



THEROS project, At a glance

Kick-off Liaison meeting between THEROS, ALLIANCE and WATSON

Ms. Elena Krikigianni (SEAB)
Online, 13th of February 2024



Key facts

Project details and consortium



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THEROS Key Facts



- 🌿 **Project Title:** An integrated toolbox for improved verification and prevention of adulterations and non-compliances in organic and geographical indications food supply chain
- 🌿 **Call identifier:** HORIZON-CL6-2022-FARM2FORK-01-04
- 🌿 **Topic:** “Innovative solutions to prevent adulteration of food bearing quality labels: focus on organic food and geographical indications”
- 🌿 **Duration:** 01.01.2023 - 31.12.2025 (36 months)
- 🌿 **Funding scheme:** IA – Innovation Action
- 🌿 **EU contribution:** EUR 3,999,961.00
- 🌿 **Coordinated by:** Institute of Communication and Computer Systems (ICCS), Greece



THEROS Consortium

- **4 Research Institutes & Technology Organizations** (ICCS, AUTH, JSI, CERTH)
- **4 Control and Certification Bodies / Authorities** (ELGO, OCS, KIWA, BIO-HELLAS)
- **5 Large Enterprises & SMEs** (NTT DATA, SINERGISE, EBOS, SEABILITY, WRLS)
- **1 Regulatory Council for a DPO** (MEXILLON)
- **2 Retailers / Wholesalers** (UNIVER, SUMAVA)
- **1 Cooperative and Producer Association** (BIO-NET)



6 Participating Countries



17 Partners



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Kick-off Liaison m

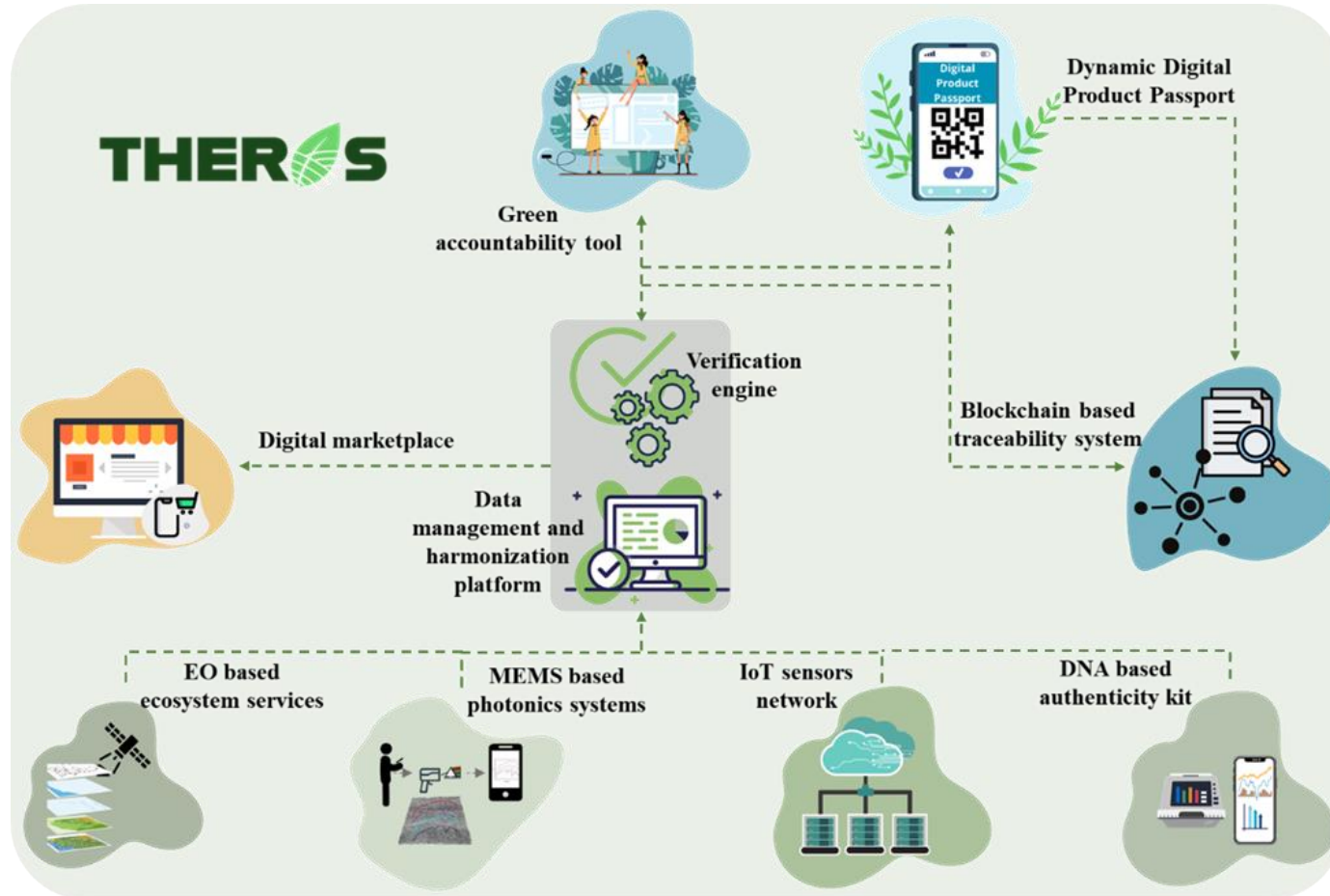
Concept

Vision, objectives, pilot



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THEROS Vision & Concept



THEROS aims to implement an integrated toolbox being capable to modernize the process of verifying organic and geographical indications food products and preventing adulterations and non-compliances, while demonstrating enhanced traceability, security and transparency in the supply chain, through the use of various technologies and innovations

that leverage *Earth Observation, photonics, internet of things (IoT), DNA metabarcoding, blockchain, digital interfaces and product passport, advance analytics, machine learning, artificial intelligence and business models.*

At the same time, efficient mechanisms will be employed in order to ensure interoperability with existing control systems, as well as improved accessibility and sharing of data through harmonized and standardized means, whilst also demonstrating their uptake by relevant stakeholders for improved decision-making.



THEROS Objectives



Improve detection of adulterations and non-compliances in the organic and GI food products including efficient monitoring of quality and sustainability parameters through low-cost, digital & scalable solutions.



Enhance traceability in the quality labelled food supply chain via novel technologies and approaches that will ensure secure and transparent data governance across the whole value chain.



Ensure efficient management and harmonization of data collected from the different stages of the supply chain, enable their uptake for improved decision making and assure interoperability and integration with existing systems.



Assess and formulate new business-oriented models and approaches towards preventing quality labelled food adulteration as well as increasing awareness and quality assurance.



Validate and demonstrate the effectiveness of the THEROS integrated toolbox through 4 validation campaigns that will pave the way for rapid uptake of the proposed systemic innovations.



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THEROS Pilot Demonstrations



Pilot 1: Serbia



The pilot demonstration will focus on the employment of THEROS toolbox components in order to facilitate efficient large-scale monitoring of organic food assets.

Pilot 2: Greece



The pilot demonstration will focus on the verification of organic production practices.

Pilot 3: Czech Republic



The pilot demonstration will focus on the design and validation of an extended innovative business model aimed primarily at supporting the availability of organic food.

Pilot 4: Spain



This pilot demonstration will define and engage a group of supply chain participants, aiming to cover 100% of the value chain, including initial harvesting, aggregation, transformation, shipping, packaging and selling events.

Pilot Scope

Use of THEROS innovations

EO based ecosystem services, MEMS based photonics systems, Green accountability tool, Dynamic Digital Product Passport, Blockchain based traceability system, Verification engine, and Data management and harmonization platform

IoT sensors network, Blockchain based traceability system, Verification engine, Digital marketplace, and Data management and harmonization platform

DNA based authenticity kit, Dynamic Digital Product Passport, Blockchain based traceability system, Verification engine, and Data management and harmonization platform



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THEROS Communication & Liaison activities with ALLIANCE and WATSON

Indicative plan



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THEROS liaison activities (1/2)



Internal meetings

- Establishment of a regular conference call for aligning and fine-tuning
- Assessing the deployment of a common communication & dissemination strategy
- Contribute to the effective stakeholders' engagement
- Organizing forthcoming activities making decisions

Social Media & Cross Promotion

- Use of common hashtags in social media
- Mention and tag each other in relevant posts
- Create an area on our websites for the liaising projects



THEROS liaison activities (2/2)



Events & Conferences/Sharing of Information & Results

- Be engaged directly either through presentations and booths to conferences
(e.g. Any suggestions of upcoming opportunities?)
- Organizing related and mutually beneficial sessions/workshops
(e.g. Any suggestions of upcoming opportunities?)
- Co-writing scientific and conference papers
(e.g. Any suggestions of upcoming opportunities?)
- Be members of project Advisory Boards
(e.g. THEROS is looking for member (s) with expertise in emerging related technologies in food fraud)





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Thank you for your attention!

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