



Latin America and the Caribbean working in dairy sustainable intensification - LACTIS

Eleven countries from LAC work together characterizing dairy production systems of the region, modelling improved systems and validating and implementing environmentally, economically and socially sustainable dairy intensification systems.



17
validation farms



391.152
Farmers indirectly benefited



650
Downloads of modelling tool



+70 %
dairy systems analysed



24
sustainability indicators



227
Downloads of modelling tool

A common language for economic, social, and environmental sustainability of dairy production systems in Latin America and the Caribbean.

Initiative

To talk about sustainable intensification in LAC was a challenge, given the high diversity of dairy production systems, the lack of characterization of these systems and the cultural differences between the different countries. Through Project LACTIS a cooperation platform was

developed which enabled the establishment of a baseline and development of common indicators in order to characterize systems, validate improved systems, and at the same time strengthen technicians and researchers' abilities while spreading knowledge.

Farm systems modelling as a tool for evaluating sustainable intensification strategies.

Tech solution

To evaluate sustainable intensification strategies, the 'Dairy systems simulation model' (OLE! v5.3) and the 'Dairy Monitor' (ML2) were developed and adapted to the dairy production systems of the region (LAC). The simulation model allows for modelling of baseline production systems in each country and under improved scenarios using few inputs that are easy to obtain on-farm, evaluating the

biophysical, economic, social, and environmental impact. 'Dairy Monitor 2' allowed the monitoring of the physical, economic, social, and environmental indicators on commercial farms where planned changes were implemented. The proposed scenarios were validated on monitored commercial farms, with the interaction of technicians and farmers, resulting in knowledge exchange and dissemination.

The full team of the 11 countries during a Workshop in INIA Uruguay, 2019



MORE INFO



Impacts and Results

- Establishment of baseline for regional dairy production systems, through the classification and description of production systems in 11 LAC countries.
- Selection of improved strategies for sustainable intensification, through the agreed selection of key performance indicators of biophysical, economic, social and environmental performance.
- Simulation of sustainable

- intensification strategies in each country through the development and adaptation of the 'Dairy systems simulation model' applicable to LAC dairy systems.
- Development and validation of improved systems in 17 pilot farms.
- Start-up of an experimental study at INTA Rafaela (TAMBO ROCA 2030 Project).
- Capacity building of 450 field technicians and 200 farmers.

Main Donors

