









Pr Souad Rouis Center of Biotechnology of Sfax Laboratory of Biopesticides















PRIMA: Thematic Area 1-Water management 2022 (RIA) Research and Innovation Action

Project Title: Alternative Biopesticides for SAFe

Integrated Pest

and WAter Management around Mediterranean

Project Acronym: SAFWA

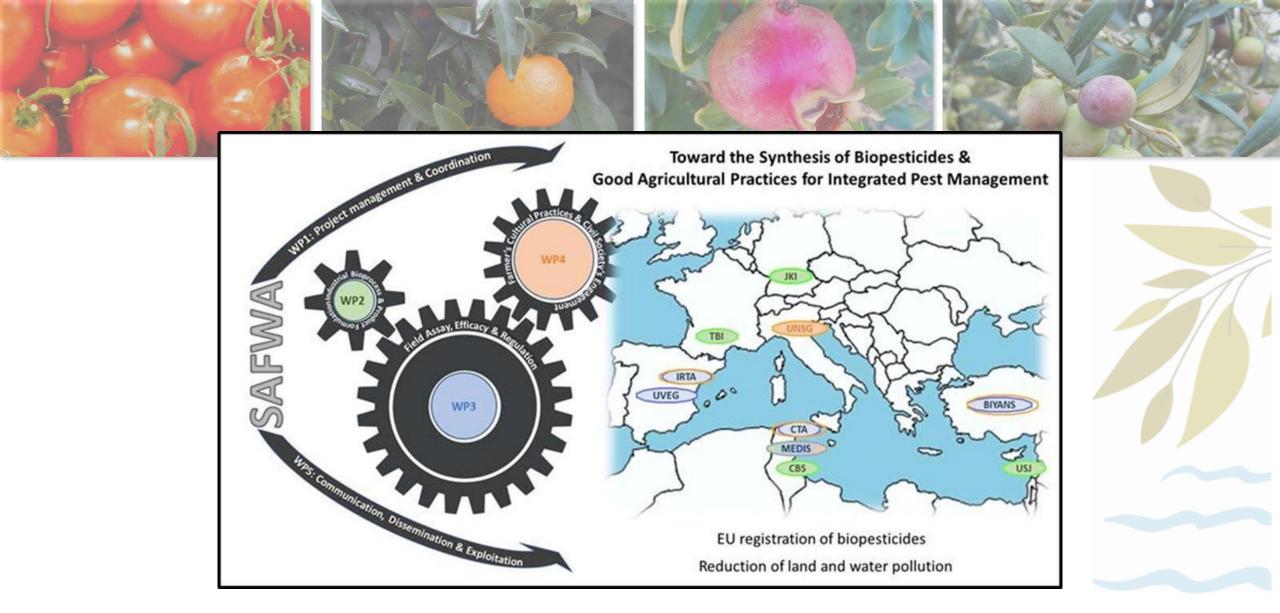
Project duration: 36 Months | Start date: 01 June 2023

Project Cost: 1 357 183 €















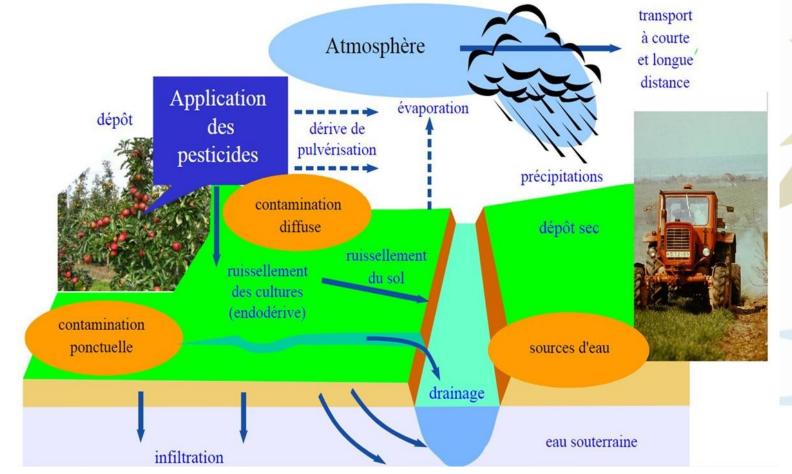








Lab/Team Vision











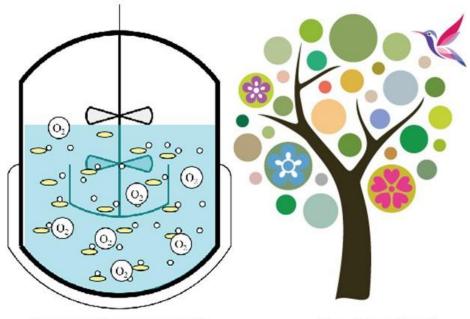






Lab/Team Vision

IPM-4-CITRUS





...to Market ...to Field













STRAEGIC PARTENARSHIP











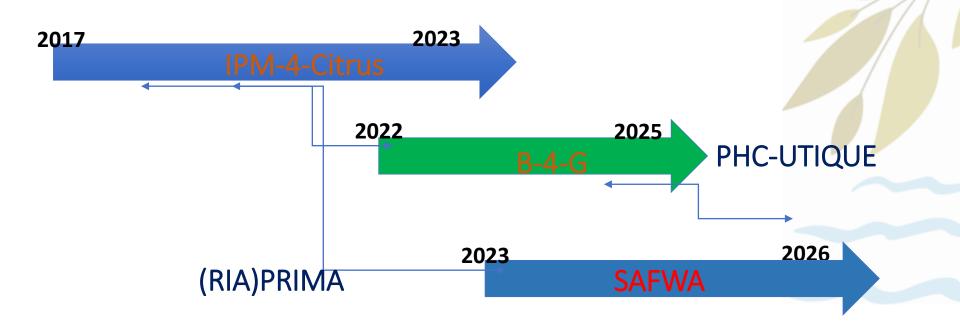






Motivation



















Double challenge/Opportunity

PRIMA CALL

PROJECT COORDINATION









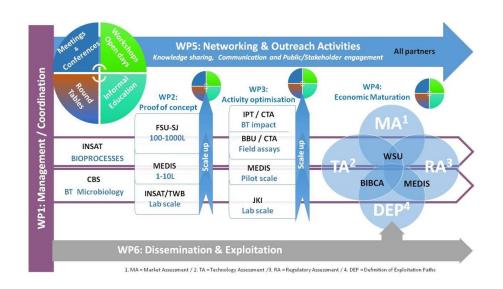




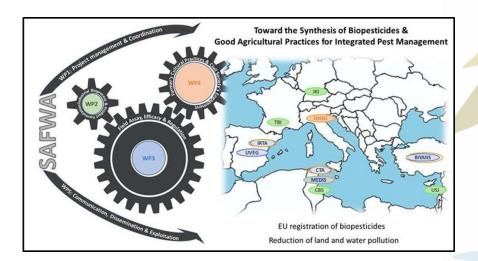




Concept/Idea/Value Chain



TO



IPM4Citrus

SAFWA















Consortium

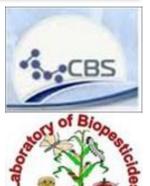


































Proposal Drafting 1

Project one page

Title of Proposal: Alternative Biopesticides for safe Integrated Pest and Water Management

Styles

Acronym: SAFWA

1. Administrative data of participant organisations

Participant No *	PI name	Organisation	Country
1 (Coordinator)	Souad ROUIS	CBS	TN
2 Partner 1	Ridha RAHMOUNI	CTA	TN
3 Partner 2	Nadia BEN SAID	MEDIS	TN
4 Partner 3	César Arturo ACEVES LARA	TBI(INSAT)	FR
5 Partner 4	Baltasar ESCRICHE	BIOTECMED (UVEG)	SP
6 Partner 5	MARTINEZ FERRER, M. TERESA	IRTA	SP
7 Partner 6	Mireille KALLASSY	USJ	LB
8Partner 7	Michele Filippo FONTEFRANCESCO	UNISG	IT
9 Partner 8	Zeynep YURTKURAN	BIYANS	TK
10 Partner 09	Dietrich STEPHAN	JKI	GER
11 Partner 10	Rüdiger HAUSCHILD	APIS	GER
12 Partner 11	Olivier pailly,	INRAE (Corse)	FR

^{*} One PI per team/lab or institution. Add as many lines as you would need.

2. General information of the pre-proposal

Section	2					
Call	PRIMA Section 2 Multitopics 2022					
Topic	Prevent and reduce land and water salinization and pollution due to agri-food activities					
Type of action	RIA					
Duration in months	36					
Free keywords	Environment, sustainability, Water safety, farming, agriculture, behavioral sciences					
Abstract:	In all modern agricultural crops, the improvement of vegetable production of economic interest is based mainly on the control of pests and vectors of diseases. Pesticides application involves the use of chemicals with insecticidal, fungicidal, bactericidal properties. However, the expansion of their field application has created serious problems impacting human health and animals. In addition, excessive use of pesticides can leach into soils and water leading to land as well as groundwater pollution and wider biodiversity losses. Some of these products currently used to control pests are extremely toxic in inducing serious human diseases, such as cancer and immune and nervous system disorders. Current use of plant protection products in conventional and/or organic farming systems should be reconsidered taking in account their side effect on environment, non-target organisms, animal and human health. Such potential risk can be reduced through development, testing and demonstrating of approaches based on products safe for					















Proposal Drafting 2

Main concept:

Three experimental sites joined to **Farmer education**

"test version" formulation will be produced at M3, characterised and tested at labscale to validate its efficacy on the five target pests. These test version formulations (in liquid or powder forms) will be diluted with reused water (recovered from B. thuringiensis fermentation downstream) and assessed for their usability in agriculture application for spraying formulations on crops. After M10, several batches will be produced (WP2, M10 - M18) and will be formulated for 4 field assay compains (2 per year). Experimental conditions for field assays will be defined by 3 parameters: (i) 3 formulations associated with the 3 strains, (ii) water used to prepare the suspension to apply and (iii) the cultures and targeted pests. In each case, the efficacy will be controlled as well as the side effects including environmental impacts on water and soil (WP3 Task 3). The following table summarises the different field assays that will be realised in the three experimental units:

Target pests/Plant	Strains			Experimental units
1170: 350	BLB1*	LIP*	S22	
Phyllocnistis citrella / citrus*	Х	Х	X	TUN/SPA/TUR
Prays citri / citrus*	X	X	X	TUN/TUR
Prays oleae / Olive	X	X	X	TUN/SPA
Tuta absoluta / Tomato	X	X	X	TUN/TUR
Ectomyeloïs ceratoniae / Pomegrenate	X	х	х	TUN

^{*}In the frame of IPM-4-Citrus, BLB1 and LIP were well characterised and prelimiray field assays on Phyllocnistis citrella & Prays citri were performed on citrus trees















Proposal Drafting 3

Assign the roles:

WP leaders
Who will do what

















Main Sucess Criteria

Socioeconomic implications Project Maturity

















Thank you!











































