



# LIFE project: oLIVE-CLIMA

Introduction of new oLIVE crop management practices focused on CLIMate change mitigation and adaptation



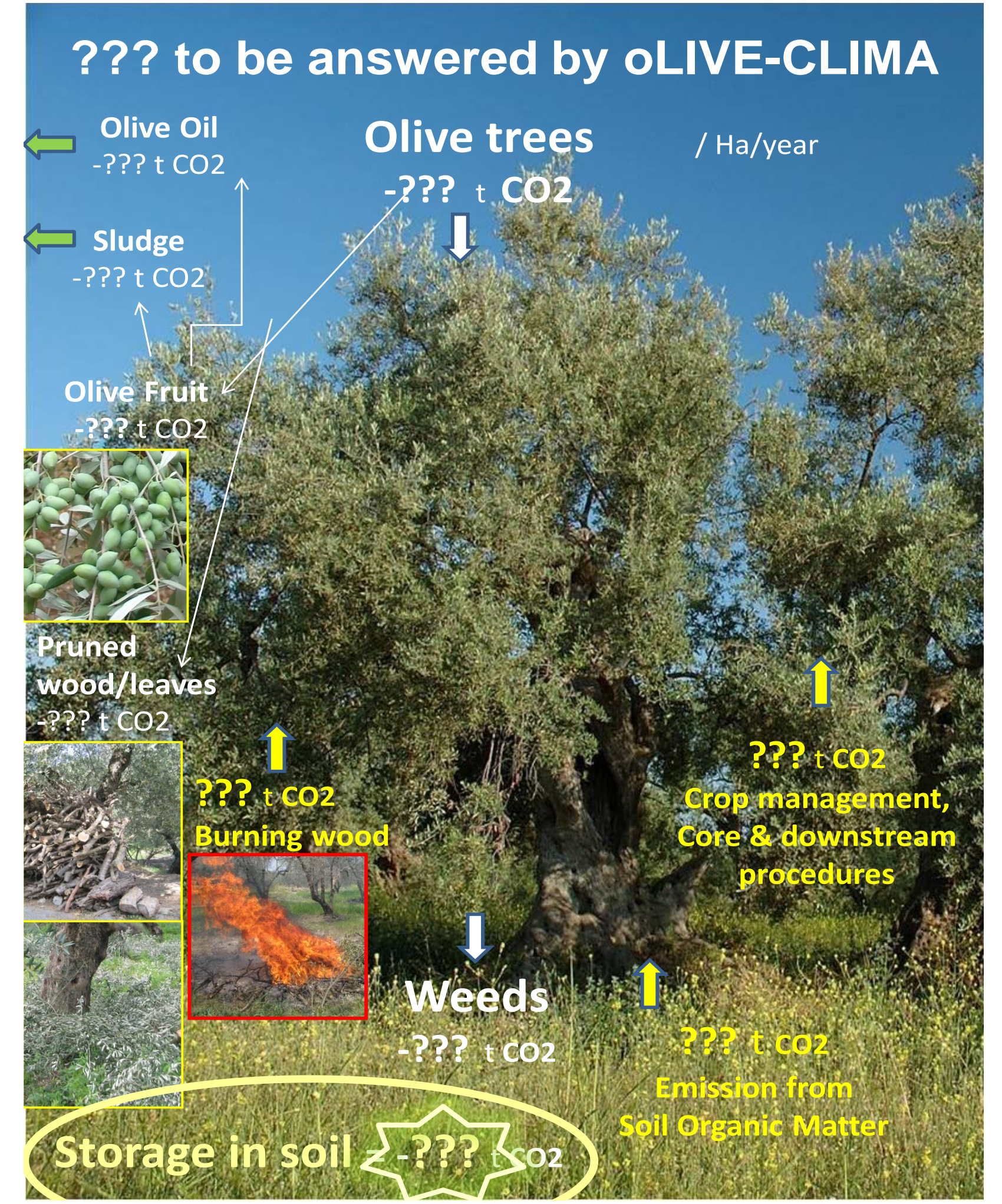
## Carbon Enrichment of Soil

The interventions of oLIVE-CLIMA project aim to enhance long term carbon storage in soil, by:

- increased carbon capture by olive trees (pruning) and proper weed management and modifying flora under tree canopy,
- reduce carbon losses from soil, via zero tillage and increased mulching.
- Return most of the organic matter (sludge of oil mills, pomace) removed for olive oil extraction, and from pruning (pruned wood burning).

**PARTNERS of the project**

- ANATOLIKI** COORDINATOR  
Development Agency of Eastern Thessaloniki's Local Authorities, ANATOLIKI SA. www.anatoliki.gr
- NAGREF - ELGO DEMETER**  
Institute for Olive Tree & Subtropical Plants of Chania www.nagref-cha.gr  
Soil Science Institute of Athens www.ssi.gr  
Land Reclamation Institute, Thessaloniki www.lri.gr
- RODAX Agro** Rodax Agro Ltd (RODAX) Environment & Quality Management Systems in Agriculture www.rodaxagro.gr
- UNIBASIT** University of Basilicata, Italy Department of European and Mediterranean Culture (DCEM) www2.unibas.it/dcem
- Agrotipos S.A.** Agriculture crop & animal husbandry magazine www.agrotipos.gr
- NILEAS** NILEAS-Agricultural Cooperative for Standardized Products-Messinia www.nileasoliveoil.gr
- PEZA UNION CRETE** Union of Agricultural Cooperatives of Peza www.pezaunion.gr
- UNION OF MIRABELLO** Union of Agricultural Cooperatives of Mirabello www.easm.gr



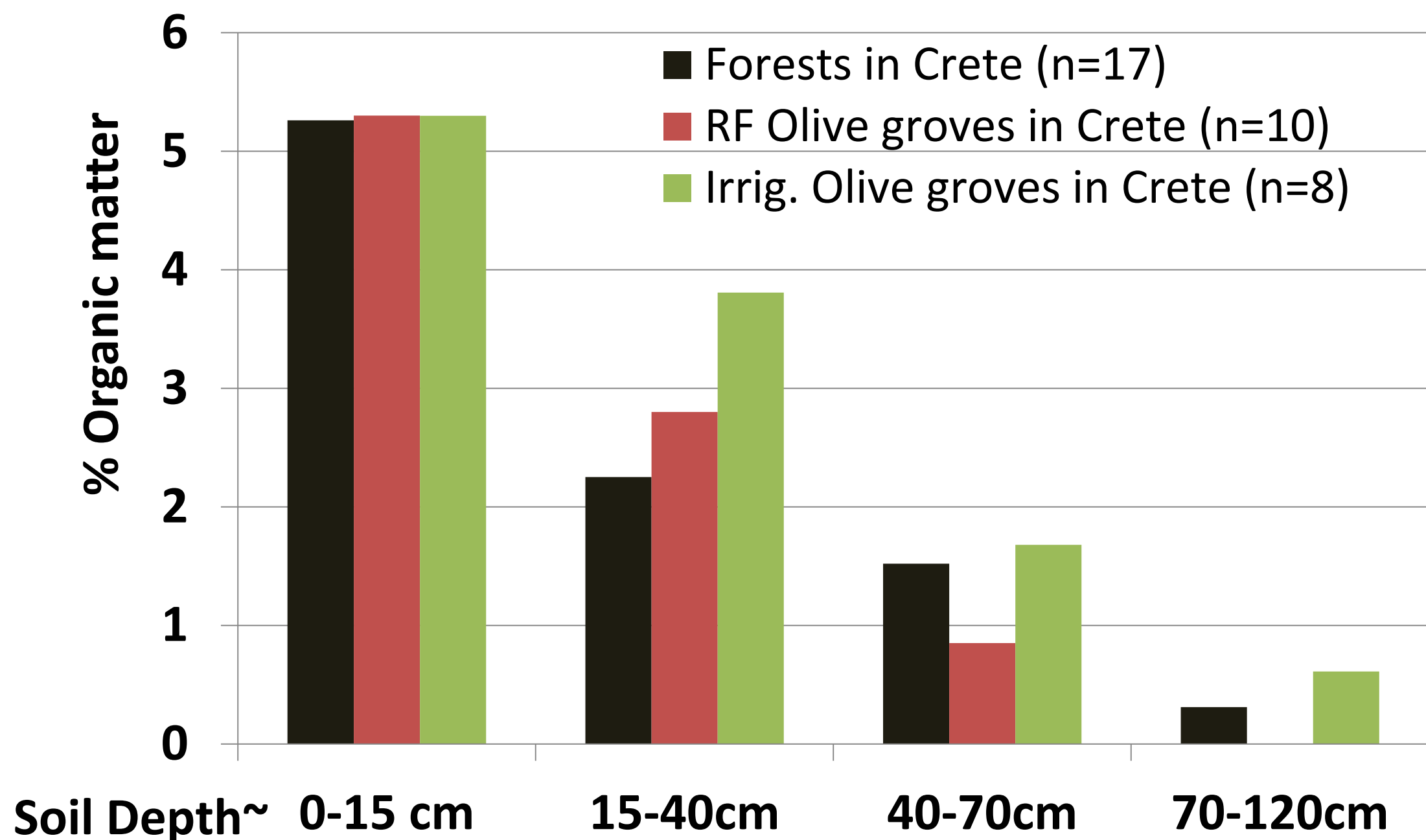
120 olive groves in 3 farmer groups: One in Peloponnese (NILEAS) and two in Crete (Peza and Mirabello),

“Olive forest” is not different from other forests in the same environment .

(compared before the interventions of the project)

### oLIVE-CLIMA

Fig. 1 SOM in soil sections of Cretan Forests and of Integrated Management Olive groves

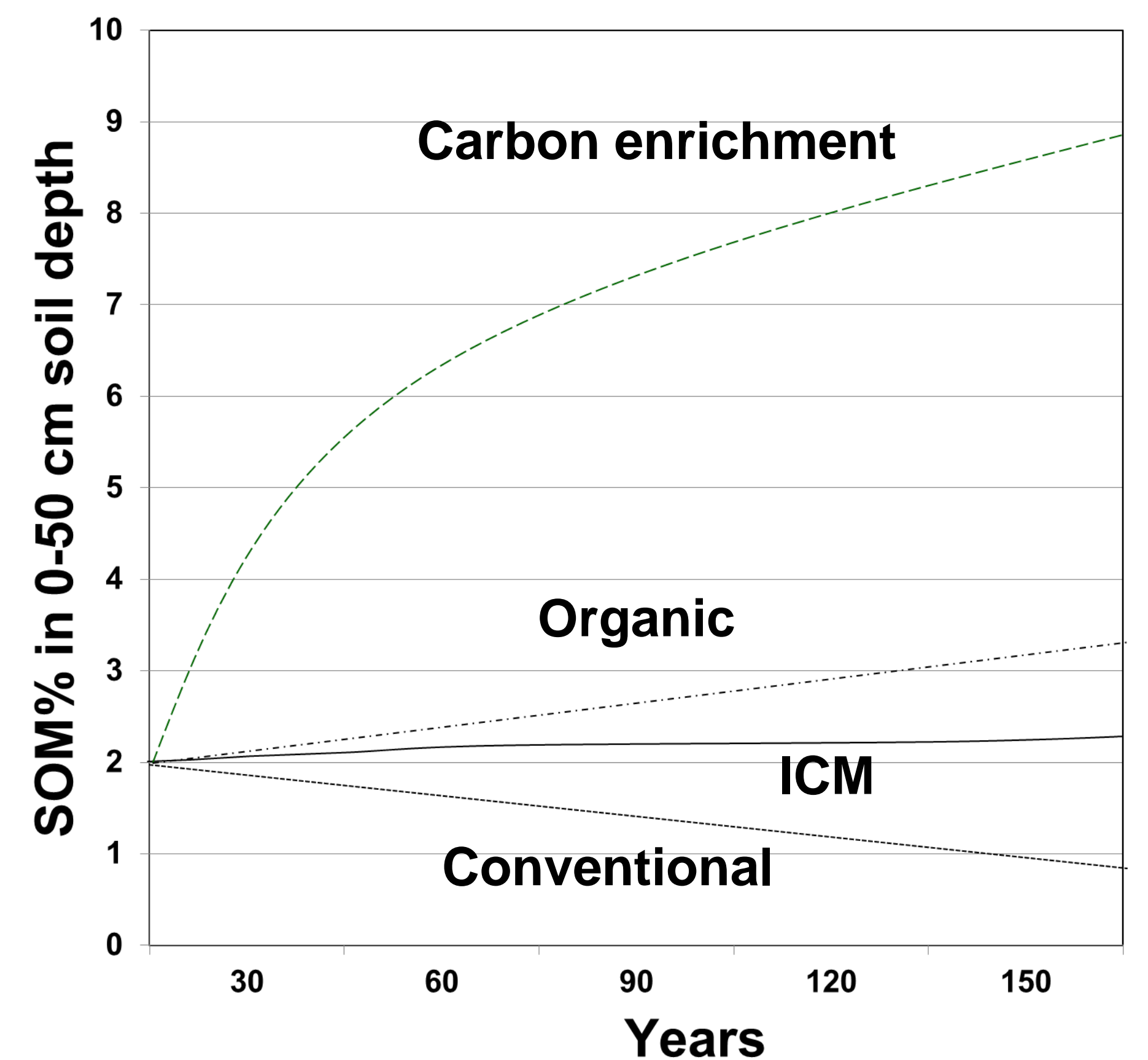


Data on Forests: Institute of Mediterranean Forest Ecosystems, Athens, Greece  
Data on Olive Groves (preliminary): Dept of Soil Science, Athens, Greece

**PEF**  
By proper management of olive groves long term carbon storage in soil can exceed that of local forests.

**PEFCR for olive oil**  
Characterization factor for Land Use Change towards such a management deserves to be >1

### Potential Evolution of SOM under various regimes



With the contribution of the LIFE financial instrument of the European Community



<http://www.oliveclima.eu/>

