

Sustainable management of creole cattle genetic resources



i Webstory



Technological solution

In response to the risk of losing Criollo genetics and the high emissions of the sector, the project will conserve these populations and increase their economic value within production systems. The first regional baseline of methane emissions for Criollo cattle will be established, standardizing measurement methods. The identification of genes associated with lower methane production will facilitate the selection of low-emission animals, reducing the carbon footprint of livestock systems. The initiative will directly benefit more than 2,000 people and indirectly 10,000, improving herd productivity and strengthening the region's technical and scientific capacities to transition toward a more resilient model.




Technological description

The expected technology will integrate genomic information, genetic evaluation, and field-based methane measurement to select more efficient, better-adapted, and environmentally sustainable Creole cattle. This technology will make it possible to identify animals with superior traits for growth, adaptation, and low methane emissions, incorporating these traits into genetic selection criteria. Through remote sensors, genotyping, and cryopreservation of genetic material, the strategic use of native genetic resources will be strengthened in resilient livestock systems.




Impacts and results

In response to the risk of losing Criollo genetics and the high emissions of the sector, the project will conserve these populations and increase their economic value within production systems. The first regional baseline of methane emissions for Criollo cattle will be established, standardizing measurement methods. The identification of genes associated with lower methane production will facilitate the selection of low-emission animals, reducing the carbon footprint of livestock systems. The initiative will directly benefit more than 2,000 people and indirectly 10,000, improving herd productivity and strengthening the region's technical and scientific capacities to transition toward a more resilient model.




+ 2000
Personas

Beneficiaries



4 Países

Countries with an inventory of Creole cattle populations



2
Unidades

Countries with an inventory