



CARBON 4 SOIL QUALITY

CAPTURING AND STORING ATMOSPHERIC CO₂ FOR
IMPROVEMENT OF SOIL QUALITY

Study project

Darko Ferčej, ISD



General information

- Thematic project (study type)
- Part of Natural heritage mission - protecting, restoring and valorising the natural resources of the Euro-Mediterranean

CARBON 4 SOIL QUALITY	2	RSO2.7	Protecting, restoring and valorising the natural environment and heritage	Study project	Approved
CARBON FARMING MED	2	RSO2.6	Strengthening an innovative sustainable economy	Test project	Approved



FIGURE 1: CORRESPONDENCE PROGRAMME MISSIONS / PROGRAMME SPECIFIC OBJECTIVES



GENERAL INFORMATION

- Funding programme: Interreg Euro-MED
- Project duration: 24 + 3 months 1.1.2024-31.12.2025
- Specific objective: RSO2.7: Enhancing protection and preservation of nature, biodiversity and green infrastructure, including in urban areas, and reducing all forms of pollution
- Mission: Protecting, restoring and valorising the natural environment and heritage
- Partners 8, Countries 6 (SI, ES, GR, IT, MK, ME)
- Budget 598.890 €, Cofinancing = 80%



TERRITORIAL CHALLENGES

- Climate change - Lowering of CO₂
- Soil degradation
- Decrease of Soil organic matter
- Increase of soil carbon
- Improvement of soil quality and fertility



OVERALL OBJECTIVE & ACTIVITIES

To generate knowledge and prepare foundations for future testing of SUSTAINABLE MANAGEMENT OF SOIL, called "carbon farming".

- 1.) Project will **define SOM reference values** and soil quality parameters (A 1.1)
- 2.) **Design organic carbon standards and monitoring procedures** (A 1.2)
- 3.) **Propose** the most appropriate **carbon farming techniques** for MED area (A 1.3)
- 3.) Propose carbon farming **business (cooperation) models** (A 1.4)
- 4.) Propose **solutions for agriculture carbon emissions/sink related environmental certification schemes** and certification system (A 1.5)
- 5.) **Assess different policy aspects for improving soil quality** (A2.1)
- 6.) Prepare **training material** (A2.2)
- 7.) Look into the **future of Carbon Farming** (final conference)
- 8.) **Cooperate with other policy and project initiatives**



WORK PLAN - GENERAL

- **WP1 - Better understanding of CF benefits for soil quality and CO2 reduction**
- **WP2 - Building foundations for testing CF in Euro-MED**
- Management
- Communication
- Contribution to Result Amplification Strategy (all material should be reusable, synergies with thematic projects, participation in 2 events per year)



OVERALL WORK PLAN

Project is composed of 2 interlinked work packages.

Output of the first work package will be "**Toolbox for carbon farming** composed" of: -(i) **Catalogue of soil organic reference values**, (ii) **Methodology for organic carbon analysis** and soil **quality monitoring**, (iii) **Guidelines for carbon farming techniques**, (iv) **Carbon farming business models**, (v) **Recommendations on agriculture carbon credit schemes** and **environmental certification systems**.

Output of the second work package will be "**Action plan for testing carbon farming**". Action plan will be prepared on the transnational level to give overview of **possible upscaling of current study project to the testing phase**. It will consider at least 5 testing sites in different countries, including at least one IPA country and one new Interreg Euro-MED territory (for example Bulgaria, Estremadura...).

Action plan will also consider different Mediterranean climate zones (sub-tropical, oceanic, semi-arid, arid), different erosion conditions and different types of soil.



Thank you for attention

