

Proximal sensing of Urochloa grasses to increase selection accuracy

Project Title: P1685 - Product Line 3.2.1: Improved feed & forage germplasm and new tools and technologies for breeding

Description of the innovation: Digital colour image and spectral analysis techniques that improve precision and reduce time for tropical forage grass phenotyping.

New Innovation: No

Stage of innovation: Stage 2: successful piloting (PIL - end of piloting phase)

Innovation type: Biophysical Research

Geographic Scope: Global

Number of individual improved lines/varieties: <Not Applicable>

Description of Stage reached: Piloting successfully finished

Name of lead organization/entity to take innovation to this stage: CIAT (Alliance) - Alliance of Bioversity and CIAT - Regional Hub (Centro Internacional de Agricultura Tropical)

Names of top five contributing organizations/entities to this stage:

- Papalotla - Semillas Papalotla SA de CV

Milestones: No milestones associated

Sub-IDs:

- 11 - Adoption of CGIAR materials with enhanced genetic gains

Contributing Centers/PPA partners:

- CIAT (Alliance) - Alliance of Bioversity and CIAT - Regional Hub (Centro Internacional de Agricultura Tropical)

Evidence link:

- <https://doi.org/10.1071/CP19324>

Deliverables associated:

- D23948 - Report on validation of remote sensing to predict important parameters for pasture management under tropical conditions (<https://hdl.handle.net/10568/111375>)
- D10518 - 1 MSc thesis available on "Remote Sensing for Sustainable Livestock Production Systems in Colombia" including the establishment of machine learning classifier for identifying grassland areas (<https://hdl.handle.net/10568/106827>)

Contributing CRPs/Platforms:

- Livestock - Livestock