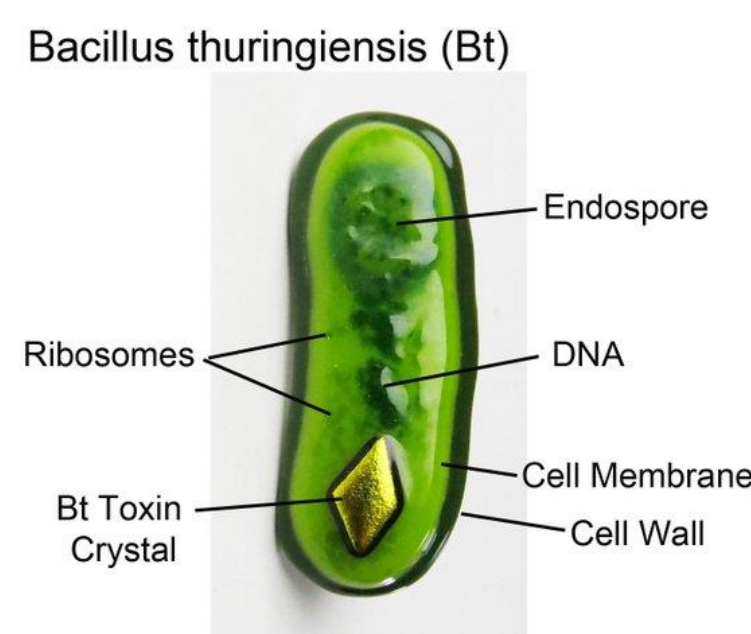


Approaching Integrated Pest Management (IPM) for citruses the innovative way

IPM-4-CITRUS

Scope

The project aims at strengthening collaborations between academic and private partners, via international mobility exchanges, as well as developing 2 new bio-pesticides active against citrus pests to then scale them up from lab to market.



The project's R&D activities are based on a multidisciplinary approach, which aims at:

- understanding and raising awareness among stakeholders about Citrus Pest Health related risk factors,
- developing an alternative Integrated Pest Management (IMP) approach based on biological control.

Along with validation through lab & field tests, the project will pave the way for potential commercial exploitation of these new bio-pesticides by designing a feasibility study for future spin-off activities and/or new products lines or exploitable licensing for our SMEs partners.

Interdisciplinary

Frame

Horizon 2020
MSCA RISE

11 partners
6 countries

801 K€ E.C. funding under
Grant Agreement N° 734921

48 months duration
(started April 2017)

Consortium



Toulouse National Institute for Applied Sciences - France



Centre of Biotechnology of Sfax - Tunisia



BioIndustry Park Silvano Fumero SPA - Italy



Julius Kühn Institute Germany



Wiki Start-up Tunisia



BIYANS Biological Institute Turkey



The Pasteur Institute of Tunis - Tunisia



Les Laboratoires MEDIS Tunisia



National Institute for Agronomic Research - France

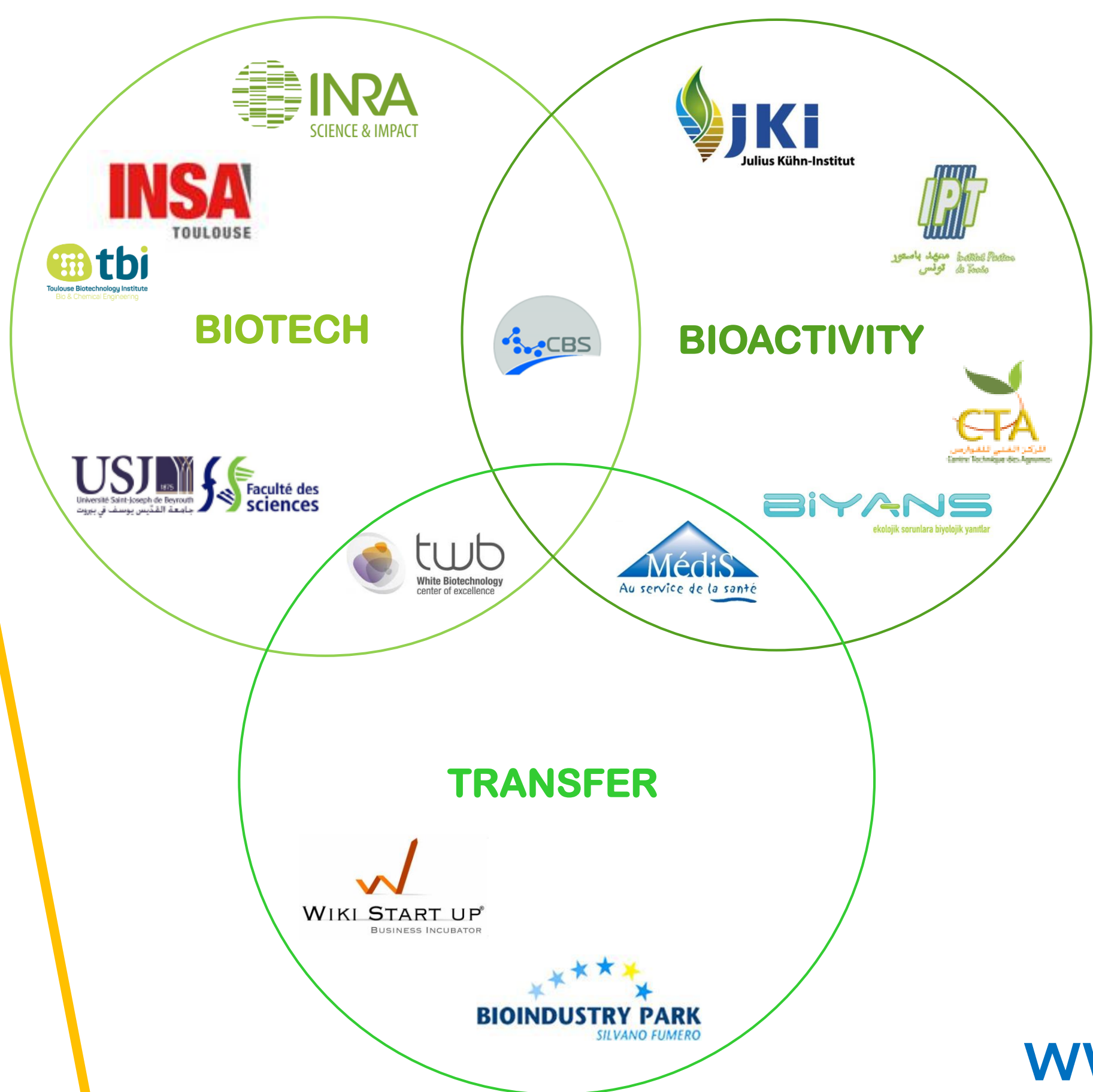


Citruses Technical Centre Tunisia



Saint Joseph University of Beirut - Lebanon

Implementation



Inter-sectoral

Inter-sectoral and international staff mobility exchanges (secondments) between partners are bringing a unique opportunity to:

- evaluate and compare strains potentiality in order to optimise bio-production and obtain high value-added bio-products,
- build up each partner's skills and reinforce early-stage researcher's training through knowledge sharing and networking.



www.ipm-4-citrus.insa-toulouse.fr

Innovation

IPM-4-CITRUS is working towards innovative and industry-related solutions, which encompasses the following:

- a robust fermentation process, which will include low cost raw materials & the use of 2 endemic *Bacillus thuringiensis kurstaki* strains,
- alternative instrumentations for real-time process monitoring & control,
- a map-out of "standards & norms for Bt production process" for the Middle-East & North Africa countries as well as Sub-Saharan African countries,
- an innovative application strategy to control leaf-mining insects through plant's epidermal, via adequate formulation.



Targeted pests

Insect larvae
Phyllocnistis citrella & *Prays Citri*



Strains used

Bacillus thuringiensis kurstaki
BLB1 & LIP

Strengthening cooperation around the Mediterranean region

International

Engaging Civil Society around the impacts of bio-pesticides

IPM-4-CITRUS also sustains a Responsible Research & Innovation approach (RRI) through the engagement of Public Society via outreach and Vocational Education via informal trainings and applied practical workshops.



Environment & Human Health



Political & Social readiness



Price & Profitability



Efficiency & Availability



This project has received funding from the European Union's Horizon 2020 Research and Innovation programme under Grant Agreement No 734921.

