



«CLIMATREE LIFE14 CCM/GR/000635»



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Prof. Kostas Bithas
CLIMATREE Project Coordinator

**Institute of Urban Environment and Human Resources (UEHR),
Dept. Economics and Regional Development,
Panteion University, Athens**



University Research Institute
Urban
Environment
Human
Resources
Panteion University, Athens



Project objectives related to climate mitigation

- A “novel methodology” for estimating CO₂ balance of Tree cultivations (case study: S. Europe)
- A “model” incorporating the novel methodology and permitting operational estimates for CO₂ sequestration of Tree Crops
- Identification and projection of climatic conditions relevant to tree cultivations and their CO₂ sequestration
- Identification of best cultivation practices for maximizing CO₂ sequestration
- Evaluation of economic benefits arising from the CO₂ sequestration of tree crops
- Identification of ecosystem services arising from tree cultivations

The major Deliverables

- A software permitting estimates of CO₂ balance under different “conditions” (land use scenarios, cultivation methods etc.)
- Estimates of current and future CO₂ balance for Spain, Italy, Greece



Contribution to the EU CLIMA policies

LIFE CLIMATREE will support :

- CO₂ accounting with new estimates of emissions and removals from the permanent tree crops in Europe (case study: Greece, Italy, Spain)
- The incorporation of agricultural activities in the framework of the Decision 529/2013 (EC, 2013), targeted reduction of GHG emissions (i.e. 20% below the 1990 emissions by 2020)



Contribution to the EU CLIMA policies

- Contribute towards a more accurate CO₂ accounting in the agricultural sector
- Make the EU Climate Policies more informative and rigorous
- Influence the orientation of the (Common) Agricultural Policy to integrate Climate Objectives
- Enhance EU policies concerning agricultural Ecosystems
- Boost the achievement of the objectives/targets of the Europe 2020 Strategy on climate and the environment



Gaps or barriers in terms of policy at the national and EU levels

- Inclusion of the activities of the LULUCF sector within the accounting GHG emissions for all member states
- Accurate monitoring and accounting of carbon stocks and fluxes is a serious challenge
- The core deliverables of CLIMATREE wish to contribute as a validation framework of the official, IPCC-based, accounting of the CO₂ resulting in a $\simeq 70\%$ uncertainty

Conclusion

- A substantial contribution towards more informative agriculture and climate policies at the Regional, National and EU level
- Maximize mitigation potential of the agricultural sector by identifying best tree-crop management practices
- Attempting an ecosystemic approach to tree crop cultivation