



Sustainable livestock farming in the Amazon of Peru and Ecuador

Sustainable intensification of tropical livestock farming, with greater productivity and reduced environmental impact, through the use of available agro-industrial by-products. The initiative generates synergy between producers and institutions.



Sustainability of livestock farming systems

The implemented initiative

The project aims to sustainably intensify dual-purpose livestock farming in the Peruvian Amazon by implementing supplementation with agro-industrial by-products. The process starts with the characterization of livestock production systems and the establishment of a baseline to assess current conditions. Subsequently,

the impact of supplementation on bovine productivity and the reduction of methane emissions in vitro will be analyzed. This information is processed through simulation models, allowing for the development of practical recommendations adapted to local production systems and improved decision-making.

Supplementation with agro-industrial by-products

The technological solution

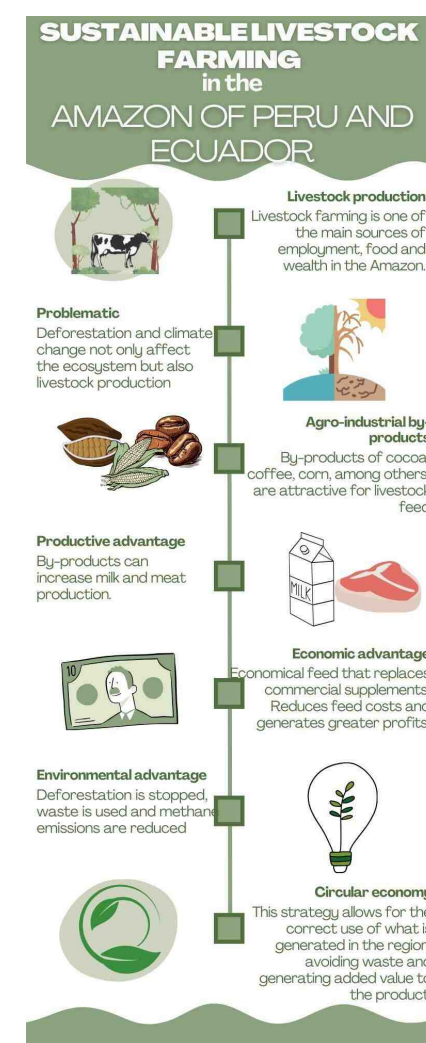
Currently, agro-industrial by-products are not widely used and have only nominal economic value. However, they can generate significant added value if used for livestock feed with benefits not only for producers but also the environment. This proposal of sustainable intensification is eco-friendly and contributes to improving the well-being of families dedicated to livestock farming through a circular economy approach.

This approach incorporates the use of agro-industrial and crop waste as supplements to pasture, which improves the efficiency of base resource (pasture) use, increases livestock system productivity, and reduces greenhouse gas emissions and pollution. In addition, this type of system can contribute to decreasing pressure on forest resources and improving soil and water resource use.



Peru / Costa Rica / Ecuador / New Zealand

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MÁS INFO



Results

The expected results of this project are:

- Baseline of dual-purpose livestock systems prevalent in the Amazon.
- Inventory on the availability of agro-industrial by-products with potential use in cattle feed.
- Bromatological characteristics of available agro-industrial by-products

- Effect of supplementing cattle with agro-industrial waste on their productive performance (milk and meat).
- Prediction of enteric methane emissions from the inclusion of by-products.
- Life cycle analysis of dual-purpose livestock systems
- Development of a virtual innovation platform on supplementing cattle with agro-industrial by-products.

Main donors



Participating Organizations

