

A rapid approach for informing the prioritization of degraded agricultural lands for ecological recovery: A case study for Colombia

Project Title: P1599 - Catalyzing farmer innovations and the adoption of promising management and technological options to facilitate the development of low-carbon cattle value chains in Latin America

Description of the innovation: This study presents a rapid approach to identifying and prioritizing degraded agricultural lands for low-cost ecological recovery. Using publicly available remote sensing datasets at the national level, we apply the proposed methodology to Colombia, where we identify opportunities for cost-effective interventions on productive lands with moderate to light degradation, based on biophysical indicators of soil degradation.

New Innovation: Yes

Stage of innovation: Stage 1: discovery/proof of concept (PC - end of research phase)

Innovation type: Research and Communication Methodologies and Tools

Geographic Scope: National

Country(ies):

- Colombia

Description of Stage reached: We identify areas experiencing underutilization, where sustainable land-use systems (SLUS) can be used to sustainably intensify production, and overutilization, where SLUS can be used to mitigate soil degradation. We identify and map over 10.3 million ha of land with potential for ecological recovery.

Name of lead organization/entity to take innovation to this stage: <Not Defined>

Names of top five contributing organizations/entities to this stage: <Not Defined>

Milestones: No milestones associated

Sub-IDs:

- 26 - Agricultural systems diversified and intensified in ways that protect soils and water
- 22 - Land, water and forest degradation (Including deforestation) minimized and reversed

Contributing Centers/PPA partners:

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

Evidence link: <https://hdl.handle.net/10568/110304>

Deliverables associated: <Not Defined>

Contributing CRPs/Platforms: <Not Defined>