

EXCELLENCE HUB IN GREEN TECHNOLOGIES:  
Introducing innovation ecosystems in the  
Mediterranean food value chain



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# EXCEL4MED

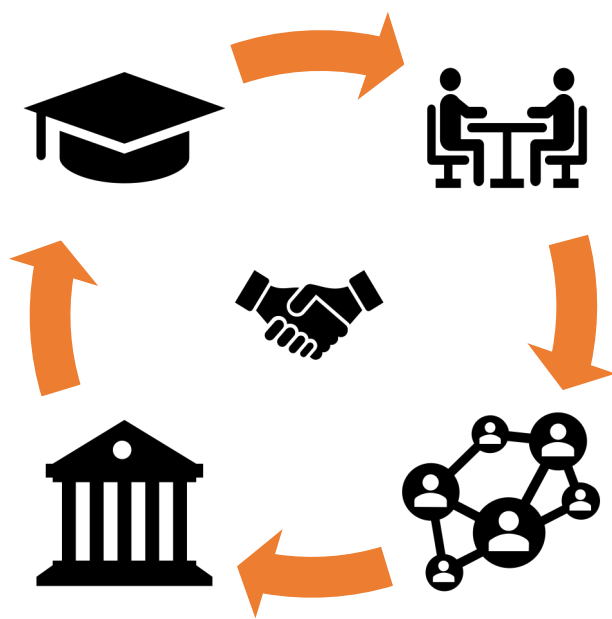
An overview



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# Problem statement

- Lack of collaboration between academia, business, regional government and societal actors



- Lack of innovation ecosystems



Research Institutes /Incubators & Accelerators/Angel Investors/Venture capitalists\*

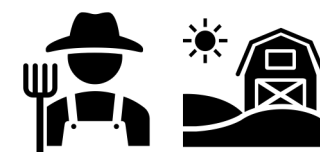
- Interregional cooperation and value chains (Smart Specialisation Strategy): Agri-Food value adding chains

# Problem statement

- Mediterranean Agri-food Supply Chains (AFSC)
  - Climate change and lack of technological innovations
  - Lack of linkages between sciences and business, knowledge transfer, and business models



Perishable food products



small-scale farmers

# Our solution

- Creation of Excellence Hubs in Mediterranean fruit supply chains



Green food process technologies



Sonochemical Treatment



Electrochemical Treatment

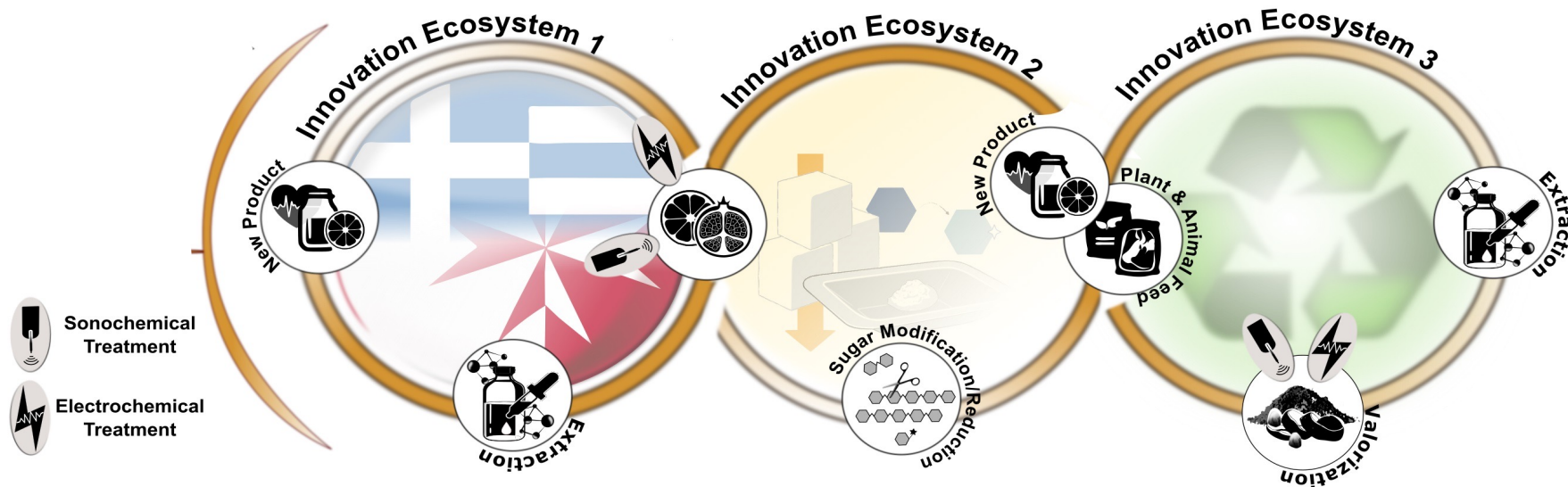
Pomegranate and citrus fruits chains



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# Our solution

- Three placed based innovation ecosystems



**Ecosystem 1: Green extraction process of pomegranate and citrus seed oil for improved fatty acid and bioactive profile**

**Ecosystem 2: Green technologies for juice sugar breakdown conversion**

**Ecosystem 3: Green valorization technologies of side-stream by-products and industrial effluents**



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# Our solution

- Ecosystem interconnected partnership of geographical proximity



Greece – main focus on region of Attica (3.7 million)



The Maltese islands (0.46 million)

International Centre for Advanced  
Mediterranean Agronomic Studies  
(CIHEAM)





# Our solution

- Ecosystem interconnected partnership of geographical proximity

## Greece



National  
and Kapodistrian  
University of Athens



ΕΛΛΗΝΙΚΗ ΔΗΜΟΚΡΑΤΙΑ  
ΠΕΡΙΦΕΡΕΙΑ ΑΤΤΙΚΗΣ

## Malta



L-Università  
ta' Malta



THE MALTA CHAMBER



## France



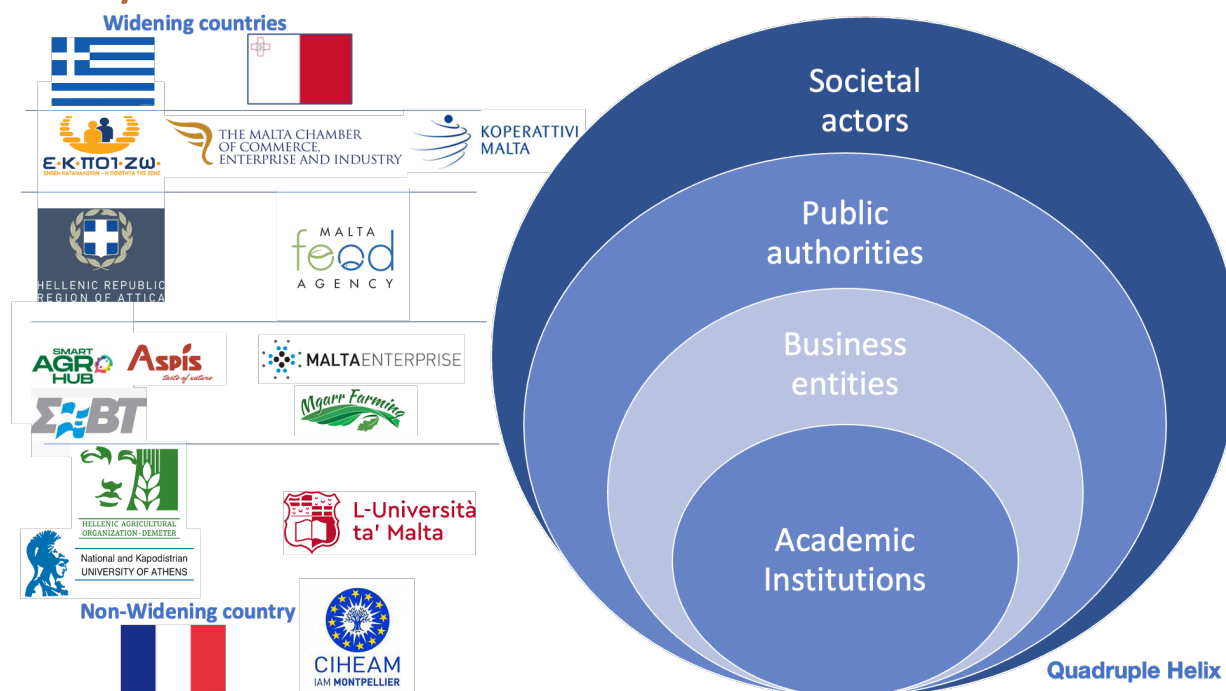
Widening  
countries



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# Our solution

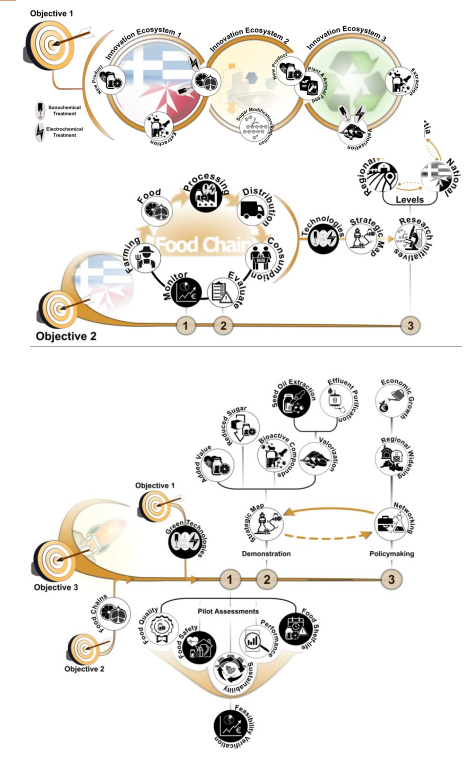
- Quadruple helix ecosystems



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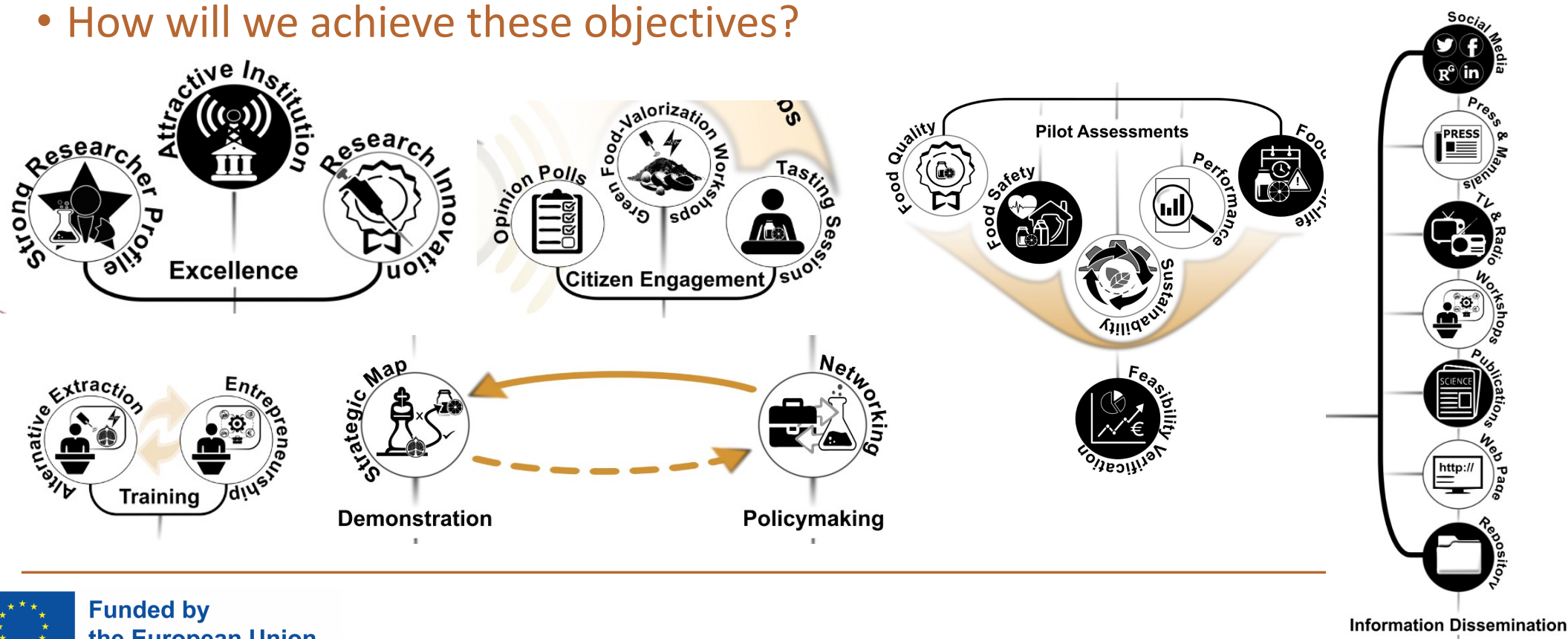
# Our objectives

- O1: To develop excellent and sustainable place-based process **innovation ecosystems in Malta and Greece**
- O2: To create joint **R&I strategies**
- O3: To create **R&I pilot projects** demonstrating food processing and valorization activities
- O4: To create **new business opportunities** especially for SMEs
- O5: To **achieve improved knowledge transfer** and development of entrepreneurial skills

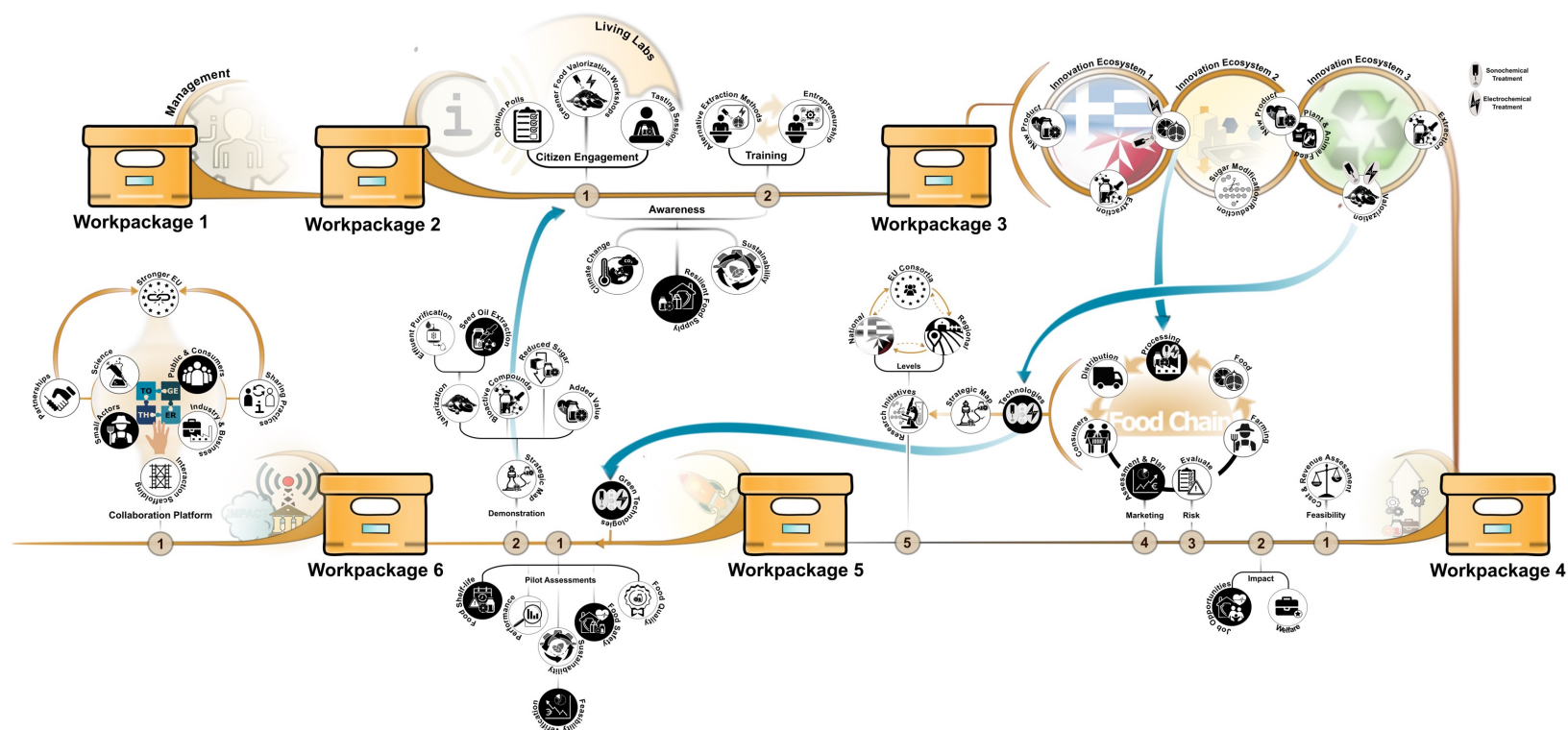


# Implementation

- How will we achieve these objectives?



# Implementation





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