

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.



ABOUT FONTAGRO

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

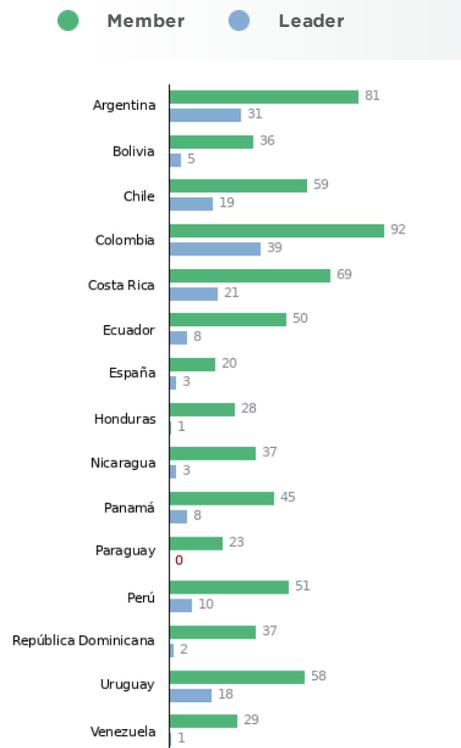


ORIGIN OF RESOURCES



- **Counterpart contribution**
99.276.177
- **FONTAGRO**
31.211.068
- **IDB**
9.922.700
- **Other agencies**
11.140.612

PARTICIPATION AND ROLE IN CONSORTIA SINCE 1998



FONTAGRO IN NUMBERS

205 Number of projects approved

151.6 Approved total amount US\$
MILLONES

11.1 Contribution from other agencies
MILLONES

33 Benefited countries

63 Generated technologies

15 New technologies for LAC

8 Technology of global relevance

MEMBER COUNTRIES

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