BioCarbon Registry	**Monitoring Report** **REDD+ Project**
Project Information	
Project Title	Nuestro Aire de Vida Project "Kai KOMUYA JAG+Y+". REDD+ Puerto Zábalo and Los Monos
Reference Number	-
Version of the PDD to which this report applies	6
Report Version	6
Report completion date	January 25, 2022
Monitoring period number	1
Monitoring Period	January 17, 2018 to June 30, 2021
Project Location	**Country:** Colombia **Department:** Caquetá **Municipality:** Solano
Proposer and Representative	**RESGUARDO INDIGENA PUERTO ZABALO Y LOS MONOS** **COEMANI COMMUNITY** Fidel Ortiz Joikategedo **TIGHT-KNIT COMMUNITY** Hermisnso Safirekudo **JERUSALEM COMMUNITY** Milenco Emanuel Safirekudo **EL QUINCHE COMMUNITY**

BioCarbon Registry	**Monitoring Report** **REDD+ Project**
Project Information	
	Elpidio Capera Riecoche
Other Project Proponents and Representatives	**CARBO SOSTENIBLE SAS** Juan Andrés López Silva **TERRA COMMODITIES SAS** Federico Ortiz **YAUTO SAS** Pedro Posada **VISSO CONSULTANTS SAS** Jorge Giron
Prepared by	**CARBO SOSTENIBLE SAS** Juan Andrés López Silva **TERRA COMMODITIES SAS** Federico Ortiz **YAUTO SAS** Pedro Posada
Validation and Verification Body	AENOR
Project operational period	17-Jan-2018 to 16-Jan-2048; 30 years
Quantification period of reductions	17-Jan-2018 to 16-Jan-2048; 30 years
Estimated GHG reduction	**Net deforestation:** 6,189,218 tCO2e for monitoring period

BioCarbon Registry	**Monitoring Report** **REDD+ Project**
Project Information	
	Net degradation: 124,362 tCO2e for monitoring period **Uncertainty:** 587,163 tCO2e **Total CO2e Emissions Reduction**: 5,726,418 tCO2
Contact Person	Juan Andrés López Silva jlopezsilva@carbosostenible.com +57 1 249 4098 +57 311 4814086

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Section 1. Description of the project activity

1.1. General description of the project activity

The objective of the Puerto Zabalo and Los Monos Indigenous Reserve´s REDD+ Project is to contribute to the sustainable development of the communities and preserve the existing forests in the reserve's territory. This community initiative seeks to conserve the forest through a comprehensive strategy that strengthens the community's territorial governance (implementation of the Life Plan and Safeguards Plan, updating of the Environmental Management Plan, implementation of the Monitoring Plan, and strengthening of the community's capacities and culture), develops sustainable productive activities compatible with nature that contribute to food security and income generation, implements biodiversity monitoring actions, and improves social investment in the territory. The project is mainly oriented to the national carbon market through the commercialization of carbon credits for carbon tax exemption, as well as the eventual commercialization in international instances.

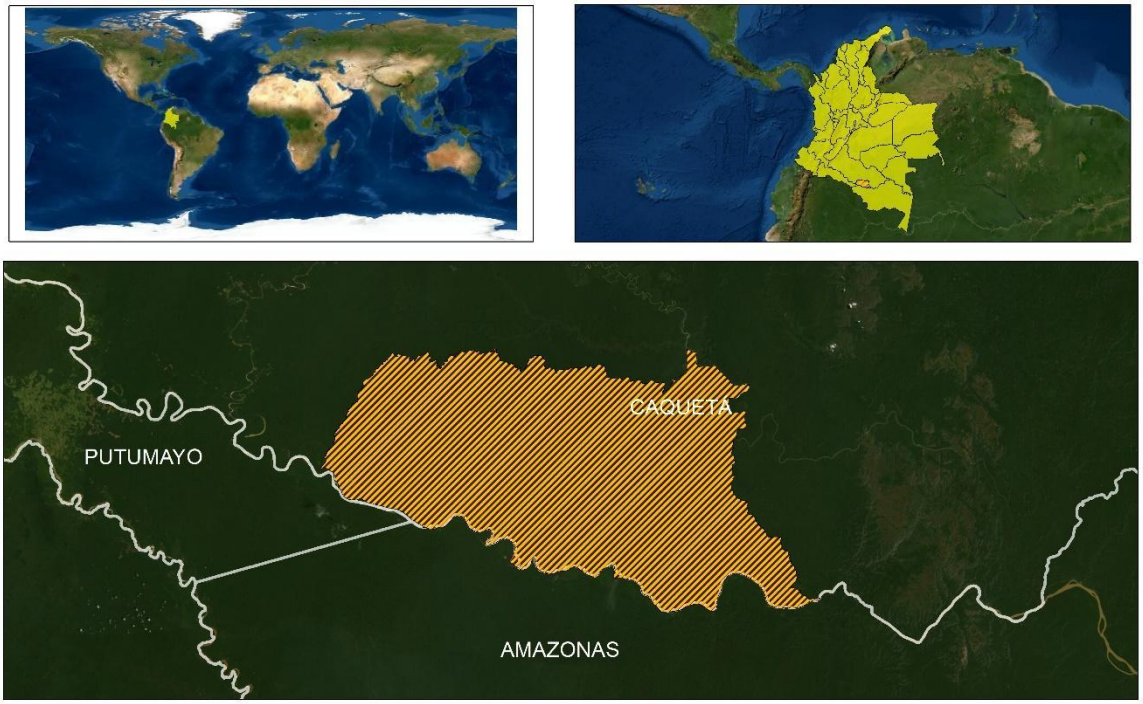
The territory of the Indigenous Reserve covers 624,590 hectares, of which 609,025 hectares correspond to the forest that makes up the project area that is eligible under the REDD+ mechanism. The reserve is located in the municipality of Solano (department of Caquetá), on the northern bank of the Caquetá River and is made up of the communities of Los Estrechos, Quinché, Jerusalén and Coemaní. These communities are home to approximately 244 families, which represents at least 1092 people belonging to the Uitoto ethnic group. Most of them speak the Minika dialect variation, except for Puerto Zábalo and Coemaní, which speak Uitoto.

The project falls under the Agriculture, Forestry and Other Land Use (AFOLU) sector, in the Reducing Emissions from Deforestation and Degradation (REDD+) category. The ProClima methodology (Quantification of GHG Emission Reductions or Removals from REDD+ Projects, v.2.2 of 2021) is used and is expected to avoid the emission of about 31,508,950 tCO_2 during the 30-year crediting period, with an annual average of 1.049418 tCO_2. Emission reductions result from the implementation of an integrated strategy that includes improving governance, developing sustainable production systems, increasing social investment, and monitoring biodiversity. Through the trading of carbon certificates (Verified Carbon Credits -VC), economic resources will be obtained to ensure compliance with the activities necessary to achieve sustainable development objectives in the long term.

1.2. Project location

The project is located in the territory of the Puerto Zábalo and Los Monos Indigenous Reserve in the municipality of Solano, department of Caquetá, where the communities of Jerusalén, Quinche, Los Estrechos and Coemaní are located. The reserve is located in the western part of the municipality, bordered to the south by the Caquetá River and to the north by the Serranía de Chiribiquete National Park.

The spatial location of the project area is presented below:



Map 1. Location of the project area located in the Puerto Zábalo Los Monos Indigenous Reservation. Source: Own elaboration.

1.3. Methodological references

ProClima 2021
Methodological Document AFOLU Sector
Quantification of GHG Emission Reductions or Removals from REDD+ Projects

Version 2.2.
05-February-2021

1.4. Project duration

Type of crediting period: 30-year fixed credit period
Crediting period: 01/17/2018 - 01/16/2048
Length of crediting period: 30 years
Current monitoring period: 17/01/2018 - 30/06/2021
Duration of current monitoring period: approximately 3.5 years

1.5. Initiative holder

The project owners correspond to the project proponents, i.e. the four communities that make up the Puerto Zábalo and Los Monos Indigenous Reservation, and CARBO Sostenible S.A.S., Terra Commodities S.A.S., Yauto S.A.S. and VISSO Consultores S.A.S. The owners are responsible for the formulation, implementation, monitoring and registration of the initiative. The following is the information of each holder:

Name of organization	Puerto Zábalo and Los Monos Indigenous Reserve Coemani Community
Contact Person	Fidel Ortiz Joikategedo
Occupation	Governor
Address	Puerto Zábalo and Los Monos Indigenous Reserve, Solano municipality, Caquetá department.
Phone	+57 316 2046132 +57 321 2044735
Email	Not applicable
Role	Participation as project development Implementation of activities

Name of organization	Puerto Zábalo and Los Monos Indigenous Reserve Los Estrechos Community
Contact Person	Herminso Safirekudo
Occupation	Captain
Address	Puerto Zábalo and Los Monos Indigenous Reserve, Solano municipality, Caquetá department.
Phone	+57 316 2046132 +57 321 2044735
Email	Not applicable
Role	Participation as project development Implementation of activities

Name of organization	Puerto Zábalo and Los Monos Indigenous Reservation Jerusalem Community
Contact Person	Milenco Emanuel Safirekudo
Occupation	Governor
Address	Puerto Zábalo and Los Monos Indigenous Reservation, Solano municipality, Caquetá department.
Phone	+57 316 2046132 +57 321 2044735
Email	Not applicable
Role	Participation as project development Implementation of activities

Name of organization	Puerto Zábalo and Los Monos Indigenous Reserve El Quinche Community
Contact Person	Elpidio Capera Riecoche
Occupation	Governor
Address	Puerto Zábalo and Los Monos Indigenous Reserve, Solano municipality, Caquetá department.
Phone	+57 316 2046132 +57 321 2044735
Email	Not applicable
Role	Participation as project development Implementation of activities

Name of organization	Carbo Sostenible SAS
Contact Person	Juan Andres Lopez
Occupation	Legal Representative
Address	Calle 77ª # 12-60, of 301
Phone	+57 311 4814086
Email	jlopezsilva@carbosostenible.com
Role	Project Developer Support in the implementation of activities Carbon credit trading Financing of activities

Name of organization	Terra Commodities SAS
Contact Person	Federico Ortiz

Occupation	Director
Address	CALLE 70 No. 6-55 AP2 Bogotá, Colombia
Phone	+57 310 223 5070 +351 913608709
Email	fortiz@terracommodities.net
Role	Project Developer Support in the implementation of activities Carbon credit trading Financing of activities

Name of organization	Yauto SAS
Contact Person	Alicia Micolta
Occupation	Legal Representative
Address	URBANIZACION RINCON SAN PEDRO GUAYMARAL, Bogota, Colombia
Phone	+57 316 831 2367
Email	amicoltac@gmail.com
Role	Project Developer Field work coordination Support in the implementation of activities Financing of activities

Name of organization	VISSO CONSULTANTS SAS
Contact Person	Jorge Giron
Occupation	Legal Representative

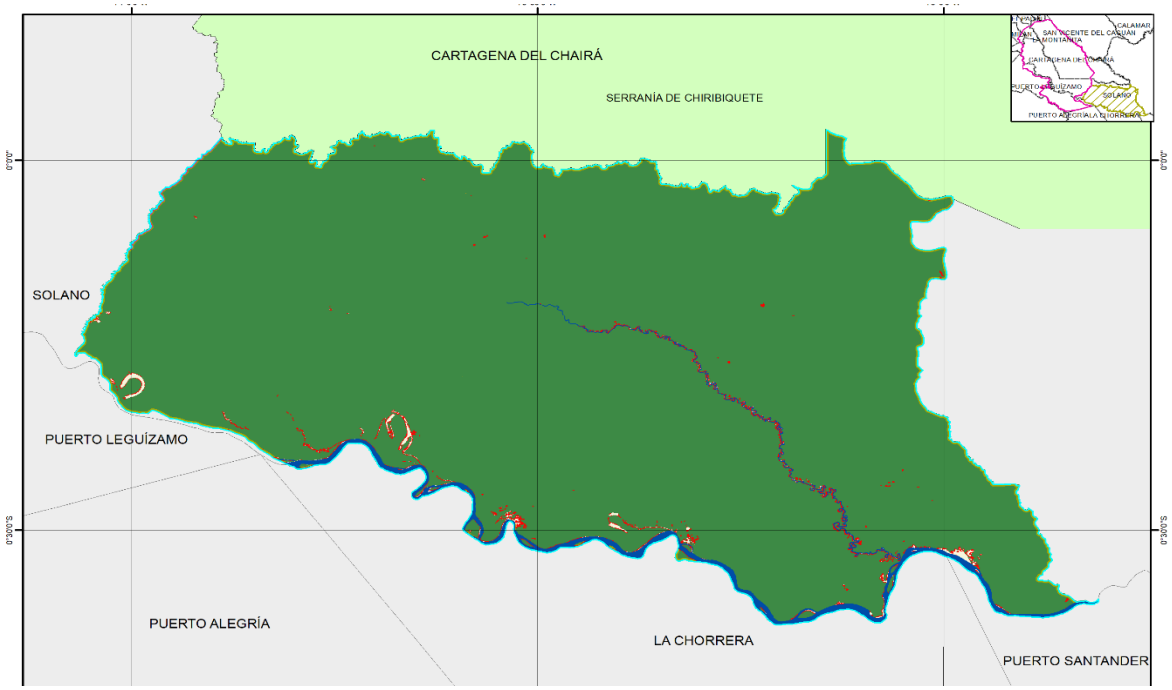
Address	Carrera 13ª # 127 - 40 / Office 402 Bogotá, Colombia
Phone	+57 315 345 9581
Email	asociado@vissoconsultores.com
Role	Project Developer Financing of activities

Section 2. Spatial and Temporal Limits of the Project

2.1. Eligible REDD+ project areas

Eligible project areas correspond to the stable forest within the boundaries of the indigenous reserve for at least a ten-year period prior to the project start date, according to the definition of forest adopted by Colombia and used by the SMByC (see Map 2).

The Puerto Zábalo and Los Monos Indigenous Reserve comprises an area titled 624,580 hectares and 6,246 square meters. The project area corresponds to the forest that remains stable for the last 10 years prior to the start date, which in this case amounts to 609,025 ha, all located within the boundaries of the Amazon biome.



Map 2. Delimitation of the indigenous reservation and the forest area corresponding to the project area. Source: Own elaboration.

2.2. Leakage area

The leakage area comprises the forest area to which deforestation and degradation agents and activities may be displaced, but which is outside the project boundaries. The leakage area was defined taking into account the mobilization tendency of deforestation agents in the territory, as well as the characteristics of relationships and development of activities that were identified in the territory and with the help of the communities (see Annex 2). The mobilization of members of the Indigenous Reserve to other regions of the department occurs mainly through the Caquetá River.

Given that the Monochoa Reserve REDD+ Project is under development on the eastern side of the reserve, it was agreed with the developers of the other project that the boundaries of the leakage area should not overlap and/or overlap in order to avoid double carbon accounting. For this reason, the leakage area boundary on the eastern side reaches the eastern boundary of the Reserve Puerto Zábalo and Los Monos. This also implies that monitoring reporting activities are also confined to this boundary. Activity indicator A-15.4 accounts for forest cover in the project leakage area.

Map 3. Leakage area of the project. Source: Own elaboration.

The leakage area has a total area of 120,408 ha, of which 111,907 ha were forest in 2007 and 110,715 ha were stable at the time the project began.

Leakage management and monitoring is based on three elements: i) Monitor the forest cover present in the leakage area (indicator A-15.4). ii) Involve community members in the productive activities of the project, to reduce the need to participate in deforestation processes inside and outside the territory and contribute to project ownership (Activities A-2 and A-3, follow-up to Safeguards 8 and 10, through indicators SVG-8.1 and SVG-10.1). iii) Articulate land-use planning exercises, sectoral regulatory framework and carry out control and surveillance actions as appropriate (follow-up through indicators SVG-11.1, SVG-13.1, SVG-14.1, SVG-15.1).

Section 3. Description of the monitoring system

3.1. Project limits

The monitoring of the project boundaries is carried out using Geographic Information Systems (GIS) tools based on the georeferencing of the project area, reference region and project leakage area during project development, following the technical specifications required for the cartographic products.

Monitoring of emissions reductions from deforestation and degradation will be carried out for the geographic areas covered by the project. Periodic verification of deforestation and degradation in the project area will follow the same procedures as the baseline.

3.2. Implementation of REDD+ activities

Within the REDD+ activities, forest cover monitoring is one of the most important indicators and is decisive in demonstrating the performance of the project. In the first monitoring period, changes in forest cover were monitored, as well as other REDD+ activities that have been defined to comprehensively address the problem of deforestation and strengthen the community's initiative to protect their territory. The conservation activities that the community has implemented voluntarily and in response to municipal initiatives, are an integral part of the project implementation and take place from the start date, which corresponds to January 17, 2018. These activities are the result of the community's expressed interest in participating in the carbon markets, accessing the economic benefits that arise from this market and generating results that demonstrate the community's commitments.

During the first monitoring period, many activities have been implemented to facilitate the development of social dynamics in the communities of the Puerto Zábalo and Los Monos Resguardo. REDD+ activities have always been oriented towards the fulfillment of community objectives and interests, which in turn address elements considered in the Life Plan that is handled orally and guides the activities of the people.

Nuestro Aire de Vida REDD+ project has facilitated communication, dialogue, transportation and the development of social spaces that strengthen the community, maintain fundamental

cultural aspects and unite the territorial thinking of the members of the Reserve. At the same time, multiple workshops were held in all the communities to define and implement the REDD+ strategy and agree on effective execution and decision-making mechanisms that respect all the social, environmental and institutional safeguards. A very relevant result is the constitution of the Indigenous REDD+ Council (COIREDD+), created as the decision-making body for all aspects of the project and which responds to the communities' own governance structure.

Among the other activities carried out, the following stand out: in the Los Estrechos community, solar-powered street lamps were purchased to illuminate three malokas established in this area; support was also provided for the construction of two pedestrian bridges connecting the community with the flood zone, which allowed access to this area even in the winter season when it was normally isolated.

Figure 1. Maloka in the Los Estrechos community with energy lanterns.

In the community of Jerusalén, we supported the construction of the Maloka Quinche. Traditional dances have also been held and a motor was purchased to facilitate the mobilization of the people.

In the community of Coemaní, we supported two traditional dances (see figure 3) and also offered collaboration to attend to the illness of grandfather Alejandro Paitekudo, who required urgent medical attention and had to be transferred outside the reserve.

Figure 2. Maloka Quinche built in the community of Jerusalén.

Figure 3. Dance held in Coemaní on November 15, 2021.

These activities contributed to the empowerment of the communities during the construction of their REDD+ project, generating trust, responsibilities, bringing their members closer together and thus strengthening the articulation of their own government

with the development of the project, from the cultural, ancestral, traditional and their law of origin, which is absolutely valuable to maintain a consolidated structure that facilitates the exercise of governance in their territory.

Another very important process has been the recovery of cassava and pineapple species in the community members' fields. With the support of Grandmother Paitecudo (Coemaní community) and Grandfather Serafín (Coemaní community), special chagras have been planted because species that were traditionally found in them have been lost due to neglect, the limited availability of some seeds, the generalized use of some species in particular, among others. Within the chagras managed by these two grandparents, which total about 6 hectares in total, they have proposed to plant as many as possible, currently there are 8 varieties of cassava and two of pineapple. The general purpose of this activity is to maintain diversity in the next plantations and thus help protect the gene pool and diversity of species that are no longer easily found in the territory.

a.  b. 

Figure 4. Grandmother Paitecudo harvesting chili peppers in the chagra. b. Cassava plants in the chagra.

.

a.  b. 

Figure 5. Pineapple species in the chagra (a: common pineapple. b: red-tipped pineapple without spikes).

The importance of these chagras also lies in the fact that they have been planted to support special events scheduled one or two years in advance. These events will be held during the year 2022 and will allow the community members to share the seeds and food produced, which is one of the most important elements in the culture of the indigenous peoples of this region and contributes directly to the conservation of biodiversity.

In order to comply with the Monitoring Plan described in the PDD, the following is a follow-up of each of the indicators that showed progress in implementation during the first monitoring period (2018-June 2021):

Activity ID	A-1
ID Indicator	A-1.1
Indicator name	# of people participating in meetings, surveys or workshops on problem tree and identification of drivers of deforestation and production systems and governance management
Type	Result

<table>
<tr><td>Goal</td><td>Workshops or meetings are conducted in a participatory manner.</td></tr>
<tr><td>SDGs to be met</td><td>SDG1 (carbon revenues and productive projects), SDG2 (productive projects), SDG8 (productive projects and governance activities), SDG13 (emissions reduction), SDG15 (forest habitat protection),</td></tr>
<tr><td>Unit of measure</td><td>Number</td></tr>
<tr><td>Monitoring methodology</td><td>For the measurement and reporting of this indicator, the number of participants in the meetings, workshops or surveys conducted was taken into account.</td></tr>
<tr><td>Frequency of monitoring</td><td>Annually</td></tr>
<tr><td>Responsible for measurement</td><td>Carbo-Terra
Yauto</td></tr>
<tr><td>Indicator result
in the reporting period</td><td>Participation of community members:

<table><tr><th>Worksho p 1</th><th>Worksho p 2</th><th>Worksho p 3</th><th>Total</th></tr><tr><td>162</td><td>58</td><td>58</td><td>278</td></tr></table>
<table><tr><th>Interview</th></tr><tr><td>3</td></tr></table>
<table><tr><th>Survey</th></tr><tr><td>42</td></tr></table></td></tr>
<tr><td>Documents to support the information</td><td>• Photographic and/or video record. See Annex 2 and Annex 4
• Attendance lists for the workshops and meetings convened. See annex 2
• Minutes of the meetings and workshops convened. See appendix 2</td></tr>
<tr><td>Observations</td><td></td></tr>
</table>

Activity ID	A-1
ID Indicator	A-1.2
Indicator name	# of legal support agreements for the development and implementation of the project including trading of carbon credits
Type	Result
Goal	Monitor the agreements reached
SDGs to be met	SDG1 (carbon revenues and productive projects), SDG2 (productive projects), SDG8 (productive projects and governance activities), SDG13 (emissions reduction), SDG15 (forest habitat protection),

Unit of measure	Agreements
Monitoring methodology	For the measurement and reporting of this indicator, the agreements signed and the minutes or reports related to their subscription were reviewed.
Frequency of monitoring	Annually
Responsible for measurement	Yauto
Indicator result in the reporting period	1 agreement signed
Documents to support the information	• Agreements (See Annex 1.1) • Minutes of the meetings (See Annex 2.3) • Reports.
Observations	

Activity ID	A-2
ID Indicator	A-2.1
Indicator name	# of people involved in the development of productive systems who participate in training sessions.
Type	Result
Goal	All people involved in the development of productive systems participate in training sessions.
SDGs to be met	SDG1 (productive projects), SDG2 (productive projects), SDG8 (productive projects), SDG13 (emission reductions), SDG15 (protection of forest habitat)
Unit of measure	Number
Monitoring methodology	Number of community members who attended the training sessions for the management of the prioritized productive systems and the value obtained is reported.
Frequency of monitoring	Annually
Responsible for measurement	Carbo-Terra Yauto Third party reports
Indicator result in the reporting period	**Attendance list** **Worksho p 1** | **Worksho p 2** | **Worksho p 3** | **Total** 162 | 58 | 58 | 278
Documents to support the information	• Photographic and/or video recordings. • Attendance lists for the training workshops for the management of the prioritized production systems (See Annex 2). • Meeting minutes (See Annex 2)

	• Meeting registration
Observations	

Activity ID	A-2
ID Indicator	A-2.2
Indicator name	# of women involved in the development of productive systems who participate in training sessions or workshops.
Type	Result
Goal	All women involved in the development of productive systems participate in training sessions.
SDGs to be met	SDG1 (productive projects), SDG2 (productive projects), SDG5 (women's participation), SDG8 (productive projects), SDG13 (emission reductions), SDG15 (forest habitat protection)
Unit of measure	Number
Monitoring methodology	Number of women in the community who attended the training sessions for the management of the prioritized productive systems and the value obtained is reported.
Frequency of monitoring	Annually
Responsible for measurement	Carbo-Terra Yauto
Indicator result in the reporting period	**Attendance list** **Worksho p 1** | **Worksho p 2** | **Worksho p 3** | **Total** 65 | 21 | 20 | 106
Documents to support the information	• Photographic and/or video record • List of attendance at training workshops for the management of prioritized production systems (See Annex 2). • Meeting minutes (See Annex 2)
Observations	

Activity ID	A-5
ID Indicator	A-5.1
Indicator name	# of people participating in meetings or workshops on social investment issues
Type	Result

Goal	Social investment identification and prioritization processes are carried out in a participatory manner.
SDGs to be met	SDG1 (social investment), SDG3 (investment in health), SDG4 (investment in education), SDG6 (investment in water and sanitation), SDG11 (investment in housing), SDG13 (emissions reduction), SDG15 (protection of forest habitat as it discourages deforestation).
Unit of measure	Number
Monitoring methodology	Participant registration Minutes Rapporteurships
Frequency of monitoring	Annually
Responsible for measurement	Carbo-Terra Yauto Entities or programs that develop activities
Indicator result in the reporting period	**Attendance list** **Worksho p 1** | **Worksho p 2** | **Worksho p 3** | **Total** 162 | 58 | 58 | 278
Documents to support the information	• Photographic and/or video record (see annex 2). • Attendance lists for workshops and meetings (See Annex 2). • Minutes of the meetings and workshops convened (See Annex 2). • Rapporteurship
Observations	

Activity ID	A-5
ID Indicator	A-5.2
Indicator name	# of women participating in meetings or workshops on social investment issues.
Type	Result
Goal	Social investment identification and prioritization processes are carried out in a participatory manner.
SDGs to be met	SDG1 (social investment), SDG3 (investment in health), SDG4 (investment in education), SDG5 (gender equity), SDG6 (investment in water and sanitation), SDG11 (investment in housing), SDG13 (emissions reduction), SDG15 (protection of forest habitat as it discourages deforestation).
Unit of measure	Number

<table>
<tr><td>Monitoring methodology</td><td>For the measurement and reporting of this indicator, the number of women participants attending meetings, workshops or surveys conducted for the identification and prioritization of social investments to be developed or improved with the project was taken into account.</td></tr>
<tr><td>Frequency of monitoring</td><td>Annually</td></tr>
<tr><td>Responsible for measurement</td><td>Carbo-Terra
Yauto
Third Party Reports</td></tr>
<tr><td>Indicator result
in the reporting period</td><td>Attendance list

<table><tr><th>Worksho p 1</th><th>Worksho p 2</th><th>Worksho p 3</th><th>Total</th></tr><tr><td>65</td><td>21</td><td>20</td><td>106</td></tr></table></td></tr>
<tr><td>Documents to support the information</td><td>• Photographic and/or video record (See Annex 2).
• Attendance lists for workshops and meetings (See Annex 2).
• Minutes of the meetings and workshops convened (See Annex 2).
• Rapporteurships</td></tr>
<tr><td>Observations</td><td></td></tr>
</table>

Activity ID	A-6
ID Indicator	A-6.1
Indicator name	# of people participating in meetings or workshops on transportation issues
Type	Result
Goal	The identification and prioritization processes are carried out in a participatory manner.
SDGs to be met	SDG1 (social investment), SDG3 (transport for health), SDG8 (transport for products), SDG13 (emission reductions), SDG15 (protection of forest habitat as it discourages deforestation)
Unit of measure	Number
Monitoring methodology	Participant registration Minutes Rapporteurships
Frequency of monitoring	Annually
Responsible for measurement	Carbo-Terra Yauto

	Entities or programs that develop activities
Indicator result in the reporting period	**Attendance list** **Worksho p 1** | **Worksho p 2** | **Worksho p 3** | **Total** 162 | 58 | 58 | 278
Documents to support the information	• Photographic and/or video recordings. • Attendance lists for workshops and meetings convened. • Minutes of the meetings and workshops convened. • Rapporteurship
Observations	

Activity ID	A-6
ID Indicator	A-6.2
Indicator name	# of activities/elements that facilitate the mobilization of people
Type	Product
Goal	Improved mobilization of community members
SDGs to be met	SDG1 (social investment), SDG3 (transport for health), SDG4 (investment in education in traditional medicine), SDG6 (investment in water and sanitation), SDG13 (emissions reduction), SDG15 (protection of forest habitat as it discourages deforestation).
Unit of measure	Number
Monitoring methodology	The execution of project resources and the number of activities or acquisition of elements that favor the mobilization of people are verified.
Frequency of monitoring	Annually
Responsible for measurement	• Carbo-Terra • Yauto • Responsible person delegated on behalf of the reservation
Indicator result in the reporting period	1 adequacy of the river port of the community of Coemaní in 2018.
Documents to support the information	• Amazon Conservation Team Report (see *Annex 4*, document *ACT 2018 Annual Report*). • Photos of suitable port (see Annex 4, files Photo 7 and Photo 8).
Observations	With the support of the NGO Amazon Conservation Team, the indigenous community restored the port of the Coemaní community, which contributed to the improvement of the mobilization of the community members.

Activity ID	A-7
ID Indicator	A-7.1
Indicator name	# of people participating in meetings or workshops on education issues
Type	Result
Goal	The identification and prioritization processes are carried out in a participatory manner.
SDGs to be met	SDG1 (social investment), SDG4 (investment in education), SDG13 (emission reductions), SDG15 (protection of forest habitat as it discourages deforestation)
Unit of measure	Number
Monitoring methodology	• Participant registration • Minutes • Rapporteurships
Frequency of monitoring	Annually
Responsible for measurement	Carbo-Terra Yauto Entities or programs that develop activities
Indicator result in the reporting period	**Attendance list** **Worksho p 1** | **Worksho p 2** | **Worksho p 3** | **Total** 162 | 58 | 58 | 278
Documents to support the information	• Photographic and/or video record (see annex 2). • Attendance lists for workshops and meetings (See Annex 2). • Minutes of the meetings and workshops convened (See Annex 2). • Rapporteurship
Observations	

Activity ID	A-9
ID Indicator	A-9.1
Indicator name	# of people participating in meetings or workshops on health issues
Type	Result

<table>
<tr><td>Goal</td><td>The identification and prioritization processes are carried out in a participatory manner.</td></tr>
<tr><td>SDGs to be met</td><td>SDG1 (social investment), SDG3 (health), SDG13 (emission reductions), SDG15 (protection of forest habitat as it discourages deforestation)</td></tr>
<tr><td>Unit of measure</td><td>Number</td></tr>
<tr><td>Monitoring methodology</td><td>● Participant registration
● Minutes
● Rapporteurships</td></tr>
<tr><td>Frequency of monitoring</td><td>Annually</td></tr>
<tr><td>Responsible for measurement</td><td>Carbo-Terra
Yauto
Entities or programs that develop activities</td></tr>
<tr><td>Indicator result
in the reporting period</td><td>Attendance list

<table><tr><th>Worksho p 1</th><th>Worksho p 2</th><th>Worksho p 3</th><th>Total</th></tr><tr><td>162</td><td>58</td><td>58</td><td>278</td></tr></table></td></tr>
<tr><td>Documents to support the information</td><td>● Photographic and video record (see Annex 2).
● Attendance lists for workshops and meetings (see Annex 2).
● Minutes of the meetings and workshops convened (See Annex 2).
● Interview reports (appendix 2)</td></tr>
<tr><td>Observations</td><td></td></tr>
</table>

Activity ID	A-10
ID Indicator	A-10.1
Indicator name	# of people participating in meetings or workshops on housing, water and sanitation issues
Type	Result
Goal	The identification and prioritization processes are carried out in a participatory manner.
Unit of measure	Number
Monitoring methodology	● Participant registration ● Minutes ● Rapporteurships
Frequency of monitoring	Annually

<table>
<tr><td>Responsible for measurement</td><td>Carbo-Terra
Yauto
Entities or programs that develop activities</td></tr>
<tr><td>Indicator result
in the reporting period</td><td>Attendance list
<table><tr><th>Worksho p 1</th><th>Worksho p 2</th><th>Worksho p 3</th><th>Total</th></tr><tr><td>162</td><td>58</td><td>58</td><td>278</td></tr></table></td></tr>
<tr><td>Documents to support the information</td><td>• Photographic and video record (See Annex 2).
• Attendance lists for workshops and meetings (See Annex 2).
• Minutes of the meetings and workshops convened (See Annex 2).
• Report of the interviews (Annex 2).</td></tr>
<tr><td>Observations</td><td></td></tr>
</table>

Activity ID	A-11
ID Indicator	A-11.1
Indicator name	# of people participating in meetings or workshops on governance issues
Type	Result
Goal	The process of construction/updating of the Life Plan is carried out in a participatory manner.
SDGs to be met	SDG1 (social and productive investment), SDG2 (social and productive investment), SDG3 (investment in health), SDG4 (investment in education), SDG5 (women's participation), SDG6 (investment in water and sanitation), SDG8 (improved employment and economic growth), SDG11 (investment in housing), SDG13 (emissions reduction), SDG15 (protection of forest habitat as it discourages deforestation).
Unit of measure	Number
Monitoring methodology	For the measurement and reporting of this indicator, the number of participants in meetings or workshops related to the topics of the Indigenous Life Plan was taken into account.
Frequency of monitoring	Annually
Responsible for measurement	• Carbo-Terra • Yauto • Entities or programs
Indicator result in the reporting period	**Attendance list** <table><tr><th>Worksho p 1</th><th>Worksho p 2</th><th>Worksho p 3</th><th>Total</th></tr></table>

	162 | 58 | 58 | 278
Documents to support the information	• Photographic and/or video records (see annex 2). • Attendance lists for workshops and meetings (see appendix 2). • Minutes of the meetings and workshops convened (see Annex 2). • Reports
Observations	

Activity ID	A-11
ID Indicator	A-11.3
Indicator name	# community plans being implemented
Type	Result
Goal	Actions are implemented to contribute to the fulfillment of community development plans.
SDGs to be met	SDG1 (social and productive investment), SDG2 (social and productive investment), SDG3 (investment in health), SDG4 (investment in education), SDG5 (women's participation), SDG6 (investment in water and sanitation), SDG8 (improved employment and economic growth), SDG11 (investment in housing), SDG13 (emissions reduction), SDG15 (protection of forest habitat as it discourages deforestation).
Unit of measure	Number
Monitoring methodology	For the reporting of this indicator, the number of community plans with implementation actions will be taken into account.
Frequency of monitoring	Annually
Responsible for measurement	Carbo-Terra Yauto Community representative Entities or Programs
Indicator result in the reporting period	1 community plan being implemented
Documents to support the information	Progress report on support for community dances, the construction of a maloka and two pedestrian bridges, among others (see file *Informe Actividades apoyo Pto. Zábalo.pdf*, located in folder *Annex 4. Monitoring Evidence*)
Observations	

<table>
<tr><td>Activity ID</td><td>A-14</td></tr>
<tr><td>ID Indicator</td><td>A-14.1</td></tr>
<tr><td>Indicator name</td><td># of people participating in awareness-raising, meetings or training sessions related to monitoring</td></tr>
<tr><td>Type</td><td>Result</td></tr>
<tr><td>Goal</td><td>Strengthen the capacity of community members to monitor biodiversity and control deforestation.</td></tr>
<tr><td>SDGs to be met</td><td>SDG13 (emissions reduction), SDG15 (protection of forest habitat as it discourages deforestation), SDG15 (protection of forest habitat as it discourages deforestation)</td></tr>
<tr><td>Unit of measure</td><td>Number</td></tr>
<tr><td>Monitoring methodology</td><td>Number of community members who attended sensitization, meetings or training sessions on biodiversity monitoring and deforestation control.</td></tr>
<tr><td>Frequency of monitoring</td><td>Annually</td></tr>
<tr><td>Responsible for measurement</td><td>● Carbo-Terra
● Yauto
● Entities or programs</td></tr>
<tr><td>Indicator result
in the reporting period</td><td>Attendance List

<table><tr><th>Worksho p 1</th><th>Worksho p 2</th><th>Worksho p 3</th><th>Total</th></tr><tr><td>162</td><td>58</td><td>58</td><td>278</td></tr></table></td></tr>
<tr><td>Documents to support the information</td><td>● Attendance lists for the workshops and awareness workshops for the identification of the causes and agents of deforestation, natural resource management, management of equipment and techniques for biodiversity monitoring and conflict resolution (See Annex 2).
● Meeting minutes and photographic record of the training sessions for the identification of the causes and agents of deforestation, natural resource management, handling of equipment and techniques for biodiversity monitoring, conflict resolution (See Annex 2).</td></tr>
<tr><td>Observations</td><td></td></tr>
</table>

Activity ID	A-14
ID Indicator	A-14.2
Indicator name	# of women participating in sensitization, meetings or training sessions related to monitoring
Type	Result

<table>
<tr><td>Goal</td><td>Strengthen the capacities of women in the communities to monitor biodiversity and control deforestation.</td></tr>
<tr><td>SDGs to be met</td><td>SDG5 (women's participation), SDG13 (emission reductions), SDG15 (protection of forest habitat as it discourages deforestation)</td></tr>
<tr><td>Unit of measure</td><td>Number</td></tr>
<tr><td>Monitoring methodology</td><td>Number of women in the community who attended sensitization, meetings or training sessions on biodiversity monitoring and deforestation control.</td></tr>
<tr><td>Frequency of monitoring</td><td>Annually</td></tr>
<tr><td>Responsible for measurement</td><td>• Carbo-Terra
• Yauto
• Entities or programs</td></tr>
<tr><td>Indicator result in the reporting period</td><td>Attendance list

<table><tr><th>Worksho p 1</th><th>Worksho p 2</th><th>Worksho p 3</th><th>Total</th></tr><tr><td>65</td><td>21</td><td>20</td><td>106</td></tr></table></td></tr>
<tr><td>Documents to support the information</td><td>• Attendance lists for training sessions on the identification of the causes and agents of deforestation, natural resource management, handling of equipment and techniques for biodiversity monitoring and conflict resolution (see Annex 2).
• Meeting minutes and photographic record of the training sessions for the identification of the causes and agents of deforestation, natural resource management, handling of equipment and techniques for biodiversity monitoring, conflict resolution (See Annex 2). (See Annex 2).</td></tr>
<tr><td>Observations</td><td></td></tr>
</table>

Activity ID	A-14
ID Indicator	A-14.6
Indicator name	# of tours and/or expeditions carried out
Type	Product
Goal	Conduct tours and/or expeditions for biodiversity monitoring and deforestation control and management.
SDGs to be met	SDG13 (emissions reduction), SDG15 (protection of forest habitat as it discourages deforestation), SDG15 (protection of forest habitat as it discourages deforestation)

Unit of measure	Number
Monitoring methodology	The development of tours or expeditions in the area of the indigenous reserve is verified in order to identify and/or monitor fauna and flora, or to carry out territorial control exercises.
Frequency of monitoring	Annually
Responsible for measurement	• Carbo-Terra • Yauto • Community representative • Entities or programs
Indicator result in the reporting period	1 expedition to conduct rapid inventories of mammals, birds, amphibians and reptiles.
Documents to support the information	• Amazon Conservation Team Report (see *Annex 4*, document *ACT 2018 Annual Report*).
Observations	With the support of the Amazon Conservation Team, expeditions were conducted in the territory to carry out rapid inventories of animal groups and to teach some community members tools and techniques for monitoring fauna.

Activity ID	A-15
ID Indicator	A-15.1
Indicator name	# of hectares of standing forest in project area
Type	Impact
Goal	Monitor deforestation progress
SDGs to be met	SDG13 (emissions reduction), SDG15 (protection of forest habitat as it discourages deforestation), SDG15 (protection of forest habitat as it discourages deforestation)
Unit of measure	Number
Monitoring methodology	Evaluation of forest and non-forest maps according to PROCLIMA methodology.
Frequency of monitoring	Annually
Responsible for measurement	• Carbo-Terra • Yauto • Responsible person delegated on behalf of the reserve
Indicator result in the reporting period	607,580 hectares in June 2021
Documents to support the information	• Analysis of forest cover from satellite images.
Observations	Carbo-Terra made a multi-year mapping analysis

Activity ID	A-15
ID Indicator	A-15.2
Indicator name	# of tons of CO_2 not emitted
Type	Impact
Goal	Reduce carbon emissions
SDGs to be met	SDG13 (emissions reduction), SDG15 (protection of forest habitat as it discourages deforestation), SDG15 (protection of forest habitat as it discourages deforestation)
Unit of measure	tCO_2
Monitoring methodology	For the measurement and reporting of this indicator, the area of standing forest present in the territory of the indigenous reserve was identified and estimated using Geographic Information Systems and remote sensing satellite images. Subsequently, the corresponding emission factor was applied.
Frequency of monitoring	Annually
Responsible for measurement	Carbo-Terra
Indicator result in the reporting period	6,189,218 tCO_2
Documents to support the information	• Use of IDEAM non-forest forest maps (SMByC) • Use of NREF emission factors • Forest maps in monitoring period
Observations	

Activity ID	A-15
ID Indicator	A-15.4
Indicator name	# of hectares of standing forest in leakage area
Type	Impact
Goal	Monitor the progress of deforestation and land cover changes.
SDGs to be met	SDG13 (emissions reduction), SDG15 (protection of forest habitat as it discourages deforestation), SDG15 (protection of forest habitat as it discourages deforestation)
Unit of measure	Number
Monitoring methodology	Evaluation of forest and non-forest maps according to PROCLIMA methodology.
Frequency of monitoring	Annually
Responsible for measurement	• Carbo-Terra • Yauto Responsible delegate on behalf of the reservation
Indicator result in the reporting period	110,570 hectares in June 2021

Documents to support the information	• Analysis of forest cover in the project area based on satellite images.
Observations	Carbo-Terra made a multi-year mapping analysis

Activity ID	A-17
ID Indicator	A-17.3
Indicator name	# of hectares subject to restoration actions
Type	Impact
Goal	Develop restoration actions in intervened areas
SDGs to be met	SDG13 (emissions reduction), SDG15 (protection of forest habitat as it discourages deforestation), SDG15 (protection of forest habitat as it discourages deforestation)
Unit of measure	Area (ha)
Monitoring methodology	Reforestation actions carried out by members of the community
Frequency of monitoring	Annually
Responsible for measurement	• Carbo-Terra • Yauto • Responsible person delegated on behalf of the reserve
Indicator result in the reporting period	1 hectare (about 800 individuals were planted in the forest and in open areas, occupying an area of approximately 1 hectare).
Documents to support the information	Community interviews in audiovisual files *4.1 Restoration activity 2018-VID_20210916.mp4*; *4.2 Number of seedlings VID_20210916*; *4.3 Species for restoration VID_2021091; 4.5 Reforestation to recover timber,* located in folder *Annex 4.* Photographic record of the planted trees (Photo files 1 to 6, located in *Annex 4).*
Observations	

Activity ID	A-18
ID Indicator	A-18.1
Indicator name	Individuals participating in meetings or workshops on communications topics
Type	Result
Goal	Social investment identification and prioritization processes are carried out in a participatory manner.
SDGs to be met	SDG1 (social investment), SDG11 (connectivity), SDG13 (emission reductions), SDG15 (protection of forest habitat as it discourages deforestation)

Unit of measure	Area (ha)
Monitoring methodology	Number of community members who attended training sessions, registration of participants, minutes and rapporteurships
Frequency of monitoring	Annually
Responsible for measurement	• Carbo-Terra • Yauto • Responsible person delegated on behalf of the reserve
Indicator result in the reporting period	**Attendance List** **Worksho p 1** | **Worksho p 2** | **Worksho p 3** | **Total** 162 | 58 | 58 | 278
Documents to support the information	• Minutes of meetings with the community (see annex 2). • Attendance lists (see annex 2) • Photographic record (See Annex 2).
Observations	

Activity ID	A-19
ID Indicator	A-19.4
Indicator name	Community bylaws document prepared
Type	Result
Goal	At least 1 community bylaws document prepared
SDGs to be met	SDG 3 - Health and well-being SDG 11 - Sustainable cities and communities
Unit of measure	Number of documents
Monitoring methodology	The number of documents related to community bylaws that are prepared is quantified.
Frequency of monitoring	Annually
Responsible for measurement	• Carbo-Terra • Yauto • Delegate representing the resguardo
Indicator result in the reporting period	1 document prepared
Documents to support the information	• REDD+ Project Management Scheme Document (see *Annex 9. Management Scheme* folder) • Minutes of Workshop 4 with the community (see Annex 2, *Workshop 4_ Puerto Zábalo REDD+ Council statute.pdf*). • Attendance lists workshop 4 (see annex 2)

	• Photographic record of workshop 4 (See annex 2)
Observations	Corresponds to the bylaws of the REDD+ Indigenous Council, which was defined as the Project's management and decision-making body at the community level.

Activity ID	A-19
ID Indicator	A-19.5
Indicator name	Malocas built and/or adequate
Type	Product
Goal	Number of malocas
SDGs to be met	SDG 3 - Health and well-being SDG 11 - Sustainable cities and communities
Unit of measure	Number
Monitoring methodology	The number of malocas built and/or adapted for the community is counted.
Frequency of monitoring	Annually
Responsible for measurement	• Carbo-Terra • Yauto • Responsible delegate on behalf of the reservation • Entities or programs
Indicator result in the reporting period	10 improved malokas 1 maloka built in the community of Jerusalén
Documents to support the information	• Amazon Conservation Team Report (see *Annex 4*, document *ACT 2018 Annual Report*). • *Pto. Zábalo Support Activities Report.pdf*, located in *Annex 4* folder. *Monitoring Evidence*
Observations	

3.3. REDD+ Safeguards

The monitoring plan for each applicable safeguard is presented below:

ID Safeguard	SVG-1
ID Indicator	SVG-1.1
Indicator name	Correspondence with national legislation
Type	Result
Goal	100%
Unit of measure	Percentage

Monitoring methodology	The current regulations are verified and it is verified that the proposed activities comply with them. The following equation will be used to monitor and report this indicator: $\frac{\#\ de\ actividades\ que\ cumplen\ la\ normatividad}{\#\ de\ actividades\ totales} \times 100\%$
Frequency of monitoring	Annually or when there is a change in project activities.
Responsible for measurement	Carbo-Terra Yauto
Indicator result in the reporting period	100%
Documents to support the information	• Regulatory support documents • Analysis of legal correspondence by project activities. • Attendance lists, meeting minutes, photographic records and recordings of community meetings. • Records.
Observations	All project activities have been carried out in compliance with the relevant regulations and legal aspects.

ID safeguard	Safeguard 2
Indicator ID	SVG - 2.1
Indicator name	Transformation and access to information
Type	Result
Goal	100% of the documents in appropriate language and in accordance with the appropriate means for access and understanding by the community.
Unit of measure	Percentage (%) of documents available
Monitoring methodology	Access to information in language and media appropriate for the community will be verified. The number of community leaders who have access to the documents developed will be verified. The following equation will be used to monitor this safeguard and report on this indicator: $\frac{\#\ de\ líderes\ de\ la\ comunidad\ con\ acceso\ a\ información}{\#\ de\ líderes\ totales\ de\ la\ comunidad} * 100\%$
Frequency of monitoring	Annual
Responsible for the measurement	Carbo-Terra Yauto
Indicator result in the reporting period	100%
Documents for support the information	• Documents generated, including minutes and proceedings of workshops, interviews and surveys • Workshop attendance lists • Meeting minutes • Socialization minutes

	• Community interviews and surveys
Observations	The leaders of the indigenous Resguardo participating in the project have information in appropriate language and media.

ID Safeguard	Safeguard -3
ID Indicator	SVG-3.1
Indicator name	Accountability
Type	Product
Goal	Submit an accountability report within 6 months after the verification process.
Unit of measure	Number
Monitoring methodology	The generation of accountability reports by the project implementer will be taken into account. Reporting and accountability sessions will be held with stakeholders each time audits of project activities are carried out.
Frequency of monitoring	Within 6 months after verification processes or audits of project activities.
Responsible for measurement	Carbo-Terra Yauto
Indicator result in the reporting period	Does not report
Documents to support the information	• Meeting minutes, attendance list and photographic record. • Reports.
Observations	The measurement result of this safeguard is associated with accountability reports, which will be produced once the process of verification and commercialization of the CCVs is completed.

ID safeguard	Safeguard 4
Indicator ID	SVG - 4.1
Indicator name	Recognition of forest governance structures
Type	Impact
Goal	Guarantee the recognition of the forest governance structures determined by law and those established by the authorities of the Resguardo in a manner that addresses the ethnic particularities, knowledge and traditions of the indigenous resguardo participating in the project.
Unit of measure	Compliance
Monitoring methodology	The number of recognized community governance structures is identified.

Frequency of monitoring	Annual
Responsible for the measurement	Carbo-Terra Yauto
Indicator result in the reporting period	Complies
Documents for support the information	• Surveys, • Documented forest governance structures • Documents prepared by institutions on forest governance. • Administrative acts of territorial planning
Observations	The reserve currently has a decision-making structure that is recognized and used by the project.

ID Safeguard	Safeguard -5
ID Indicator	SVG-5.1
Indicator name	Capacity building
Type	Result
Goal	Increase the technical, legal and administrative capacities of the members of the indigenous reserve.
Unit of measure	Number (#) of workshops held
Monitoring methodology	Thematic training sessions will be held (technical, legal and administrative), and tests will be administered at the end of the training sessions in order to evaluate the adoption of knowledge by the members of the community, and the results obtained will be reported.
Frequency of monitoring	Annual
Responsible for measurement	Carbo-Terra Yauto Community members
Indicator result in the reporting period	No reports
Documents to support the information	• Proceedings and reports of the conferences held. • Attendance lists, • community questionnaires, • photographic record
Observations	From the fourth year.

ID safeguard	Safeguard 6
Indicator ID	SVG-6.1
Indicator name	Free, Prior and Informed Consent
Type	Result
Goal	Ensure that the consultation spaces are carried out in accordance with

	the national provisions on consultation and free, prior and informed consent established in legislation and jurisprudence, as well as the guidelines issued by the Ministry of the Interior and the control agencies for relations with indigenous communities.
Unit of measure	Number (#) of free, prior and informed consent and consultation days or documents
Monitoring methodology	The number of days and documents that demonstrate the consent of the community members will be carried out and the number of activities carried out will be reported.
Frequency of monitoring	Annual
Responsible for the measurement	Carbo-Terra Yauto
Indicator result in the reporting period	8 consultation days (workshops)
Documents for support the information	• Minutes and reports of the conferences held (See Annex 2). • Attendance lists (see annex 2) • Documents • Audiovisual recording
Observations	

ID Safeguard	Safeguard -7
ID Indicator	SVG-7.1
Indicator name	Respect for traditional knowledge
Type	Result
Goal	Ensure that the communities' ways of understanding and relating to the environment have been taken into consideration and respected, so that the communities' traditions, uses and customs are not affected.
Unit of measure	# of consultation days/meetings
Monitoring methodology	Consultation days with community members related to project activities are quantified.
Frequency of monitoring	Annual
Responsible for measurement	Carbo-Terra Yauto
Indicator result in the reporting period	8 community consultation days
Documents to support the information	Evidence of relations and consultation with the communities (minutes of meetings, lists of participants, audiovisual record) (see Annex 2).
Observations	

ID Safeguard	Safeguard -8
ID Indicator	SVG-8.1

Indicator name	Profit sharing
Type	Impact
Goal	Ensure the equitable distribution of the benefits derived from the implementation of the project's policies, measures and actions.
Unit of measure	Currency
Monitoring methodology	Considering that there is a scheme for the distribution of resources derived from the commercialization of carbon certificates agreed with the communities, a record will be kept of the resources received by the indigenous reservation.
Frequency of monitoring	Annual
Responsible for measurement	Carbo-Terra Yauto Captaincy
Indicator result in the reporting period	Complies
Documents to support the information	A resource distribution agreement was established with the community (see the REDD+ Pto. Zábalo_v1 Project Administration Scheme file, in Annex 9).
Observations	

ID Safeguard	Safeguard -9
ID Indicator	SVG-9.1
Indicator name	Territorial rights
Type	Result
Goal	Guarantee respect for the collective and individual territorial rights of the community of the indigenous reservation of Puerto Zábalo Los Monos; its cultural, economic and spiritual use and significance.
Unit of measure	Compliance or non-compliance
Monitoring methodology	The regulations issued in terms of territorial rights for the resguardo are reviewed and their respect is verified.
Frequency of monitoring	Annual
Responsible for measurement	Carbo-Terra Yauto
Indicator result in the reporting period	Complies
Documents to support the information	An agreement was established for the administration of the project that recognizes the autonomy and self-government of the community over the territory (see REDD+ Pto. Zábalo_v1 Project Administration Scheme file, in Annex 9).

ID Safeguard	Safeguard -10
ID Indicator	SVG-10.1
Indicator name	Participation
Type	Result
Goal	Ensure full and effective participation of stakeholders to guarantee governance and adequate decision making on REDD+.
Unit of measure	Compliance or non-compliance
Monitoring methodology	The participation of community members in the development of all phases of the project will be verified to guarantee the exercise of their free participation and governance.
Frequency of monitoring	Annual
Responsible for measurement	Carbo-Terra Yauto
Indicator result in the reporting period	Complies
Documents to support the information	Evidence of relations, participation and consultation with the communities (minutes of meetings, lists of participants, photographic record).
Observations	

ID Safeguard	Safeguard -11
ID Indicator	SVG-11.1
Indicator name	Forest conservation and biodiversity
Type	Impact
Goal	Ensure that the project is not detrimental to the conservation of forests and their biodiversity.
Unit of measure	Compliance or non-compliance
Monitoring methodology	The project activities will not affect the area of stable forest present in the project area, through the use of remote sensing and field verification, nor will toxic substances be dumped or used.
Frequency of monitoring	Annual
Responsible for measurement	Carbo-Terra Yauto
Indicator result in the reporting period	Complies
Documents to support the information	• Generation of cartographic products (forest maps in the reserve, see GDB in Annex 5).
Observations	

ID Safeguard	Safeguard -12
ID Indicator	SVG-12.1
Indicator name	Provision of environmental goods and services
Type	Impact
Goal	Activities do not directly or indirectly affect ecosystem services such as carbon storage, water regulation, food provision, among others.
Unit of measure	Compliance or non-compliance
Monitoring methodology	The forest cover present in the territory of the indigenous reservation and the development of activities will be monitored to ensure that activities that affect biodiversity are not implemented.
Frequency of monitoring	Annual
Responsible for measurement	Carbo-Terra Yauto
Indicator result in the reporting period	Complies
Documents to support the information	• Generation of cartographic products (forest maps in the reserve, see GDB in Annex 5).
Observations	

ID Safeguard	Safeguard -13
ID Indicator	SVG-13.1
Indicator name	Environmental and territorial planning
Type	Result
Goal	Consolidate the territorial and environmental management instruments under a conservation and sustainable forest management approach, recognizing the indigenous reservation's own forms of management and the territorial context.
Unit of measure	Number
Monitoring methodology	Environmental and Territorial Management Plans will be developed recognizing the indigenous reserve´s own forms of management. Likewise, the implementation of these plans will be monitored.
Frequency of monitoring	Annual
Responsible for measurement	Carbo-Terra Yauto
Indicator result in the reporting period	Does not report
Documents to support the information	Land Management Plan documents developed
Observations	These activities will be developed within the framework of the project starting in the fourth year.

ID Safeguard	Safeguard -14
ID Indicator	SVG-14.1
Indicator name	Sector planning
Type	Result
Goal	Ensure that REDD+ actions are articulated with legislation related to forests and their biodiversity.
Unit of measure	Compliance
Monitoring methodology	Community members and Carbo-Terra will verify that REDD+ actions are articulated with legislation related to forests and their biodiversity.
Frequency of monitoring	Annually
Responsible for measurement	Carbo-Terra
Indicator result in the reporting period	The REDD+ project is articulated with the Environmental Management Plan of the Puerto Zábalo Los Monos Indigenous Reserve, with the action plan against deforestation of the municipality of Solano and with the Solano Municipal Development Plan.
Documents to support the information	• Municipal Development Plan (See Annex 3) • Departmental Development Plan (See Annex 3) • Action Plan of the Environmental Authorities (See Annex 3) • Reserve´s environmental management plan (See Annex 3).
Observations	Monitoring activities will be developed within the framework of the project.

ID Safeguard	Safeguard -15
ID Indicator	SVG-15.1
Indicator name	Forestry control and monitoring to prevent emissions displacement
Type	Result
Goal	Conduct monitoring actions to detect the displacement of emissions.
Unit of measure	Number (#)
Monitoring methodology	GHG emissions in the project leakage area are quantified and compared to the baseline to identify the trend of change.
Frequency of monitoring	Annually
Responsible for measurement	Carbo-Terra
Indicator result in the reporting period	Complies
Documents to support the information	• Satellite imagery and analysis of cover change in leakage area.
Observations	There was no increase in emissions above the baseline in the leakage area during the monitoring period.

3.4. Permanence of the project

Project Permanency monitoring report for the period 2018-2020:

Identified Risk	Monitoring Indicators	Frequency of Monitoring	Result during the 2018 monitoring period	Result during the 2019 monitoring period	Result during the monitoring period 2020
Fires	M.1. # of fires detected	Annual	No fires were detected.	No fires were detected.	No fires were detected.
	M.2. # of hectares affected by fires	Annual	No fires were detected.	No fires were detected.	No fires were detected.
Floods	M.3 # of hectares affected by flooding	Annual	No flooding was detected.	No flooding was detected.	No flooding was detected.
Land tenure disputes	M.4 # of hectares subject to land tenure dispute	Annual	There were no land tenure disputes.	There were no land tenure disputes.	There were no land tenure disputes.
Non-ownership of project activities	M.5. # of REDD+ activities that cannot be implemented due to lack of ownership by project stakeholders.	Annual	The programmed activities were carried out in a timely manner.	The programmed activities were carried out in a timely manner.	The programmed activities were carried out in a timely manner.

3.5. Project emissions

3.5.1. Activity data

3.5.1.1. Annual deforestation in the project area

It is estimated with the following equation:

$$CSB_{proy,año} = \left(\frac{1}{t_2 - t_1}\right) \times \left(A_{REDD+proy,1} - A_{REDD+proy,2}\right)$$

$$CSB_{proy,año} = 412\ ha$$

Where:

$CSB_{proy,año}$	=	Annual change in the area covered by forest in the project area (ha)
t_2	=	Year end of monitoring period
t_1	=	Initial year of the monitoring period
$A_{REDD+proy,1}$	=	Area under forest in the project area at the beginning of the monitoring period (ha)
$A_{REDD+proy,2}$	=	Area under forest in the project area at the end of the monitoring period (ha)

3.5.1.2. Annual deforestation in the leakage area

It is calculated from the following equation:

$$CSB_{f,año} = \left(\frac{1}{t_2 - t_1}\right) \times \left(A_{f,1} - A_{f,2}\right)$$

$$CSB_{f,año} = 41\ ha$$

Where:

$CSB_{f,año}$	=	Annual change in the area covered by forest in the leakage area (ha)
t_2	=	Year end of monitoring period
t_1	=	Initial year of the monitoring period
$A_{f,1}$	=	Area in forest, in the area of leakage at the beginning of the monitoring period (ha)
$A_{f,2}$	=	Area in forest, in the area of leakage at the end of the monitoring period (ha)

3.5.1.3. Annual degradation in the project area

It is estimated with the following equations:

$$DFP_{REDD+proy,año} = \left(\frac{1}{t_2 - t_1}\right) \times \left(A_{núcleo} - A_{núcleo-parche}\right)$$

$$DFP_{REDD+proy,año} = 5{,}81\ ha$$

Where:

$DFP_{REDD+proy,año}$	=	Annual primary degradation in the project area (ha)
t_2	=	Year end of monitoring period
t_1	=	Initial year of the monitoring period
$A_{núcleo}$	=	Project area in core class at the beginning of the monitoring period (ha)
$A_{núcleo-parche}$	=	Project area changing from core to patch at the end of the monitoring period (ha)

$$DFS_{REDD+proy,año} = \left(\frac{1}{t_2 - t_1}\right) \times \left(A_{perforado} - A_{perforado-parche}\right)$$

$$DFS_{REDD+proy,año} = 10{,}3\ ha$$

Where:

$DFS_{REDD+proy,año}$	=	Annual secondary degradation in the project area (ha)
t_2	=	Year end of monitoring period
t_1	=	Initial year of the monitoring period
$A_{núcleo}$	=	Project area in class drilled at the beginning of the monitoring period (ha)
$A_{núcleo-parche}$	=	Project area changing from drilled to patch at the end of the monitoring period (ha)

3.5.1.4. Annual degradation in the area of leakage

It is estimated with the following equations:

$$DFP_{f,año} = \left(\frac{1}{t_2 - t_1}\right) \times \left(A_{núcleo,f} - A_{núcleo-parche,f}\right)$$

$$DFP_{f,año} = 1{,}3\ ha$$

Where:

$DFP_{f,año}$	=	Annual primary degradation in the leakage area (ha)
t_2	=	Year end of monitoring period
t_1	=	Initial year of the monitoring period
$A_{núcleo,f}$	=	Leakage area in core class at the beginning of the monitoring period (ha)
$A_{núcleo-parche,f}$	=	Leakage area changing from core to patch at the end of monitoring period (ha)

$$DFS_{f,año} = \left(\frac{1}{t_2 - t_1}\right) \times \left(A_{perforado,f} - A_{perforado-parche,f}\right)$$

$$DFS_{f,año} = 3{,}8\ ha$$

Where:

$DFS_{f,año}$	=	Annual secondary degradation in the leakage area (ha)
t_2	=	Year end of monitoring period
t_1	=	Initial year of the monitoring period
$A_{núcleo,f}$	=	Area of leakage in perforated class at the beginning of the monitoring period (ha)
$A_{núcleo-parche,f}$	=	Leakage area changing from drilled to patch at the end of the monitoring period (ha)

3.5.2. GHG emissions during the monitoring period

3.5.2.1. Deforestation

The annual emission from deforestation in the project area is calculated from the following equation:

$$EA_{REDD+proy,año} = DEF_{REDD+proy,año} \times tCO_{2e}$$

$$EA_{REDD+proy,año} = 230.130 \ tCO2e$$

Where:

$EA_{REDD+proy,año}$	=	Annual emission in the project area (tCO2/ha)
$DEF_{REDD+proy,año}$	=	Annual deforestation in project area (ha)
tCO_{2eq}	=	Total equivalent carbon dioxide (tCO2e/ha)

The annual emission from deforestation in the leakage area is calculated from the following equation:

$$EA_{f,año} = \left(DEF_{f,año} \times tCO_{2eq}\right) - EA_{lb,f,año}$$

$$EA_{f,año} = 23.203 \ tCO2e$$

Where:

$EA_{Rf,año}$	=	Annual emission in the leakage area (tCO2/ha)
$DEF_{f,año}$	=	Annual deforestation in the area of leakage (ha)
tCO_{2eq}	=	Total carbon dioxide equivalent (tCO2e/ha)
$EA_{lb,f,año}$	=	Annual emission from deforestation in the leakage area in the baseline scenario (tCO2e)

3.5.2.2. Degradation

The annual emission from degradation in the project area is calculated from the following equation:

$$EA_{REDD+proy,año} = \left(DFP_{REDD+proy,año} \times DTBCO_{2eq,1}\right) + \left(DFs_{REDD+proy,año} \times DTBCO_{2eq,2}\right)$$

$$EA_{REDD+proy,año} = 2.102\ tCO2e$$

Where:

$EA_{REDD+proy,año}$	=	Annual emission in the project area for the monitored period (tCO2/ha)
$DFP_{REDD+proy,año}$	=	Annual primary degradation in the project area (ha)
$DTBCO_{2eq,1}$	=	Carbon dioxide equivalent contained in total biomass difference per hectare in primary degradation class (tCO2e/ha)
$DFs_{REDD+proy,año}$	=	Annual secondary degradation in the project area (ha)
$DTBCO_{2eq,2}$	=	Carbon dioxide equivalent contained in total biomass difference per hectare in the secondary degradation class (tCO2e/ha)

The annual emission from degradation in the leakage area is calculated from the following equation:

$$EA_{f,año} = \left(DFP_{f,año} \times DTBCO_{2eq,1}\right) + \left(DFS_{f,año} \times DTBCO_{2eq,2}\right)$$

$$EA_{f,año} = 601\ tCO2e$$

Where:

$EA_{f,año}$	=	Annual emission in the leakage area for the monitored period (tCO2/ha)
$DFP_{f,año}$	=	Annual primary degradation in the leakage area(ha)
$DTBCO_{2eq,1}$	=	Carbon dioxide equivalent contained in total biomass difference per hectare in primary degradation class (tCO2e/ha)
$DFs_{f,año}$	=	Annual secondary degradation in the leakage area(ha)

$DTBCO_{2eq,2}$	=	Carbon dioxide equivalent contained in total biomass difference per hectare in secondary degradation class (tCO2e/ha)

3.5.3. Quantification of the project's emission reductions

3.5.3.1. Deforestation

Emission reductions from avoided deforestation in the monitoring period are estimated according to the equation:

$$RE_{DEF,REDD+proy} = (t_2 - t_1) \times \left(EA_{DEF,lb,año} - EA_{DEF,REDD+proy,año} - EA_{DEF,f,año}\right)$$

$$RE_{DEF,REDD+proy} = 1.768.348\ tCO2e$$

Where:

$RE_{DEF,REDD+proy}$	=	Emission reductions from avoided deforestation in the project scenario (tCO2e)
t_2	=	Year end of reporting period
t_1	=	Initial year of the reference period
$EA_{DEF,lb,año}$	=	Annual emissions from deforestation in the baseline scenario (tCO2e)
$EA_{DEF,REDD+proy,año}$	=	Annual emission from deforestation in the project area (tCO2e)
$EA_{DEF,f,año}$	=	Annual emission from deforestation in the leakage area (tCO2e)

3.5.3.2. Degradation

Emission reductions from avoided degradation are estimated from the following equation:

$$RE_{DEG,REDD+proy} = (t_2 - t_1) \times \left(EA_{DEG,lb,año} - EA_{DEG,REDD+proy,año} - EA_{DEG,f,año}\right)$$

$$RE_{DEG,REDD+proy} = 124.362\ tCO2e$$

Where:

$RE_{DEG,REDD+proy}$	=	Emission reductions due to avoided degradation in the scenario with project (tCO2e)
t_2	=	Year end of reporting period
t_1	=	Initial year of the reference period
$EA_{DEG,lb,año}$	=	Annual emission of degradation in the baseline scenario (tCO2e)
$EA_{DEG,REDD+proy,año}$	=	Annual emission from degradation in the project area (tCO2e)
$EA_{DEG,f,año}$	=	Annual emission from degradation in the leakage area (tCO2e)

3.5.3.3. Total project emissions reduction

Total avoided deforestation and degradation emissions reductions during the 2019-2020 monitoring period are estimated from the following equation:

$$RE_{tot+proy} = RE_{DEF,REDD+proy} + RE_{DEG,REDD+proy}$$

$$RE_{tot+proy} = 6{,}189{,}218\ \text{tCO2e}$$

Where:

$RE_{tot+proy}$	=	Total avoided emissions from deforestation and degradation in the scenario with project (tCO2e)
$RE_{DEF,REDD+proy}$	=	Emission reductions from avoided deforestation in the project scenario (tCO2e)
$RE_{DEG,REDD+proy}$	=	Emission reductions due to avoided degradation in the scenario with project (tCO2e)

On the other hand, considering the uncertainty associated with the estimation of GHG emission reductions due to project implementation and subject to reductions, the emission reductions for the monitoring period are:

CONCEPT / ACTIVITY	AVOIDED DEFORESTATION	DEGRADATION PREVENTED
Total reductions monitoring period tCO2)	6.189.218	124.362
Reductions - Uncertainty 9.3% (tCO2)	575.597	11.566
Tradable GHG reductions for monitoring period (tCO2)	**5.613.621**	**112.797**
TOTAL NET	5,726,418 tCO2e	

The annual GHG emission reductions for the monitoring period (including uncertainty discounting) are as follows:

YEAR	DEFORESTATION AVOIDED (tCO2e)	DEGRADATION AVOIDED (tCO2e)	TOTAL (tCO2e)
2018	1.452.188	32.228	1.484.415
2019	1.610.630	32.228	1.642.857
2020	1.681.407	32.228	1.713.635
2021	869.396	16.114	885.509
TOTAL (tCO2e)	**5.613.621**	**112.797**	**5.726.418**