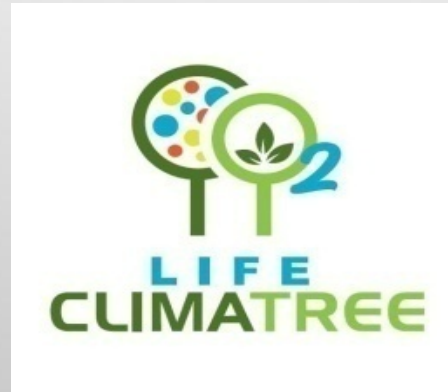




«CLIMATREE LIFE14 CCM/GR/000635»



Start: 17/06/15 - End: 28/06/19

**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
Urbane
environment
human
resources Panteion University, Athens



LIFE CLIMATREE

A pioneering project tracing the:

- Link between CO₂ & Tree Cultivations
- Mitigation potentials of Tree Cultivations



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 CO₂ sequestration
- Identification of best cultivation practices for maximizing CO₂ sequestration
- Evaluation of economic benefits arising from the CO₂ sequestration (if any)
- 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.)
- Identification and ranking different cultivation methods for maximizing mitigation potentials



Contribution to the EU CLIMA policies

LIFE CLIMATREE will support :

- CO₂ estimates of emissions and removals from the permanent tree crops in Europe (case study: Greece, Italy, Spain)
- The incorporation of agricultural activities in the European Climate Policies: Decision 529/2013 (EC, 2013), targeted reduction of GHG emissions \approx 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 activities of LULUCF sector within the accounting GHG emissions
- Identify the distinct role of Tree cultivation in mitigation policies
- To contribute to the IPCC-based accounting of the CO₂ by reducing the inherent uncertainty ≈ 70%



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**