ARR Mavalle Natural Rubber Plantations

Project Type	Standard	Location	Project ID
AFOLU - ARR	BioCarbon Registry	Departamento del Meta - Colombia	PCR-CO-164-142-001 December 29, 2019

Why here and why now?

Agroindustrial Transition and Integrity Re-rating in the Orinoquía

The Altillanura is characterized by production systems of marginal profitability. The reported stocking rate of 0.09 to 0.39 heads per hectare denotes an extremely extensive activity. This low CAPEX model contrasts with the intensive forestry agroindustry. While livestock farming requires one cowherd for 300-800 hectares, rubber plantations require one worker for every 3 hectares.

The Colombian Orinoquía offers optimal biotic conditions for carbon removal through agroforestry systems on previously degraded soils. With the entry into force of Directive (EU) 2024/825 on Green Claims in 2026, the market demands verified carbon removal assets (CDRs) to offset residual emissions. Mavalle offers a mature carbon sink with 16 years of continuous operation in an environment of re-rating toward high-integrity credits.

What is Mavalle and why does it matter?

High-Efficiency Biogenic Removal through Rubber Sinks

Mavalle is an AFOLU initiative for Afforestation, Reforestation and Revegetation (ARR) that manages 8,632.91 hectares of Hevea brasiliensis. Registered with the BioCarbon Standard, manages natural rubber plantations in the municipalities of Puerto López and Puerto Gaitán, in Meta, Colombia.

With a crediting period running from 2009 to 2039, the asset combines actual agro-industrial production with certified carbon sequestration.

The asset has accumulated 1,507,424 tCO2e of certified removals after completing seven verification cycles.

It records an actual biological efficiency of 174.61 tCO2/ha, exceeding ex-ante model projections by 4.69%.





30 years	BCR0001	A
Accreditation period	Applied methodology	Visso internal rating

TERRITORY WITH INSTITUTIONAL BACKING

Financial backing and legal certainty regarding land tenure

- The asset is financially backed by Corficolombiana and Grupo Aval, which has been ranked in the top 1% for sustainability by S&P Global 2025.
- Land tenure is private and consolidated through commercial agreements with the companies Pajonales and Valora.
- This structure eliminates legal risks related to ownership and ensures the institutional permanence of the carbon sink through 2039.

TRANSPARENCY AND TRACEABILITY

Global Carbon Trace Mavalle

No non-conformities in any of the 7 audits.

GLOBAL IMPACT | LOCAL ACTION

ARR Mavalle Natural Rubber Plantations

1,507,424 tCO_2e
Verified cumulative removal

174.61 tCO_2/ha
Actual capture (+4,69% based on PDD)

~180,000 tCO_2e
Latest period (2024–2025)

8,632.91 ha
Area under active management

829 direct jobs
45% of the municipality of Remolino, Meta

66%
Certificates retired

It's not just about volume: this is an asset with a broad geographic reach, operational continuity, and proven results in highly demanding markets. The yield per hectare exceeds the original projection, validating the silvicultural model.

Integrity Drivers

Financial additionality is robust, given that the massive expansion occurred during a period of rock-bottom rubber prices (2013–2018), making carbon the anchor of viability.

The operational track record eliminates "supply risk" as 56.6% of the credit period has already been executed.

The binding Final Act of Prior Consultation with the Wacoyo Reservation secures the social license to operate.

Project Scale and Continuity

- The project manages 98.81% of the total eligible area included in the PDD (8,736.22 ha)
- Biological permanence is mitigated through a 15% buffer reserve to cover potential reversals.
- As a mature carbon sink with 16 years of growth, the critical phase of biological establishment has been surpassed.

Key sensitivities

1. Defoliation

Intense natural defoliation has been detected in 2025 in the Agrocumare and Palomera clusters, which could put pressure on future biomass growth.

2. Information Gap

There is a gap in public information that prevents verification of the claim that more than 60% of the certificates have actually been retired.

3. EU Market context

The use of credits is restricted for "product neutrality" claims in the EU due to the risk of legal sanctions.

4. Economic dependence

The single-employer model creates systemic vulnerability. The stability of Remolina's social fabric is intrinsically linked to the price of rubber and the investment reports of the parent company.

Business Model

Agro-industrial asset financially anchored to carbon

- Carbon revenues make it possible to sustain the manual tapping technique, which relies heavily on skilled local labor.
- Verified biogenic removals are monetized, commanding a price premium over conventional avoidance credits.

Mavalle is a natural carbon removal asset with a large-scale footprint, a track record verified over seven consecutive cycles, and auditable governance backed by one of Colombia's most financially sound groups.

An asset that stands up to scrutiny, not just a good story

Mavalle is a natural carbon removal asset with a large-scale footprint, a track record verified over seven consecutive cycles, and auditable governance backed by one of Colombia's most financially sound groups.
It isn't here to inspire—it's here to stand up to an audit.

TERRITORIAL CO-BENEFITS (GEDSI)

Mavalle's co-benefits exist because they are embedded in a real and traceable operation. The project generates formal employment for 45% of the working population of Remolino, Meta, and maintains a binding ethnic investment agreement worth 2.22 billion pesos with the Wacoyoa Indigenous Reserve for 30 years.

In terms of biodiversity, the 8,632.91 hectares are home to 4,500 white-tailed deer and 63 palm bears under active monitoring. FSC certification valid through 2030 and riparian restoration programs complement an impact profile that goes beyond tCO_2e. All reported SDGs are anchored in operations, not in declarations.

SUSTAINABLE DEVELOPMENT GOALS

3 GOOD HEALTH AND WELL-BEING

8 DECENT WORK AND ECONOMIC GROWTH

15 LIFE ON LAND

FOR MORE TECHNICAL INFORMATION, WE HAVE A REDFLAG ANALYSIS CONDUCTED BY INDEPENDENT EXPERTS, AS WELL AS A CO-BENEFITS ANALYSIS OF THE PROJECT PREPARED BY VISSO.

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