



Olive grow multifunctionality: Mitigation options in olive management



OLIVE4CLIMATE
LIFE15 CCM/IT/000141

PANDOLEA INTERNATIONAL CONFERENCE 2020

19 October 2017

Francesca Dini- University of Perugia

Why Olive groves?

Olive tree (*Olea europaea* L.)
reaches 10.513.320 ha of
cultivated area all over the
world (FAO 2020)



Agriculture sector is responsible
for **10% of the emissions of
greenhouse gases** in the EU
([Inventory of U.S. Greenhouse
Gas Emissions and Sinks: 1990–
2018.](#))

NOT ONLY FRUITS PRODUCTION



to reduce the amount of CO₂ in the atmosphere
to redevelop areas subject to desertification



reducing the effects of human actions on the
environment and climate

Beneficiary	Type
University of Perugia	coordinating
University of Palermo	associated
University of Tuscia	associated
Consiglio Nazionale delle Ricerche (CNR) - Istituto di Bioscienze e Biorisorse (IBBR)	associated
UNAPROL Consorzio Olivicolo Italiano,	associated
SGS Italia S.p.A	associated
Panhellenic Confederation of Unions of Agricultural Cooperatives	associated
Agricultural Research Organization (ARO) – The Volcani Center	associated



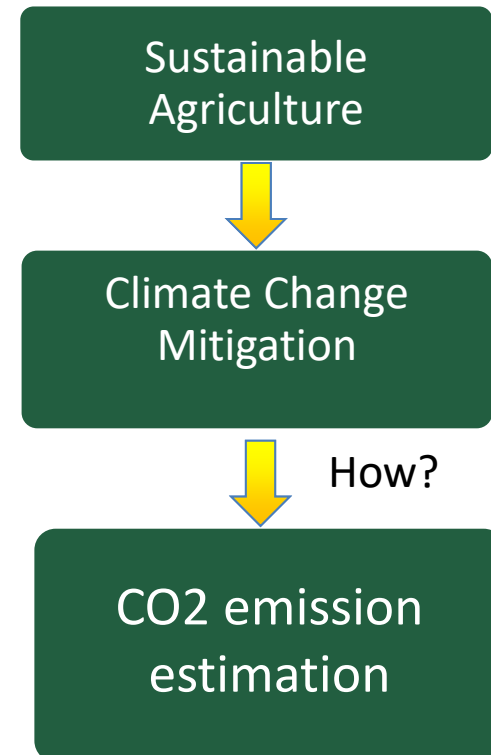
Tests will be carried out in Mediterranean countries with heterogeneous environmental conditions:

- ✓ Italy
- ✓ Greece
- ✓ Israel



OLIVE4CLIMATE - Climate Change Mitigation Through a Sustainable Supply Chain for the Olive Oil Sector

- The goal is to test useful strategies for creating a sustainable olive oil sector
- Increase the useful practices and therefore reduce the climate impact
- Offer an additional gain to the olive farmers



Activities that could be eligible for the Carbon credit generated by a
Sustainable Olive Grove Management:

...in field

- Management of pruning material
- Green cover
- Conservation tillage
- Reduction of the use of fertilizers
- New olive plantation

...other use

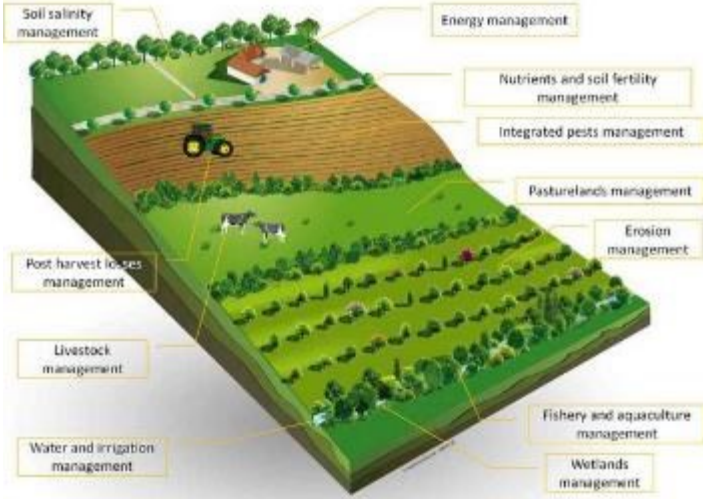
- Olive pitting machine
- pruning material

Payment for ecosystem services



Sustainable AF practices

Emission reduction and voluntary neutralisation



Credits



**GHG quantification
(Index of sustainability)**

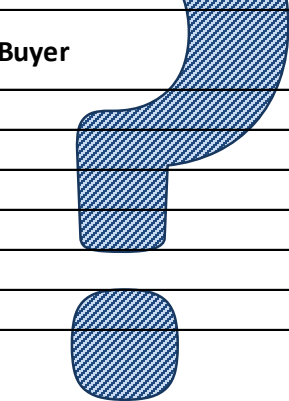
Acknowledgments



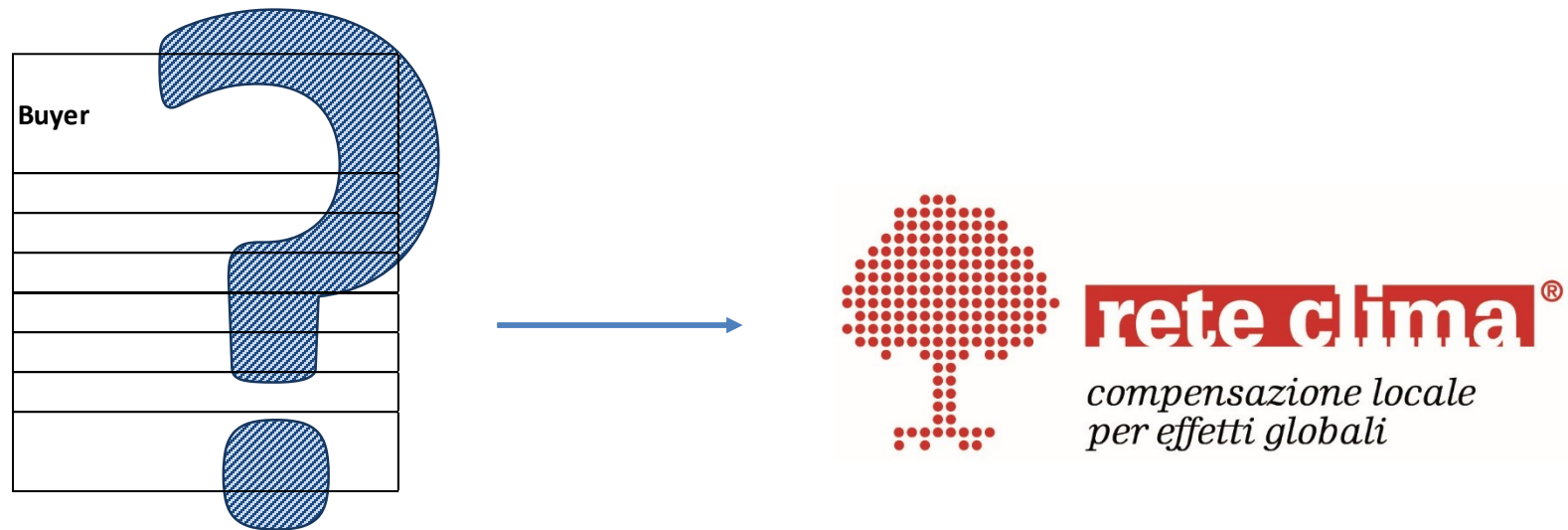
GREEN MARKETING



«Suppliers - Buyers» sustainability credits register

Region	Plant n.	ha	Best practices selected	Sustainability credits (t CO2/ha)	Totale credits produced in 2017-2018	Buyer
<i>Umbria</i>	6000	13,5	minimun tillage			
<i>Lazio</i>	7538	35,86	N fertilizer reduction			
<i>Puglia</i>	17700	48,22	minimun tillage	0,44	114,42	
<i>Liguria</i>	2765	8,7	N fertilizer reduction			
<i>Sicilia</i>	13105	32,61	green cover			
<i>Grecia</i>	2122	6,5	chipping pruning	1,2	16,54	
<i>Israele</i>	9620	51,8	green cover, minimum tillage, chipping pruning	0,4	30,88	

... Buyers on the O4C Voluntary market



- Estimated value: € 30-10 credit - income supplement
- Image: Use of project participation in communication
- Creation of a network between "virtuous" companies to improve performance

To find out more about OLIVE4CLIMATE activities, publications and events, please visit our media pages at:

<https://olive4climate.eu/en/>



@OLIVE4C



OLIVE4CLIMATE



Thank You!



Francesca Dini

Email: francesca.dini@gmail.com

www.olive4climate.eu