

# Less vulnerable and more adapted to climate change rice cropping.

COSTA RICA / COLOMBIA / DOMINICAN REPUBLIC



 Webstory



## The technological solution

The innovation is the System of Rice Intensification (SRI) that reduces plant density, uses less seeds for planting, improves soil condition, consumes less irrigation water and promotes the development of strong roots with greater resistance to drought and flooding, increasing the crop's resilience and adaptation to climate change.



## Description

Project aimed at reducing the biophysical and economic vulnerability of rice cultivation and improving its adaptation to climate change through the validation of a technological innovation that increases productivity, income generation by cost reduction and achieves greater efficiency in the use of resources such as seeds, water and labor.



## Results

- SRI saved costs and was more productive and profitable.
- Due to a greater number of spikes, panicles, tillers and root length and weight, the yield was higher (up to 25%) with savings in seeds (up to 96%) and water (up to 45%).
- The lower investment in fertilizers and seeds caused an average cost savings of 10%, with 43% higher profits in the Dominican Republic and 68% in Colombia.
- The mechanization (filling of trays, transplantation and weeding) of the crop resulted in 36% savings in total costs in Colombia and 10% in the Dominican Republic.

25

% more yield

96

% less seeds for planting

45

% water savings

55

% higher profitability

## 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**  
93.177.555

**FONTAGRO**  
28.989.468

**IDB**  
9.922.700

**Other agencies**  
9.809.078

### PARTICIPATION AND ROLE IN CONSORTIUMS SINCE 1998



### FONTAGRO IN NUMBERS

**193** Number of projects approved

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

**9.8** Contribution from other agencies  
MILLONES

**32** Benefited countries

**63** Generated technologies

**15** New technologies for ALC

**8** Technology of global relevance

### MEMBER COUNTRIES

