It is expected to reduce the emission intensity in cattle production systems by 10% through the implementation of three local technological innovations for the quantification and mitigation of GHG emissions.

**The technological solution**

It is expected to reduce at least 10% of GHG emissions by supplementing a local functional additive and reduce the cost and time to obtain information on both forage intake and digestibility, enteric methane emissions, and ingestive behavior in grazing cattle. Thus, optimizing the sustainability of the livestock system.

**Results**

Results and Expected Indicators:

1. A system based on remote sensors for monitoring ingestive behavior and quantifying enteric methane emissions in grazing cattle.

2. Recommendations for the use of a feed additive of local origin to reduce enteric methane emissions in pastoral cattle farms in LAC

3. Fecal NIRS technology to quantify consumption and digestibility in grazing cattle in LAC

4. Direct beneficiaries strengthened and/or trained in the three technological innovations to reduce methane emissions in ruminants in pastoral livestock systems

**Description**

With this initiative, three local technological innovations will be implemented to reduce the cost and time of evaluating both forage intake and digestibility, enteric methane emissions, and ingestive behavior of cattle in pastoral systems. At the same time, strengthen technical-scientific capabilities and disseminate knowledge.

**Results and Expected Indicators:**

1. A system based on remote sensors for monitoring ingestive behavior and quantifying enteric methane emissions in grazing cattle.

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**2**

It is expected to generate 2 databases.

**12**

It is expected to develop 12 workshops with beneficiaries.

**20**

Students, teachers, and researchers are expected to be trained.

**1**

The expectation is to validate a laboratory methodology

**2**

The expectation is to develop two guides for producers

**6**

The expectation is to generate six scientific documents
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

- Member: 193
- Leader: 141,900,000

FONTAGRO IN NUMBERS

- Number of projects approved: 193
- Approved total amount US$: 141,900,000
- Contribution from other agencies: 9,800,000
- Benefited countries: 32
- Generated technologies: 63
- New technologies for ALC: 15
- Technology of global relevance: 8

MEMBER COUNTRIES