

# Prevention and control of HLB vector insect in citrus family farming

ARGENTINA / BOLIVIA / PARAGUAY / URUGUAY



Webstory



## The technological solution

Integrated Pest Management (IPM) technology with focus on HLB vector control (*Diaphorina citri*) in citrus is proposed, through monitoring, use of safe products and natural enemies (*Tamarixia radiata*, *chrysopids*). Monitoring activates an alert system for family growers and other actors.



## Description

Adaptation and dissemination of IPM through demonstration lots (DL) in family citrus establishments, selected with participatory methodology. Training and rising social awareness about HLB vector control and disease prevention. Monitoring of sustainability, phytosanitary quality and economic analysis.



## Results

- 16 demonstration lots (DL) with integrated pest management (IPM) together with 16 conventional lots (LC) located in family establishments;
- 141 pests and diseases monitoring carried out;
- 3 agreed protocols: DL selection, monitoring procedures, field notebook;
- 1 natural enemies release (*Tamarixia radiata*).
- 31 socialization and participatory selection of LDs workshops held with 591 attendees; 534 trained.
- 1 prototype portal BioTic HLB -INTA Fontagro- for growers with alerts, training and integrated pest management instructions.

**711**

Trained in vector and HLB and Fruit quality

**16**

Demonstration lots of IPM

**366**

Monitoring activities held regarding pests and diseases control

**1**

Early alert system prototype: web portal/smartphone

**2**

Biological control performed

**1**

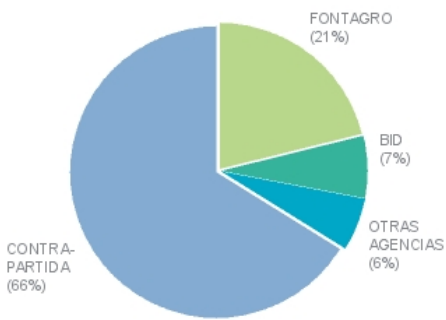
Virtual course for 200 monitors (starts in August 2021)

**ABOUT FONTAGRO**

FONTAGRO is a unique cooperation mechanism for agricultural innovation in Latin America and the Caribbean (ALC) and Spain, that works through regional platforms. It is composed of 15 countries that have contributed capital exceeding 100 million dollars and the Inter-American Development Bank (IDB), which is its legal representative.

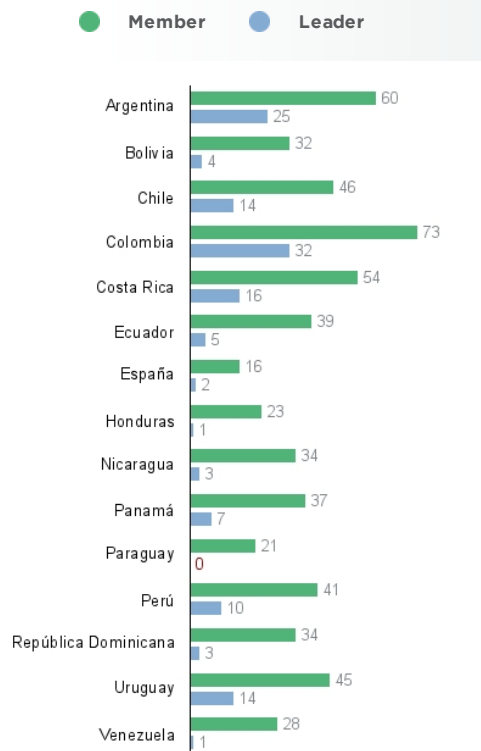


ORIGIN OF RESOURCES



- **Counterpart contribution**  
82.071.247
- **FONTAGRO**  
25.600.468
- **IDB**  
8.906.197
- **Other agencies**  
7.859.078

PARTICIPATION AND ROLE IN CONSORTIUMS SINCE 1998



FONTAGRO IN NUMBERS

**167** Number of projects approved

**124.4** Approved total amount US\$  
MILLONES

**7.9** Contribution from other agencies  
MILLONES

**31** Benefited countries

**63** Generated technologies

**15** New technologies for ALC

**8** Technology of global relevance

MEMBER COUNTRIES

- |            |                    |           |          |
|------------|--------------------|-----------|----------|
| Argentina  | Bolivia            | Chile     | Colombia |
| Costa Rica | Dominican Republic | Ecuador   | Honduras |
| Nicaragua  | Panama             | Paraguay  | Peru     |
| Spain      | Uruguay            | Venezuela |          |