FONTAGROTECH

Algorithms to estimate the NDVI-PPNA relationship in grasslands

ARGENTINA / UNITED STATES / URUGUAY

ⓘ **Webstory**

The technological solution

Use of information provided by remote sensors with field data and simulation models to calibrate the relationship between the Normalized Green Index (NDVI) and the Primary Net Air Productivity (PPNA) for different forage resources and environments.

Description

The algorithms provide regional estimates of primary productivity derived from satellite images and other environmental sensors in real time. Information is provided to producers with estimates of forage productivity at the pasture level on a monthly basis.

Results

- A model of the NDVI-PPNA relationship for grasslands developed.
- Weather forecast information and pasture growth with a monthly frequency.
- Training for technicians and producers.
- Satellite and climatic information of the intervention area.

210
Trained farmers

1000000 ha
Evaluated area

10
Publications

5
Thesis

MAIN DONORS

PARTICIPATING ORGANIZATIONS

UECOL

FONTAGROTECH

## 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.
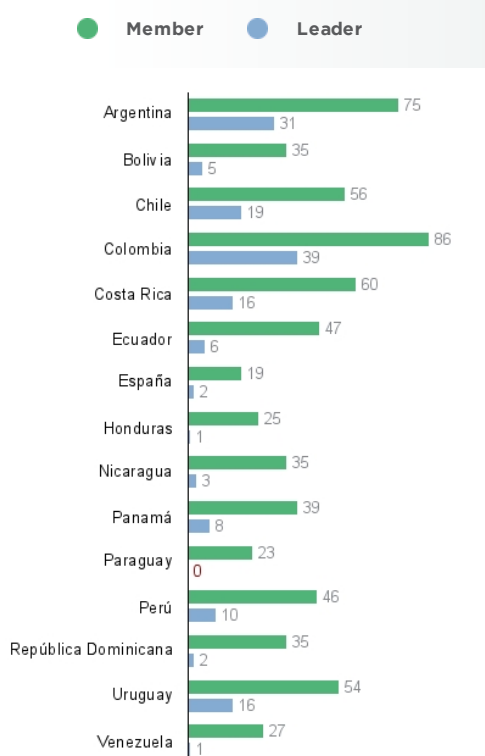
ORIGIN OF RESOURCES

FONTAGRO (20%)

BID (7%)

OTRAS AGENCIAS (7%)

CONTRA-PARTIDA (66%)
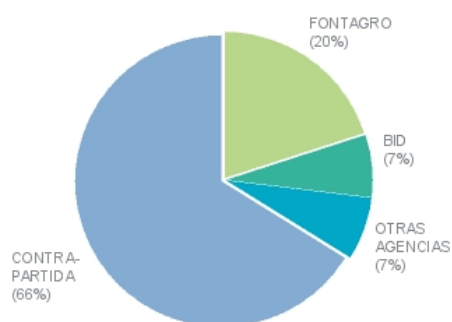
- **Counterpart contribution**
  93.177.555
- **FONTAGRO**
  28.989.468
- **IDB**
  9.922.700
- **Other agencies**
  9.809.078

PARTICIPATION AND ROLE IN CONSORTIUMS SINCE 1998

● Member   ● Leader

Country	Member	Leader
Argentina	75	31
Bolivia	35	5
Chile	56	19
Colombia	86	39
Costa Rica	60	16
Ecuador	47	6
España	19	2
Honduras	25	1
Nicaragua	35	3
Panamá	39	8
Paraguay	23	0
Perú	46	10
República Dominicana	35	2
Uruguay	54	16
Venezuela	27	1

FONTAGRO IN NUMBERS

193 Number of projects approved

141.9 MILLONES Approved total amount US$

9.8 MILLONES Contribution from other agencies

32 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

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