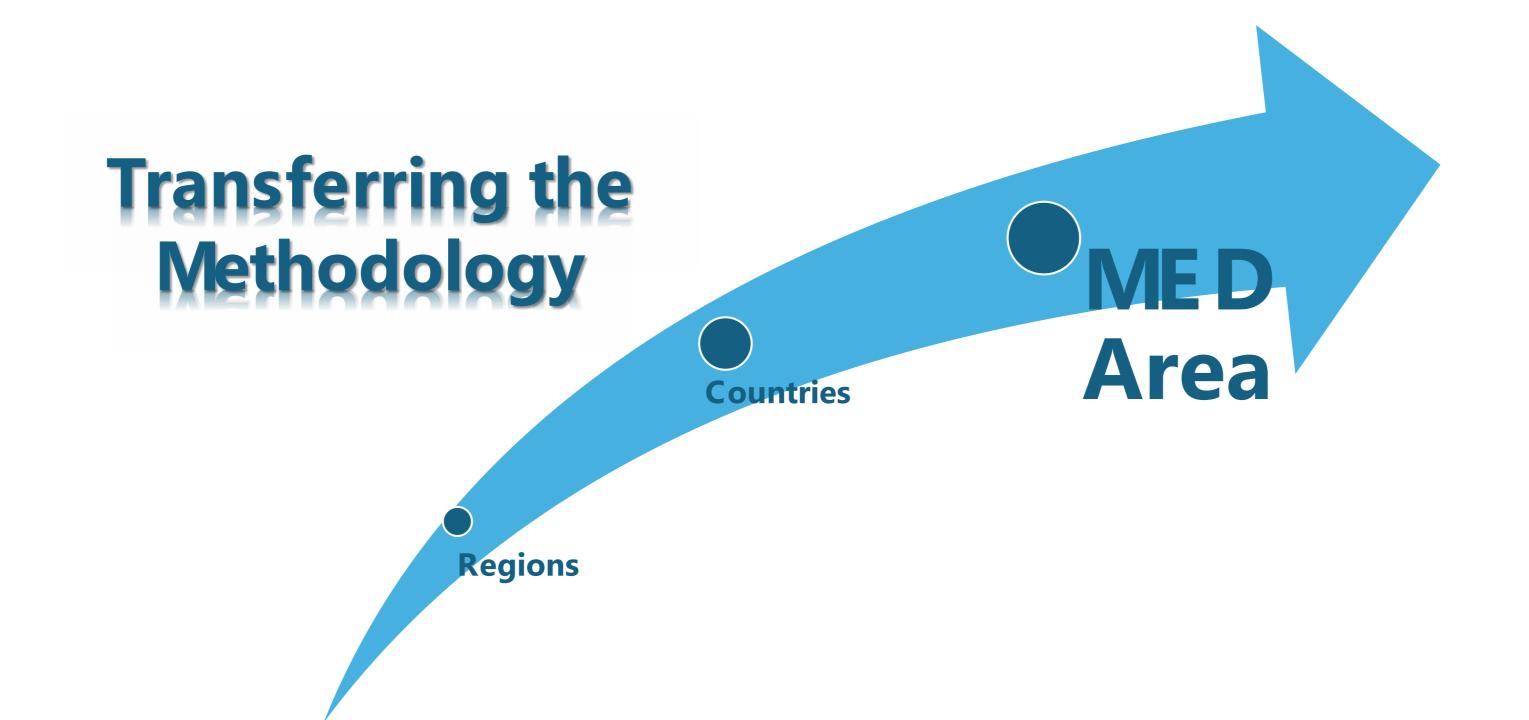








Call for Action



Join us to unlock green innovation across the MED area, turning proven results into regional policy and competitive advantage!!!











GREENSMARTMED





THE CATALAN CASE EXAMPLE

Maria Zaragoza & Martina Griful Innovation Consultant



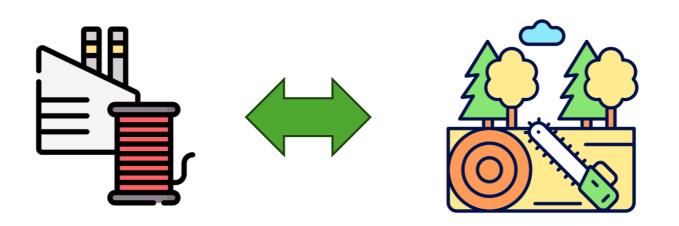
REGIONAL CORE GROUP CATALONIA: FRAMEWORK



RIS3CAT 2030

GTR [Regional Core Group] Catalunya

"Addressing the Cellulose Gap"



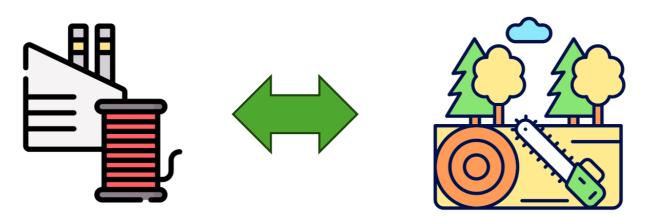








REGIONAL CORE GROUP CATALONIA: MISSION



Strategic collaboration between the textile and forestry sector to study

the use of forestry subproducts to produce plant-based textile fibers (e.g.,

cellulose) in a sustainable and non-polluting way, aligned with decarbonization goals.



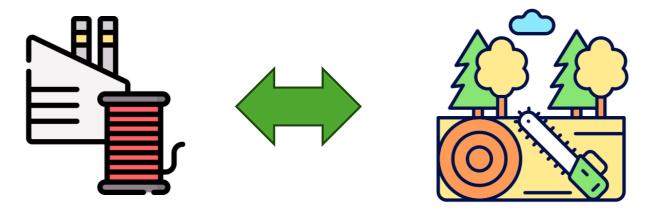






REGIONAL CORE GROUP CATALONIA: PARTICIPANTS

20 Participants:



- o 8 SMEs
- 1 Association of SMEs
- 1 University research group
- 3 Association of SMEs
 - 1 Associated Partner (CTFC)

OTHERS (policymakers):

- Waste Cluster of Catalonia
- Hub of Bioeconomy of Catalonia
- Bioenergy Cluster of Catalonia
- o 1 Associated Partner (Regional Government of Catalonia)





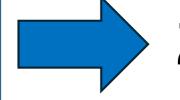




REGIONAL CORE GROUP CATALONIA: NEXT STEPS

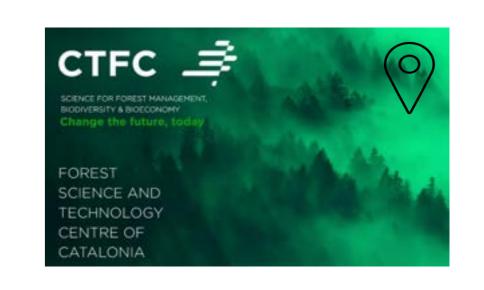
SES SIO N

OBJECTIVE



27th Oct

E stablish a shared understanding of the challenge between forestry & textile industries and co-create an initial collective vision for the future along the "new" value chain.









GREENSMARTMED





GREENSMARTMED

Green and Resilient European Excellence Network for Smart MED SMEs

THANKS!

Chrysovalantis Ketikidis ketikidis@certh.gr

Maria Zaragoza & Martina Griful maria.zaragoza@eurecat.org martina.griful@eurecat.org







Developing Community Based Innovative Business Models for the Revival of Internal Areas in the Mediterranean – REVIVE



























Project objective

Implement innovative solutions for a sustainable economy with the aim of accelerating the transition towards competitive, sustainable and resilient ecosystems in the internal areas of the Mediterranean Regions



https://geofolk.ge/en/article/oriodesityva-makedoniis-folklorulitradiciebis-shesakheb/106 https://caserma.gr/en/information-aboutcaserma-of-herbs-in-leros-island/ https://www.agrotourism.com.cy/women-association-rural-larnaka

https://www.brdawines.com/

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maslinovaulja.com/proizvodnja/

https://plademallorcaturismo.es/en/e periences/turismo-rural-yagroturismo/



























Pilot area

Kišinjev • Mađarska Odesa Одеса Francuska Slovenija Rumunjska Milano Hrvatska/ Bukurest Srbija Sarajevo o Firenca Monako Italija Bugarska Kosov Andora Подгорица Sjeverna Roma Makedonija Barcelona Porto Istanbul Albanija Madrid Tirensko more Ankara . Pe ima de Spanjolska • Valencia Grčka Mallorca İzmir Atena Palermo Αθήνα • Sevilla Gibraltar Malta Sredozemno

Lamaca and Fam agusta District Development Agency (Cyprus)

National Research Council - CNR (Italy)

Institute of Agriculture and Tourism - IPTPO (Croatia)

Official Chamber of Commerce, Industry, Services and Navigation of Mallorca - MCC (Spain)

National Association of Italian Municipalities - Tuscany - ANCI Toscana (Italy)

Regional Rural Development Standing Working Group in South East Europe - SW G RRD (North Macedonia)

DevelopmentAgency of South Aegean Region - READ S.A. (Greece)

Balearic Islands Agency for Tourism - AETIB (Spain)

E-institute - Ezavod (Slovenia)















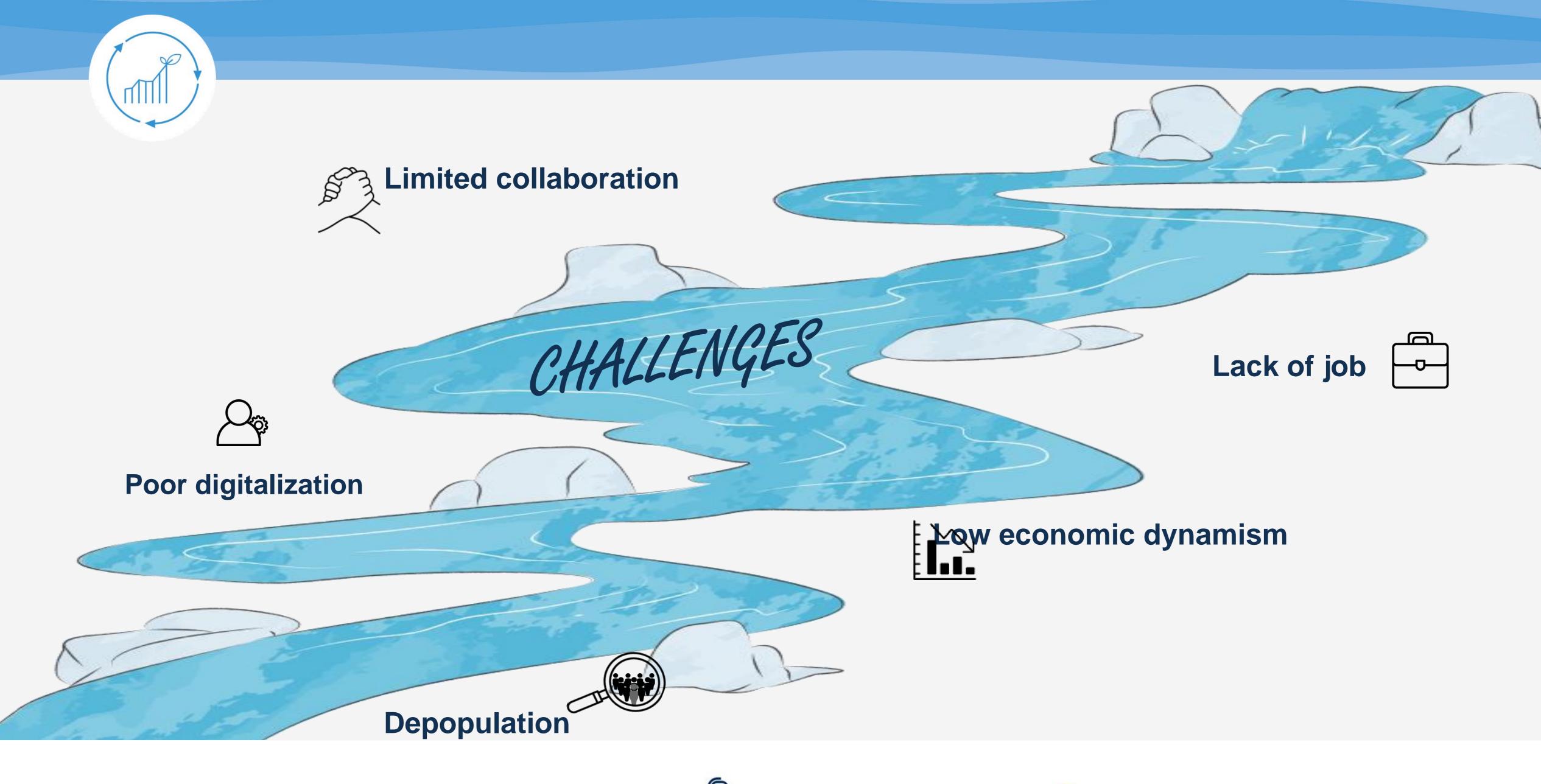








































Innovative Community Cooperative

Digital Innovation Hubs



7 pilot areas







☐ Definition of a methodological framework

Engaging and working together with the bcal comm unities

□Creation of the REVIVE cluster of Innovative Community Cooperatives

Digital Innovation Hubs for im proving digital skills

7 pilots testing new collaborative business models and solutions of advanced technologies

Transferability and sustainability of project results





























Thank
you for
your
attentio

Teuta Benčić, IPTPO On the behalf of the REVIVE























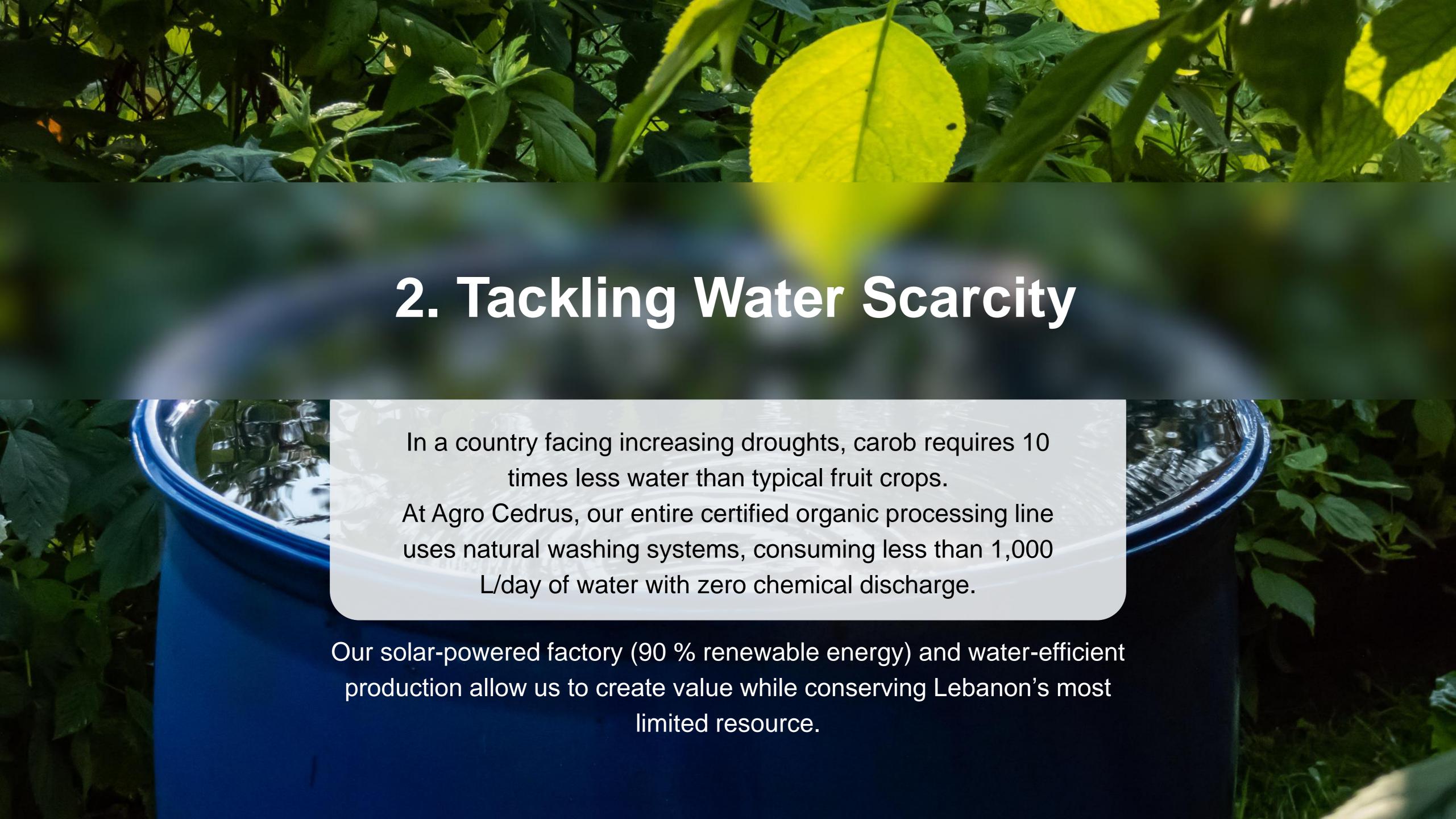






1. Restoring Soil Health, Biodiversity, & Climate Resilience

- Carob and olive trees are natural soil protectors.
- They prevent erosion, fix nitrogen, and sequester over 1000 tons of CO₂ per year from our 4,000tree plantations.
- In 2019, Agro Cedrus planted more than 15 varieties of aromatic plants among the carob and olive trees.
- Through reforestation and training farmers in organic agroforestry, Agro Cedrus restores degraded lands and biodiversity in northern Lebanon.
- We aim to plant 10,000 new trees by 2029, turning dry and marginal areas into green, productive ecosystems.





3. Closing the Loop From Waste to Value

- Every year, carob molasses production leaves over 70 tons of residue or pomace that used to be discarded.
- We turned this challenge into an opportunity by developing Lebanon's first organic carob-based livestock feed, rich in fibers, sugars, and antioxidants.
- This innovation transforms agri-waste into a climatefriendly alternative to imported soy and corn feed, reducing emissions, costs, and dependency on fossil-fuelintensive imports.

4. Social & Economic Impact

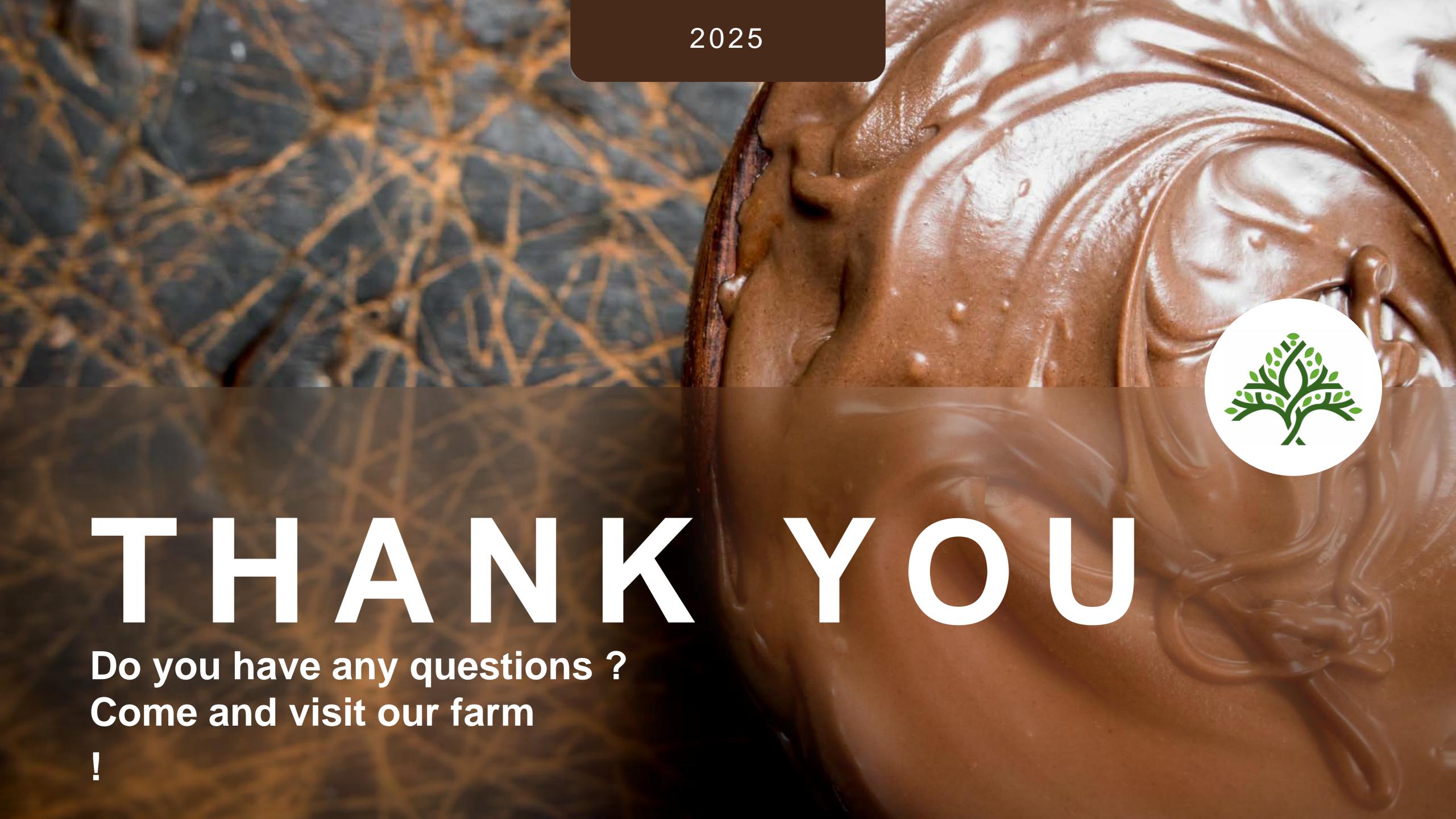
- Our model creates local jobs, raises farmer incomes by up to 30 %, and empowers women, who make up 30 % of our team.
- We work hand-in-hand with smallholders, providing training, fair pricing, and access to organic certification, turning farming into a path for resilience, not survival.



Looking Ahead



By 2026, Agro Cedrus aims to scale up the feed production line and replicate our zero-waste model across the Mediterranean.









IDRON

Every summer, millions of farmers across the Mediterranean face the same fear: running out of water.

Drought has already cut crop yields in some rural areas by 30-40%, threatening agriculture and entire rural economies.







Problem Statement



Rural Mediterranean communities are on the front lines of climate challenge



Water scarcity is no longer seasonal — it's chronic.



Groundwater tables dropping, rainfall less predictable, traditional irrigation wasting up to half the water



The result? Reduced productivity, abandoned farmlands, and unstable rural livelihoods







Our Solution - IDRON





Our solution combines innovation and tradition—creating new water sources and optimizing how water is used in agriculture



We integrate smart irrigation, aquifer recharge, water harvesting and reuse







Our Solution - IDRON



What we integrate:

- Smart irrigation systems powered by real-time IoT and AI data
- Aquifer recharge technologies that store excess rainwater underground
- Rainwater harvesting and wastewater reuse to supplement supply—all adapted to local Med conditions.

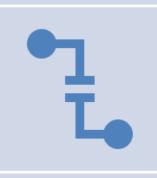




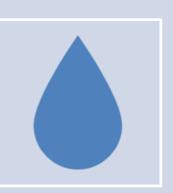
How it Works



1. Sensors & drones continuously monitor soil moisture, weather, water quality



2. Decision Support System (DSS) translates data into smart irrigation commands—delivers right amount of water, at right time, right crop



3. Treated wastewater and collected rainwater safely recharge aquifers and support irrigation, closing local water loop.







Conclusion

IDRON is a living system – not just a technology



IDRON is hope for rural communities across the Mediterranean.







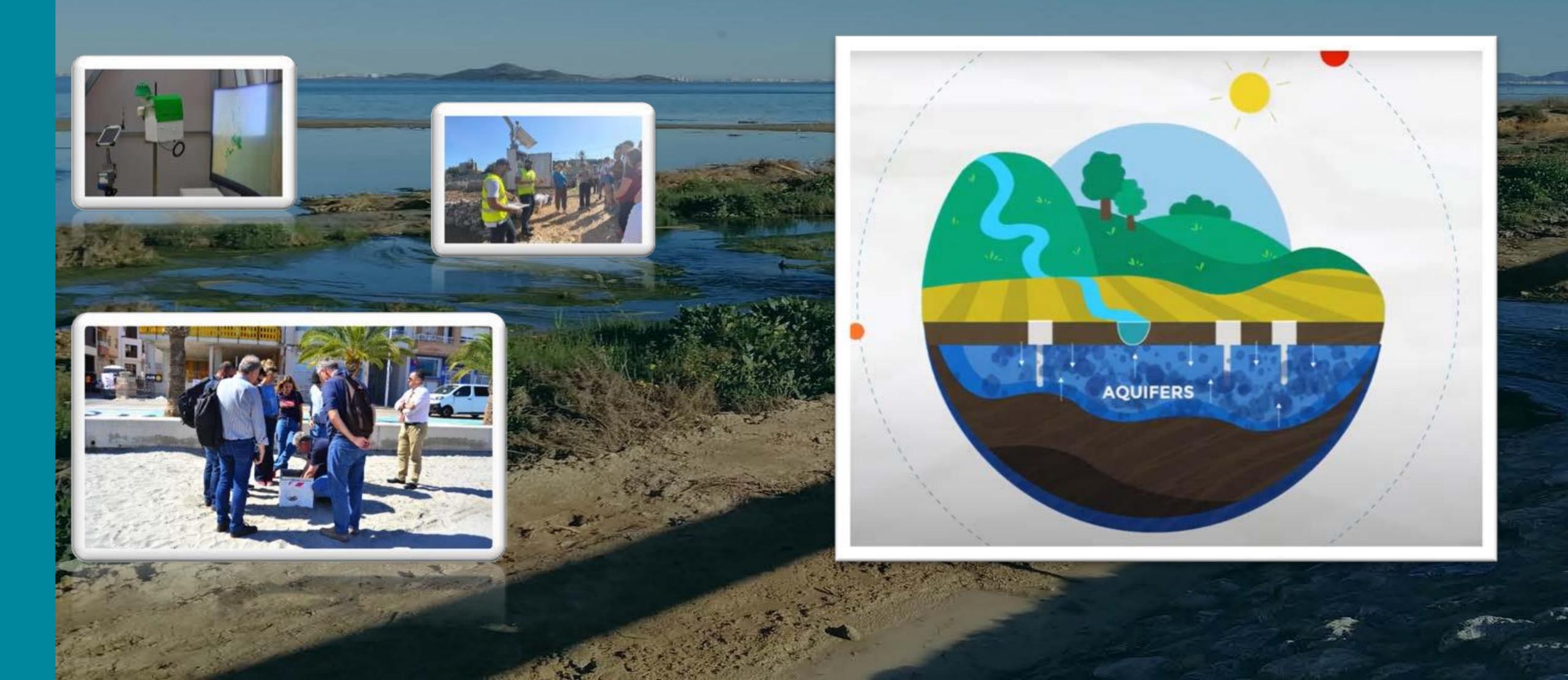


Groundwater - invisible to the eye, yet essential to life

It supplies 75% of our drinking water in many Mediterranean regions, but this hidden resource is under growing threat from climate change, pollution, and intensive agriculture. CLEPSYDRA is here to turn the tide."



Aquifers provide essential drinking water, irrigation, and river sustenance. Yet they remain poorly understood and managed



Clepsydra is:



Create 4 labs involving public authorities, industry, academics, and civil society.

Data Protocol

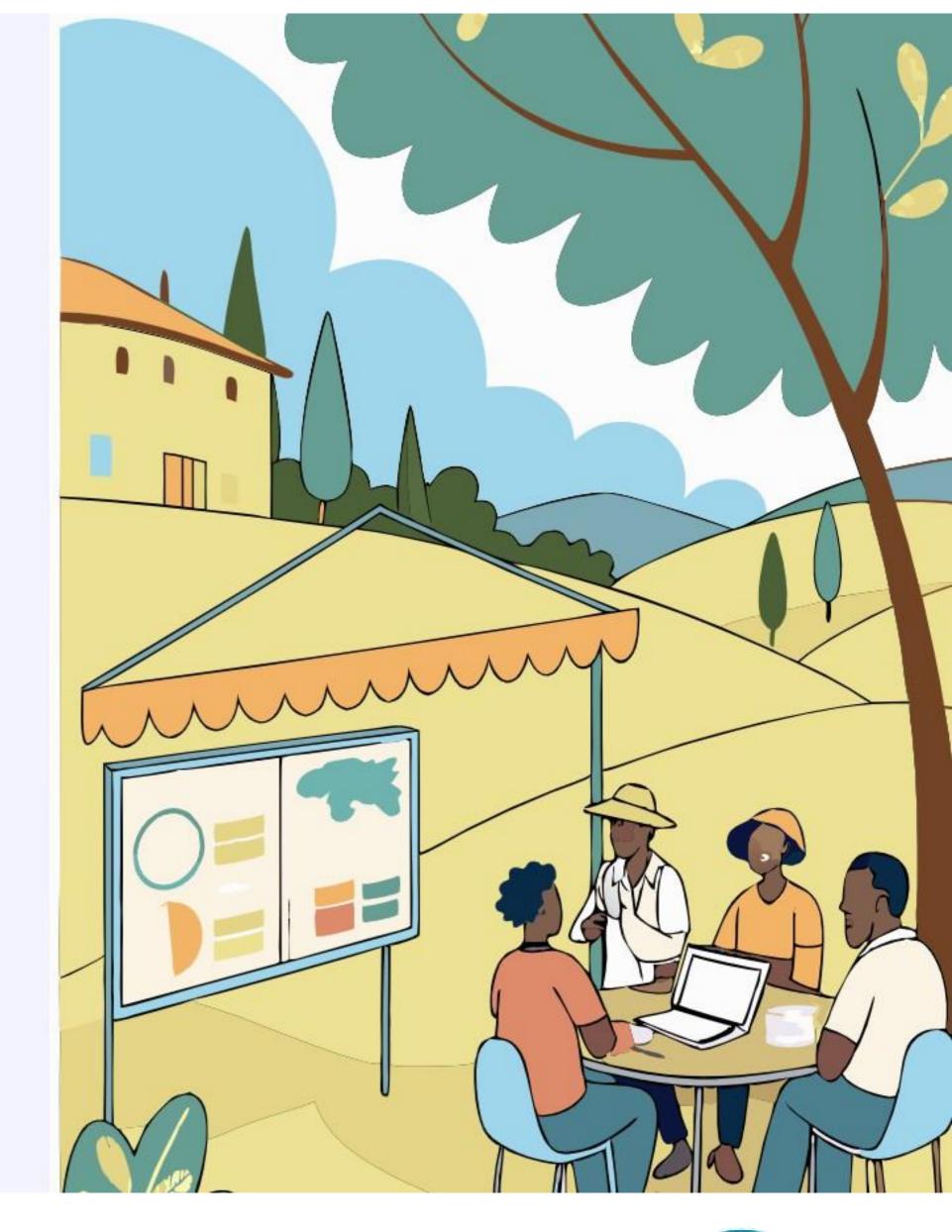
Design collection and screening protocols for groundwater networks.

Decision Support System

Develop DSS to help water users make informed decisions.

Educational Tools

Create pedagogic resources about aquifer behavior.









Data Protocol

Design collection and screening protocols for groundwater networks.

Not all questions related to groundwater status can be answered with the same data set... else monitoring data are just numbers.

Scope of monitoring will define the layout of the monitoring network, sampling procedure...

Trends

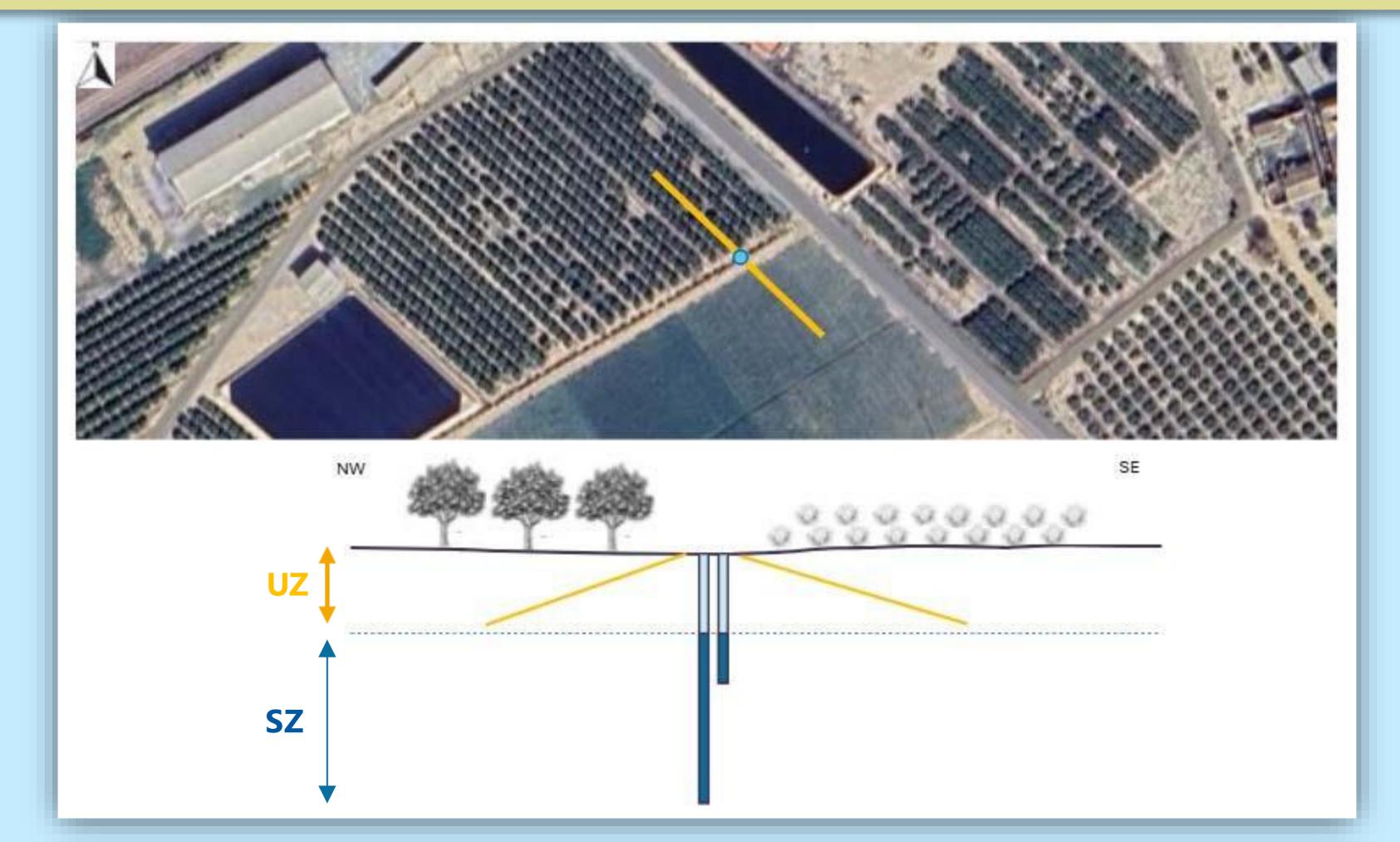
Impacts GGPP

Climate Change



Unsaturated Zone monitoring

Monitoring of the unsaturated zone is essential for protecting groundwater.







Unsaturaded Zone monitoring

UZ monitoring network permits the assessment of variations in nitrate content of recharge water (in the soil) by crop-type and time.

Monitoring results allow us to assess the nitrate flux promoted by rainfall and/or by irrigation infiltration.













nan (s.!.

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Virginia María Robles Arenas v.robles@igme.es



























Software for Environmental Acquatic Solutions

Powered By





Innovative startup connecting corporate sustainability to ocean conservation and local communities.

We enhance companies' **ESG**performance and create value for the territory.

PEOPLE | PLANET | OCEANS

2 4 year
Experience in Blue economy sector

Satisfied clients

15
Impact solutions

> 90% retention



TEAM



Luca Barani Founder CEO

Project manager +15 project managed



Alberto Carpanese Founder CCO/CFO

Economics & BA +5y corporate exp



Francesco Suzzi Founder CSO

4.5 € milion successfully managed from EU funds



Elena Semenzato
Communication
Manager

Social & Marketing specialist +20 business supported



Alex Nicolini Carbon Manager

Environmental engeener + 6y exp



Camilla Bertolini Head of R&D

PhD in Marine Ecology Marie Curie Fellowship +10y research exp



Silvia Santato Partnership Manager

PhD in Management of Climate Change +10y research exp



Federica Mazzanti Project Manager

EUglobal studies



Andrea Massmo Murari Project Manager

Environmental Economist



WHY SEA?

+30%

Global Emission Capture

90%

Excess heat absorbed

3 TRILLION \$

Value Blue economy 2030

149 BILLIONS \$

gap of annual investment to achieve SDG 14 of Agenda 2030













ENTRA IN SEAS 1.0

Email

Password



ACCED

Password dimenticata?

Non hai un account? Registrati

Powered by Sea the Change

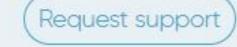
SEAS leverages a proprietary algorithm and two internal methodologies to create a company's ESG strategy matching local community needs.

It also provides an integrated, standardized reporting system, thereby simplifying impact communication and reducing the company's operational complexity.



HOME SEAS





HOME MARKETPLACE DASHBOARD



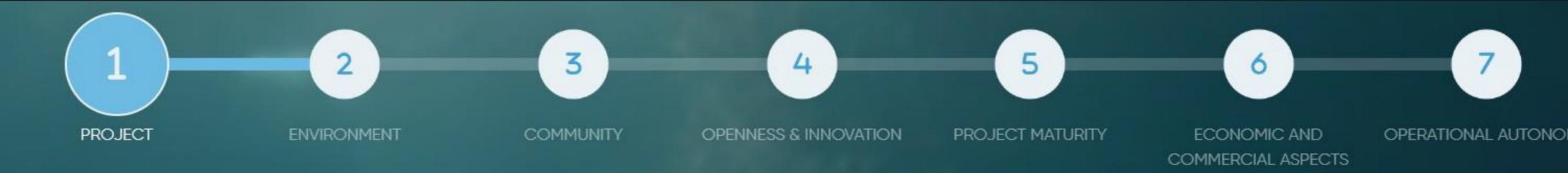




Click on BECOME A PARTNER to join the Sea the Change network



BECOME PARTNER



ECO Index: the assessment methodology

The index provides a scientific, quantitative, and qualitative assessment of the impacts generated across the following areas:

- Environment: environmental impact.
- Communities: social impact on local
- communities.
 Open Innovation: the capacity to generate open and collaborative innovation.

This methodology allows us to precisely match each client with the project best suited to satisfy their specific sustainability needs and objectives.



HOME SEAS

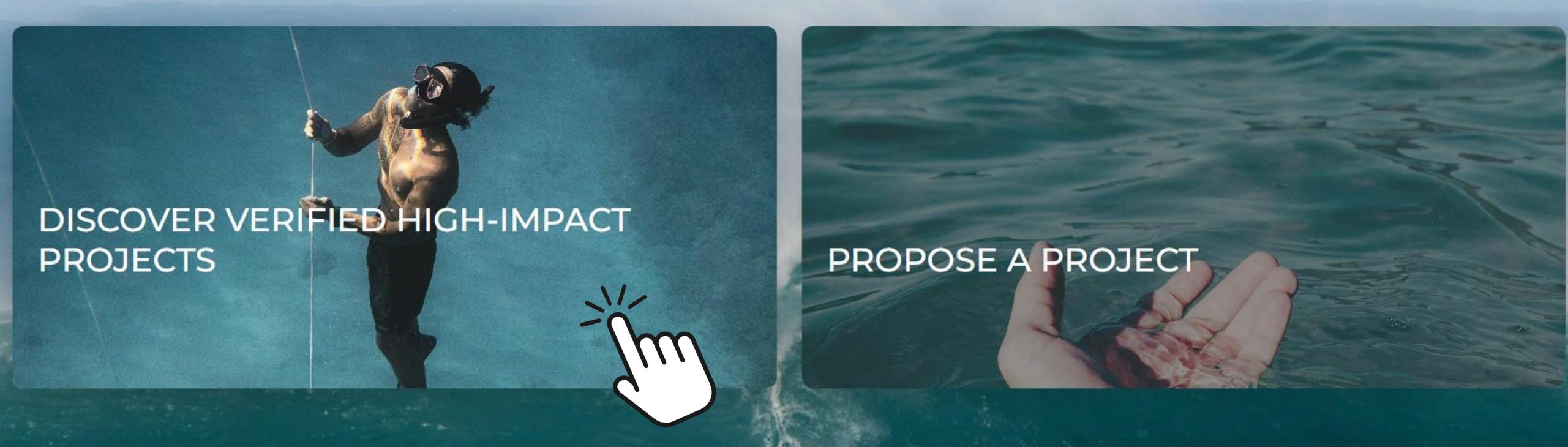












Click on DISCOVER IMPACT PROJECTS to identify the impact strategy that aligns best with your ESG goals.



BUILD YOUR IMPACT PROFILE

ENVIRONMENT

Reduction, protection, regeneration. Where would you start?

SOCIAL IMPACT

Social impact starts with responsible choices.

TEAM

Empower your team to drive positive change.

COMMUNICATION

Transparency builds trust. Who do you want to reach?

IMPACT AREA

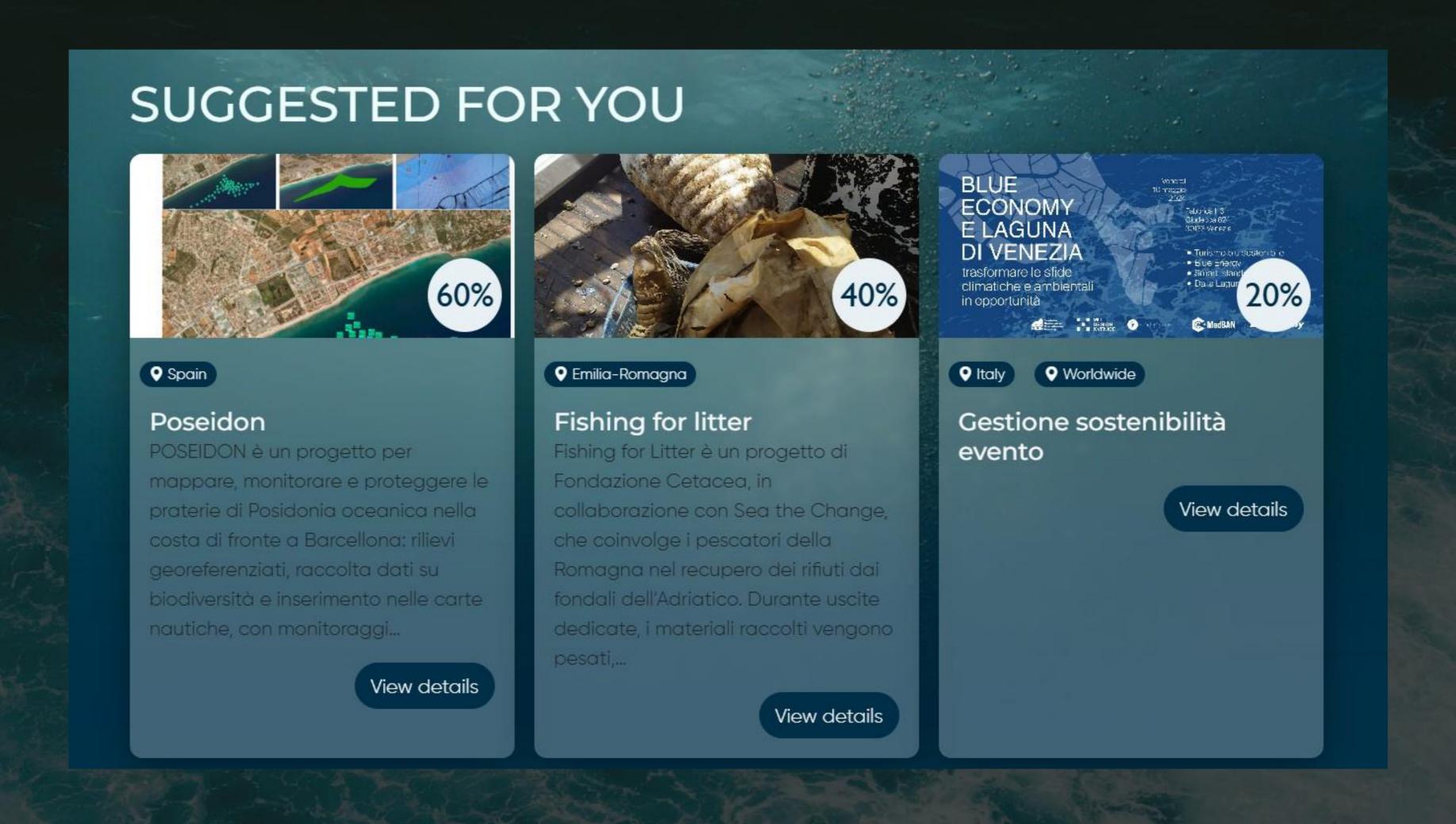
Local, national or global: every action matters.

Answering the questionnaire's questions helps us understand your ESG needs. This enables us to direct you towards the most appropriate impact strategy for your company.



MARKETPLACE

By aligning your responses with project ratings based on the ECO Index, you will identify the projects that are most suitable for your company!





CREATE YOUR OWN STRATEGY

Select the project and complementary services. A consultant will contact you with the best proposal for your company.





DIGITAL TOOLS

In the Sea the Change ecosystem, you will have the opportunity to use digital tools that allow you to boost your sustainability processes.

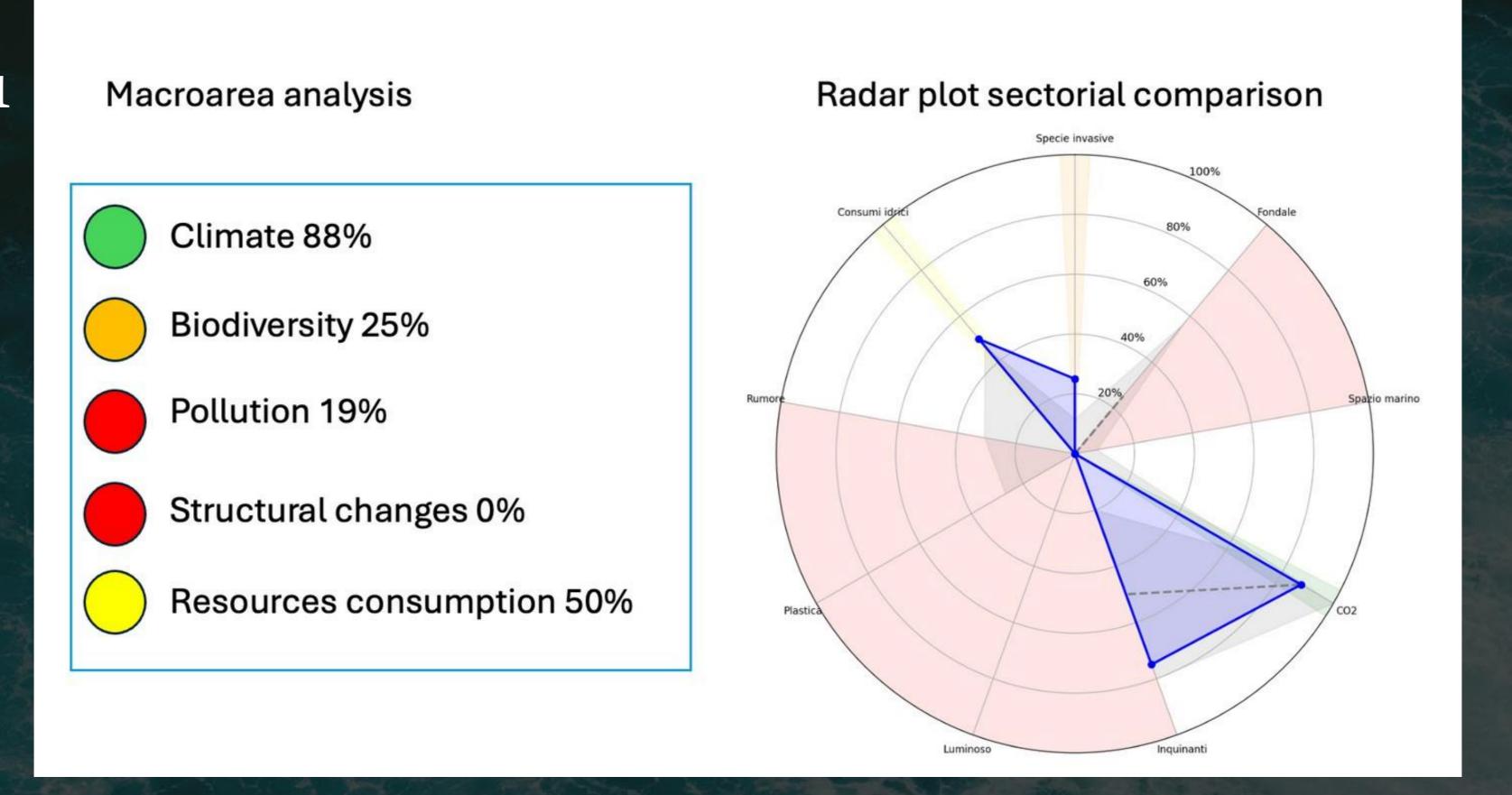
- EVENT CARBON FOOTPRINT
- ENVIRONMENTAL MONITORING TOOL ISO 14001
- SEA FOOTPRINT



SEA FOOTPRINT

This software enables companies to identify their impact on marine ecosystems and develop a delivers a positive environmental, social, and economic return for the company, its stakehold

PHASE 1





SEA FOOTPRINT

Phase 2 represents the next step: a quantitative and time-comparable measurement.

This phase allows companies to:

- Monitor the company's key marine environmental impacts;
- Verify if the current reduction strategies are effective;
- Compare the data with desirable targets (regulatory or scientific);
- Evaluate the consistency of their journey with a tangible environmental improvement.

Progress of the reduction process compared with current regulations

Macroarea	Anno 1	Anno 2	Anno 3
Climate			
Biodiversity			
Pollution			
Structural changes			
Resources consumption			



AWARDS AND NETWORK



























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PARTNERSHIP@SEATHECHANGE.EU



DIVE INTO IMPACTFUL SUSTAINABILITY



ENVIRONMENT • CLIMATE CHANGE

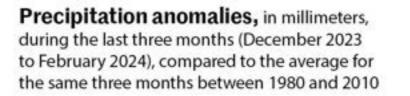
Lasting drought takes hold of Mediterranean region

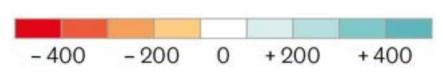
Water shortages are affecting areas stretching from North Africa to Italy, as well as Portugal, Spain, France, Malta, Romania and Greece.

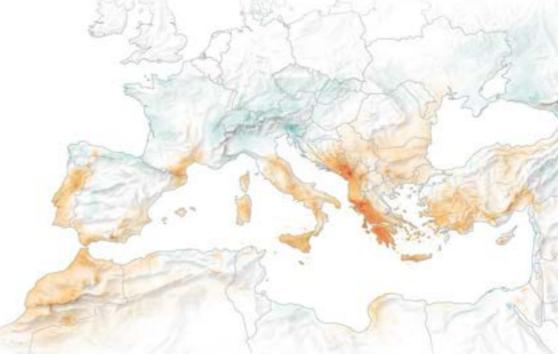
By Martine Valo



Drought in the Mediterranean Basin





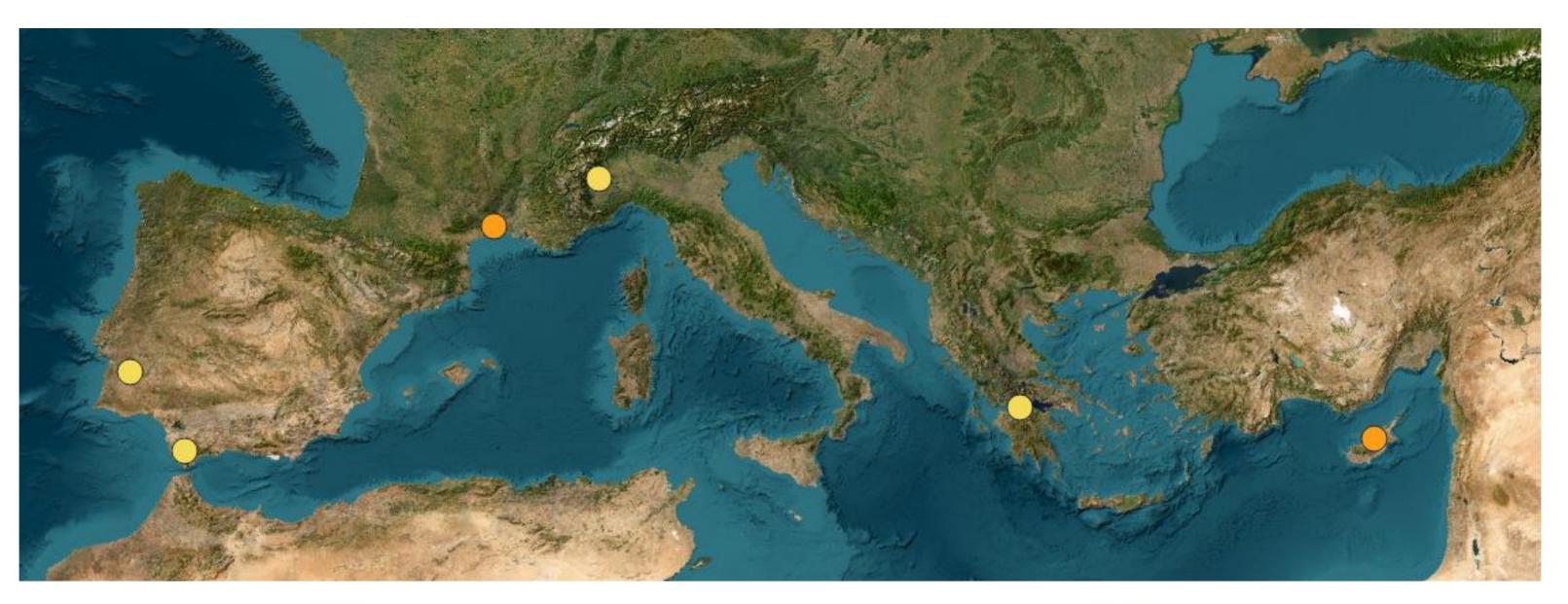














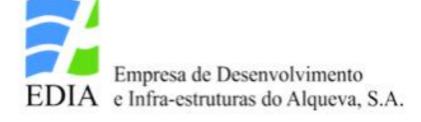


















Visit our website https://germoflife.interreg-euro-med.eu

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Our solution

Vulnerability Assessment Tool

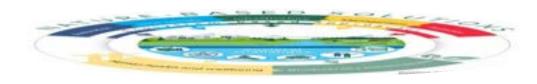


Drought Prediction Tool



Innovation Procurement Platform (Nature Based Solutions)





What type of drought are we tackling exactly?

Selected drought indicators



Meteorological drought (SPEI)



Stressed vegetation (NDVI)

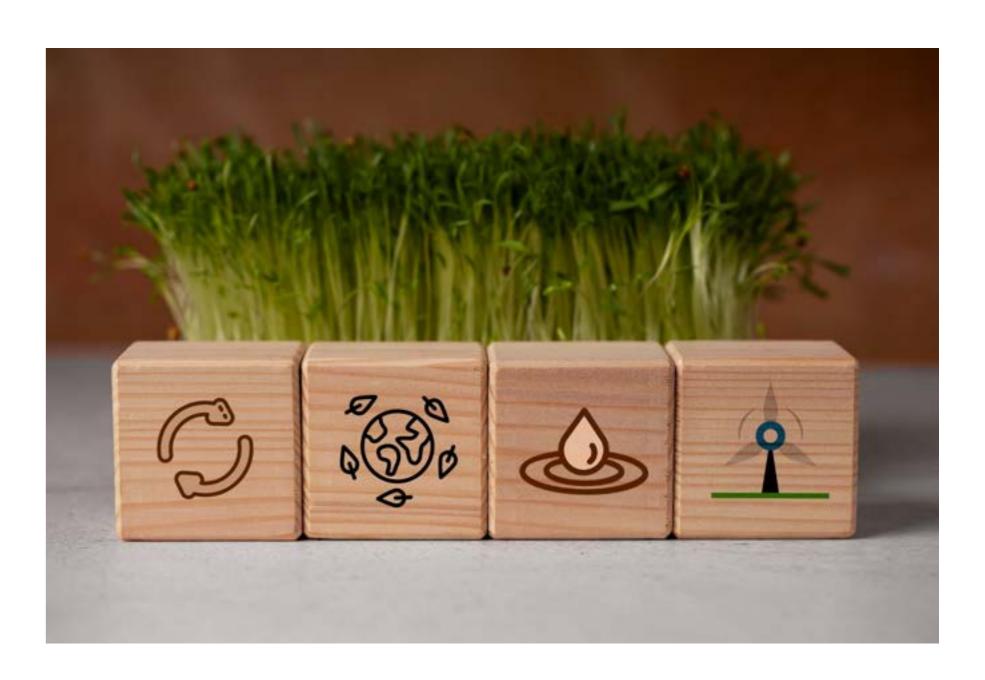


Crop stress
(CW SI)

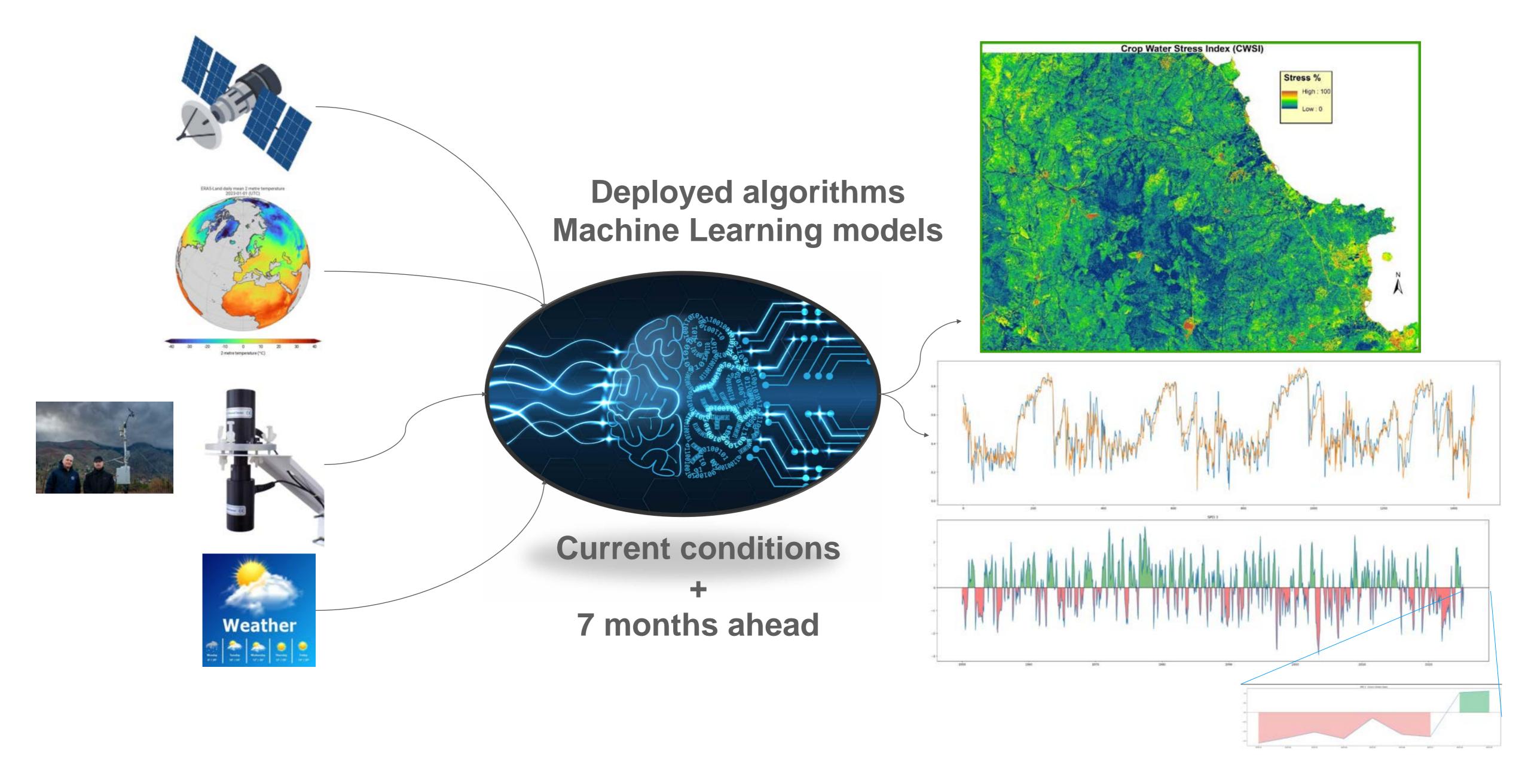


Combined new indicator:

DHI = Drought Hazard Index



How we forecast drought conditions





ITI Água e Ecossistemas de Paisagem

Innovative Sustainable Economy BootCamp

Interreg EuroMED

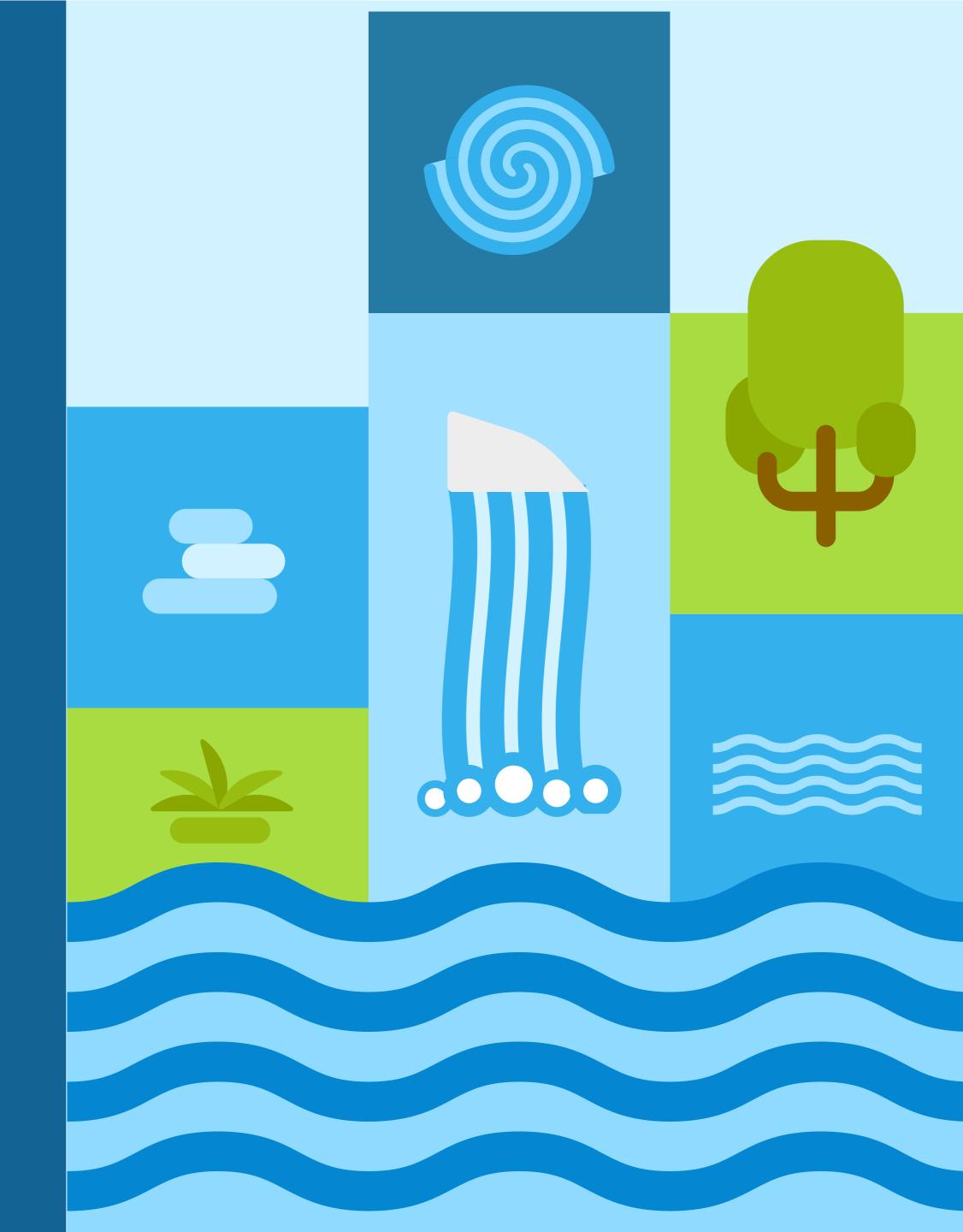
24th of oct 2025











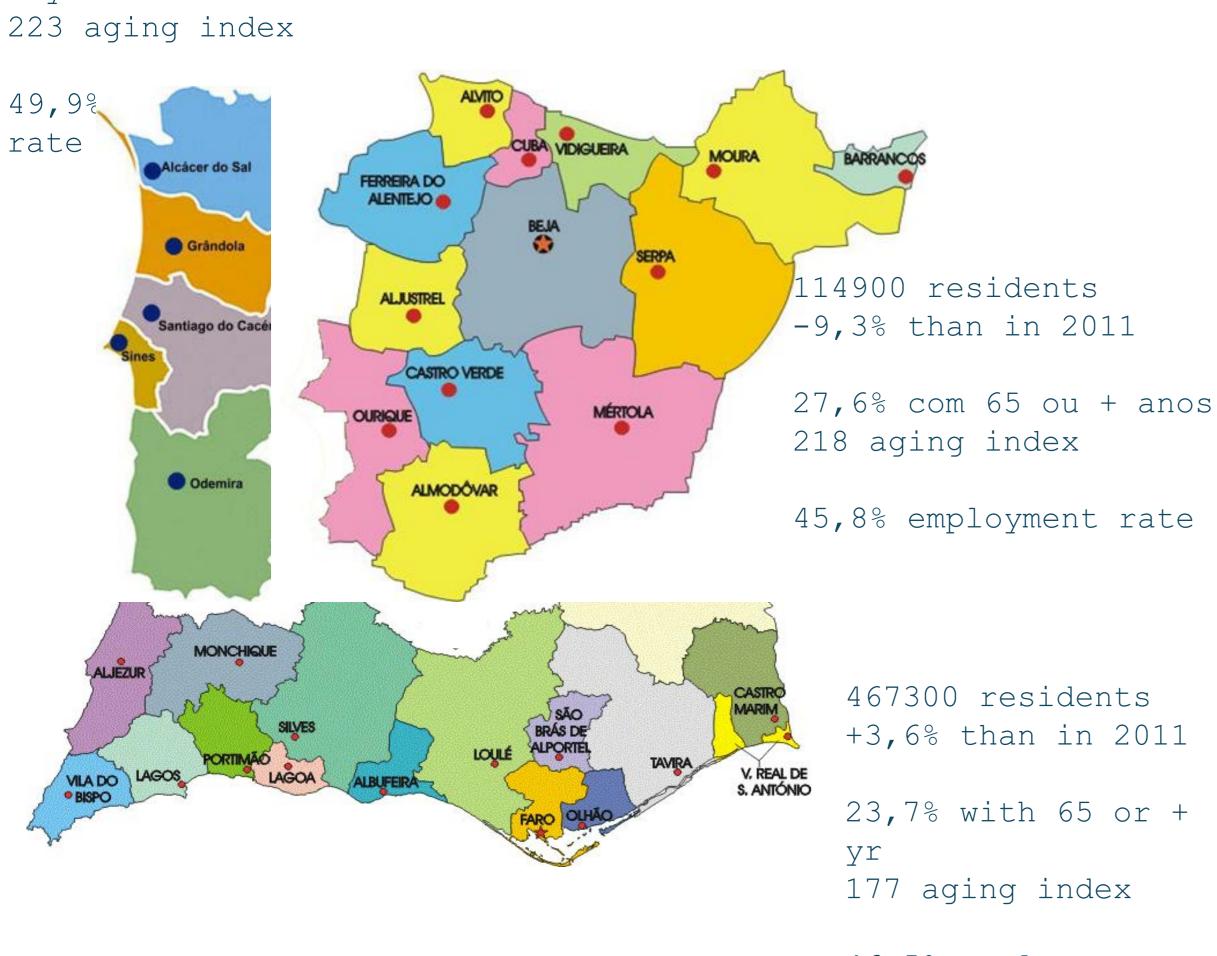
Context Indicators

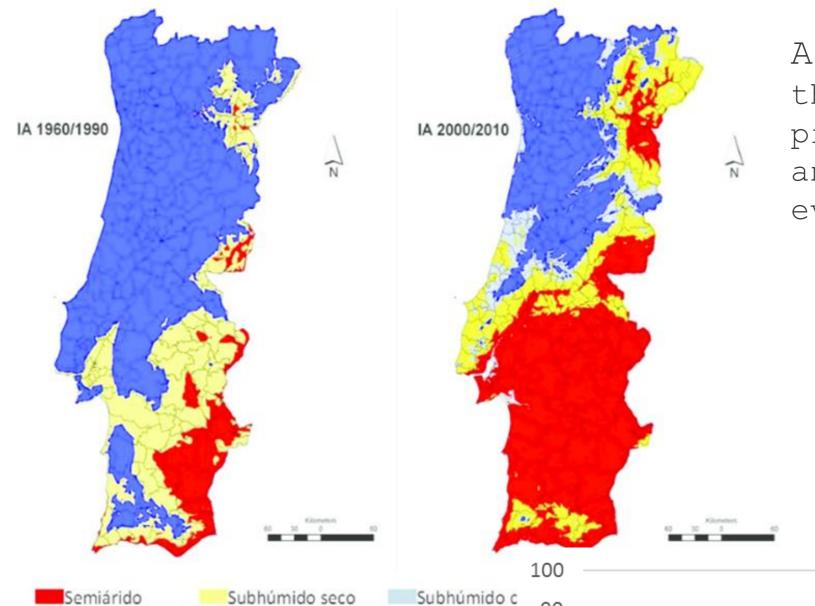


96400 residents -1,5% than in 2011

In 2021: 678.6 thousand residents, 1/4 are seniors

26,2% with 65 or 223 aging index





Aridity index: Evaluates the relationship between precipitation values (P) and potential evapotranspiration (ETP)

Storage observed in reservoirs PETJ BUJJ KATJ WALJ PALJ WAJJ MUJJ MIJJ BEDJ ZETJ OTLJ VOAJ PETJ

in: SNIRH



----Arade (BA)

----Bravura (RA)



——Funcho (BA)

----Beliche (BG)



——Odelouca (BA)

---Odeleite (BG)

46,5% employment

Fonte: Recenseamento da População 2021, INE

Nota: Mapas com escala

- Framework -



RCM 97/2020 of 13 November, in its paragraphs a) and b) of number 9, indicates that flexible models of territorial-based programming can be defined to respond to specific territorial problems, aiming at "solving specific structural weaknesses of certain territories, including economic, social and environmental and, from a selectivity perspective, privileging functional territories for strategies of territorial competitiveness and economic valorization of resources endogenous".

The implementation of structuring strategies and investments should ensure

the involvement

2 NUTS II

3 NUTS III

17 Concelhos

Problems overlap administrative boundaries

Innovative approach in European terms

Background
Green Cord
Project/Cordão Verde















- Strategic Planning-

EREI ALGARVE

SOCIETAL CHALLENGES

EREI ALENTEJO

Economy of the Sea
Endogenous Terrestrial Resources
Health, Wellness and Longevity
Cultural and Creative Industries
Environmental Sustainability
Digitalization and ICT

Climate Change
Circular Economy
Aging
Digitalization
Mediterranean Diet

Sustainable bioeconomy

Tourism and Hospitality

Social Innovation and

Citizenship

Cultural Ecosystems

Mobility and Logistics

Sustainable energy

Innovation | Research & Development | Transfer





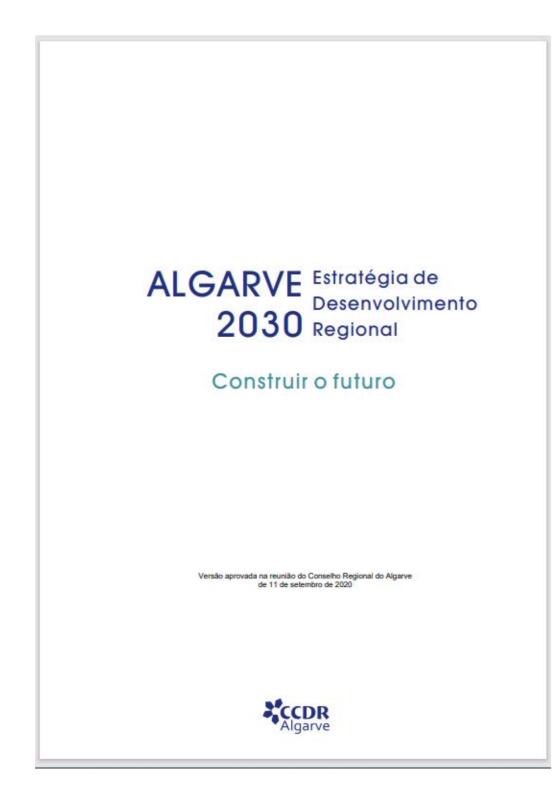


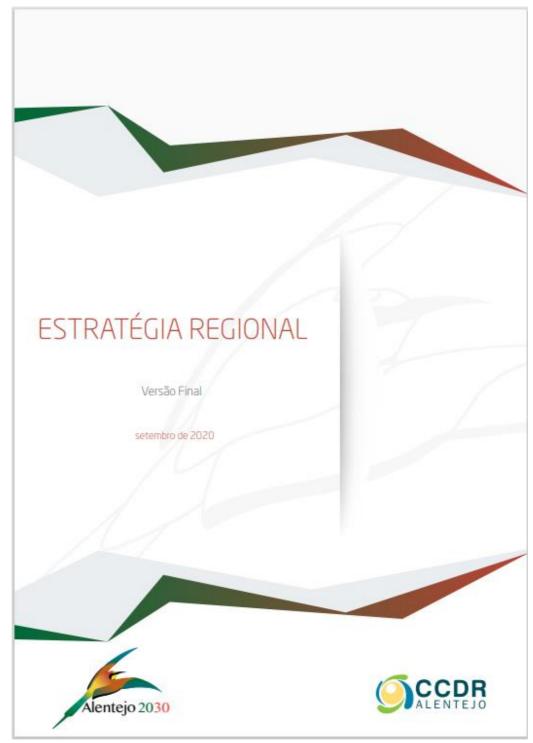


- ITI Água e Ecossistemas de Paisagem -



Action Plan From the Strategy(s) to the Action Plan:









Public Session for the Presentation of the Action Plan, 02 February 2024, Messines











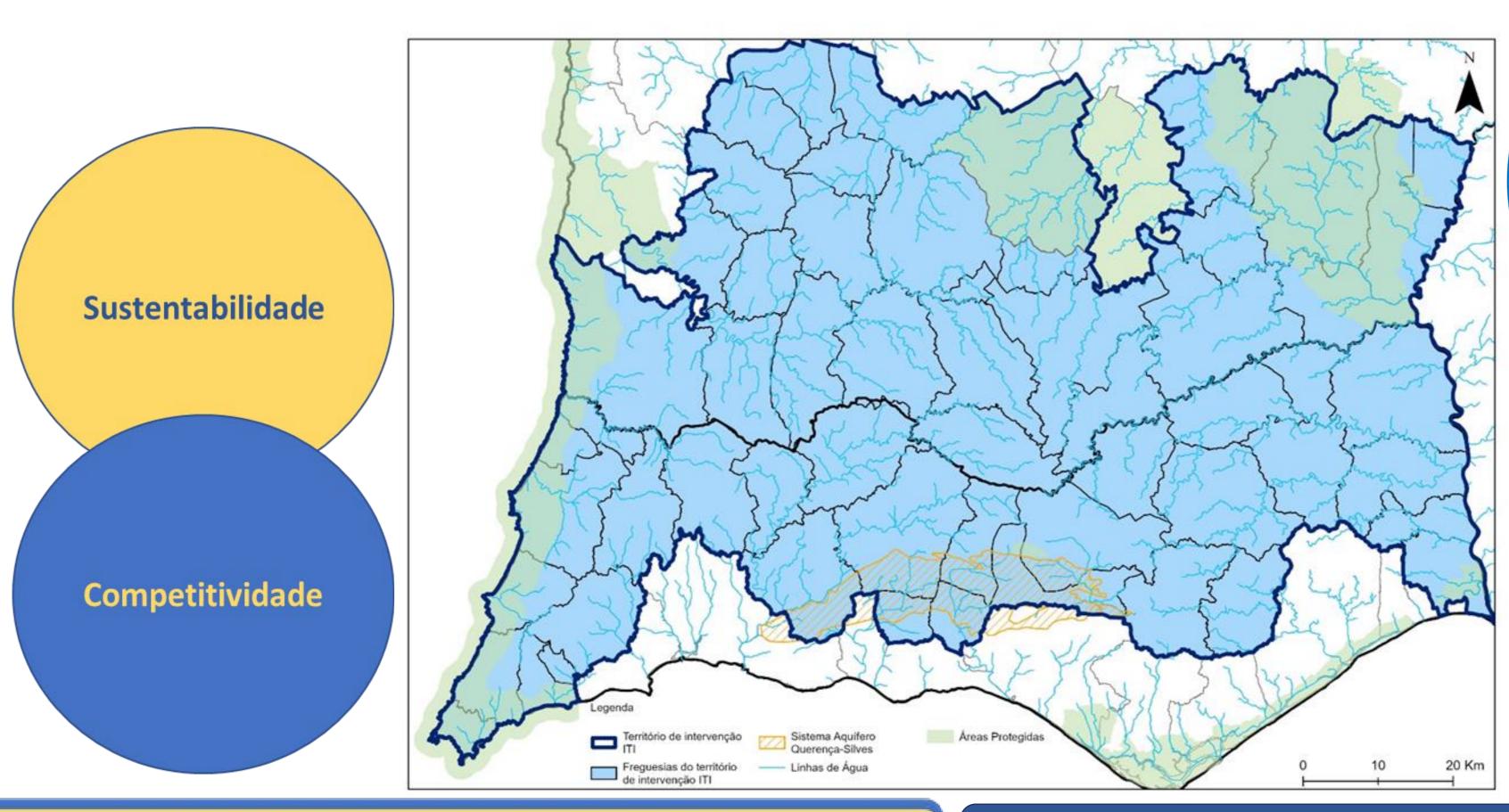




- Theme and Territory-



Water and Landscape Ecosystems



Water and
Biodiversity
Smart Management

ITI ÁGUA e ECOSSISTEMAS DE PAISAGEM | 52,8 M€

77,7 M€ Estimates of investment intentions











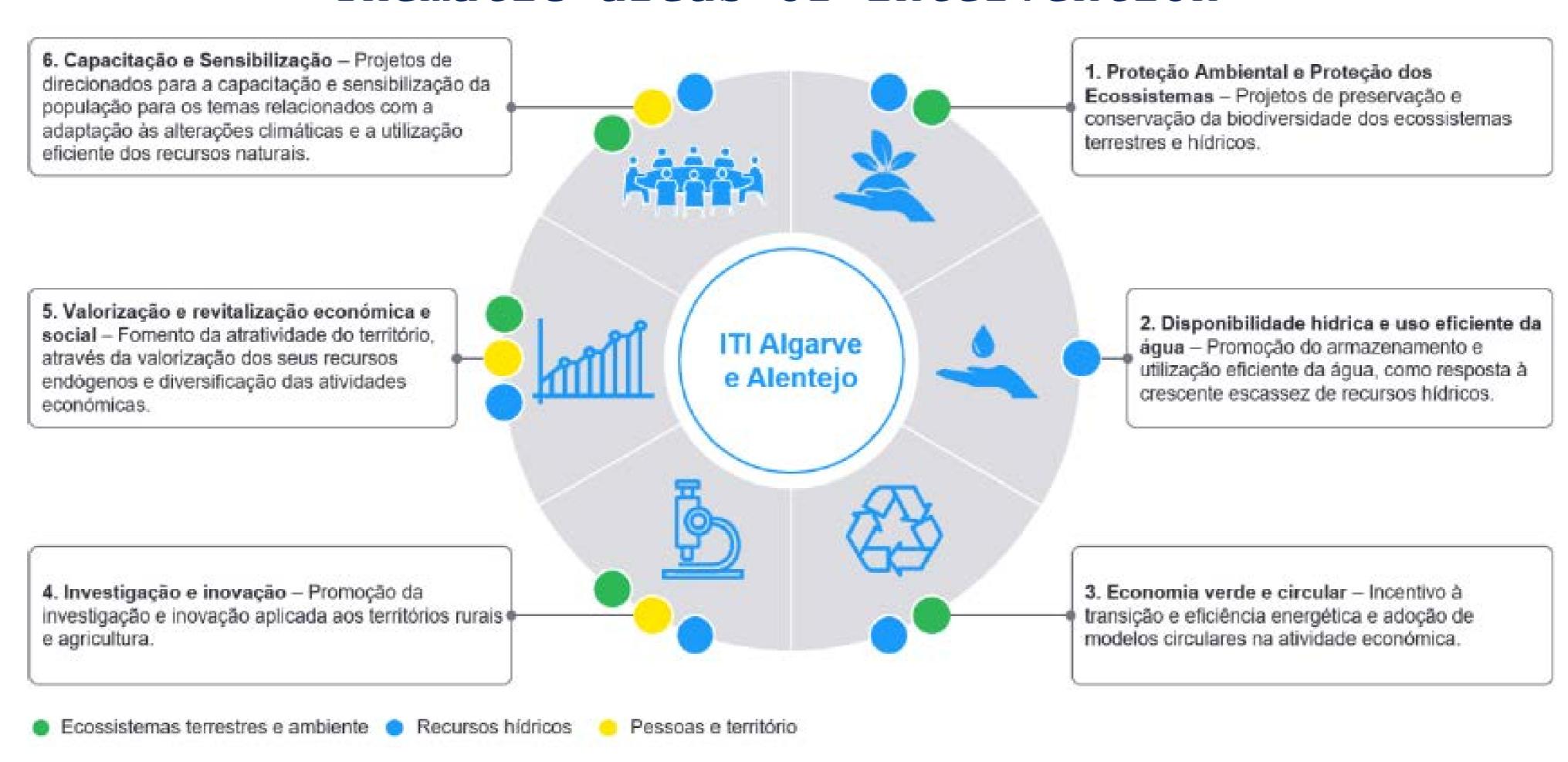




- ITI Água e Ecossistemas de Paisagem -



Thematic areas of intervention



















- ITI Água e Ecossistemas de Paisagem - Action Plan - Participatory Sessions

Santa Clara - Odemira (24/05) Odelouca - Monchique (29/05) Azinhal - Castro Marim (30/05) Paderne - Albufeira (30/05)









Ourique (2/06)



Querença (26/06)









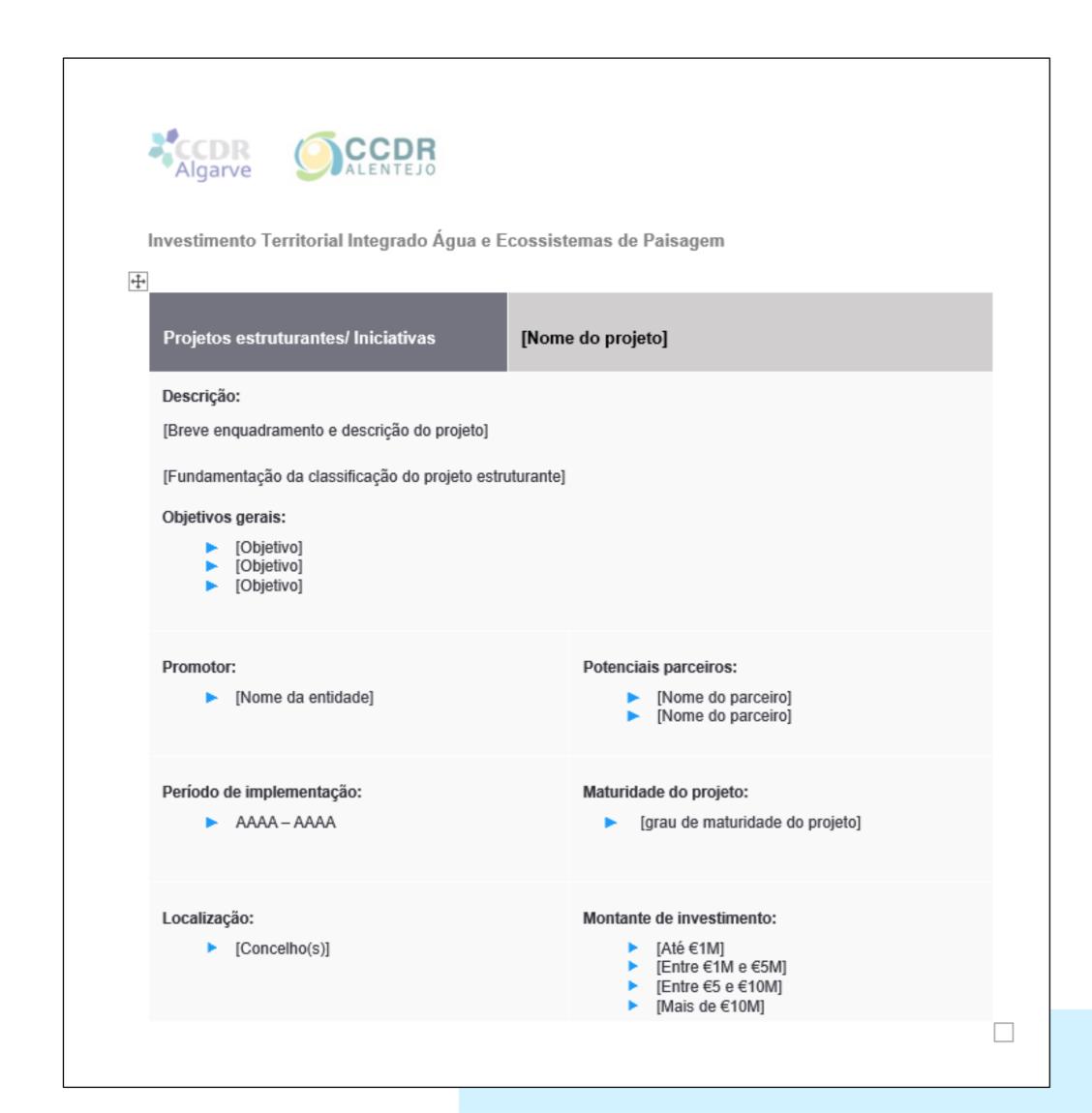






- ITI Água e Ecossistemas de Paisagem - Plano de Ação

Project Sheets - Collection of Contributions





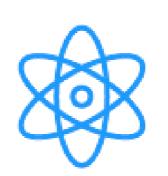
123 entidades que contribuíram para o PA



63% entidades do setor público que contribuíram



25% entidades do setor associativo que contribuíram



12% entidades da academia e centros de I&D associativo que contribuíram











- ITI Água e Ecossistemas de Paisagem | Financing -

ITI ÁGUA e ECOSSISTEMAS DE PAISAGEM |

PR ALGARVE 2030 32,5 M€

PR ALENTEJO 2030 20,3 M€



OE 1.3: Crescimento e Competitividade das PME

OE 1.4: Especialização Inteligente

OE 2.4: Alterações Climáticas e Riscos

OE 2.6: Economia Circular

OE 2.7: Proteção da Natureza e Biodiversidade

OE 5.2: Desenvolvimento Zonas Não Urbanas

OE 2.4: Alterações Climáticas e Riscos

OE 2.7: Proteção da Natureza e Biodiversidade

OE 5.2: Desenvolvimento Zonas Não Urbanas





























CALLS - ALGARVE 2030 Regional Programme



Adaptation to Climate Change ITI Water and Landscape Ecosystems -Algarve and Alentejo.

Call Code: ALGARVE-2025-7

Envelope: €5,500,000

End Date: 2026-03-31

Water Resources Management
- ITI Water and Landscape
Ecosystems - Algarve and
Alentejo

Call Code: ALGARVE-2024-35

Envelope : €8,000,000

End Date: 2025-07-29

Conservation of nature, biodiversity and natural heritage - ITI Water and Landscape Ecosystems - Algarve and Alentejo

Call Code: ALGARVE-2025-8

Envelope : €10,000,000

End Date: 2026-03-31









OPEN CALLS

Alentejo 2030 Regional Program



Water Resources Management (Protection against floods and floods) - ITI Water and Landscape Ecosystems - Algarve and Alentejo

Call Code: ALT2030-2025-6

Envelope: 825 000 €

End: 2025-12-19

Water Resources Management (Monitoring Actions and Studies) - ITI Water and Landscape Ecosystems -Algarve and Alentejo

Call Code: ALT2030-2025-7

Envelope: 1 650 000 €

End: 2025-12-19

Water Resources Management - ITI Water and Landscape Ecosystems - Algarve and Alentejo

Call Code: ALT2030-2024-39

Envelope: 825 000 €

End: 2025-09-26







Governance Model

ITI Água e Ecossistemas de Paisagem

Principles

Organic Structure



strong collaboration,
cooperation and
mobilization of the
various actors involved
with the theme and
present in the
intervention territory.

assume that coherence between the operations to be financed by the Action Plan will be ensured.

Keywords: Multilevel |
Participation | Wrapping
Up | Commitment | CoResponsibility |

Coordination Committee (in place on the 2nd of oct 2024) Advisory Board

Meetings:

Castro Verde - 31 October 2024 (thematic working groups)

- 1 Innovation, research, knowledge, circular economy and business
- 2 Hydrographic Network, protection, resource management
- 3 Climate Change and Terrestrial Ecosystems Water Resources
- **4** Climate Change and Terrestrial Ecosystems Biodiversity and Nature Conservation
- **5** and **6** Cordão Verde Bio-region of the Algarve and Alentejo and Capacity Building

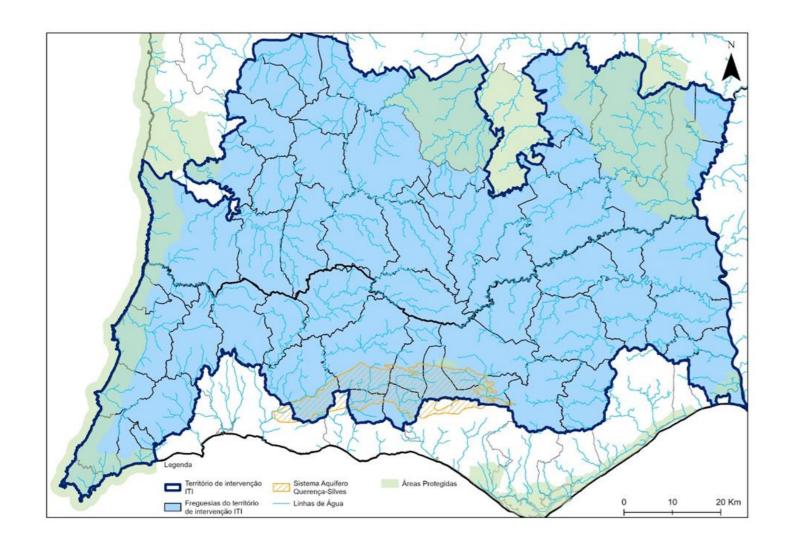
Silves, São Bartolomeu de Messines — 15 January 2025

ALGARVE

10. No 10. No 10. 0005

Monchique - 19 March 2025





Muito Obrigado







2nd Round MED ecosystem & PA regions



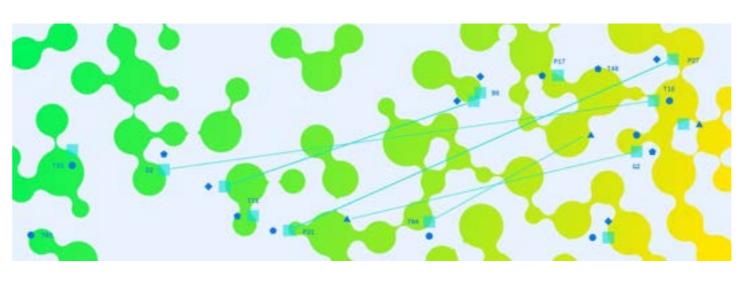














Azores, Portugal Catalunya, Spain Ankara, Turkey







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www.menti.com
1128 9145







Redesigning the Primary Sector for Maximizing Bioeconomy Development





PRIMED at a glance

Title

Redesigning the Primary Sector for Maximizing **Bioeconomy Development**













Partners

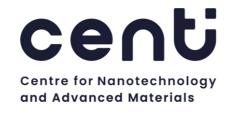




de Catalunya































PRIMED CONCEPT - Multi-actor co-creation approach

Circular Business Models for Bioeconomy Design Lab

Value Proposition Identification

Value Generation

Value Capture



Circular Business Models Navigator

Value Chain Mapping and Development

Conceptual Framework for Analysis Sustainable Value Creation

Systematic Approach for Circular Value Chain mapping based on Multi-Decision Analysis



Value Chain Map

Shared Agenda

Shared Agenda Directionality

Key actors' identification, creation of Advocacy Group

Co-Development of the Shared Future Vision

Definition of a Governance Model



Validation through Open Call - 5 LLabs



Formal Shared Agenda





The aim

To co-create innovative forms of cooperation to integrate primary producers in novel bioeconomy value chains with a multi-actor approach with an Open Access knowledge hub.



Objectives



Demonstration of bio-based processes, process characterization, and impact monitoring.

(Produce 15 high-value bio-based materials and products and validate at least 10 value chains)



Circular business models development.

(10 new bio-based CBMB and 15 value chains)



Lessons learned, policy recommendations, and exploitation.

(project website, open-access repositories, conferences, and 3 policy workshops, and 5 training sessions.)



Creation of the collaborative ecosystem for circular business models co-creation.

(25 workshops, 200 platform users.)



Establishing framework conditions.

(100 researchers using the online Toolbox after the project)





Living Labs

Living Labs

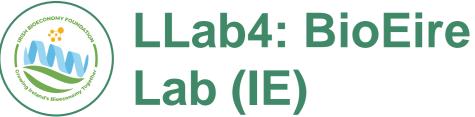


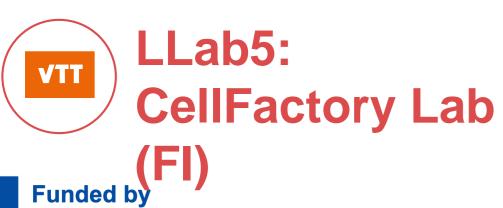


LLab2: Bio-Silica









Biomass sector





Fisheries &

Agri-food





Agri-food





















Fermentation and pyrolysis



























End products





















Shared Agendas development

Table 25. Initial maturity of Living Labs [M4] and definition level of key aspects of the Shared Agendas [M17]. ML: Maturity level of the Living Lab at month 4. CH: Territorial challenges. OP: mapping of opportunities. AL: establishment of alliances. AS: priority assets. FV: future vision.

ST4.1.3. THE SHARED AGENDA DEVELOPMENT									
#	LL	ML (M4)	CH (M17)	OP (M17)	AL (M17)	AS (M17)	FV (M17)		
LL1	ALC	5 - 6	Defined and Prioritized	Broadly Defined	Strong Network	Operational Assets	Validated Shared Agenda		
LL2	CENTI	1 - 2	Key Ones Listed	Key Ones Listed	Connections established	Unmapped Assets	Second draft		
LL3	FILSE	3 - 4	Defined and Prioritized	Defined and Prioritized	Sectoral Networks	Mobilized Assets	First draft		
LL4	IBF	3 - 4	Defined and Prioritized	Defined and Prioritized	Emerging Network	Mobilized Assets	First draft		
LL5	VTT	1 - 2	Key Ones Listed	Key Ones Listed	Connections established	Unmapped Assets	First draft		





OPRIMED)

Redesigning the Primary Sector for Maximizing Bioeconomy Development

CONCAT LL:

Collaborative mONitoring and Climate AdapTation:

A Living Lab for enhancing the resilience of agriculture in Catalonia









Region in focus: Catalonia

	Product	Main Impacts
	Olives	Worst harvest in 15 years; yields dropped by >50%
Between 2022–2024, Catalan agriculture entered a new climate regime	Apples	Yields down 30–40% in Lleida (2023) Quality worsened.
Catalonia's agriculture (20% of industrial GDP) has faced unprecedented droughts and heatwaves since 2022.	Wheat & Barley	Reduced yields up to 40%. Soil erosion and nutrient loss intensified.
The period 2022–2024 registered the lowest rainfall in over 40 years , leading to massive yield losses , particularly in the Ebro basin and Lleida plain.	Poultry	Heat stress episodes increased mortality and reduced feed efficiency and egg production.
particularly in the Ebro bacin and Eloida plant	Aquacultured Fish	Rising estuary temperatures and reduced water quality stressed fish stocks.





CONCAT LL

Collaborative monitoring and Climate AdapTation

A Living Lab for enhancing the resilience of agriculture in Catalonia

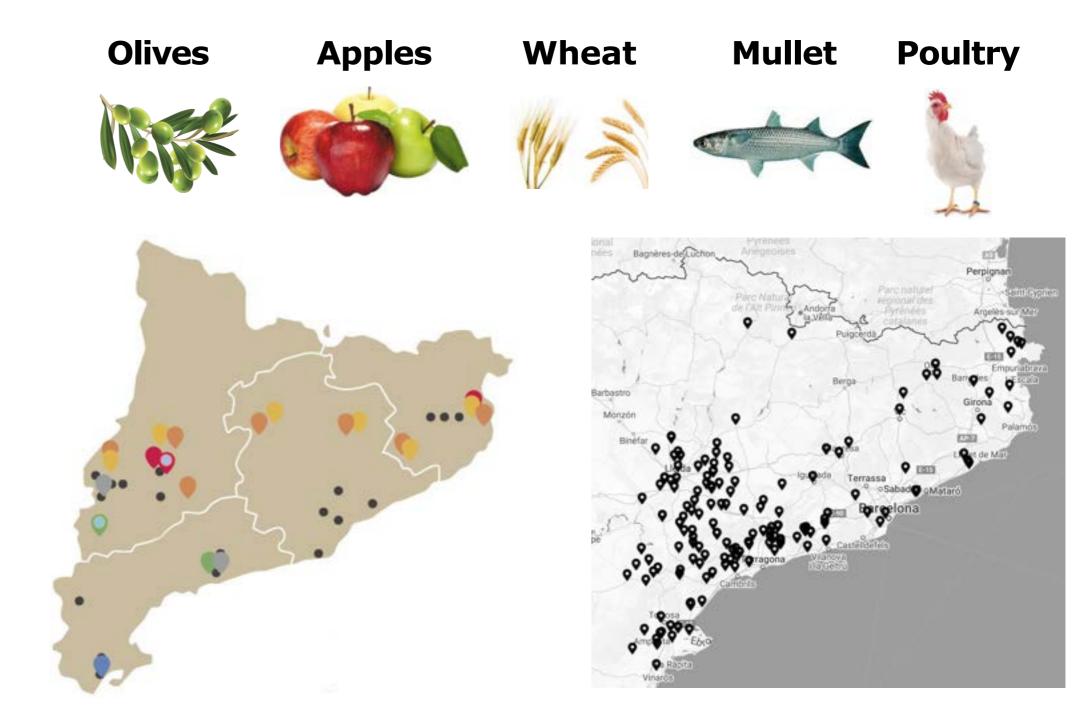
Identify and assess the *vulnerabilities of the Catalan* agri-food sector and system.

Currently centering on **5 products**, joining IRTA's R&D capabilities with the local cooperatives' knowledge.

Develop **climate scenarios** that project the possible impacts of climate change on food security.

Adaptive strategies to address immediate and long-term challenges, with focus on food sustainability and resilience.

Improve agricultural resilience to climate shocks, and develop strategies that reduce climate impact.





Catalan agricultural cooperatives











CONCAT LL Workshop on Resilience and Climate Change Mitigation in the Agrifood Sect

Date: October 3th, 2024.

This workshop aims is to consolidate the Living Lab community to gather the necessary knowledge and information, conduct experiments, and define contingency and action plans.

Program:

09:00 – Reception of Participants

09:30 – Welcome (Jordi Gené, IRTA)

09:35 – Resilience in Catalan Agriculture (Ramon Sarroca, FCAC)

09:45 – IRTA's Role in Agricultural Resilience (Sònia Llorens, IRTA)

09:55 – Introduction to the CONCAT LL (Ayman Moghnieh, Naked Innovations)

10:05 - Introduction to IRTA's Five Labs (IRTA Researchers)

11:00 - Parallel Work Sessions

- Key Climate Change Challenges

- Potential Mitigation Strategies

12:30 – Closing Remarks and Next Steps (Jordi Gené, IRTA)

13:00 – Lunch and Networking

Participants: 31 people

• Farmers / Producers: 5

• Food Processing Companies: 1

• Agrifood Cooperatives and Federations: 5

• Agricultural Technicians: 2

• Agrifood Researchers: 8

• Physics / Meteorology Researchers: 2

• Agrifood Consultants: 4

• Retailers: 1

• Policy-Makers: 3



Understanding Local Challenges: A Tour of Olive Cooperatives

Context and Purpose

CONCAT LL team conducted a tour of olive cooperatives to validate the outcomes of scientific work & workshop:

Main conclusions:

- Farmers remain disconnected from innovation and lack effective support.
- Product valorization is hindered by EU regulations.
- Market access is limited, prices are unstable, and profitability is low.
- Mitigation strategies must focus on farmers' financial well-being and empowerment.



Key Research Results by Product

Olives:

- Set up experimental orchards (Maials, Constantí) comparing Arbequina and 71 native cultivars.
- Identified varietal differences in drought resilience and oil quality.
- Ongoing irrigation strategy trials to optimize water use efficiency.

Apples:

- Conducted climate tunnel and lysimeter experiments simulating drought and heat conditions.
- Discovered **resilient apple varieties** (e.g., *Crimson Crisp*, *Inogo*) with lower sunburn and fruit-drop rates.

Wheat:

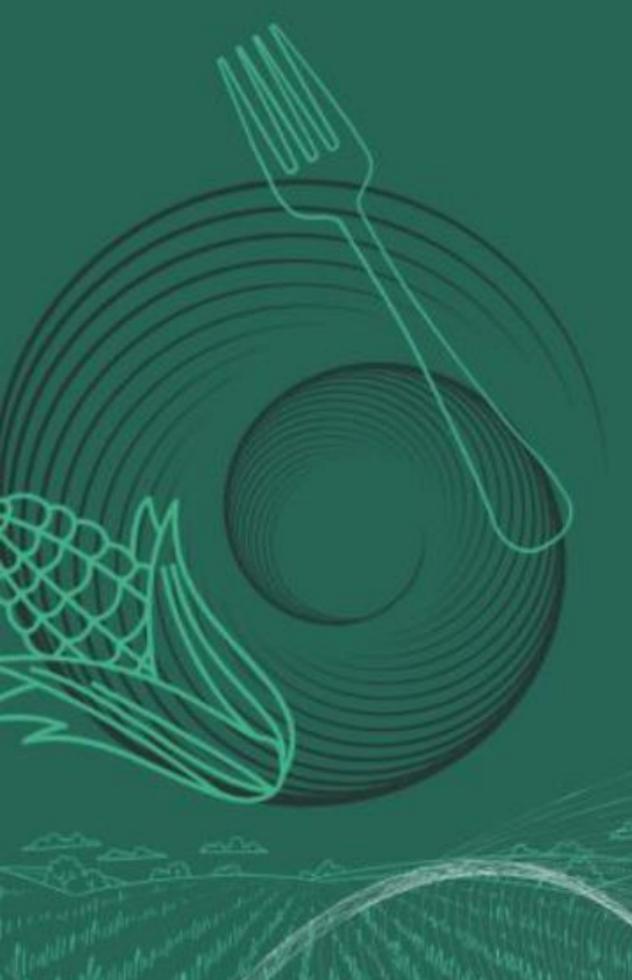
- Multi-location trials across Lleida, Solsona, Girona identified high-yield, drought-tolerant varieties.
- Dataset integrated into the ECO-READY Observatory for climate scenario modeling.

Poultry:

- Developed controlled-environment facilities to study heat-stress impacts on broilers.
- Generated guidelines for improved ventilation, feeding, and housing systems under extreme temperatures.

Aquaponics:

Validated aquaponics as a climate-resilient ffish production model.
 Produced early metrics on water quality, feed conversion, and energy use in integrated systems.



Living-Labs for Mitigating Climate Change in Agriculture

24th - 25th April 2025 Espai Bital, Barcelona EU Living Labs & Associated Stakeholders:

Tech Centres
Universities
Farmers

R&D Projects
Policymakers
Researchers











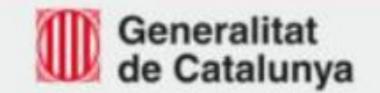


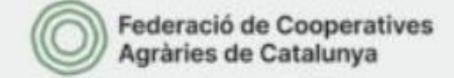












CONCAT's LIGHTHOUSE EVENT

This two-day conference, organized by Naked Innovations, EcoReady, PRIMED, REFOREST, and Interreg Euro-MED flagship projects, with support from key regional and European partners, focused on advancing climate resilience in agriculture and food systems.

The event brought together researchers, policymakers, businesses, and civil society to explore innovative, collaborative approaches through Living Labs.

Key aims included enhancing the agri-food sector's contribution to climate mitigation, and strengthening Living Labs as catalysts for change.

Participants engaged in four working groups on:

- Regenerative agriculture
- Water security
- Nature-based solutions
- Climate-smart food systems & circular bioeconomy

The conference laid the groundwork for future joint action on climate challenges across the region.



Innovative

Interreg

the European Union



Federació de Cooperatives



THE LIVING LAB PROGRAM IN CATALONIA

We partner with a dynamic 4-helix network, combining technical, scientific, social, economic, cultural, business, and legislative expertise, to advance agriculture, agri-food, and bioeconomy in Catalonia.

Analyze the challenges of the territories and regions.

Build a **strong communities** of active stakeholders.

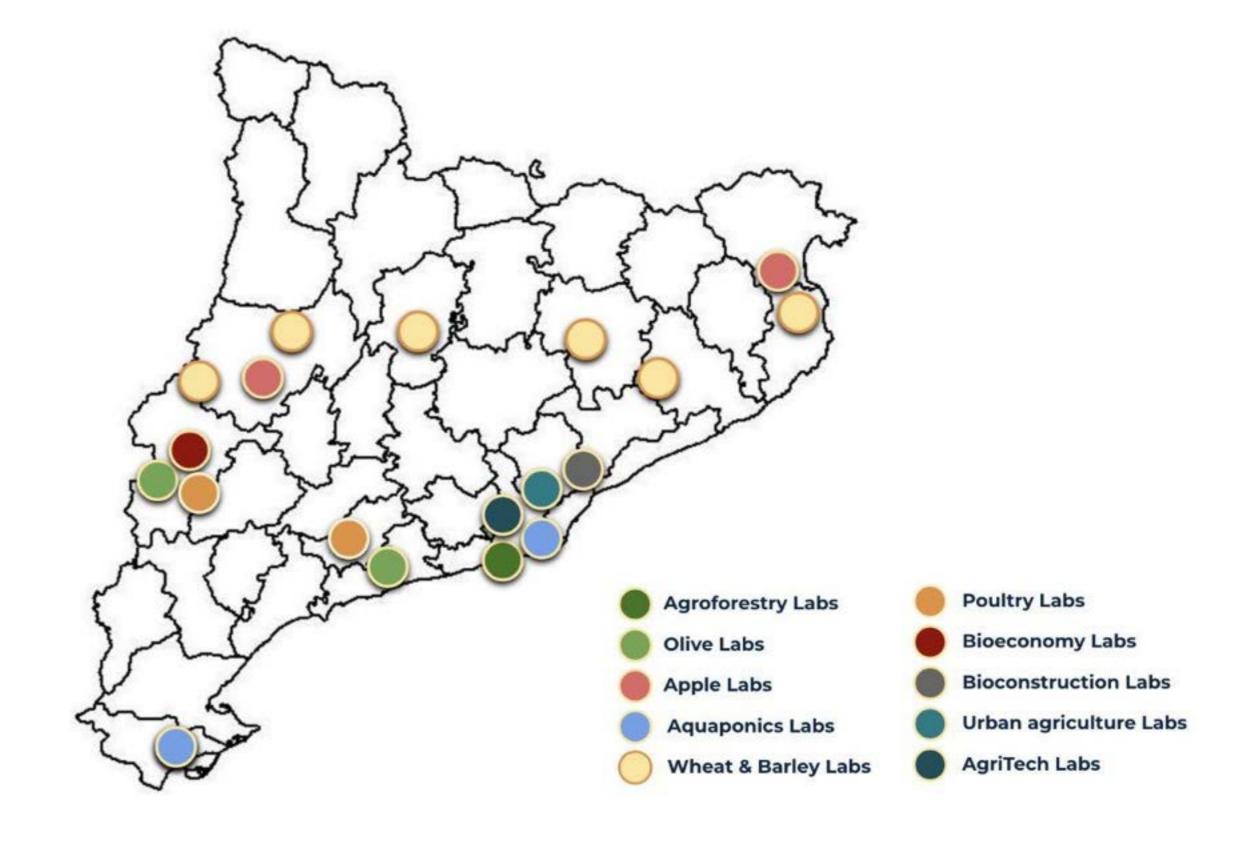
Envision and co-design transformative projects.

Launch strategic pilots to validate impact & scalability.

Facilitate **tech-transfer** and tech adoption.

Exchange knowledge and coordinate actions.

Organize lighthouse events to engage citizens.



Naked Innovations



THANK YOU

For more information on the Living Lab Program ayman@nakedinnovations.eu

Naked Innovations

Pitch Deck | 010

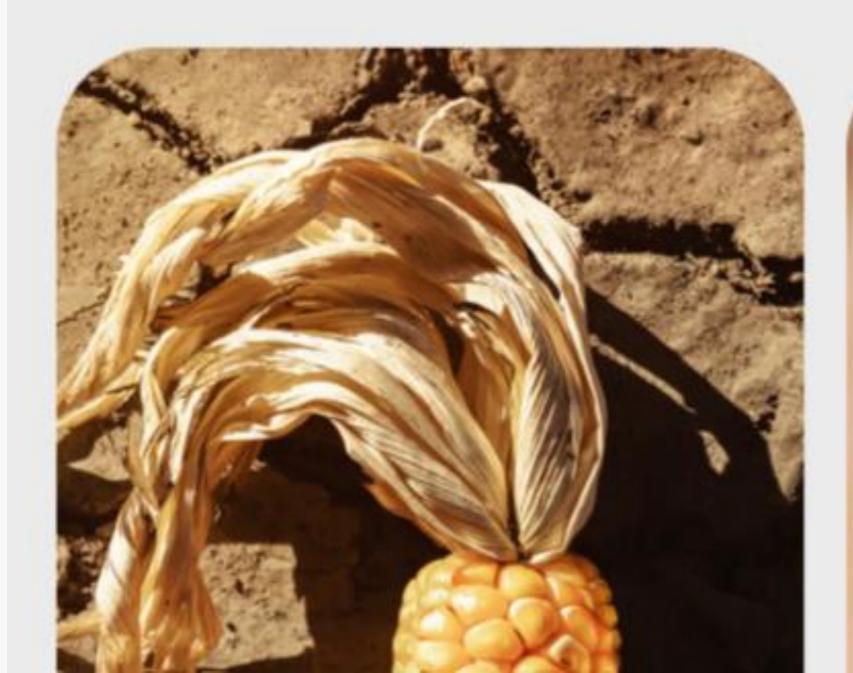




Our societies depend on food and water

This simple truth united 19 Mediterranean countries and the European Union under a shared vision. Thus, PRIMA was born, a single seed sprouting from a common concern.

2018: PRIMA first call of proposals launched







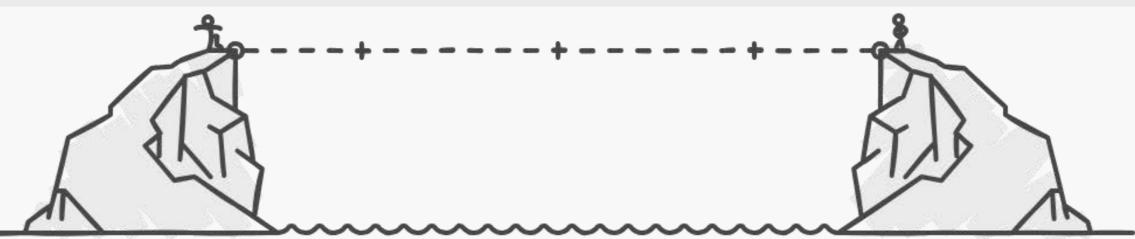
The increased complexity and multidimensionality of the social, economic and environmental implications of agrofood systems and water resources challenges demand an integrated research and innovation approach.

PRIMA connects researchers, innovators, governments, and communities, building bridges that break silos and foster collaboration.















2025: PRIMA has funded 269 projects

PRIMA: a thriving community of 2,500 researchers across 20 countries, united by one purpose: securing access to food and water in the Mediterranean. From that one idea, 269 projects now grow, each turning challenges into solutions:



- Resilient farming systems
- Sustainable water management
- Integrated agro-food chains





A community guided by a common Agenda: The Strategic Research and Innovation Agenda for the Mediterranean

This agenda is the tool that allows us to harvest solutions: by aligning countries, researchers, and projects, it provides the framework to grow tangible, integrated solutions for water, food, and sustainable development across the region.





Impact:

Research and innovation address immediate problems, while anticipating future needs, creating long-term impact across the region.

- 269 projects funded, connecting 2500 beneficiaries, with over €400 million invested
- Local economies strengthened, knowledge-based jobs created
- Food security and sustainable farming advanced
- Science diplomacy bridging EU and Southern Mediterranean countries





The Future

From a single seed, thousands of ideas and solutions continue to grow.







Territories in Action

This is the way

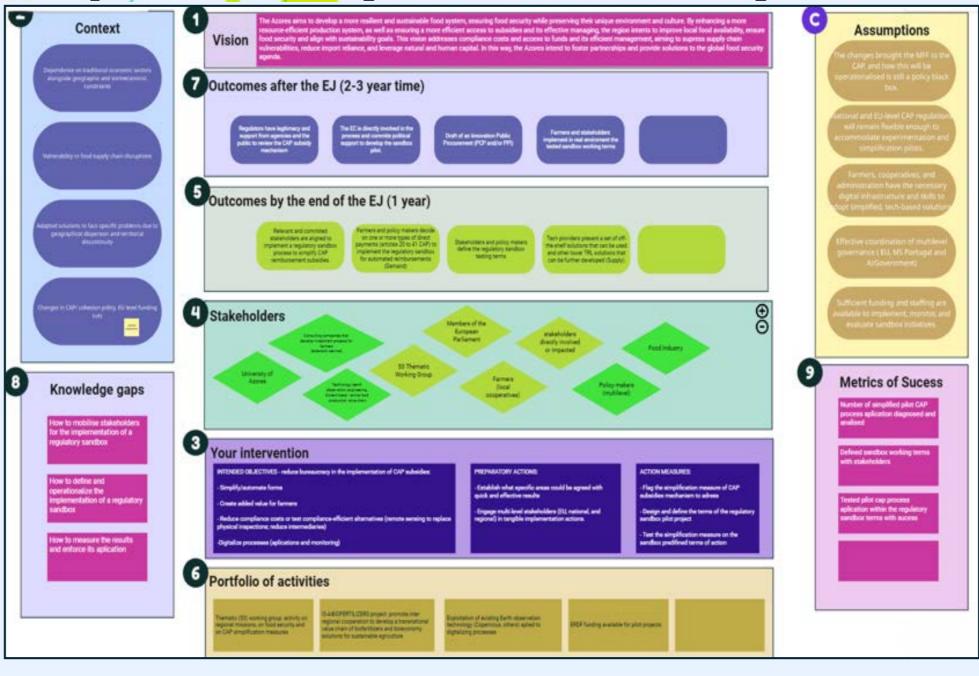
Ana Pereira / Fábio Vieira (DRCID)

ana.cm.pereira@azores.gov.pt / fabio.al.vieira@azores.gov.pt

The Azores is an Atlantic nine-island Portuguese archipelago that aims to develop a more resilient and sustainable food system, ensuring food security while preserving its unique environment and culture. By providing a more efficient access to subsidies, namely eco-schemes, and their effective management, the region intends to improve local food availability, ensure food security and align with sustainability goals, as well as enhance a more resource-efficient production system. In this way, the Azores intend to foster partnerships

Our ToC is based on the premise that simplifying payments under the CAP's eco-schemes using Simplified Cost Options (SCO) and Funding Not Linked to Costs (FNLC), which have already been tested in other EU programs, can attract more farmers to this type of production.

The simplification will enhance the application of a regime that is optional, improving local food availability, ensuring food security and most importantly, aligning with our shared sustainability goals. This alignment will foster a sense of commitment among the stakeholders.



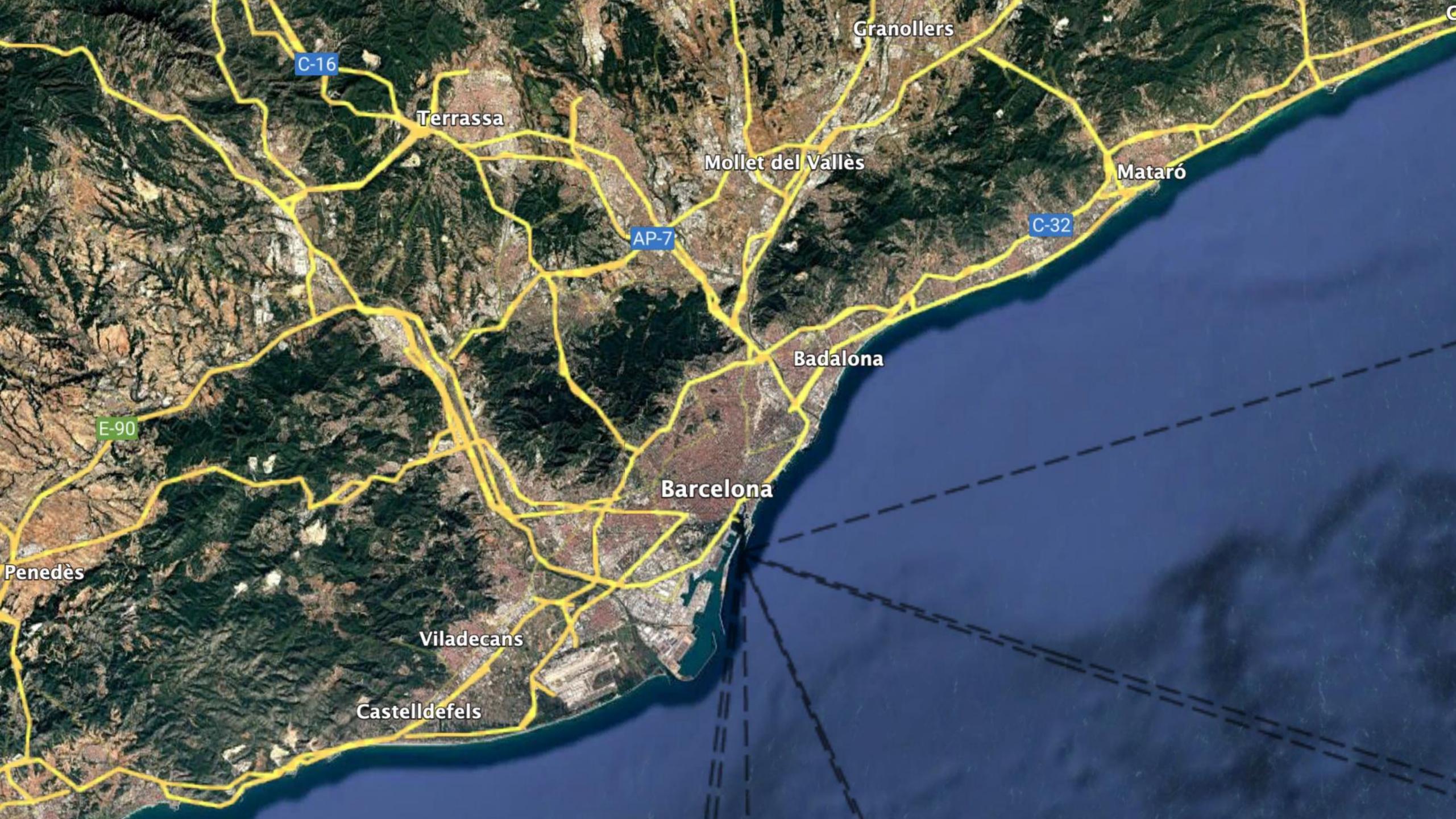
Regulatory experimentations are exceptional and temporary spaces where innovative methodologies and practices are tested before wider implementation. The Azorean regulatory experiment intends to prove that the simplification of payment processes in the CAP's eco-schemes will turn an optional regime into an agent of transformation in Azorean agriculture, making it more sustainable and environmentally efficient.

We have learned that:

- Stakeholders are all interested in focusing on production instead of administrative work;
- Farmers are available to implement the sandboxes and collaborate with authorities to assess their effectiveness
- Significant changes are only possible with a multigovernance engagement at the regional, national and European levels that is very complex to orchestrate.

The following steps are:

- To design and define the exact terms of the regulatory sandbox pilot project;
- To test the simplification measure according to the sandbox terms of action;















Transforming Ankara's Food Systems: From Experimentation to Resilience

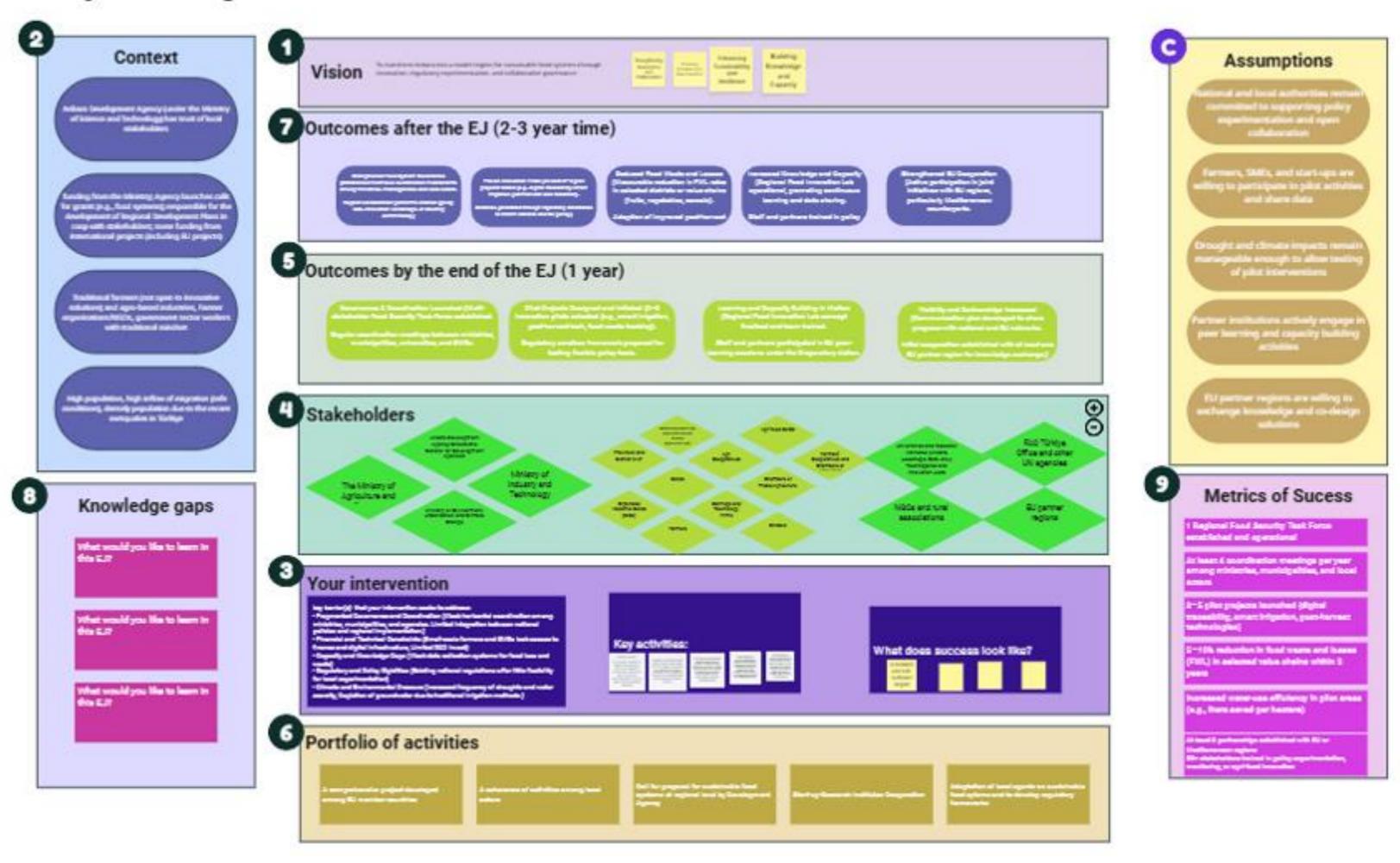
Dr. Coşkun ŞEREFOĞLU







Theory of Change Ankara

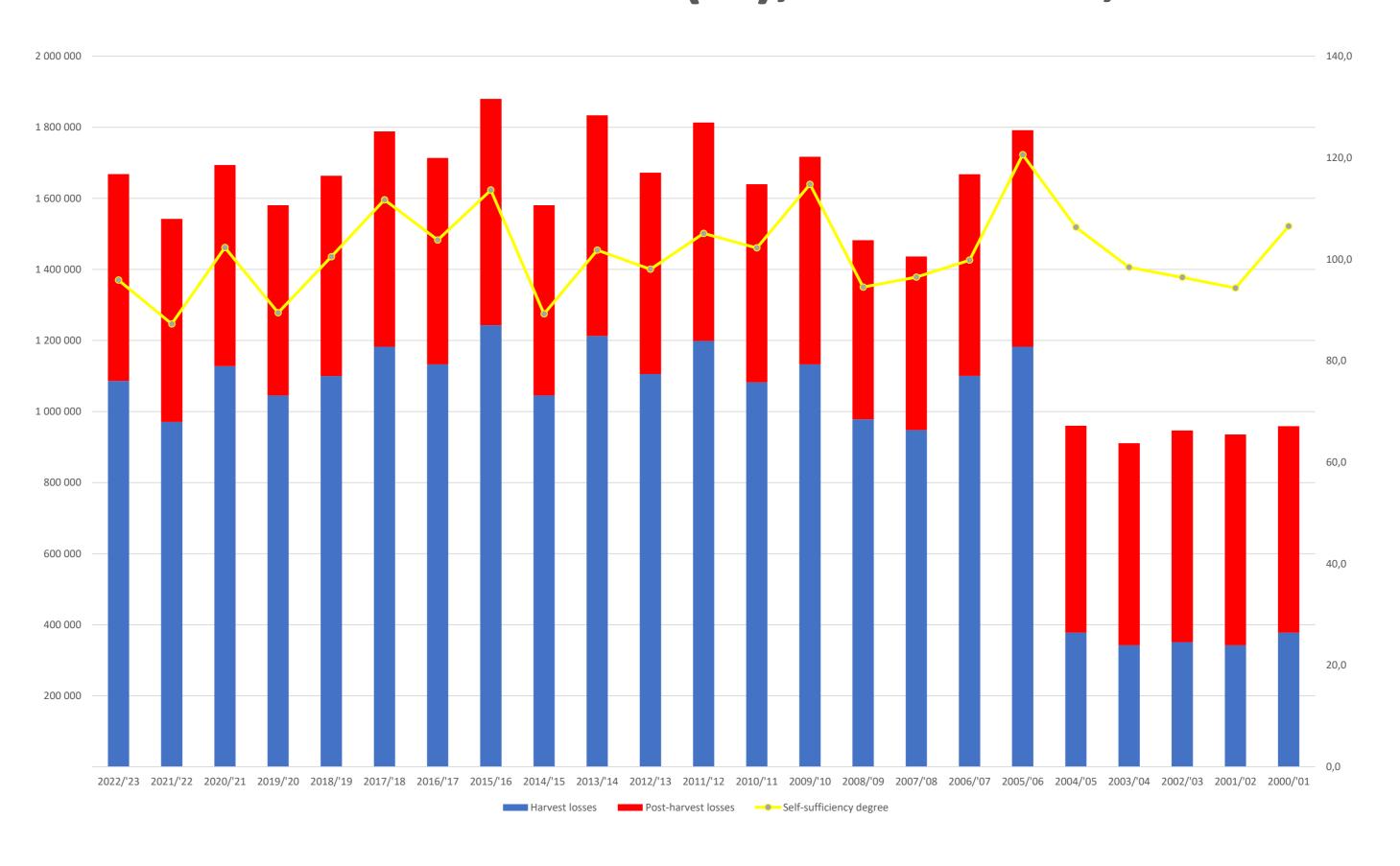








HARVEST AND POST-HARVEST LOSSES AND SELF-SUFFICIENCY FOR WHEAT (%), TURKSTAT, 2024

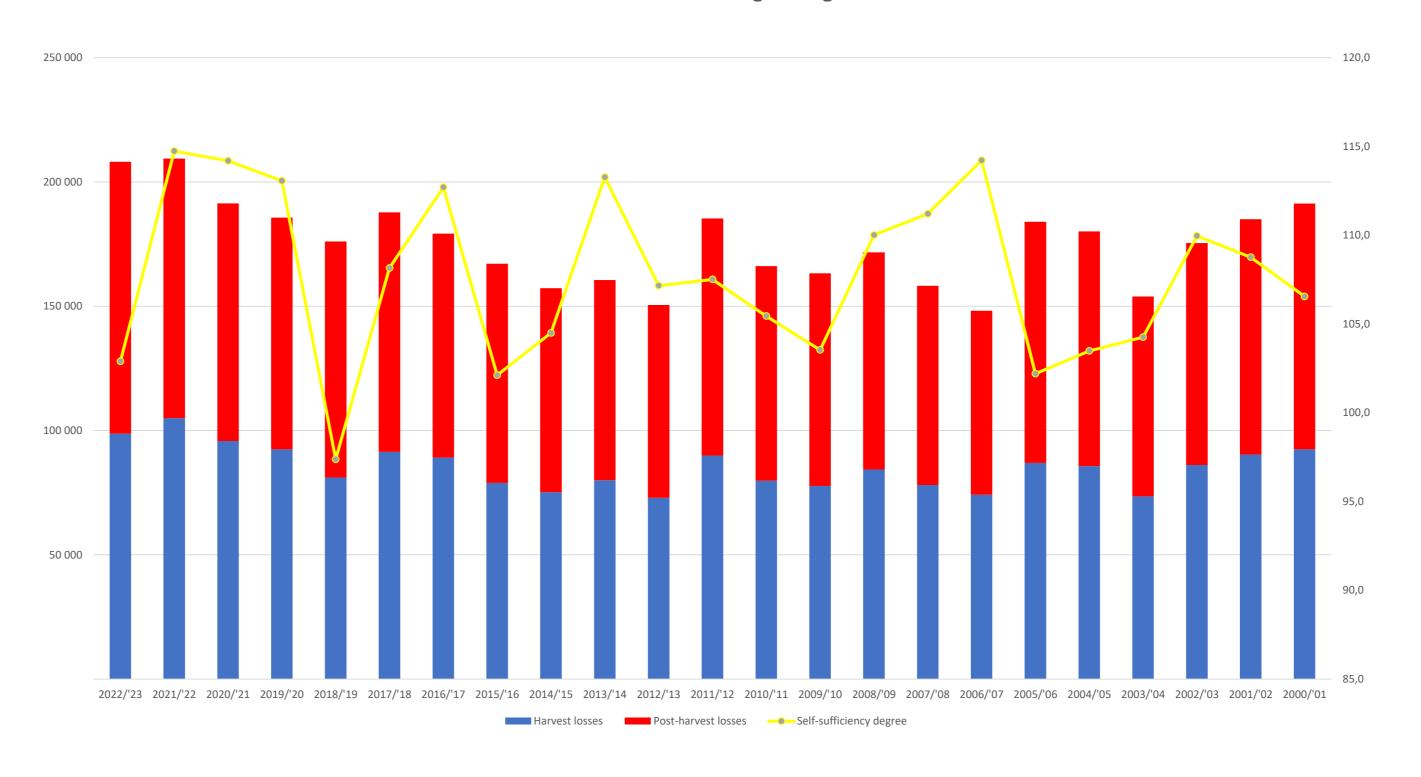








HARVEST AND POST-HARVEST LOSSES AND SELF-SUFFICIENCY FOR ONION, (%) TURKSTAT, 2024



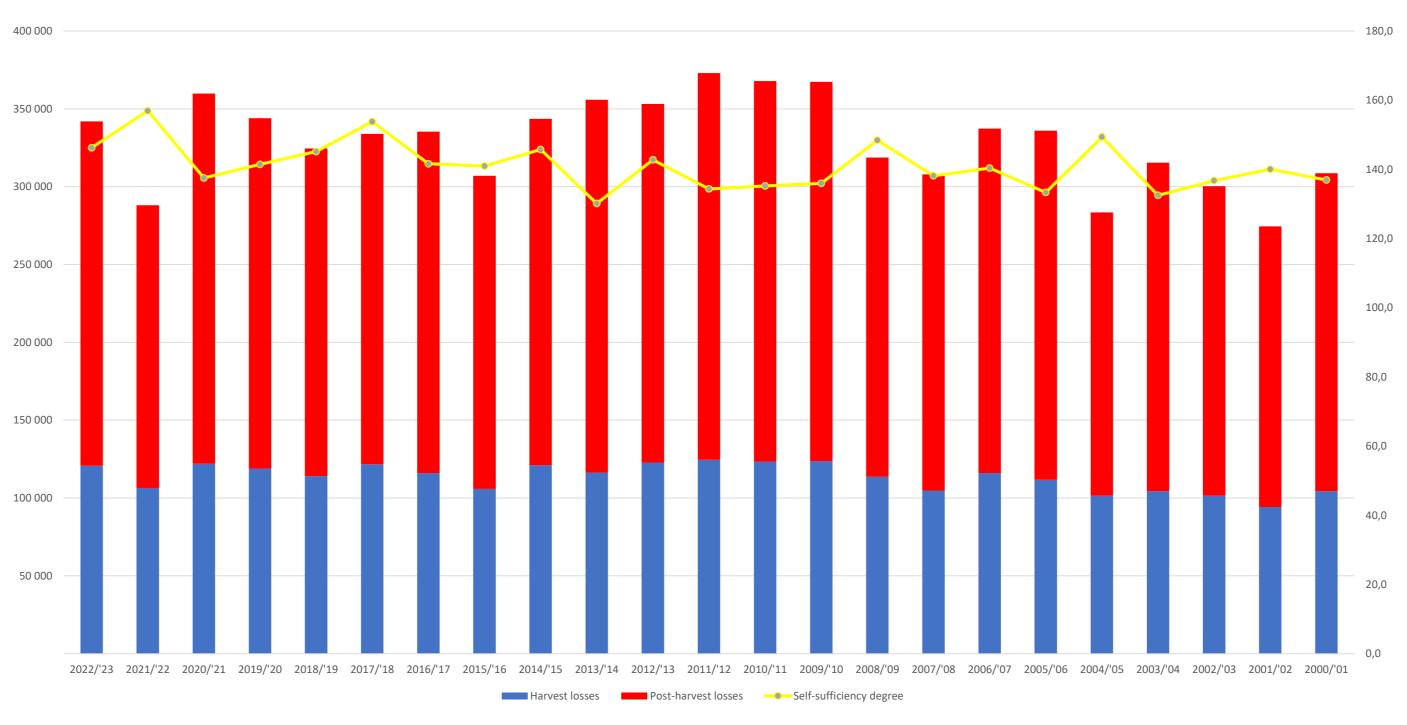
Source: TURKSTAT, 2024







HARVEST AND POST-HARVEST LOSSES AND SELF-SUFFICIENCY FOR ALMOND (%) TURKSTAT, 2024



Source: TURKSTAT, 2024







Objective

Ankara is the capital city of Türkiye located in the central part of
Anatolia The city has a population of 5,8 million.
Ankara is second largest city after Istanbul by population. More
than 92% of the population live in urban areas.
Although the population has increased exponentially, the sown
agricultural land has decreased in recent years.
The rate of agriculture in GDP and employment in agriculture
sector is less than 3% in Ankara.
Ankara is one of the grain warehouses of Turkey and is a leading
region in Turkey for many agricultural products.







Objective

The Ankara Development Agency aims to achieve sustainable food security and resilience against climate change through place-based innovation and collaborative governance. The Theory of Change (ToC) assumes that by **mobilizing local stakeholders**, **introducing technological innovation**, and **aligning regional and national policies**, Ankara can reduce food loss and waste, improve productivity, and strengthen self-sufficiency.







Causal pathway:

Inputs: EU know-how, regional innovation strategies, and local partnerships (municipalities, ministries, universities, SMEs, start-ups).

Activities: Conducting technical support porjects, supporting agri-food innovation projects at pilot level, supporting R&D capacity, testing policy tools, and developing digital and post-harvest technologies.

Outputs: The number of the institutions, farmers, food firms and start ups trained, The number of prototypes validated, improved coordination mechanisms, and evidence from experimentation.

Outcomes: Reduced food waste, increased adoption of technology by farmers and food companies, and stronger collaboration in agri-food systems.

Impact: Enhanced resilience of Ankara's food systems, improved nutrition access, and contribution to EU's global food security goals.







Core assumptions:

Collaboration between ministries, municipalities, and private innovators can localize EU food system strategies.

Evidence generated through experimentation will inform future national and EU-level policies.

Capacity building and policy learning are continuous processes that reinforce systemic change.









Core assumptions:Learning&Next Steps

Collaboration matters – Multi-level governance and cross-sector dialogue are essential to make agri-food innovation work.

Technology must meet local needs – Pilots proved effective only when farmers, SMEs, and research institutions co-created solutions.

Experimentation builds evidence – Testing flexible policy tools fostered data-driven decision-making and adaptive learning.

Next Steps

Launch regulatory sandboxes – To test new governance models on food loss, irrigation, and digital traceability.

Scale cooperation with EU regions – For shared learning, knowledge transfer, and integration into Ankara's updated innovation strategy.

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WORKING SESSION 2







LUNCH BREAK 13:00 – 14:15







PLENARY SESSION Sharing the Innovation Camp results of the Working Groups & Mentimeter





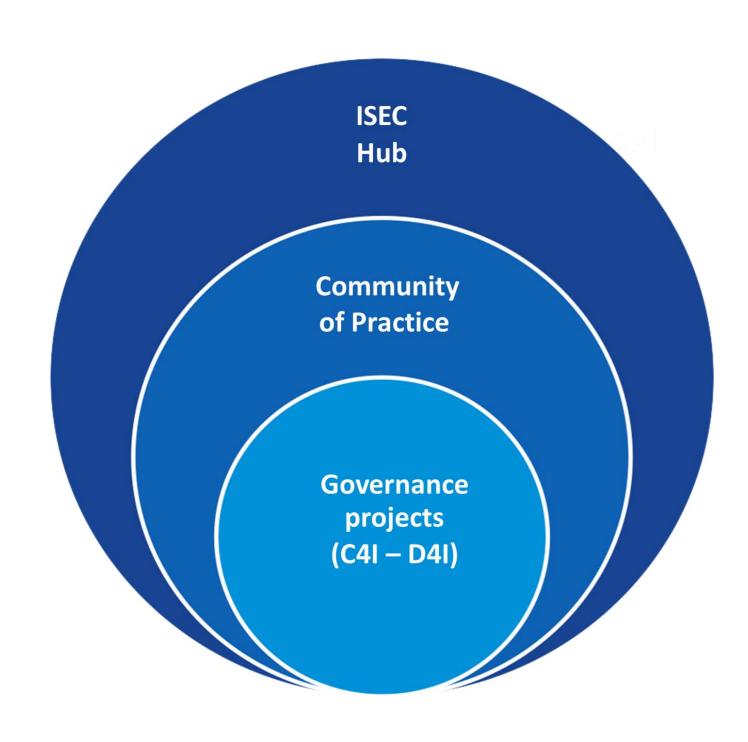


WRAP UP Alessandro Daraio, LP D4I





How to stay connected: ISEC HUB



- Online space + Linkedin group
- In-person gatherings and events

- A meeting place for Quadruple Helix of Mediterranean stakeholders
- A way to connect Euro-MED Mission actors (projects) and external Mediterranean Stakeholders (ONGOING PROJECTS)
- A place to keep former project partners in the Mission community (COMPLETED PROJECTS)

Engage with a critical mass of likeminded people from across the Mediterranean who are working towards the same sustainability goals

KUMU: Online Networking
Directory
LinkedIn Online interactive space

Stay informed about the latest institutional developments, events, and discussions related to Innovative Sustainable Economy

MIRÓ Board : Knowledge sharing space & Rolling Calendar



Access to innovative tools, solutions, and policy approaches that can drive positive change in your local context

Interreg Euro-MED Academy Repo Survey: Tailored- Made mentoring Programs

Encourage and facilitate the development of joint policy documents, enabling collective contributions to the development of coherent and impactful policy messages

Scan 4 Hubs: Hubs Synergies

Programme

Scan 4 Messages: Consultations & Polls







Innovative sustainable economy





https://innovative-sustainable-economy.interreg-euro-med.eu



innovative-sustainable-economy@interreg-euro-med.eu



https://www.linkedin.com/company/gov4innovation/



https://www.youtube.com/@Gov4Innovation

Room Farol TIPLab Methodology

Parallel sessions

Room Deserta Internal meeting for PAs







GOODBYE COFFE



Innovative sustainable economy



