FONTAGROTECH

Sustainable livestock farming in the Amazon of Peru and Ecuador

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Webstory

Technological solution

1. Characterization of dual-purpose livestock production systems. 2. Evaluation of the effect of supplementation with agro-industrial residues on animal productivity and the net emission of methane in vitro.

Technological description

The circular economy approach, which incorporates the use of agro-industrial waste, increases the productivity of the livestock system, reduces greenhouse gas emissions and pollution, and can increase profit margins.

Impacts and results

- Baseline study of dual-purpose livestock systems prevalent in the Peruvian and Ecuadorian Amazon.
- Develop of an inventory of available agroindustrial by-products with potential use as cattle feed.
- Nutritional values of available agroindustrial by-products.
- Effect of supplementation with agro-industrial by-products on productive performance of cattle.
- Predictions of enteric methane emissions from the inclusion of by-products and/or forage in the diet of ruminants.
- Life cycle analysis (LCA) of dual-purpose livestock systems.
- Development of a virtual innovation platform on bovine supplementation with agroindustrial by-products.
- Dissemination of activities.

284 Dual-purpose cattle systems

19 Agro-industrial by-products

3 Breeds of cattle

284 Interviews with farmers

2 Workshops with farmers

46 Agrifood enterprises with byproducts of interest for animal feed

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