

Innovation for pasture management

URUGUAY, ARGENTINA, COSTA RICA, UNITED STATES

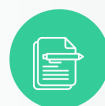


Webstory



Technological solution

Implement a resident service in the cloud, user friendly, and accessible via web with a browser or through an app for computers and smartphones, which with the use of drones and simulation models allow optimizing the management of paddocks and increasing forage production.



Technological description

Three countries formed an innovation platform in LAC; together they developed a software to simplify and optimize the producer's decision making in relation to the grazing platform. Also, a device for remote measurement of available biomass (using drones), was developed.



Impacts and results

The project formed a regional platform of three countries aimed at improving forage self-sufficiency and sustainability on family livestock and dairy farms. Its central output is a web-based pasture management tool, developed and validated with end users, whose experience allowed it to be adjusted to their real needs and made easier to use. The tool is designed to increase the forage produced, whether for direct grazing or for conserved reserves. An API was also built, allowing the tool to be integrated into other platforms and adapted to different contexts, and drone use was calibrated for remote biomass estimation in species representative of the three countries. A grazing network sustains continuous exchange between facilitating technicians and researchers, and the training of technicians and producers was decisive for implementation. Since the project intervention ended, the system has continued to add users and hectares monitored.



573

Farms uploaded



1.858

Outreach to general public



149

Researchers and technicians involved



30 %

Female technicians



44

Validation farms



103.331

Number of biomass measurements uploaded



103.238

Number of hectares affected



3

Calibration by drone

PARTICIPATING ORGANIZATIONS

MAIN DONORS

