



# BOSQUE COLOMBIANO ORG

CORPORATE  
MANAGEMENT  
REPORT

# 2025

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BOSQUE **COLOMBIANO**

*Protecting · Conserving · Restoring · Andean and Amazonian Ecosystems of Colombia*

## MESSAGE TO OUR CONSERVATION PARTNERS

### 2025: Scaling Impact Through AI, Connectivity, and Territorial Sovereignty

Dear friends and partners, 2025 has been a defining year for Bosque Colombiano Org. Across Colombia's most remote Andean and Amazonian ecosystems, we demonstrated that conservation technology and community leadership are not opposing forces — they are the same force. This was the year our indigenous allies, led by the Ette-Ennaka people of the Sierra Nevada de Santa Marta, stepped decisively into the roles of AI conservationists, data scientists, and environmental defenders.



We expanded the Heroes of Tomorrow Indigenous Child Development Center to serve 200 Ette-Ennaka children. We launched our flagship STEM for Biodiversity Conservation program, training 1,500 Afro-Colombian women in AI-powered conservation tools. SCANWILD, our AI wildlife trafficking detection platform, exceeded 10,000 user reports — making it the most active community-based wildlife crime reporting system in Colombia. The F5 STEM & AI Grant, which we proudly received in 2025, allowed us to train 300 Afro-Colombian women and girls as AI conservationists.

*"The forests of Colombia are not merely trees — they are cultures, water systems, and the lungs of our continent. In 2025, indigenous women proved they are also the technologists of our future."*

Our Climatically Integrated Water Management Program now serves 450 Ette-Ennaka and Ticuna families with solar-powered clean water. Forty hydroponic gardens provide food security to 600 families across 12 communities. And our Starlink network now covers 8 indigenous territories, enabling real-time biodiversity monitoring.

Conservation cannot stop. Together, we are proving it will not.

### General Manager

Bosque Colombiano Org

12

Projects Executed

65,000 ha

Linked to SINAP

1,800+

Families Benefited

35,000+

People Reached

8

Indigenous Communities

## INSTITUTIONAL IDENTITY







### MISSION

A non-profit NGO dedicated to the conservation of endangered species and threatened Andean and Amazonian ecosystems, working alongside indigenous communities to protect habitats, promote sustainable use of natural resources, and restore degraded areas — integrating ancestral knowledge with AI and appropriate technology.

### VISION

Colombia as a global reference for community-led, AI-integrated conservation — where indigenous communities lead the defense of their biodiversity and women of color become the technologists and scientists of environmental justice.

### GUIDING PRINCIPLES

-  Territorial sovereignty of Ette-Ennaka, Ticuna, Arahuc, Kamsá and Quechua peoples
-  AI and STEM as tools for indigenous and Afro-Colombian empowerment
-  Water and ecosystem integrity as a human right
-  Gender equity: women of color as leaders in STEM and conservation
-  Appropriate technology for territorial resilience
-  Transparency and rigorous impact monitoring

## NEW IN 2025: F5 STEM & AI GRANT PROGRAM

*In 2025, Bosque Colombiano Org was awarded the F5 STEM Education & AI Grant (\$50,000 USD), recognizing our commitment to increasing access to STEM and AI education for women and girls of color. This grant directly powered our flagship AI for Conservation program, training 300 Afro-Colombian women in cutting-edge conservation technology.*

🎯 GRANT OBJECTIVE	✅ RESULTS & INDICATORS		
Strengthen capacities of 300 Afro-Colombian girls and women in AI applied to biodiversity conservation, forming a network of technological conservationists who actively protect Amazonian ecosystems.	Indicator	Target	Status
	AI proficiency achieved	80% of 300 participants	☑ Met
<b>📋 KEY ACTIVITIES</b> <ul style="list-style-type: none"> <li>▶ 30 AI workshops (in-person + virtual) on data analysis, computer vision &amp; predictive modeling</li> <li>▶ Science Fair: 20 AI-driven conservation prototypes presented by beneficiaries</li> <li>▶ Online AI training platform for Afro-Colombian communities (300 users)</li> <li>▶ Afro-Colombian Educational Secretariat on AI applied to conservation</li> <li>▶ 1 hackathon — 300 women devising AI solutions to wildlife trafficking</li> <li>▶ 50 scholarships for technical AI training at Universidad del Amazonas</li> <li>▶ SCANWILD mobile app — 500 wildlife trafficking reports submitted Year 1</li> </ul>	Science fair AI projects	20 projects / 5 implemented	☑ Met
	Online platform users	300 users / 80% completion	☑ Met
	Secretariat sessions	10 mentorship sessions	☑ Met
	Hackathon prototypes	3 funded AI prototypes	☑ Met
	Scholarships granted	50 scholarship recipients	☑ Met
	SCANWILD reports	500 verified reports	🔄 In Progress
	<b>100% of beneficiaries are women of color</b>		

### 1. HEROES OF TOMORROW — ETTE-ENNAKA INDIGENOUS CHILD DEVELOPMENT CENTER



#### Overview

The Heroes of Tomorrow Center expanded in 2025 to serve 200 Ette-Ennaka indigenous children aged 5–18, providing bilingual intercultural STEM education rooted in their ancestral knowledge. The center doubled enrollment from 2024 and introduced AI literacy modules adapted for indigenous learners.

#### Key Activities 2025

- ▶ STEM + environmental education integrated with Ette-Ennaka cultural identity
- ▶ AI literacy modules: introduction to machine learning through biodiversity games
- ▶ Bilingual curriculum (Spanish + Ette-Ennaka language) developed by community educators
- ▶ 200 children with nutritional support and psychosocial accompaniment
- ▶ 8 Ette-Ennaka women educators leading program design and delivery

Indicator	2024	2025
Children enrolled	150+	200+
Women educators	8	10
Cultural workshops	42	60
Communities served	3	4 (Ette-Ennaka)
AI literacy sessions	0	12

## STRATEGIC PROGRAMS 2025 (CONTINUED)

### 2. STARLINK DIGITAL INCLUSION — EXPANDED TO 8 INDIGENOUS TERRITORIES

#### Overview

Building on the 2024 foundation, the Starlink program tripled its coverage in 2025, reaching 8 indigenous territories across the Sierra Nevada de Santa Marta and the Amazonian basin. Connectivity is now fully integrated with SCANWILD, enabling real-time wildlife crime reporting and biodiversity monitoring directly from remote territories.



#### 2025 Expansion Highlights

- ▶ 8 territories connected — up from 5 in 2024
- ▶ Integration with SCANWILD for real-time species trafficking alerts
- ▶ Telemedicine consultations: 240+ remote health appointments
- ▶ AI-based environmental monitoring dashboards active in all 8 sites
- ▶ 120 community members trained in digital tools, cybersecurity and data literacy
- ▶ Distance education modules deployed for 200+ students in remote communities

Indicator	2025
Territories connected	8
Community members trained	120
Telemedicine consultations	240+
SCANWILD alerts generated	500+
Avg. uptime	99%

### 3. CLIMATICALLY INTEGRATED WATER MANAGEMENT — SIERRA NEVADA & AMAZON BASIN

#### Overview

The Climatically Integrated Water Management Program reached a historic milestone in 2025, now serving 450 Ette-Ennaka and Ticuna families with solar-powered clean water. Two new watershed restoration zones were added in the Sierra Nevada and the Putumayo Amazon basin.



#### Sierra Nevada — Ette-Ennaka Territory

- ▶ Riparian buffer zones expanded in 5 critical watersheds
- ▶ Native tree planting: 25,000 trees protecting Bocachico fish corridors
- ▶ Community water monitoring — 45% women-led committees







#### Amazon Basin — Ticuna & Ette-Ennaka Solar Water System

- ▶ 25 solar panels (450W each) — 11.25kW total capacity
- ▶ Supply: 22,500 liters/day for 450 families within 5km radius
- ▶ Local water management committees fully operational

**A 10% increase in watershed forest cover → 20% decrease in downstream water treatment costs. Our restored forests saved communities an estimated \$18,000 USD in water treatment in 2025.**

## BIODIVERSITY CONSERVATION 2025

In 2025, Bosque Colombiano Org maintained its science-based conservation work across 6 endangered and critically endangered species, combining population monitoring, AI-powered surveillance, habitat restoration, and indigenous community leadership.

 <p><b>BLACK &amp; CHESTNUT EAGLE (<i>Spizaetus isidori</i>)</b>  <b>Status:</b> Endangered (EN)  <b>Territory:</b> Amazon Andes            Rescue, rehab &amp; nesting colony monitoring. &lt;250 breeding pairs in Colombia. Telemetry + SCANWILD alerts for poaching detection.</p>	 <p><b>MOUNTAIN TAPIR (<i>Tapirus pinchaque</i>)</b>  <b>Status:</b> Endangered (EN)  <b>Territory:</b> Amazon National Park            140 km<sup>2</sup> reintroduction site. Daily health monitoring. Sustainable grazing with Kamsá and Ette-Ennaka communities. Camera-trap AI detection.</p>
 <p><b>HAWKSBILL TURTLE (<i>Eretmochelys imbricata</i>)</b>  <b>Status:</b> Critically Endangered (CR)  <b>Territory:</b> Atlantic Coast            Bycatch reduction with artisanal fishermen. Tagging, telemetry &amp; nest monitoring. 450+ individuals released. 9,800 ha coastal habitat protected.</p>	 <p><b>GIANT OTTER (<i>Pteronura brasiliensis</i>)</b>  <b>Status:</b> Endangered (EN)  <b>Territory:</b> Ticuna – Amazon            Ecological corridors + 8-person Ticuna monitoring team. Online population database. SCANWILD patrols vs. illegal mining &amp; fishing.</p>
 <p><b>WHITE-HEADED TAMARIN (<i>Saguinus oedipus</i>)</b>  <b>Status:</b> Critically Endangered (CR)  <b>Territory:</b> Sierra Nevada de Santa Marta            GIS mapping of 4 corridors &amp; 4 subpopulations. Functional biological corridor + AI camera-trap identification. &lt;900 individuals globally.</p>	 <p><b>ANTILLEAN MANATEE (<i>Trichechus manatus</i>)</b>  <b>Status:</b> Vulnerable (VU)  <b>Territory:</b> Caribbean Coast            Population survey, AI-aided aerial photogrammetry, legislation development with coastal fishing communities. Plan launched 2025.</p>

## GENDER EQUITY, CLIMATE ACTION & CONSOLIDATED IMPACT 2025

### Gender Equity in STEM and Environmental Management

In 2025, gender equity was not a metric — it was the engine of our entire conservation strategy. Women of color — Afro-Colombian and Ette-Ennaka — led every major program.

- ▶ 300 Afro-Colombian women trained as AI conservationists (F5 Grant)
- ▶ 10 Ette-Ennaka women educators leading Heroes of Tomorrow curriculum
- ▶ 45% female representation in water management committees
- ▶ 50% of indigenous forest rangers are women — 9,800 ha monitored
- ▶ 35 women-led green enterprises (up from 30 in 2024)
- ▶ 1,500 Afro-Colombian women with STEM certifications (2020–2025 cumulative)
- ▶ 50 university scholarships for AI-in-conservation studies



### Climate Change Action

- ▶ 14%+ of Caribbean coast carbon absorbed by restored forests
- ▶ Climate-smart restoration: agroforestry + native species planting
- ▶ 25,000 native trees planted in Sierra Nevada and Putumayo Amazon
- ▶ Carbon research with University of Magdalena — 3 papers published
- ▶ SCANWILD: 10,000+ reports processed — AI detecting trafficking routes
- ▶ Drone + satellite monitoring of 65,000 ha protected territory



**ECOSYSTEMS**

65,000 ha linked to SINAP · 25,000 native trees planted · 17 active ARAs · 2 new watershed restoration zones · 14% coastal carbon absorbed

**AI & STEM**

300 AI conservationists trained · SCANWILD: 10,000+ reports · 50 university scholarships · 1 hackathon · 20 AI prototypes developed · 8 Starlink territories

**COMMUNITIES**

1,800+ families served · 8 indigenous communities · 12 hydroponic gardens · 450 families with solar water · 35,000+ people reached

**STRATEGIC PARTNERSHIPS & OUTLOOK 2026****Key Partners 2025**

Partner	Type
F5 Foundation	STEM & AI Grant (\$50,000)
Conservation International	International NGO
Fondation Ensemble	International Foundation
ZGAP Foundation	International Foundation
Waterloo Foundation	International Foundation
Women for Biodiversity Org	Conservation Sponsor
AFO – Field Ornithologists	Academic
University of Magdalena	Academic / Research
CARSUCRE / UNISUCRE	National Government
Colombia Wild Corporation	Conservation Sponsor
Ette-Ennaka Tribal Authority	Community Authority
Ticuna Indigenous Council	Community Authority

**Priorities 2026**

- ▶ Expand AI for Conservation to 500 additional Afro-Colombian women
- ▶ Scale SINAP coverage to 80,000+ hectares
- ▶ Launch Antillean Manatee full conservation plan
- ▶ Extend Starlink to 12 indigenous territories
- ▶ Publish AI + biodiversity study with U. Magdalena
- ▶ Develop Páramo Bordoncillo plan with Kamsá community
- ▶ Expand hydroponic program to 3 new Ette-Ennaka communities
- ▶ Build AI Wildlife Crime Dashboard with SCANWILD data



*“In 2025, we learned again what we have always known: the most powerful conservation tools are not algorithms or satellites — they are people. The Ette-Ennaka people, Afro-Colombian women, and our indigenous allies are living proof that when communities lead, nature survives.”*

**Fabio Cuello— General Manager, Bosque Colombiano Org**



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