

Scheda Proposta Progetto

CIP PMXNMS

Dati proposta

Acronimo	LIFE POSEIDON-X (rev.1)
Titolo	LIFE POSEIDON-X
Durata in mesi	48

Descrizione

LIFE POSEIDON-X is based on the principle that biological resources should first be directed towards their highest feasible value. Fractions that cannot be used for higher-value products should then be considered for soil improvement, nutrient recovery or renewable-energy production.

On Kos Island, ASSEA Bioenergy will demonstrate an integrated marine biorefinery for the complete valorisation of *Posidonia oceanica*. The platform will connect marine biotechnology, green chemistry, advanced materials, agricultural applications and biological energy recovery. Suitable biomass fractions will be directed towards bioactive extracts, cosmetic ingredients, marine biostimulants, biofertilisers, functional fibres, advanced biomaterials and other bio-based products. Residual fractions suitable for biological conversion will be used for biogas, biomethane and renewable CO₂ production.

In Catania, the University of Catania will demonstrate a decentralised composting model based on territorial industrial symbiosis. Dewatered sewage sludge, lignocellulosic residues, olive-related materials, poultry manure and other compatible local inputs will be combined through Smart Mixing. The mixtures will undergo controlled aerobic composting followed by microbial inoculation and maturation to produce stable, non-phytotoxic and function-specific soil improvers.

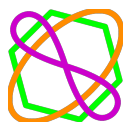
Residual fractions generated by the Kos biorefinery will be characterised before their next use is determined. Suitable fractions may be tested within selected Catania composting formulations. Fractions that are not suitable for composting may remain within the biological energy-recovery pathway foreseen in the Kos case study.

Knowledge generated in Catania on feedstock formulation, microbial bioaugmentation, compost maturation and soil validation will support the assessment of the compost and soil-improver pathway included in the Kos cascade. Experience from Kos on biomass separation and cascading recovery will support the identification of higher-value uses for biological and lignocellulosic materials before they are directed to composting or energy production.

Stato	INVIATA
Proponente	GURRERI, Luigi
Struttura proponente	DIEEI
Ambito	INTERNAZIONALE
Ente finanziatore	COMMISSIONE EUROPEA
Bando di riferimento	LIFE-2026-SAP-ENV-ENVIRONMENT
Capofila	ELLINIKOS GEORGIKOS ORGANISMOS - DIMITRA
Partner	NTUA UNICT ASSEA EUABOUT BarbaStathis

Dati economici

Costo complessivo	€ 6.000.000
Finanziamento complessivo atteso	€ 3.600.000



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Finanziamento previsto UNICT

€ 420.000

Cofinanziamento previsto UNICT

€ 280.000

Note

Progetto in fase di preparazione, dettagli (budget, ore docenti....) da definire.

Componenti (6)

#	Nominativo	Ruolo	Carriera**	Struttura	ERC	Ore*
1	MANCINI, Giuseppe	RESP_SCIENTIFICO	PA	DIEEI	PE	1.000
2	CORINZIA, SEBASTIANO ANDREA	COMPONENTE	RD	DI3A	LS	500
3	FERRANTE, Margherita	COMPONENTE	PO	INGRASSIA	LS	100
4	GURRERI, Luigi	COMPONENTE	RD	DIEEI	PE	500
5	OLIVERI CONTI, GEA MARZIA	COMPONENTE	PA	INGRASSIA	LS	100
6	TESTA, GIORGIO	COMPONENTE	PA	DI3A	LS	500

* ore stimate

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

Distribuzione componenti per struttura



■ DIEEI: 2 (33%)
■ DI3A: 2 (33%)
■ INGRASSIA: 2 (33%)