### LIFE CLIMATREE (LIFE14 CCM GR/000635)

A novel approach for accounting & monitoring carbon sequestration of tree crops and their potential as carbon sink areas



"LIFE CLIMATREE" is co-financed by the European Commission in the framework of the LIFE programme (Climate Change Mitigation)

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CLIMATREE

www.lifeclimatree.eu

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**LIFE CLIMATREE project** will provide EU a new CO<sub>2</sub> accounting framework in the agricultural sector **contributing to the presently calculated carbon removal amount.** This category is distinguished as the **"permanent tree-crops category"**, the territorial extent of which is already recorded in official statistics.

In its latest reform of 2013 (reg. (EU) 1305/13) the **Common Agricultural Policy** (CAP) recognized the significance of Agriculture as a **key player in Climate** Change policy.

Monitoring and accounting of carbon stocks and fluxes as accurately as possible is an important problem and it will result in **a better assessment of climate change and its impacts.** 

> LIFE ClimaTree project focuses on the development of a new methodology based on the adjustment of Land Use, Land-Use Change and Forestry (LULUCF) methodology to include the calculated treecrop capacity (CO<sub>2</sub> t/y) incorporating the calculation of tree-crop CO<sub>2</sub> consumption and storage, and suggesting tree-crop cultivation practices in S. Europe that contribute towards increased carbon sequestration.

# OBJECTIVES

The LIFE CLIMATREE project aims to contribute towards the development of a novel methodology and an innovative tool for the quantification of carbon storage in permanent tree-crops. Therefore, the primary objectives of LIFE CLIMATREE are to:

- improve and update the estimated carbon sink accounting within EU through the inclusion of the calculated tree-crop capacity (CO<sub>2</sub> t/y) that could support mitigation actions at local regional and European levels
- estimate the socioeconomic benefit of tree crops' carbon storage and evaluate the economic dimensions under different climatic and economic scenarios
- contribute towards the design and efficacy of Union environmental and climate policy and legislation, complimenting LULUCF and providing a substantial contribution towards the Kyoto Convention targets

- act as a catalyst for, and promote, the integration and mainstreaming of carbon sink objective into Agricultural Sector and its Stakeholders and Decision makers (Common Agricultural Policy, the relevant national public authorities and farmers communities)
- provide a more accurate and increased baseline for carbon sink
- improveAgriculturalandEnvironmental Policies at the micro level and to provide a tool for supporting the evaluation of investments related to tree crops.



## EXPECTED RESULTS

- The Development of a new methodology for the accounting of carbon storage from permanent tree crops
- The Demonstration of best tree-crop practices towards the increase of carbon sink and their related socioeconomic benefit
- The Development of a guide for the suggestion of climate change mitigation policies
- The Estimation of carbon balance of tree-ecosystem for the future years
- The Development of a software application for accounting treecrop carbon sequestration
- The Evaluation of the economic benefits arising from tree crops sequestration



INSTITUTE OF URBAN ENVIRONMENT AND HUMAN RESOURCES PANTEION UNIVERSITY















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## INSTITUTE OF URBAN ENVIRONMENT AND HUMAN RESOURCES PANTEION UNIVERSITY

29 Aristotelous str. 17 671 Athens, Greece T.: +30 210 9247 450, F.: +30 210 9248 781 e-mail: info@lifeclimatree.eu