EUCLID Project

EU-CHINA Lever for IPM Demonstration

Europe - China for IPM

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EUCLID: presentation

Project description

Four-year Research and Innovation Action

Funded by the EU Commission under H2020 Research and Innovation Program.

Overall objective

Secure food production for the increasing worldwide population

Develop sustainable production methods with an IPM approach on key target crops (grape, tomato, leafy vegetables)

EUCLID in numbers

3 Million € of funds to EU countries

7 countries involved

18 partners (of which 3 SMEs + 1 major grocery store brand)
Context: Pest Management is facing new challenges

Native and alien pests cause increasing yield losses to agriculture, and raise plant production costs
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EU-China: a wide partnership in EUCLID

1. INRA  
2. VIU  
3. Agrobio  
4. AgriNewtech  
5. ACTA  
6. UGent  
7. Imperial  
8. IRTA  
9. INRA Transfert  
10. Binab  
11. UdL  
12. Carrefour France  
13. Agro (Torino)  
14. Oxitec  
15. CAAS  
16. Carrefour Chine  
17. NOAH Organics  
18. ZJU
EUCLID: aims and objectives

1. DELIVERY OF THE KNOWLEDGE to the key stakeholders
2. RAPID ADOPTION
3. REDUCED DEPENDANCE ON PESTICIDES

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EUCLID: Expected impacts

“Significant economic gains (or losses reduced) for the European and Chinese agriculture”

“Effective solutions for the prevention and management of pests and invasive alien species”

“Scientific support to the development of relevant EU policies”

“Increased product quality and lower environmental impact (e.g. lower level of chemicals, less new pests)”

“Impact on a range of agricultural production and risk management practices”

“Development of science-based tools for creating strategies for improving agricultural sustainability in the context of global change”
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In practice – the work within EUCLID

WP1: Optimization of existing tools and methods

WP2: Development of innovative products and approaches

WP3&4: Field demonstration evaluation

WP5: Transfer to end-users

- Farmers associations
- Experts in policy
- SMEs
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Status of the project

Examples of achievements in R&D

- A new *Dicynphus* species commercially available against *Tuta absoluta* on tomato crops.
- Commercially available *Trichoderma* spp. and *Bacillus subtilis* applied at **nursery level** against Fusarium wilt in lettuce.
- **High protective efficacy of Califol product (ANT)** as spray-application against powdery mildew on tomato (~100%).
- **Botanical pesticides** for the control of **aphids** and **whiteflies** under greenhouse conditions.
- **High quality compost** with the presence of beneficial microorganisms to control soil-borne pathogens on potted plants and in open field.
- **DOSA3D** for pesticide dose reductions in vineyards.

[www.dosa3d.cat/en](http://www.dosa3d.cat/en)
Examples of achievements in implementation of IPM packages

Tool to evaluate cost-benefit of innovative IPM packages

- Template for performance assessment for additional measures or combinations of methods
- Relies on multiple performance indicators relevant for various stakeholders
Examples of achievements in implementation of IPM packages

- Field experiments and demonstrations in 4 countries, both in Europe and China
- New farmers adopting EUCLID methods, e.g. in China through Spring Rain (CR) network
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Examples of achievements in implementation of IPM packages

IPM = General prophylactic and supportive measures + Continuous monitoring and decision making + Curative methods

- **Dosa-3D**
  - on mites & mildew

- **ANT -Ca**
  - on powdery mildew

- **Mach 1**
  - on soil & aerial pathogens (fusarium, sclerotinia, botrytis)

- **BINAB PGS ANT -Compost**
  - Predator “in first” (nursery) or before initiating crops

- **BINAB Air ANT –Ca**
  - on powdery mildew

- **Dicyphus**
  - on Tuta absoluta

Residues analysis
Example of achievements in project communication

**Farmers**
- >20 field visits in France, Italy, Spain and China
- more than >300 beneficiaries (including farmers, advisors, technicians, industry)
- *Brochure to Farmers and Advisors* in EN, FR, IT, ES, CH

**Policy Makers**
- direct interaction with all the actors in the agri-food system: IPM developers, farmers, advisors, retailers, consumers and policy-makers
- meetings and interviews with policy makers and related organizations at EU, national and local levels (52 representatives, 39 institutions)
- on-line survey for consumers in 6 languages (660 respondents)
- exchange with farmers, advisors and retailers involved in different EUCLID activities
- *Recommendations for Policy Makers*

**Wider Public**
- dissemination to the different beneficiaries and stakeholders
- involvement of the general public (e.g. consumers’ questionnaire)
- detailed info on Demo sites and field visits to support the dissemination to farmers
- almost 100 publications, many in preparation
- 9 Newsletters
- TOTAL Stakeholders reached: > 30,000 in EU and China
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