

A - Informazioni generali

CIP

JLYITP

Codice Interno Proposta

Proponente

BIONDI, ANTONIO - DI3A

Stato

Inviata

Ambito

INTERNAZIONAL

Scadenza Interna

13/04/2026

Acronimo

INCOPE

Titolo

INtegrating foresight and Sustainable Control to Overcome Pesticide

Descrizione

Synthetic pesticide resistance is a growing threat to European agriculture and forestry, with resistance management too often remaining reactive and fragmented. Research has delivered impressive technical progress confirming and characterising resistance. Yet, management remains trapped in a costly cycle of active ingredient failure and replacement. Emerging threats are rarely identified early enough, whilst ecological, behavioural and policy conditions that sustain selection for resistance remain poorly addressed. INSCOPE will break this cycle. We will develop a stakeholder-centred early warning system that detects weak signals of declining efficacy before resistance becomes operationally severe. We will quantify how IPWM adoption can alter pesticide resistance costs, clarifying when selection for resistance is weakened, and how resistance can be reversed to restore active ingredient efficacy. Our research will generate broader guidance on how farming, forestry and stored crop systems can be managed to minimise resistance risk. We will advance development of new crop protection tools, including microbial, RNAi-based and botanical biopesticides for more sustainable pest management. INSCOPE will use interactive social-ecological decision experiments to test how farmers, advisors, and other actors respond to resistance risk, non-chemical alternatives, and policy options. With this evidence we will design more effective implementation and policy interventions. Stakeholder exchange and international learning, including from globally leading biocontrol markets in Brazil, will help ensure our impact recommendations are informed by practical experience as well as experimental evidence. We will directly train agricultural advisors and farmers to disseminate core learning, and design bespoke material for stakeholder knowledge exchange. INSCOPE will move Europe beyond costly, late-stage resistance firefighting, towards earlier, smarter, and more durable resistance management.

Bando Di Riferimento

Call: HORIZON-CL6-2026-02-FAR

B - Durata e macro parametri finanziari

Ente Finanziatore

Horizon Europe

Durata Mesi

48

Durata complessiva in mesi del progetto.

Costo Complessivo

€5.945.663

Costo complessivo del progetto.

Finanziamento Atteso

€5.945.663

Quota di finanziamento che si prevede di ottenere dal soggetto finanziatore

Finanziamento Atteso Unict

€380.000

Quota del finanziamento atteso che spetterebbe all'Università di Catania.

C - (opzionale) Partenariato

Partenariato



In caso di partenariato

Capofila

UNIVERSITY OF STIRLING

Partner

UNIVERSITETET I AGDER, CAB INTERNATIONAL, TRINITY COLLEGE DUBLIN, ECOSTACK INNOVATIONS LIMITED, SVERIGES LANTBRUKSUNIVERSITET, NORSK INSTITUTT FOR BIOKONOM, CESKA ZEMEDELSKA UNIVERZITA V PRAZE, TEAGASC – AGRICULTURE AND FOOD DEVELOPMENT AUTHORITY, UNIVERSITEIT UTRECHT, INTERNATIONAL FEDERATION OF ORGANIC AGRICULTURE MOVEMENTS – EU GROUP, INTERNATIONAL UNION FOR CONSERVATION OF NATURE, SANT'ORSOLA SOCIETA COOPERATIVA AGRICOLA

Indicare uno o più partner.

D - Componenti del gruppo di ricerca*

Ruolo	Ssd	Struttura	Nominativo	Monte Ore	Note
RESP_SCIENTIFICO	AGRI-05/A	DI3A	BIONDI, ANTONIO	432	3 mesi uomo
COMPONENTE	AGRI-05/A	DI3A	RICUPERO, MICHELE	144	1 mese uomo
COMPONENTE	AGRI-05/A	DI3A	RUSSO, Agatino	432	3 mesi uomo
COMPONENTE	AGRI-05/A	DI3A	SISCARO, Gaetano	144	1 mese uomo

* **Solo** Corpo docente UNICT. È possibile indicare altri eventuali componenti nelle note o nella descrizione.

F - Note

Note

Tra il personale bisogna aggiungere un mese/uomo di un responsabile amministrativo (Di3A): Dott. Roberto Faedda