



An integrated toolbox for improved verification and prevention of adulterations and non-compliances in organic and geographical indications food supply chain

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D.4.5: Green accountability tool (final version)

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Executive Summary

The vision of the THEROS project is to leverage advanced technologies to contribute to a more sustainable and environmentally friendly agricultural sector while addressing the challenges of food security and climate change mitigation. The project promotes organic farming, enhances biodiversity conservation, and optimises resource utilisation by providing actionable insights and decision-support tools. The Green Accountability Tool (GAT) is a key enabler of this vision, serving as a platform for monitoring and evaluating agricultural practices with a focus on sustainability and environmental impact. By integrating diverse data sources such as soil analysis, satellite imagery, and machine learning models, the GAT empowers users to assess and track key green accountability metrics, including carbon footprint, soil health, and biodiversity conservation.

This deliverable, D4.5, represents the final version of the Green Accountability Tool, following the initial release in D4.4. It provides a comprehensive account of the tool's design, implementation, and validation, incorporating refinements and enhancements based on iterative feedback and advancements across the THEROS project. The GAT has been developed in alignment with the requirements outlined in Work Package (WP) 2, ensuring the effective integration of sustainability monitoring components within the overall THEROS ICT infrastructure.

Building upon the foundational work detailed in D4.4, this final release presents the agreed specifications and the exact mapping of identified needs to functional capabilities. It describes the full integration of data sources through architectural blocks and showcases the finalised design and operational deployment of the GAT. The document outlines the methodology for data collection, analysis, and visualisation, incorporating insights from other project deliverables, expert consultations, and stakeholder feedback.

Through further developments in WP3, WP4, and WP5, the GAT has been refined to ensure its effectiveness in real-world agricultural settings. The final version details the validation process conducted in collaboration with participating partners, ensuring that the tool meets its intended objectives. As of March 2025 (M27), this deliverable marks the completion of the Green Accountability Tool's development, detailing its final deployment and readiness for use in promoting sustainable agricultural practices.