FONTAGROTECH

New horizons in AgTech

URUGUAY,ARGENTINA,COSTA RICA,PANAMÁ

Webstory

Technological solution

3RWeb is a digital platform designed to optimize pasture harvest and utilization in pastoral systems. It operates as a cloud-based service that collects and processes farm data to generate key indicators (stock, growth rate, and residuals), enabling real-time decision-making for grazing and forage reserves. Its adoption has proven to increase pasture harvest by up to 30%, enhancing the profitability and sustainability of production systems. This new project phase will expand its functionalities, incorporating animal nutrition modules, GHG emissions estimation, and integration with other digital services via APIs. Additionally, producers and technicians will be trained for effective implementation, and its scalability to more FONTAGRO member countries will be promoted. With a focus on digitalization and data-driven decision-making, 3RWeb contributes to improving the efficiency, resilience, and sustainability of livestock production.

Technological description

The technological solution proposed in this project is the expansion of the digital tool "3RWeb," a web-based platform designed to optimize pasture management in pastoral systems. This tool, previously validated in the "Innovation for pasture management" project, facilitates strategic decision-making to maximize forage production and harvest in the region's pastoral systems.

Impacts and results

The expected results include increased adoption of 3RWeb in Uruguay, Argentina, and Costa Rica, with expansion to other FONTAGRO member countries. A pasture harvest increase of at least 30% is anticipated in participating farms, improving productivity efficiency and reducing reliance on external inputs. New functionalities will be developed, such as animal nutrition modules and GHG emissions estimation, along with integration with other digital platforms via APIs. More than 400 producers and technicians will be trained to strengthen pasture management in pastoral systems. Regional benchmarks will also be created to compare productivity efficiency and sustainability. Finally, the solution will be validated in commercial and experimental farms, promoting its scalability and consolidating a regional AgTech innovation platform for pasture management in Latin America and the Caribbean.

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