Scheda Proposta Progetto

CIP ODIPWO

Dati proposta

Acronimo	CARAT (rev.2)
Titolo	Carob Agroforestry for Resilience and Adaptive Transition in the Mediterranean
Durata in mesi	60

Descrizione

Mediterranean carob-growing soils are losing organic carbon under drought, heat and land abandonment. Meanwhile, most carbon□farming practices store carbon in shallow topsoil that is easily disturbed. CARAT introduces BioReserve Engineering. It combines the deep taproot system of the drought-tolerant carob tree (Ceratonia siliqua) with a bentonite-leonardite/palygorskite Mineral□Organic Composite (MOC) to build persistent, mineral-associated carbon in deep soil horizons. CARAT will characterise site conditions and deep-soil carbon pools, take MOC formulations from laboratory to field application, monitor soil health, water use and tree performance with sensors and 3D Modelling, assess economic viability. results are co-created and demonstrated in Living Lab network. CARAT Pioneers work in Türkiye, Greece and Italy, and CARAT Adaptors replicate the approach in Spain, Malta and Portugal.

Stato	INVIATA
Proponente	TODARO, ALDO
Struttura proponente	DI3A
Ambito	INTERNAZIONALE
Ente finanziatore	HORIZON-IA
Bando di riferimento	HORIZON-MISS-2026-06
Capofila	TED UNIVERSITESI
Partner	1 TED UNIVERSITESI Türkiye Coordinator 2 MIDDLE EAST TECHNICAL UNIVERSITY Türkiye Partner 3 UNIVERSITY OF CUKUROVA Türkiye Partner 4 Adiyaman University Türkiye Partner 5 Secil Omeroglu Karabiyik Türkiye Partner 6 CANBENSAN CANKIRI BENTONIT SANAYI VE TICARET ANOIM SIRKETI Türkiye Partner 7 Erdemli Belediyesi Türkiye Partner 8 POLYTECHNEIO KRITIS Greece Partner 9 ELLINIKOS GEORGIKOS ORGANISMOS - DIMITRA Greece Partner 10 GEO ELLAS ANONYMI MELETITIKI METALLEFTIKI AGROTIKI ETAIREIA Greece Partner 11 PERIFEREIAKI ANAPTYXIAKI ETAIRIA KRITIS AE Greece Partner 12 UNIVERSITA DEGLI STUDI DI PALERMO Italy Partner 13 UNIVERSITA DEGLI STUDI DI CATANIA Italy Partner 14 UNIVERSITA DEGLI STUDI DI SASSARI Italy Partner 15 Comune di Ragusa Italy Partner 16 AGENCIA ESTATAL CONSEJO SUPERIOR DE INVESTIGACIONES CIENTIFICAS Spain Partner 17 UNIVERSITA TA MALTA Malta Partner 18 UNIVERSIDADE DE EVORA Portugal Partner 19 MICROPLANT LDA Portugal Partner 20 UNIVERSITY OF ZAGREB-FACULTY OF VETERINARY MEDICINE Croatia Partner

Dati economici

Costo complessivo	€ 8.128.961
Finanziamento complessivo atteso	€ 7.922.543
Finanziamento previsto UNICT	€ 296.095
Cofinanziamento previsto UNICT	€ 296.095

Componenti (5)

#	Nominativo	Ruolo	Carriera**	Struttura	ERC	Ore*
1	PALMERI, ROSA	RESP_SCIENTIFICO	PA	DI3A	LS	600
2	TODARO, ALDO	RESP_SCIENTIFICO	PA	DI3A	LS	600
3	LA MALFA, Stefano Giovanni	COMPONENTE	PO	DI3A	LS	300
4	PARAFATI, LUCIA	COMPONENTE	RD	DI3A	LS	600
5	VITALE, ALESSANDRO	COMPONENTE	PA	DI3A	LS	300

* ore stimate
** PO - Professore Ordinario; PA - Professore Associato; RD o RM - Ricercatore TD; RU - Ricercatore

Distribuzione componenti per struttura

