

Public
Summary
of the

FOREST MANAGEMENT PLAN

2021



Forestry
Business Unit

ARACRUZ

FOREST MANAGEMENT PLAN

SUMMARY

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PROCEEDINGS

Every year, Suzano S.A. prepares its Forest Management Plan for the regions where it operates based on data from the previous year and according to results for monitoring and control or significant changes in forestry operations, responsibilities and socioeconomic or environmental conditions.

Cover

Maguari (*Ciconia maguari*)

Images

Suzano's archives

01

ABOUT THE **SUMMARY**

01

ABOUT THE SUMMARY

In this public summary of the Forest Management Plan, Suzano S.A. presents information on the forestry activities of the region, including responsibilities, available resources and strategies used in the adoption of responsible forest management focusing on the sustainable development.

It is a synthesis of the Forest Management Plan based on the main forest certifications: FSC® – Forest Stewardship Council®, FSC-STD-BRA-01-2014 V1-1 PT FSC and NBR 14.789:2012 CERFLOR (Forest Certification). Each system has its own principles and criteria.

Suzano S.A.'s Forest Business Units (FBU) under the scope of the forest certification are licensed under the following codes: FSC-C009927, FSC-C100704, FSC-C110130, FSC-C155943 and FSC-C118283.

In addition to the printed version, the Public Summary of the Forest Management Plan is emailed to the Company's main stakeholders: society, public authorities, neighbors and communities in its areas of operation, in addition to employees and outsourced.

Have a pleasant reading!

Additional information, questions, feedback and suggestions that may arise from this reading should be sent to:

suzanoresponde@suzano.com.br

Or calling:

0800 022 1727

**ABOUT
SUZANO S.a.**

02

ABOUT SUZANO S.A.

Suzano is a global reference for the development of sustainable and innovative solutions from renewable sources and is committed to renewing life from the tree.

World leader in the manufacturing of eucalyptus pulp and one of the major manufacturers of paper in Latin America, Suzano exports to over 100 countries and its products are part of the lives of more than 2 billion people.

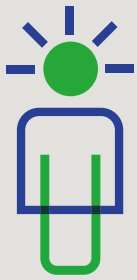
With eleven operating plants and the joint operation Veracel, its installed capacity is 10.9 million tons of market pulp and 1.3 million tons of paper per year.

Suzano has approximately 35 thousand direct and indirect collaborators and has been investing in innovative solutions in eucalyptus crops to allow the replacement of fossil fuels by raw materials from renewable sources. The company has the highest degrees of Corporate Governance with B3, in Brazil, and New York Stock Exchange (NYSE), in the USA, stocks where its shares are traded.

We plant and grow trees. We transform this renewable raw material into innovative and sustainable bioproducts that are part of your daily life.



RENOVO NOVDATE



People who
**INSPIRE AND
TRANSFORM**



We create
and share
VALUE



It's only good
for us if
**IT'S GOOD FOR
THE WORLD**

Renewing life from the tree. This is our purpose. We need to renew our ways of producing, consuming, distributing value, and relating with nature. Each eucalyptus seedling carries solutions for sustainable and innovative ideas for society.

For Suzano, trees are a symbol of renovation. With them, we plant a future of innovation and sustainability. This is what we call INNOVABILITY. We believe that trees are the basis for it and that our crops can generate renewable inputs for several businesses. That's how we evolve more and more.

We operate responsibly based on our expertise in eucalyptus crops. This means that we always use the best management practices in cropping - that is how we contribute for the maintenance of fertility and protection against erosion and degradation.



Red-billed curassow (*Crax blumenbachii*)



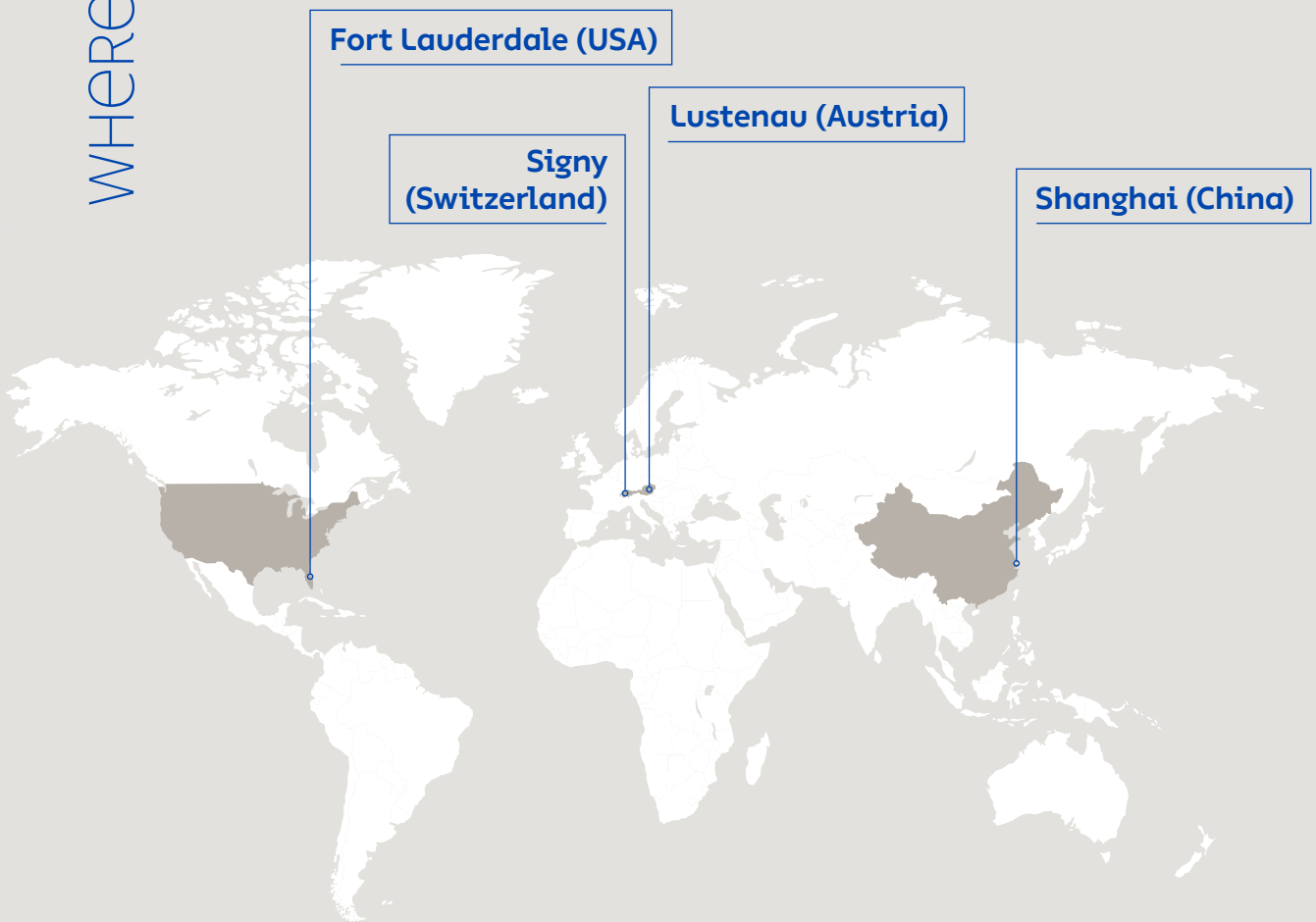
WHERE WE ARE

03

WHERE WE ARE

Business offices

We have business offices abroad in China, USA, Switzerland and Austria and subsidiaries in England and Argentina.



Distribution Centers

United States (4)

Europe (6)

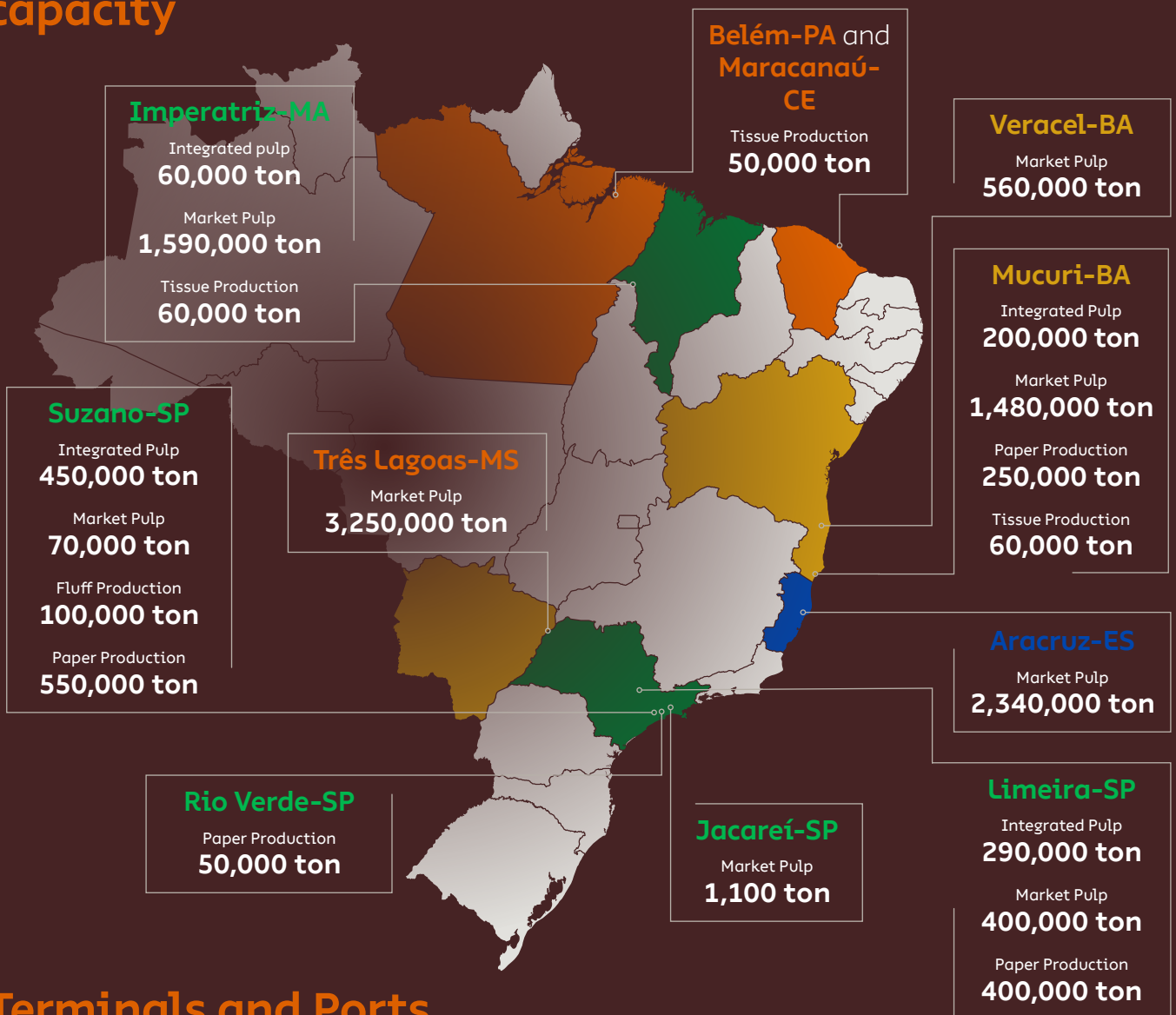
Asia (2)



Our organization includes administrative offices in Salvador (state of Bahia) and São Paulo (state of São Paulo), industrial plants and FuturaGene, which is responsible for the genetic development of forest crops and biofuels, with research laboratories in Israel and China. In 2021, FBU Mato Grosso do Sul started building a new plant in the municipality of Ribas do Rio Pardo.

We provide products and services from 1.3 million hectares of planted forests and 960 thousand hectares of preserved forests in the states of Bahia, Espírito Santo, Minas Gerais, São Paulo, Mato Grosso do Sul, Maranhão, Tocantins, Para and Piauí.

Suzano's production capacity



Terminals and Ports

Belmonte (BA)

São Luis (MA)

Santos (SP)

* Relative to production capacity of each industrial unit

FOREST OPERATION AREA



04

FOREST OPERATION AREA



Forest assets with certification

Suzano's forest competitiveness ensures its operation in different regions with adequate productivity.

OWNED AND LEASED AREAS AND PARTNERSHIPS

Business Unit	Crop Area (ha)	Conservation area (ha)	Infrastructure (ha)	Total (ha)
Aracruz/Mucuri	382,107.70	298,220.76	29,638.59	709,967.05
Imperatriz	216,427.69	299,918.82	16,525.23	532,871.74
Limeira/Suzano/Jacareí	219,159.22	134,253.20	16,789.29	370,201.71
Três Lagoas / Cerrado	422,418.80	280,406.76	21,802.23	724,627.79
Total	1,240,113.41	1,012,799.54	84,755.34	2,337,668.29

Data of May/2022



FOREST AREAS WITHIN THE SCOPE OF FSC® AND CERFLOR CERTIFICATIONS FOR EACH FOREST BUSINESS UNITS

FBU	Certified areas FSC® and PEFC (ha)
FBU BA	328,885.91
FBU ES	214,613.58
FBU MA	400,786.81
FBU MS	303,697.15
UNF SP	335,087.67
Suzano S.A. Total	1,583,071.12

Data of Dec/2021

5

FOREST CERTIFICATION

05

FOREST CERTIFICATION

Suzano S.A. is committed to its goal of guiding its Forest Management system according to the Principles and Criteria set forth by the FSC® Certification and CERFLOR NBR 14.789 Forest Management, aiming to provide long-term business sustainability, continuous improvement of its activities and performance, as well as the adoption of environmentally correct and socially responsible practices.

To this end, the company has incorporated the environmental, social and economic dimensions into its forest management basic guidelines, as follows:

- To seek technological innovations and to support research to apply the best forestry techniques in its forest production units.
- To contribute to the professional development of direct and indirect collaborators.
- To implement the Forest Production Plan based on environmental aspects, such as landscape and microbasins management, monitoring of fauna, maintenance of biodiversity corridors, and compliance with the applicable federal, state and city legislation, as well as international agreements of which Brazil is signatory.

- To contribute to the maintenance or improvement of communities surrounding the forest management units through open dialog channels, participative follow-up of social indicators, sharing of relevant information and promoting recreation areas or environmental education.

Timber traceability

Every timber harvested from eucalyptus crops in certified areas have their traceability ensured (stewardship chain of custody), i.e., origin guaranteed from planting to transportation for the industry, thus eliminating the risk of a mix up with logs from uncertified areas (timber controlled by Due Diligence assessment).



Suzano has the
**FOREST
CERTIFICATIONS**
FSC® and CERFLOR (NBR 14,789)



FORESTRY
BUSINESS UNIT
ARACRUZ

06

FBU ES

Suzano S.A.'s Forest business unit in Aracruz-ES is responsible for the forest management operations in 21 (twenty one) municipalities in the state of Espírito Santo. This unit is divided into two regionals - Aracruz and São Mateus.

In 2021, FBU-ES incorporated approximately 20 thousand ha of leased areas from Caravelas Florestal into its forest management.

Plantings are carried out in owned lands, through leasing contracts, or through partnerships with rural producers. With a forest base of 269 thousand hectares, of which 108 thousand hectares are intended for biodiversity conservation (data from December, 2020), Suzano-ES forest management is carried in a way to balance eucalyptus planting with the conservation of natural resources, technological innovations and respect for the communities.

All production is based on renewable eucalyptus crops, with the aim of supplying the industrial complex of Aracruz - ES, with capacity to produce 2.3 thousand tons of bleached eucalyptus pulp per year.

Aracruz-ES industrial unit operates in compliance with environmental control standards, applying technology aimed at monitoring emissions, air and water quality, and the proper disposal of waste.

The seedlings are created with clonal technology, from a certified partner nursery and hold the most advanced genetic database for the production of pulp.

The harvesting process respects the region characteristics and uses efficient systems that rely on equipment that allow an efficient, safe and environmentally friendly operation.

To ensure success in all phases of the process, the company constantly invests in research, technology, and professional training. Suzano's practice is to recruit candidates from the regions where it operates, provided that they meet the requirements for the job and apply on equivalent terms with other candidates.

It is also the company's practice to train the workforce involving the communities, in partnership with universities and technical institutions.

FBU Aracruz encompasses a forest base of **269 K Ha**, of which, about **108 K Ha** are destined to preservation.



AREA OF OPERATION PER MUNICIPALITY

State	Municipality	Municipality's area (ha)	Planting (ha)	Preservation (ha)	Other uses (ha)	Total area of occupancy (ha)	Total area of occupancy (%)
ES	Aracruz	142,028.50	26,154.06	16,522.61	3,491.76	46,168.43	32.51%
ES	Boa Esperança	42,871.60	930.71	1,635.72	151.61	2,718.04	6.34%
ES	Conceição da Barra	118,258.70	41,061.17	23,569.00	3,216.03	67,846.20	57.37%
ES	Ecoporanga	228,536.90	-	995.38	7.29	1,002.67	0.44%
ES	Fundão	28,685.40	648.50	444.93	69.59	1,163.02	4.05%
ES	Ibatiba	24,027.80	-	15.44	4.97	20.41	0.08%
ES	Jaguaré	65,975.10	3,309.42	1,603.96	349.47	5,262.85	7.98%
ES	Linhares	349,626.30	7,175.03	8,508.39	792.53	16,475.95	4.71%
ES	Montanha	109,906.00	8,029.49	10,643.53	748.51	19,421.53	17.67%
ES	Mucurici	54,052.90	2,941.98	3,663.67	265.11	6,870.76	12.71%
ES	Nova Venécia	144,800.00	-	-	0.11	0.11	0.00%
ES	Pedro Canário	43,345.30	2,101.50	1,537.31	279.03	3,917.84	9.04%
ES	Pinheiros	97,313.60	6,448.76	8,407.38	810.94	15,667.08	16.10%
ES	Ponto Belo	36,011.00	-	8,612.43	71.44	8,683.87	24.11%
ES	Rio Bananal	64,192.90	375.62	512.33	35.89	923.84	1.44%
ES	Santa Leopoldina	71,809.70	252.88	426.09	56.74	735.71	1.02%
ES	Santa Teresa	68,321.90	-	3.39	1.24	4.63	0.01%
ES	São Mateus	234,604.70	40,494.48	17,177.38	3,163.44	60,835.30	25.93%
ES	Serra	54,763.10	2,414.89	2,359.80	262.94	5,037.63	9.20%
ES	Sooretama	58,703.60	2,310.09	1,302.12	163.32	3,775.53	6.43%
ES	Vila Valério	47,034.30	1,691.86	1,063.80	183.74	2,939.40	6.25%
TOTAL		2,084,869.30	146,340.44	109,004.66	14,125.70	269,470.80	12.93%

Source: Suzano's database on 3/23/2022 / Area in hectares / Municipalities' areas - Source IBGE
 * Other uses correspond to roads, buildings, areas under overhead power lines, etc.



ENVIRONMENTAL aspects

07

ENVIRONMENTAL ASPECTS

Forest regions

The forest areas and other native phytophysiognomies in FBU ES areas offer possibilities for the conservation of the biodiversity.

We are in the Atlantic Forest domain, that contains broad biodiversity, traditional communities, a rich cultural heritage, tourist sites and water springs.



Soil, climate and hydrography

The soil in Aracruz Unit is mostly acid, deep, highly weathered, well drained, low in organic matter, with low fertility, cohesive, resistant to erosion and compaction; very hard when dry and brittle when humid.

According to IBGE (Brazilian Institute of Geography and Statistics), Suzano's crops in Espírito Santo are centered in a region of tropical warm humid and tropical super-humid climate, where the annual average rainfall is between 1,200 and 1,400 mm/year.

In its influence zone, the average temperature is around 24°C and varies up to 5°C between the warmest and coldest months.

The main hydrographic regions of the state of Espírito Santo where Suzano's areas of influence are located are the North Central Coast (basins of the rivers Riacho, Reis Magos, Piraqueaçú and Jacaraípe), Doce river, the affluents of the North and South branches of the São Mateus river, and Itaúnas river.

Fauna and Flora

The areas of FBU-ES are inserted into different mosaics of forest coverage and house several phytophysionomies of the Atlantic Forest biome.

Generally, our areas encompass forest fragments capable of contributing to the conservation of several species, especially threatened species or endemic to the biome.

The environmental characterization in Suzano's areas of operation is done through the monitoring of the fauna and flora. In a general way, the studies seek to identify, randomly or systemically, the local fauna and flora species, enabling the identification of critical species (protected by law), mapping the habitats of endemic, rare and endangered species, and finding opportunities for more detailed studies, restorative actions on the flora, or improvement of environmental conditions for the fauna.

The campaigns for the monitoring of fauna are carried every three years, while the flora is monitored every four years and it includes expeditions during dry and rain.



1. Crested capuchin (*Sapajus robustus*), 2. Orange-winged amazon (*Amazona amazonica*), 3. Campo troupial (*Icterus jamaicai*), 4. Orchid (*Pseudolaelia vellozicola*), 5. Masked yellowthroat (*Geothlypis aequinoctialis*) 6. Maguari stork (*Ciconia maguari*)

A photograph of a woman with long dark hair, wearing a white short-sleeved button-down shirt, smiling as she works in a field of young green plants. The background is a soft-focus landscape of trees and sky.

SOCIOECONOMIC ASPECTS

08

SOCIAL AND ECONOMIC ASPECTS

Forest areas

Characterizing and identifying the main socioeconomic and cultural aspects present in the Forest Centers to support the work of the company in defining the specific strategies in its area of operation.

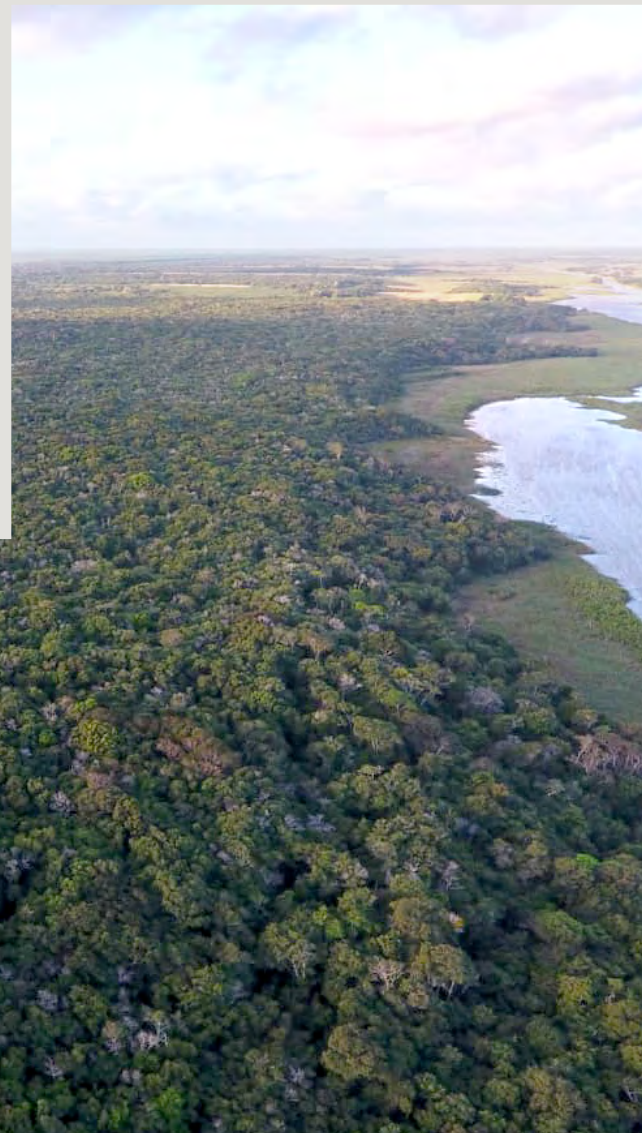
The Management Unit is situated in an area that includes urbanized municipalities in the metropolitan region of Vitória, important regional centers such as Linhares and São Mateus, and small rural municipalities such as Montanha.

Eucalyptus crops consists of a dynamic activity in the region, being responsible for important socioproductive changes, even though traditional activities such as livestock, subsistence farming and fishing have great importance to the productive structure of the regional economy.

The municipalities Rio Bananal, Vila Valério, Sooretama, Pinheiros, Linhares, Montanha, Ecoporanga, Ponto Belo, Jaguaré and Mucurici are generally characterized by the dominance of small rural properties occupied by family groups dedicated to food products and traditional commodities (mainly coffee), partners, sharecroppers, tenants, who might complement their income as day laborers in local farms.

Cattle farms and the related cowboy sociability occupy a significant part of the landscape, especially in the northwest part of the state.

Communities formed by African slaves' descendants occupy the region of Sao Mateus and Conceicao da Barra. Groups of farmers, cowboys, riparian's and traditional fishermen complete the picture of traditional occupation in this area, that has been facing a steep urbanization.



The indigenous presence is strong in Aracruz area, encompassing the territories of Tupiniquins and M'bya (Guarani). The region is undergoing an urbanization process.

The company identifies the social assets by means of tools and procedures to frame the location profiles. These procedures and tools are used to understand and map the main social and economic characteristics of the cities nearby and, in this way, to guarantee a strategic direction for its actions, set forth by the Director of Sustainability planning and priority tools.

Archaeological information

The archaeological sites and locations with significant historical and/or cultural relevance located in the company's areas or surroundings are identified in our cartographic base. Among the main actions performed, we highlight: identifying sites of special historical, archaeological, cultural, ecological, economic or religious significance for the communities and training field staff on archaeological heritage.



An aerial photograph of a large, winding reservoir with numerous islands of forested land. The water is a clear, light blue-green color. The surrounding landscape is a mix of green fields and forested areas, with mountains visible in the far distance under a cloudy sky.

SERVE PRESE

Distribution of Suzano's farms, Conservation units and Management Units of Water Resources

Conservation Units are legally recognized areas, with relevant natural features with the role of securing the representativeness of significant and ecologically viable samples of the different populations, habitats and ecosystems.

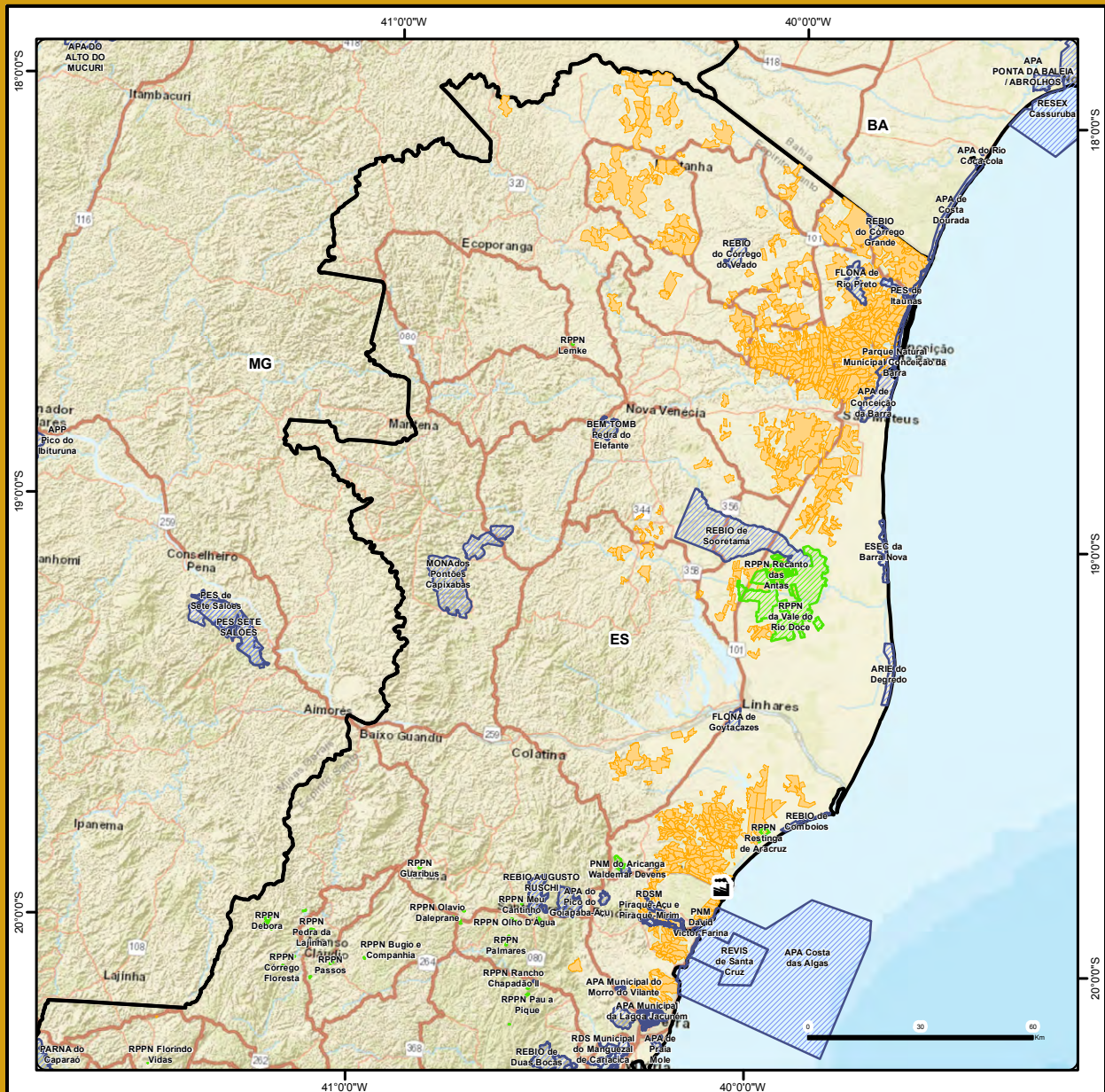
The fragments of native vegetation and planted forest have an important role in the set of biodiversity conservation actions both locally and state-wide.

The areas operated by Suzano, with the techniques provided to protect fragments and manage commercial crops, have relevant positive effects on the neighboring conservation units because they shelter significant amounts of biodiversity and maintain the functionality of key biological and ecological processes.

The use of water by operational activities is regulated by state and federal bodies, that define the availability of each resource and the volume needed by other users, and establishes the maximum volume of water to be used by the company, thus granting the supply of other users of the basin.

Some adjoining Conservation Units to Suzano ES are the **Biological Reserve of Comboios, Sooretama, Corrego Grande and Corrego do Veado**, the **National Forest of Rio Preto**, and **State Park of Itaunas**.

MAP OF CONSERVATION UNITS



Map of conservation units Unit Espírito Santo

 Aracruz plant
 Farm
 Conservation Units
 Conservation Units (RPPN)



THE IMPORTANCE OF **PLANTED FORESTS**

09

THE IMPORTANCE OF PLANTED FORESTS

What is forest management?

Forest Management is the administration of forest resources with the aim of achieving economic and social benefits aligned with the mechanisms for ecosystem support by employing the best practices of Eucalyptus farming. The goal is to reach high productivity in balance with the environment conservation.

Objective

The goal of Suzano’s forest management is to supply the industrial Units with eucalyptus timbers, according to the parameters described in the following, either for short or long terms.

- Availability and rational use of areas for the cultivation of eucalyptus through directives and procedures for the purchase and lease of land.
- Development of new genetic material and monitoring of soil nutritional levels, pests and others, defined in operational routines and specific research projects.
- Standardization, reporting and continuous improvement of procedures related to seedling production, implementation, restoration, forestry practices, construction and conservation of roads, harvesting, and transportation of forestry products.
- Outlining of programs concerning the environment, healthcare and safety at work, as well as socioenvironmental aspects, always in compliance with the applicable law.



THE EUCALYPTUS

Is an exotic species (not native from Brazil), like coffee, corn, soy, sugar cane and several other crops widely cultivated in the country.

With proper management, water consumption is similar to that of native forests and its roots are kept away from the water table

It is harvested in approximately seven years and can be cultivated in low fertility land.

With proper management, it provides protection for biodiversity as shown by the biodiversity surveillance results in Suzano’s areas.

Helps to absorb carbon dioxide (CO2) from the atmosphere, contributing to reduce the effects of climate change and to maintain environmental services that are important to society, such as water sources.



The average annual production of FBU ES is around

34.27 M³/Ha.YEAR

Compliance with the law

Suzano is always up-to-date with the applicable environmental, labor and tax laws with preliminary surveys carried out by an environmental law consulting firm.

Managed forest resources

To supply the demands of the industry for eucalyptus timbers, we rely on crops of the genus Eucalyptus, which encompasses more than 600 species that are adapted to many different soil and weather conditions. Eucalyptus originates from Australia and Indonesia. It was chosen due to its higher potential for timber production for pulp when compared with other forestry species and due to its adaptability to the environmental conditions in Brazil, including soil and weather.

Forest Management Activities



Technology and innovation

Suzano maintains advanced Technology Centers that develop studies and research on forestry and industry. These activities aim to a consistent enhancement of its operations and technological innovations, focusing on the company's sustainability.

Technology and Innovation works mainly on Genetic Improvement, Genomics, Forest Protection, Forest Management, Ecophysiology and Biotechnology, defining models of planted forest management that support an increase in forest biomass productivity.

Suzano's crops are mostly formed by hybrids obtained from the crossbreeding of *Eucalyptus grandis* and *Eucalyptus urophylla*.

Those species were selected following several cycles of improvement and research because they are better adapted to the local soil and weather conditions. Currently, the tree is harvested in six years in average, varying from five to seven years. After the first harvest, the area is managed for a new planting or for regrowth.

Partnerships

Suzano develops studies and research in collaboration with outstanding public and private institutions in Brazil and abroad. All projects and activities seek to meet market and operational demands, legal requirements, new tendencies, technologies and products of internal research strategies.

As a result, Suzano stands out in developing and recommending new genetic materials, in monitoring and recommending forest management practices and fertilization, in using new technologies in forest protection and more sustainable production practices. In addition to the results highlighted in forestry, Suzano also sustains solid and robust results in the research and development of the industry and new businesses.



Meet our partners in research and innovation in:
www.suzano.com.br/a-suzano/documentos

FOREST MANAGEMENT

10

FOREST MANAGEMENT

Forest protection

The company continuously monitor for pests, diseases and weed with regular field visits.

The objective is the early detection of pests and weeds, and the assessment of the competition level of eucalyptus with weed. All information gathered are used to guide decisions on control and to define the method to be adopted, seeking for the rational use of pesticides.

Suzano also prioritizes the use of biological control agents in occasional pest management, and selection and planting of clones resistant to the main crop diseases, complementing the integrated management.

Forest Inventory

On its first 120 days, the forest is monitored through a Qualitative Inventory that allows inferences on the quality and homogeneity of the crops. In regrowth forests, performance is monitored at 90 and 180 days upon harvesting also through qualitative forest inventory.

The Continuous Forest Inventory uses sampling techniques to gather data that allow an estimate of the planting volume per hectare and per tree for a given age. This information is used in the decision making process on the best harvest time. It is also important for the proper planning of timber supply to the Industrial Unit.

Planning

Planting and harvesting planning for timber supply comprises short, medium and long term achievements, aiming at the best utilization of natural resources and minimizing occasional socioenvironmental impacts. Forest planning keeps track of forest ordering to ensure the industry supply.

The proper management of planted forests favors crop productivity and contributes to disease and pest control, biodiversity conservation, and protection of springs and ecosystem services - creating a virtuous cycle.

Operational Excellence

This area is responsible for the development and transference of mechanization and digitalization technology to forest processes.

It seeks the continuous improvement of forestry activities, harvest and logistics, with particular interest in routine management, quality and productivity of operations, as well as personnel qualification, thus promoting safety, product quality, high productivity, feasible costs for forestry activities and environmental conservation.



Seedling production

The plant nursery is where the eucalyptus seedlings are produced and managed through several stages until reaching the proper size to be planted in the field.

The seedling development time ranges from 90 to 120 days. To produce seedlings of outstanding quality, the distance between them needs to be increased when they reach 60 days so that they can grow healthier.

FBU ES receives approximately

28 MILLION

seedlings per year from an accredited nursery in the region

In 2020, FBU ES achieved

1,119 HA Implantation

24,046 HA Restoration

2,104 HA Regrowth

Totalling

27,269 HA

Planting

The main activities related to trees planting are: pre-planting mechanized chemical cleaning, mechanized soil tillage, mechanized fertilization, planting, mechanized and semi-mechanized irrigation, and replanting.

Planting can be carried out in reform areas (where an eucalyptus crop already exists), or in implantation areas (where there is no eucalyptus crop). Suzano only implants forest in areas not covered by native forests.

Soil is prepared using minimum tillage, which consists in preparing strips of soil in the planting line. About 70% of the land remains undisturbed, which favors the maintenance of soil characteristics, avoiding erosion and loss of organic matter.



Forest Maintenance

This stage consists in a set of activities carried out between planting and harvest (5 to 7 years) to ensure growth and productivity.

The main forest maintenance activities are: manual or mechanical mowing, chemical or mechanical weeding, fertilizing, control of leafcutter ants, prevention of forest fire and diseases and pest control.

Trucks equipped with telemetry

FBU ES uses precision technology to manage operations. Our fleet is equipped with telemetry to monitor operations, distribution and positioning of the trucks on the company's roads and farms, control of loading and unloading, and to support our partners in the management of operation safety, such as monitoring the drivers working hours and detecting occasional violations of speed limits.

With this system in place, Suzano strengthens the culture of daily routine management with partner companies in logistics operations, thus maximizing personnel safety standards, and operational efficiency based on reliable data.

The annual volume of timbers transported to the industry in 2021 was

6,781,494 M³



Harvest

As soon as the forest reaches its ideal point, timbers are harvested to supply the industrial plant. Harvest encompasses all the processes from tree harvest to the disposition of logs (cutting, forwarding, stacking and fueling), up to the point where they can be transported by trucks.

During harvest, eucalyptus trees are cut toward the center of the plot, avoiding any possible damage to the native vegetation.

Timber transportation

Forest Logistics main responsibility is to transport timbers from the forest areas to the Industrial Units. The harvested timbers are transported according to the Annual Transportation Planning. Once this process is defined, loading, routes and trucks distribution are determined considering the requirements defined on the area's operational procedures.

The routes for timber transportation are defined in agreement with Suzano's Sustainability sector in order to minimize the possible impacts of forestry activities on the neighboring communities.



Road Network - roadways

The road network in the forest area comprises municipal and state roads, arterial, collectors and firebreaks, whose maintenance is defined according to the company's internal criteria to secure forestry operations and avoid erosive processes in the conservation areas.

- Drainage structures, such as containment boxes, are built to store rain water and avoid erosion on the roads.
- Existing roads are repaired and new roads can be opened to improve operation quality and safety.
- Firebreaks are kept to secure the access of fire brigade teams.

Road moistening

To keep the road wet during certain earthworks, the company uses a tank truck. The goal is to reduce dust around houses and settlements caused by the traffic of trucks transporting timber to the company.

Road safety

Suzano respects and values its professionals.

Therefore, health and safety are the company's permanent commitment. Suzano maintains a set of rules that guides its employees and the carriers' employees into safer driving habits, protecting everyone's lives.

Forest Integrity

Prevention and forest fire combat receive great attention from Suzano's staff involved with forest productive processes.

The company provides frequent training to the Forest Fire Brigade teams, which monitor the company's premises and are capable of assisting firefighting in the surroundings.

Annually, we carry out Forest Protection work along with the competent authorities, aiming to reduce the Forest Fire incidents, as well as to other issues found within the premises.

To keep our forest plantation and environment conservation areas, we rely on the daily monitoring of the Property Surveillance Staff and cameras to indicate problems and fires.

The Forest Fire Brigade acting on the plantation and conservation areas consists of the property surveillance with the forest fire activities with the aim of working preventively, by monitoring the areas and an effective readiness to act upon call of forest fire.

Suzano invests in raising awareness, distributing information materials, such as educational folders, about the danger of forest fires.

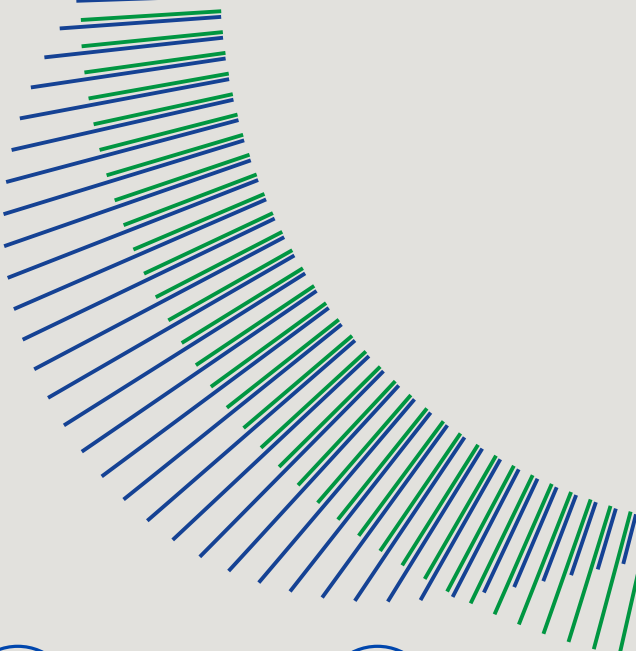
Among these works are the environmental monitoring, asset surveillance and educational actions to preserve the environment, in with schools and communities that surrounds our forests.



Live Forest Program

The Live Forest Program aims to raise awareness among the staff (own and third parties), partners and surrounding communities over the impact and danger of fire, what to do to prevent it and how to proceed when detecting an outbreak.

Besides, the program addresses other topics involving environmental education, such as illegal hunting and fishing, waste disposal and theft of wood, with channels for reporting incidents.



Safety and protection of Forest Areas

Suzano has an electronic forest fire monitoring system in Espírito Santo with monitoring towers with 360° view operated by 2 central stations. This system covers over 95% of the forest area, including crop and preservation areas.



Location of teams



Night incident detection



Daylight incident detection



Detection of pests and diseases



18 towers equipped with fixed and mobile cameras at FBU-ES



Tank-trucks



Brigade team



11

ENVIRONMENTAL MANAGEMENT

High Conservation Value Areas

The term High Conservation Value Areas (HCVA) was created along with the standards for the forest management certification and refers to areas with important features for the conservation of biodiversity and people's quality of life.

Examples are: native forests that house endemic (that can't be found anywhere else) or endangered animals and plants, and forests that provide essential resources for the local population.

Suzano uses this concept to guide its conservation efforts, evaluating the HCVA present in its areas according to the following attributes: biological, ecological, social or cultural values considered notably meaningful or of extreme importance at the national, regional or global levels. Those are the values that need protection.

In the first semester of 2021, the FBU adjusted the methodology for the evaluation of HCVA attributes 1 to 4 (environmental attributes) through a corporate technical task group for biodiversity using as reference the criteria adapted from the Guide for Good Practices to evaluate High Conservation Value developed by the ProForest Network.

This study identified 10 environmental HCVA at FBU-ES and maintained the social HCVA, totalling 6.4 thousand hectares. Three new HCVA were included in the scope: Bugio-Ruivo, Costa Azul and Piraquê-Azul, all of them in the municipality of Aracruz-ES.

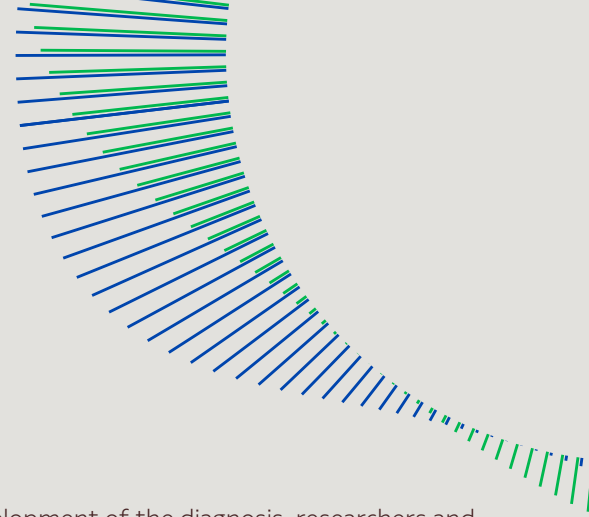
During this revision process, Suzano has consulted with stakeholders based on the criteria for the identification of HCVA aiming to validate the threats defined and the measures of protection, conservation and monitoring for the maintenance of the HCVA.

There are
**ENVIRONMENTAL
HCVA**

identified in Suzano's FBU ES Totaling 6.4 hectares, and

**4 SOCIAL
HCVA,**

with important value for the adjoining communities.

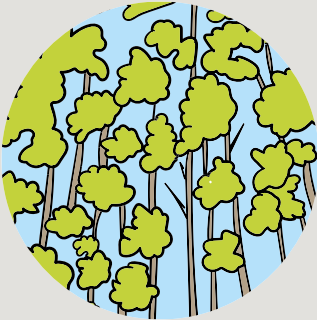


Consultation with stakeholders

Suzano consulted with stakeholders, in accordance to the criteria for HCVAs and SML (Special Meaning Localities), to develop management regimes for the maintenance of HCVAs and SML and assess their efficacy.

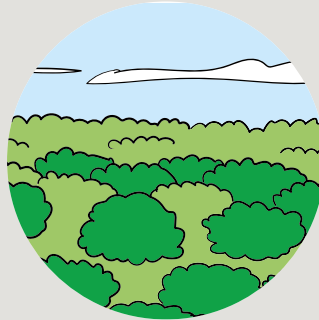
During the development of the diagnosis, researchers and specialists were consulted about the items in their areas of expertise in order to provide Suzano with the security to make decisions about the proper identification and management for HCVAs and SML.

The key to define a given area as HCV is identifying if it fits one or more attributes as described below:



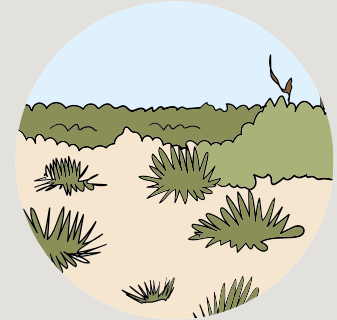
HCV 1

Areas containing significant amount of value for biodiversity.



HCV 2

Extensive and preserved areas of native vegetation, of global, national or regional relevance for biodiversity.



HCV 3

Areas that are inserted in or contain rare, threatened or endangered ecosystems.



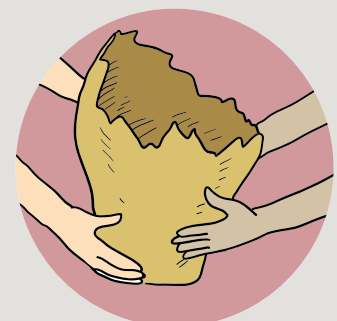
HCV 4

Areas capable of promoting environmental services in critical situations, such as the protection of water basins and erosion control.



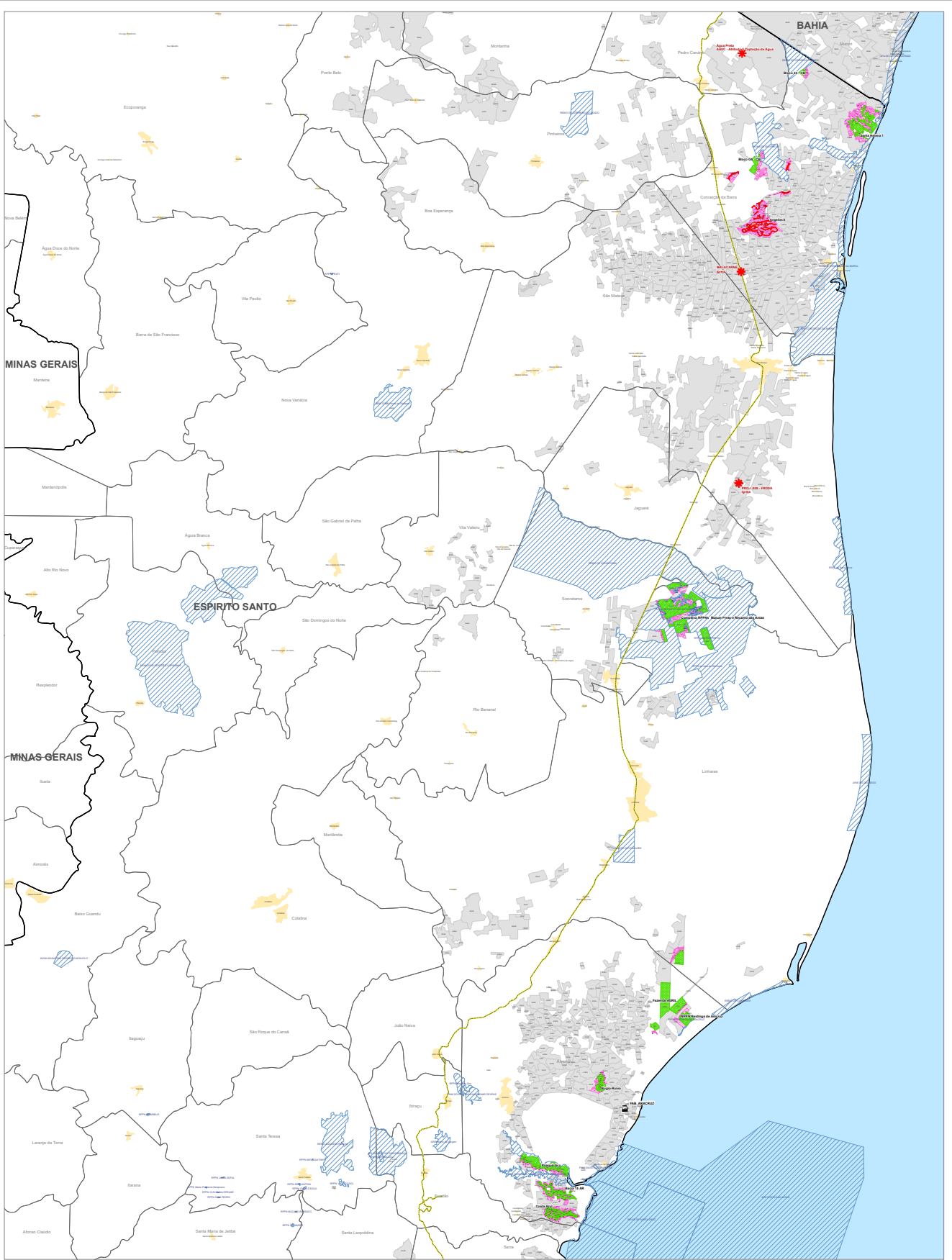
HCV 5

Important areas to meet the basic needs of communities, such as those related to health and subsistence.



HCV 6

Important areas for the traditional cultural identity of communities.



Captions

- BR-101 Highway
- Aracruz Plant

- Conservation units
- Municipalities
- Localities
- Farms

- CU in HCV borders







- Social HCV
- Environmental HCV
- Environmental HCV







MAPA DE AAVC SOCIAL
ESPIRITO SANTO - 2022

Data: 07/03/2022

Measures of protection and monitoring according to attributes of High Conservation Values

High Conservation Values	Charact. identified	Risks and threats	Impacts	Measures of protection	Monitoring
					
HCV 1	Endemic, rare, threatened or endangered species at the global, national or regional level	<ul style="list-style-type: none"> a. Illegal practices (wildfires, theft of wood and native flora, deforestation for alternative use of soil, mineral theft, predatory hunting and fishing 	<ul style="list-style-type: none"> a. Loss of biodiversity b. Reduction in native vegetation coverage c. Damage to individuals d. Imbalance of the ecosystem e. Reduction of the gene flow f. Disturbance of wildlife 	<ul style="list-style-type: none"> a. Program for environmental awareness among collaborators b. Emergence assistance c. Implementation of preventative measures and of firefighting d. Patrimonial surveillance; e. Periodic patrolling with a team specialized in identifying environmental events f. Registration of environmental events g. Environmental recommendation in operational book h. Planning for the promotion of ecological connections i. Placement of identification signs in loco j. Updating of the company's registration database (maps) with the location of HCVAs k. Prioritizing, whenever possible, ecological restoration l. Suzano's commitment with Zero deforestation policy 	<ul style="list-style-type: none"> Anthropic actions: Bimonthly Birds and mammals: triannual Flora: Every 4 years
HCV 2	Extensive area significantly at the global, national or regional level, containing viable populations of naturally occurring species	<ul style="list-style-type: none"> b. Operational damage to fauna and flora c. Non-authorized presence of domestic animals or ranching d. Dissemination of invasive species of plants and animals e. Illegal and inadequate disposal of residues 			<ul style="list-style-type: none"> Anthropic actions: Bimonthly Vegetation coverage with satellite imaging: Annual Birds and mammals: triannual (fast diagnostics) Flora: Every 4 years (fast diagnostics)
HCV 3	Ecosystems, habitats or refuges for rare, threatened or endangered biodiversity				<ul style="list-style-type: none"> Anthropic actions: Bimonthly Vegetation coverage with satellite imaging: Annual Birds and mammals: triannual (fast diagnostics) Flora: Every 4 years (fast diagnostics)
HCV 4	Areas capable of promoting environmental services in critical situations	<ul style="list-style-type: none"> a. Illegal practice (wildfire, deforestation for alternative use of soil, mineral theft, trespassing, among others) b. Operational damage to flora c. Non-authorized presence of domestic animals or ranching d. Illegal and inadequate disposal of residues e. Erosion and sedimentation 	<ul style="list-style-type: none"> a. Reduction in native vegetation coverage b. Loss of soil c. Soil compaction d. River silting e. Reduction in water availability f. Reduction in water quality 		<ul style="list-style-type: none"> Anthropic actions: Bimonthly Vegetation coverage with satellite imaging: Annual

High Conservation Values	Charact. identified	Risks and threats	Impacts	Measures of protection	Monitoring
					
HCV5	Essential areas and resources to meet the local communities, indigenous peoples or traditional peoples basic needs	<ul style="list-style-type: none"> a. Illegal practices (wildfires, native wood and plants theft, deforestation for alternative use of soil, mineral theft, trespassing, among others) b. Deforestation c. Operational damage d. Loss of access to cultural values and resources 	<ul style="list-style-type: none"> a. Loss of biodiversity; b. Scarcity of resources for extraction; c. Reduction in water availability. 	<ul style="list-style-type: none"> a. Patrimonial surveillance; b. Implementation of preventative measures (ex. maintenance of roads and firebreaks) and of firefighting. c. Environmental education actions d. Access granting guarantee e. Placement of signposts 	Anthropic actions and community opinion: Quarterly
HCV 6	Areas with special cultural, archaeological, or historical meaning at the global or national level and/or of critical importance for the traditional culture of local communities, indigenous peoples or traditional peoples.	<ul style="list-style-type: none"> a. Patrimonial damage and depreciation b. Operational damage c. Water availability d. Fire e. Loss of access to cultural values and resources 	<ul style="list-style-type: none"> a. Devaluation or loss of cultural identity; b. Deterioration of the cultural, historical or archaeological heritage; c. Disfigurement of places with cultural 	<ul style="list-style-type: none"> f. HCVA identification or SML g. Open dialog with the community h. Identification on the operation maps i. Maintenance of physical structures 	
SML (Special Meaning Location)	It is a natural or anthropic area or an area with infrastructure used by communities for cultural or religious events.				Anthropic actions and community opinion: Biannually



Biodiversity management

Suzano understands Biodiversity Monitoring as the follow up of development and changes in components and parameters of the landscapes and communities of fauna and flora, aiming to assess the effects of forest management on the environment.

Fauna

The reference data consist of information gathered in previous monitoring that complement the primary data gathered in the field in Suzano’s areas.

At FBU-ES, seven HVCAs and three eucalyptus crops are part of the biodiversity monitoring program. The monitored HVCAs are: RPPN Complex Mutum- Preto, Recanto das Antas, RPPN Restinga de Aracruz, Fazenda Agril, Panorama, Bloco G8, Santa Helena and Bloco 43CB. The monitored eucalyptus crops are located in Bloco 43CB, Dois Irmãos and Santa Joana/Viveiro I.

There was no monitoring of birds and mammals in HVCAs at FBU-ES in 2021 because the monitoring is carried out every 3 years and had already been done in the previous years.

Mammals of medium and large size sum up 66 species, of which 24 were identified in the last monitoring in 2020.

Species registered up to the last monitoring in 2020



571

Bird Species



64

Mammal Species



1.075

Plant Species



51

Amphibian Species



49

Reptile Species

Swallow tanager (*Tersina viridis*)



Green-backed trogon (*Trogon viridis*)



* History of biodiversity database reviewed and updated in 2020



Number of species identified in the last monitoring, in 2021

15 THREATENED SPECIES OF PLANT

Flora

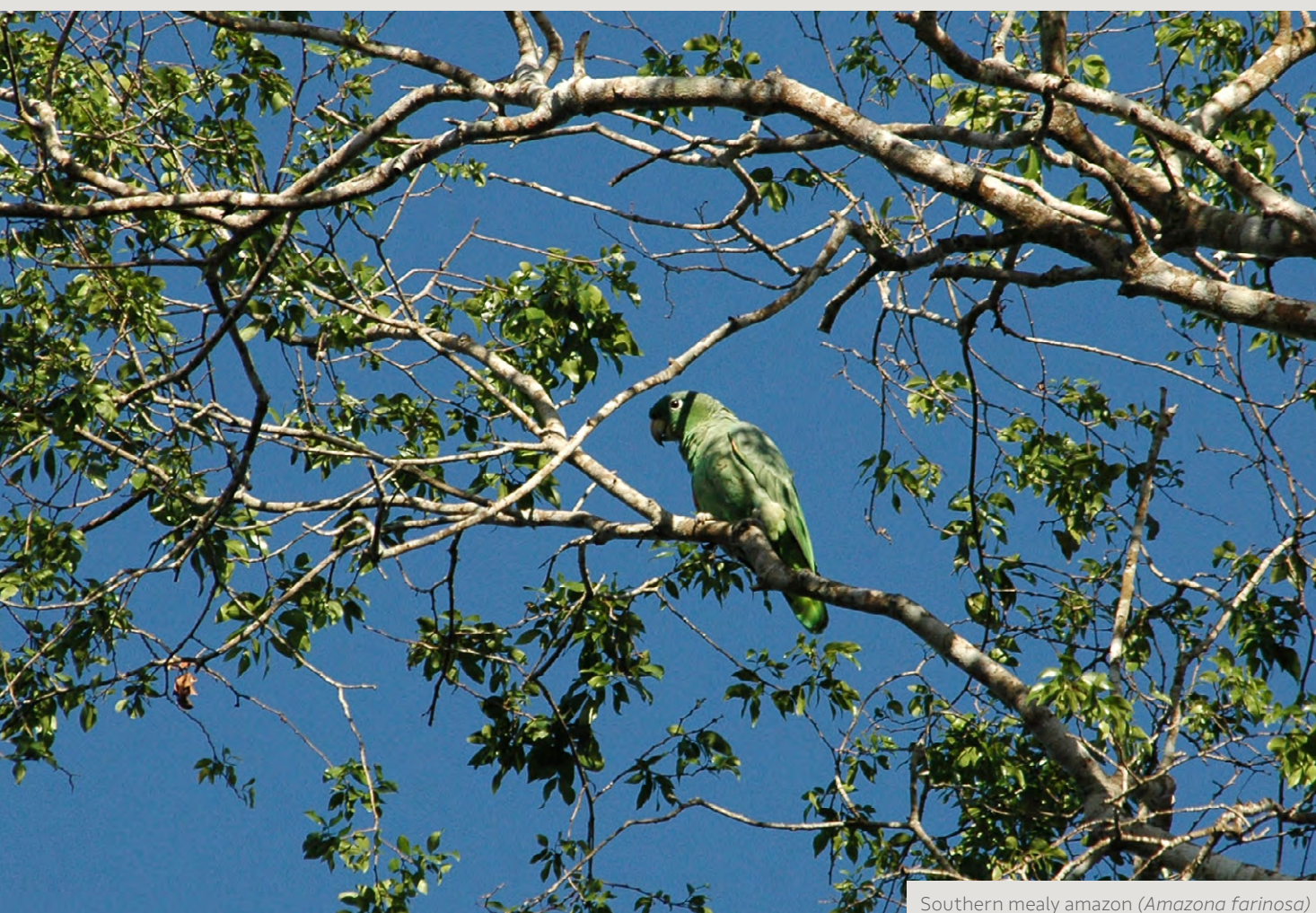
In the monitoring of flora, 1,075 species were recorded. The last monitoring, conducted in 2021, registered 139 species.

With the vegetation and fauna inventory in the company's area, it is possible to develop recommendations to keep and/or improve the conservation of species, such as environmental restoration of priority areas and protection against fire. Continuous monitoring generate knowledge based on the improvement of environment management techniques, contributing to the preservation of the local biodiversity.

The chart below shows the species according to the level of endangerment as per the IUCN's Red List of Threatened Species and the National List (IBAMA) identified in the 2021 monitoring.

ENDANGERED SPECIES IDENTIFIED IN THE MONITORING OF FLORA OF 2021 AT FBU ES

Group	Species	Popular name	IUCN Red List (2020)	National list MMA (2018)	State list IEMA-ES
Flora	<i>Chrysophyllum splendens</i>	Bapeba-pedrim	VU	-	-
	<i>Couepia belemii</i>	Milho-torrado	-	VU	EN
	<i>Homalolepis floribunda</i>		CR	-	-
	<i>Inga exfoliata</i>		EN	-	-
	<i>Joannesia princeps</i>	Boleira	VU	-	-
	<i>Melanoxylon brauna</i>	Braúna	-	VU	CR
	<i>Mezilaurus navalium</i>	Tapinhoã	VU	EN	-
	<i>Mimosa caesalpiniiifolia</i>	Sansão-do-campo	VU	-	-
	<i>Myrcia sucrei</i>		VU	-	EN
	<i>Naucleopsis oblongifolia</i>		VU	-	-
	<i>Pouteria bullata</i>	Capeba-preta	VU	EN	-
	<i>Pouteria butyrocarpa</i>		EN	CR	-
	<i>Rauvolfia capixabae</i>		EN	-	-
	<i>Sorocea guilleminiana</i>	Folha-de-serra	VU	-	-
	<i>Trichilia casaretti</i>	Pé-de-galinha	VU	-	-



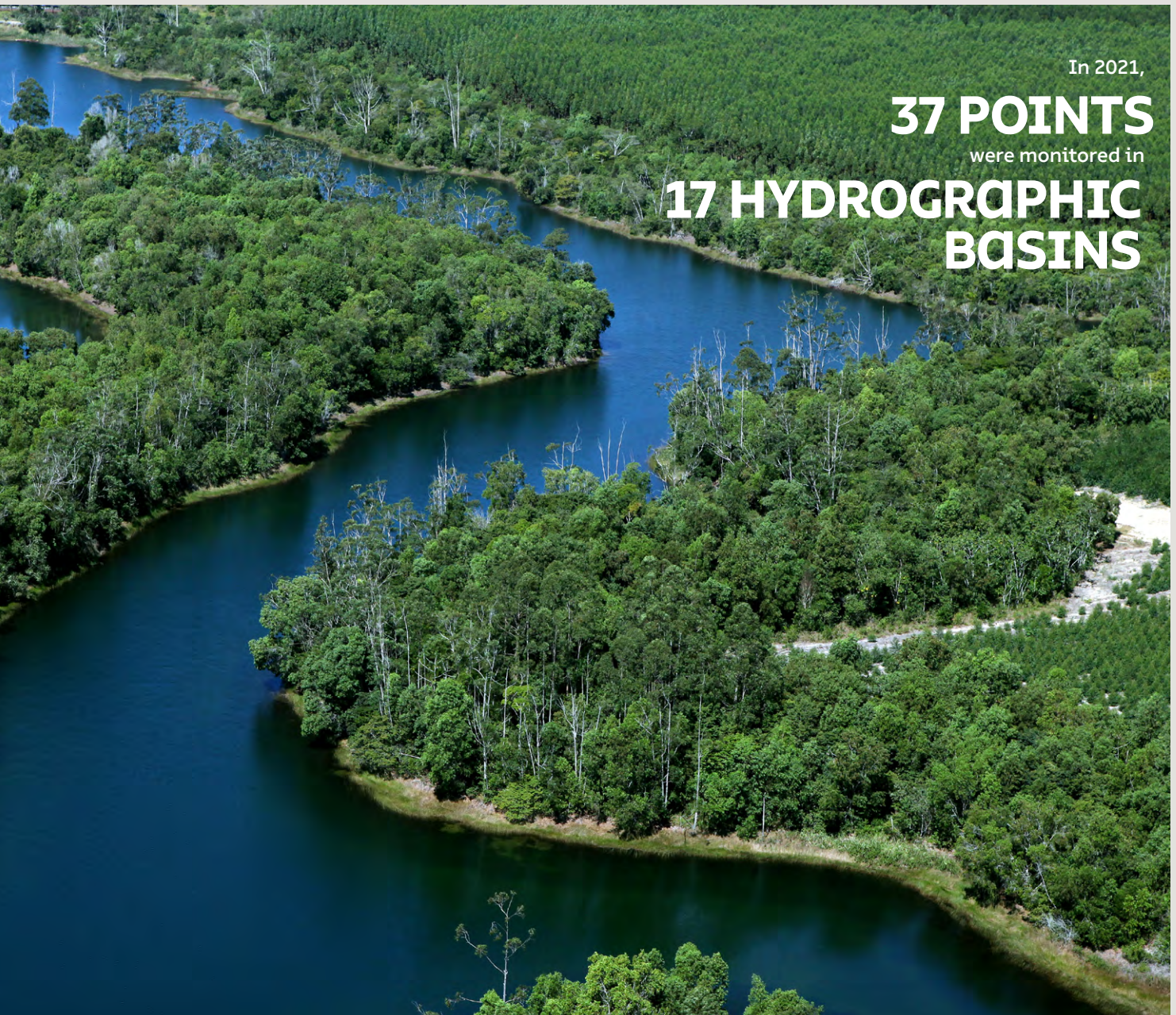
Southern mealy amazon (*Amazona farinosa*)

Monitoring of water resources

Suzano assesses the effects of its crops on the quality and quantity of water resources through a representative monitoring network according to the scale and intensity of plantings

One of the mechanisms applied for the maintenance of water resources is based on natural control developed across evolutionary processes of the landscape. One example is the well-known relationship between forest coverage and water resources, mainly on Permanent Preservation Areas, aiming to comply with the legislation and the conditionals of forest operation licenses.

The monitoring is a continuous process at the microbasins that represent the different regions of FBU-ES operation.



In 2021,
37 POINTS
were monitored in
**17 HYDROGRAPHIC
BASINS**

From the lab results it is possible to build an assessment of the monitored areas, in order to set a possible relation between the eucalyptus crops and the surface and underground water conditions located in its area of influence.

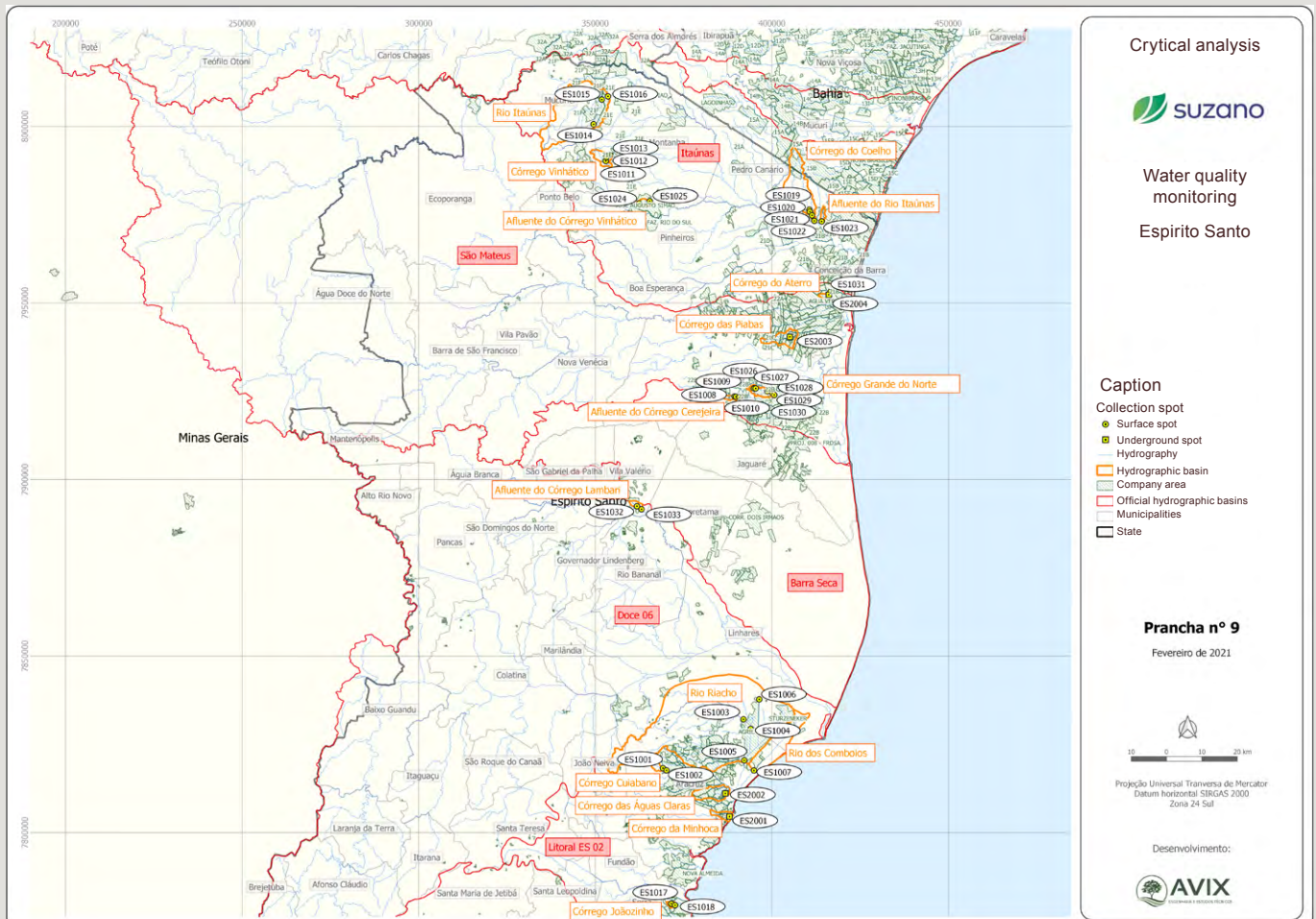
This program's execution consists of two monitoring campaigns. These campaigns gather quali-quantitative data from surface and underground water in areas near eucalyptus crops using in situ measurements of some parameters and collecting samples for lab analysis.

Studies on water quality and flow show no negative impact to the environment associated with the eucalyptus crops.

Below there's a map of the official water basins, sub-basins and monitored sampling spots in the state of Espírito Santo.



LOCATION OF MICROBASINS (ES) AND WATER QUALITY MONITORING SPOTS



Environmental aspects and impacts of the forest management

Suzano is committed to adopting the best environmental practices to innovate in promoting a sustainable development





Focusing on the sustainability of its processes, the company uses managerial instruments and tools that provide better environmental quality in its forestry activities. Managing environmental aspects and impacts, the FBU defines methodologies for the identification, assessment and control of environmental aspects and impacts (of its services, activities and products), seeking to minimize all possible adverse impacts and strengthen the beneficial ones.

Environmental aspects and impacts of forestry processes are identified and assessed considering the following social and environmental safeguards, among others:

- The new laws that apply to the business;
- Compliance with the current law;
- Identified regulatory marks;
- Obligations resulting from agreements and voluntary certifications;
- Change management for new products, services, activities and equipment.

Once identified the environmental aspects and impacts, mitigation, control and monitoring actions are established.

Examples of environmental aspects and impacts of forest management

Type of impact	Adverse	Adverse	Benefic	Benefic
Environmental aspect	 <p>Water consumption</p>	 <p>Risk of fire outbreak</p>	 <p>Carbon absorption</p>	 <p>Melhoria dos processos ecológicos</p>
Environmental impact	Scarcity of water resources.	Alteration in the physical quality of soil.	Reduction of greenhouse effect.	Biodiversity recovery.
Control measure	<ul style="list-style-type: none"> • Daily control of watersheds in operations • Training; • Request for new watersheds with environmental agencies 	Fire control systems and fire brigade teams.	<ul style="list-style-type: none"> CO₂ sequestration by forestry production and conservation areas. 	<ul style="list-style-type: none"> • Restoration of degraded areas; • Conservation of PPA and LR.

In 2010,
8.2K HA
 of restoration
 were implanted at Unit Aracruz

Ecological Restoration

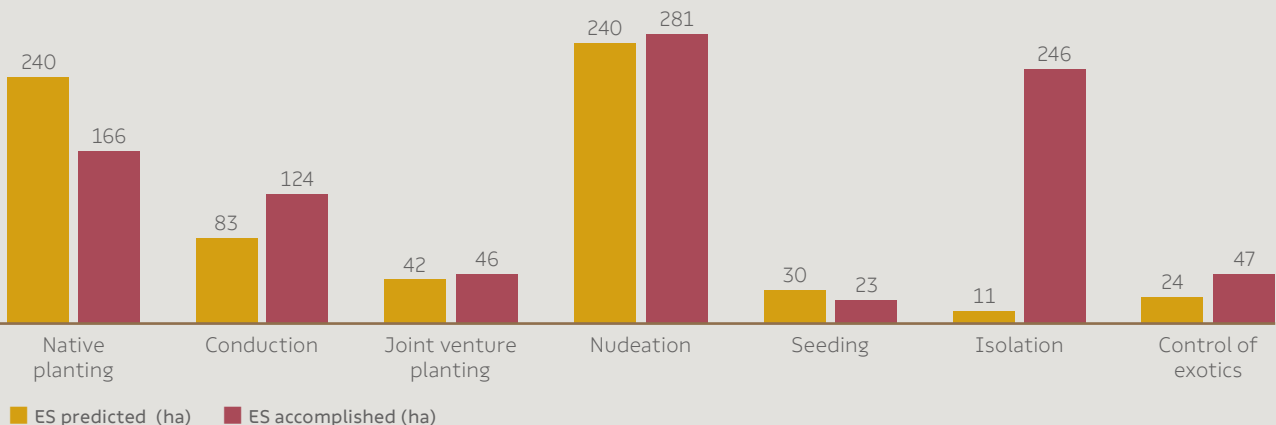
As part of its commitment with the environment, Suzano promotes restoration actions on its Permanent Preservation Areas, Legal Reserves and in all states where it operates. It is one of the largest Brazilian restoration programs, encompassing two biomes considered as hotspots of biodiversity - the Atlantic forest and Cerrado - and the transition area Cerrado - Amazon forest.

To emphasize this commitment, the company is a signatory of the Pact for the Restoration of the Atlantic forest, an initiative that aims to restore 15 million hectares in the country until 2050.

All implanted areas are monitored to evaluate the techniques adopted and indicate whether management is necessary, focusing on the ecological succession and resulting recovery. In Espírito Santo, 932.97 hectares were implanted in 2021, surpassing the goal of 699.31 hectares. In addition to the implantation activities, 3,075.04 hectares were maintained with activities that include ant control, mowing, and chemical weeding.

The Ecological Restoration Program contributes with an increase in biodiversity and the creation of several environmental services in its area of operation using the following restoration methods: planting of native species seedlings from the Atlantic forest, implementation of natural regeneration, invasive species control, and isolation of protected areas. The best technique is defined according to the environmental conditions of the area to be restored, as well as its potential for regeneration, history of land occupation and possible degradation factors.

GOAL AND AREA AFFECTED BY THE ECOLOGICAL RESTORATION PROGRAM IN THE STATE OF ESPÍRITO SANTO IN 2021 FOR EACH RESTORATION METHOD



Solid waste management

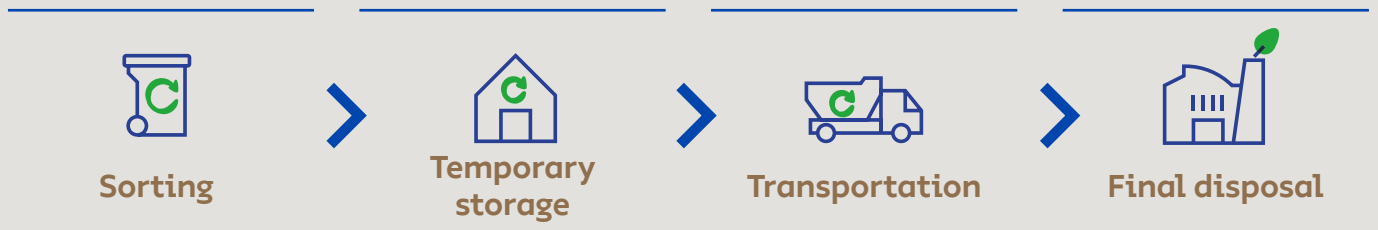
Suzano’s Solid Waste Management procedure adopts practices to classify, separate, store, collect, transport, and dispose of waste produced in forestry operations and activities, aiming to:

- Reduce waste production;
- Reuse residues, optimizing its use before disposal;
- Recycle residues;
- Adequately process waste;
- Ensure the proper disposal.

Waste management in the forest areas is performed according to the effective legislation. Waste is forwarded according to its classification to recipients that undergo a rigid process of evaluation and approval. Class I waste (Hazardous) might be sent for co-processing, recycling and licensed Class I landfills. Class II waste (non-Hazardous) are sent for recycling or licensed landfills, depending on its physical characteristics.

Packages of pesticides used in forestry operations are sent to licensed Empty Crop Protection Packages Receiving Units for reverse logistics.

Waste management steps



- Recycling
- Reuse
- Reverse logistics
- Co-processing
- Licensed landfill

Environmental training

The Environmental Training Program propagates information and environmental practices to raise awareness among its participants about sustainable attitudes and behavior that can transform the social and environmental reality.

Internal Environmental Training

Program that targets Suzano's employees and collaborators. In 2021, 52 hours of remote training were offered to the collaborators of units BA/MS/ES.



ACKNOWLEDGMENT OF AND RESPECT FOR PROFESSIONALS



12

ACKNOWLEDGMENT
OF AND RESPECT FOR
PROFESSIONALS

Safety, Health and Quality of Life

The valuation of, and respect for, our professionals are Suzano's commitment. Safety and health management is one of Suzano's priorities. The company encourages all individuals to take responsibility for safety and spares no resources to further reduce the rate of accidents.

The Occupational Health and Safety Management program provides guidance on the registration of events in and outside the company, providing the Safety Department with the elements required for the development of awareness campaigns that extrapolate the management boundaries and contributes significantly to the quality of life of employees, their families and the communities surrounding Suzano's areas of operation.

Checking and ensuring work safety and health conditions, as well as the use of safety devices, are also covered by the collective agreement signed with the employees' representative entities. All events related to the employees health and safety are registered and monitored based on a corporative standard for the communication of accidents, incidents and occupational disease.



The main programs developed by Suzano to ensure safety at work involve the preparation of documents that seek to identify the risks of accidents such as the Preliminary Risk Analysis (APR), Work Risk Observation (OPA), Safety in the Area, and work permits.

All activities are checked and monitored for belowstandard conditions and practices (Fique Alerta / DNA - "De Olho na Área") and approached by programs as the Program for Medical Control of Occupational

Health (PCMSO). The system is composed of different groups and committees that help monitoring and provide guidance on safety and health conditions. The initiatives aim to establish and maintain a responsible and transparent relationship with all employees in order to adopt the best existing practices in the industrial, forestry and administrative units. This process helps to build Suzano's reputation among its key relationship public and seeks to explore synergies and to better employ our professionals talents.



SAFETY PERFORMANCE OF FBU ES FOREST OPERATIONS

Safety indicators	2021
Accident frequency rate (own and outsourced)	1.89
Severity rate (own and outsourced)	846
Level of perception regarding knowledge of the Integrated Safety Management System	96%
Segurança na Área Program (dialogues about camp security)	97.58%

Workforce Qualification

The company contributes to the generation of local jobs by improving the economic activities in the region of operation.

Our collaborators and outsourced are offered personal and professional development opportunities. All collaborators take part in training activities that address not only technical aspects of the operation, but also subjects such as ethics and human rights. The welfare of every employee and level of satisfaction with the company are also closely monitored through organizational surveys.

The company conducts a structured process of integration of new employees and permanent outsourced that aims to facilitate their adaptation into the work environment, the organizational culture, concepts and drivers, environmental conservation, code of conduct, the management system and relationship with stakeholders.

Suzano has a benefits policy aligned to the good practices of the market and to its employees' expectancies. The benefits granted represent a significant value for the company and its employees, and are managed in order to ensure the best quality level and provide comfort and satisfaction.



JOB CREATION AT FBU ES

Own*	730
Outsourced*	3.639
Total	4.369

*Data: dec/2021



SOCIAL MANAGEMENT

13

SOCIAL MANAGEMENT

Suzano prioritizes clear and straightforward actions toward social and environmental investments.

With this end, the company considers a set of specific actions aimed at the different audiences influenced by its activities.

Management of relationship with stakeholders

Suzano’s relationship strategy is to ensure social and business legitimacy through the long-term strengthening of its interaction with neighboring communities and the integration of their interests into forestry business management.

Suzano’s relationship with the communities surrounding its operations follows the following approach:



1. PRIORIZATION MATRIX

Process of characterization of the area where Suzano is present to guide the activities with social impact to be adopted in each case. This study provides an assertive guidance for social investment and other actions for local engagement.



2. ENGAGING

Structured, inclusive and continued relationship, where the company plays the role of a partner to foster the local development. Takes place on the communities most impacted by Suzano’s operation.

In rural communities, engagement is promoted by programs for income generation such as the Rural and Territorial Development Program (PDRT), Invitation letters, craftsmanship production chain, fishery and circular economy.



3. OPERATIONAL DIALOG

It is a channel for direct communication through which the company informs the residents of neighboring communities about the forestry operations scheduled in that region according to an annual planning of activities, and discusses impacts and mitigation actions.

This process also integrates annual visits to ensure a continuous relationship with the neighboring communities.



Management of social impacts

Suzano understands “social impacts in the communities” as any changes (harmful or beneficial) caused entirely or partially by its forestry operations within a radius of three kilometers of its properties or areas leased for eucalyptus production.

The model of social impacts management seeks to eliminate, reduce or compensate the negative impacts through management practices, socioenvironmental investment, and continuous control and mitigation actions.

Despite all measures taken to prevent and mitigate adverse impacts, unpredictable losses and damages can still occur, directly affecting the communities resources or livelihood. In this case, these losses and damages are compensated and mitigated, in common agreement and according to the particularities of each case, in a fair and balanced way.

In the following, examples of adverse social impacts from forestry management and the corresponding mitigation and prevention measures are presented. For conflict resolution, disputes and compensations involving rights of use, possession and control of the land, the company has defined directives that prioritize a friendly and fair solution for the parts.



Analysis and monitoring of processes of relationship with stakeholders

All the demands concerning forestry operations, identified in the engagement processes, and operational dialogs are critically assessed and validated by the operational areas to review the social impact matrix and improve Suzano's forest management.

EFFECTIVENESS OF THE SOCIOENVIRONMENTAL IMPACTS MITIGATION ACTIONS

Area	Category	Name of monitoring	Results 2021
Social	Social impacts on the communities	Investment in the community (GRI EC1)	Amount of money invested in social projects/programs 7,778,387.41 communities/localities benefited by the projects of the unit
		Operational dialog and participative agenda	Rate of fulfillment of the annual dialog program Rate of satisfaction with the solutions for the incidents Rate of effectiveness of mitigation actions
		Complaints about damage caused by management	Number of incidents reported Average time to respond to complaints
			R\$ 7,778,387.41
			73
			100%
			90%
	90%		
		377	
		84 days	



Social Investment

Socioenvironmental investment is the voluntary transference of private resources in a planned, monitored and systematic way to social, environmental and cultural projects of public interest that contribute to the development of the communities where Suzano operates. Such investments are segmented into four types of interventions:

Cooperation

One-off support that require a counterpart from the applicant and is applied to community assets. Are necessarily related to the needs of forest and industry operations, expertise and products from Suzano's business..

Sponsorship

Granting of resources, whether financial, material and/ or services provided by Suzano to enable certain activity or event. It is considered a communication tool because the main expected results are: increase in notoriety and favorability of the sponsor's brand within its target audience or sponsored event; increase in the sponsor's exposure with the media; contact with stakeholders directly or indirectly connected to the sponsor's business.

Donation

Financial contribution or one-off spendings that meet the demands of institutions, bodies or individuals representing the community that are non-profit and do not require a counterpart.

Project

Are social investments planned and developed within the scope of a certain program, with well-defined purpose and duration (objectives, goals, deadlines, process indicators, results and impacts and responsibilities).



Project Robotics



Socioenvironmental programs and projects

The Social Programs and Projects take place mainly after the identification of the level of influence of the enterprise on the community, the socioeconomic aspects of each one (level of organization, vulnerability degree, etc.) and the partnership level (company and community). They arise also from the communication processes, in line with the social pillars of Suzano.

The extension in which such programs and projects are carried out, in the community, derive from the following factors:

- The communities and municipalities social and economic vulnerability;
- The influence of Suzano's forest management on the municipality and community areas;
- Relationship and social investment history in the communities and municipalities;
- Number of communities directly affected by Suzano's forest planting in the municipality;
- Communities interest and availability in taking part in the programs and projects;
- Public authority's interest and availability to co-participate or support such programs and projects;
- Budget availability.





MAIN RESULTS OF THE SOCIAL PROJECTS OF 2021

Project/Program	# of part.	# of Mun.	# of Assoc./ Entities	Results 2021
Rural and Territorial Development Program (PDRT)	665	4	34	PDRT allowed the generation of over 16.9 million reais in products and food traded or consumed, relative to a production of about 6.4 million kg.
Beehives Program	116	10	11	The program allowed the generation of over 6.3 million reais in products and food traded or consumed, relative to a production of about 511 tons of products from honeybees and melipona.
Recycling	62	4	5	Project created in 2021, with the aim of strengthening the recycling associations, providing an increment in the families' income.
Calls Regional and Quilombola	1,341	13	32	Aims to support projects that target income and jobs generation proposed by Organizations of the Civil Society (from Portuguese, OSC), Cooperatives, Individual Micro-entrepreneurs (MEI), local farmers and their families and quilombolas, located in areas where the company operates in the states of Bahia and Espírito Santo.
Agente do Bem	2,000	2	-	Creation of regional teams (collaborators and outsourced) to expand and implant the program in all units: focal points for the regional management of the program and dissemination of the cause; creation of the communication team (representatives of regionals and corporative) on the sexual violence against children and adolescents; expansion of campaigns for guidance and mobilization for the protection of children and adolescents' rights and in defense of women in all units; conduction of the fast local diagnostic of all municipalities.
Basket Delivery*	91*	4*	18*	The program has boosted the commercialization of over 60.5 tons of food items in 2021, in the state of Espírito Santo. With consumers adhering largely, it delivered 6,617 food baskets, generating more than R\$283 thousand in gross income in 2021, a result that has helped to reduce the economic impact of the pandemic on family agriculture in the region.
Sustainability program Tupiniquim and Guarani - PSTG	1,340	1	12	PSTG allowed the generation of over 3.3 million reais in products and food traded or consumed, relative to a production of about 1.4 million kg.
Cooperative São Domingos	44	1	1	In 2021, this program enabled job and income generation by supplying forestry services in quilombola communities.
Craftwork	92	2	4	<ul style="list-style-type: none"> In 2021, this program enabled job and income generation by supplying forestry services in quilombola communities. The Spirit of Water has boosted the craftsmanship in the coastal region of Aracruz-ES, seeking to provide qualification to the already talented local craftswomen. The artisanal production unites appreciation of the local culture, professionalization of the craftswomen and fosters environmental conservation.
				<ul style="list-style-type: none"> In Northern ES, the craftwork was important to bring new communities closer and improve Suzano's new strategies to promote income generation in a more diversified way. There are two associations working with the banana tree fiber: Community Santana (Conceição da Barra) with support for commercialization and Angelim III with support for the productive chain - including donation of seedlings to ensure supply of input, as well as diversification of income sources. When it comes to sewing, the women in Atelie da Vila de Itaunas are diversifying their products and expanding their sales, and Morro da Arara is growing in commercialization B2B. And, finally, a project targeting the mental health of women is incrementing the families income in Nossa Senhora da Penha with the production of accessories using beads.

*Amounts relative to Basket Delivery initiative are already integrated into PDRT and Colmeias results.

Calls

The Quilombola and Regional Calls were opened in 2021 focusing on partnership, aiming to build more resilient territories. In other words, socially and economically diverse territories, less vulnerable and more prepared to deal with changes, complexities, crises and multiple disturbances, avoiding disruption or collapse and preserving its base of resources, thus becoming more sustainable in the long term .

Quilombola Call

In partnership with the National Coordination for the Articulation of Black Rural Quilombola Communities (CONAQ, in Portuguese), Suzano provided financial resources and personnel for income generation projects. The aim is to support projects proposed by Organizations of the Civil Society (from Portuguese, OSC), Cooperatives, Individual Micro-entrepreneurs (MEI), local farmers and their families and quilombolas, located in areas where the company operates in the states of Bahia and Espírito Santo.



Association of small rural producers and quilombola of the community Divino Espírito Santo.

Regional Call

Provides financial resources and personnel with the aim of supporting projects proposed by Organizations of the Civil Society and Cooperatives in the areas where the company operates in the states of Bahia, Espírito Santo and Minas Gerais.

In 2021, the program benefited 1,341 people directly and indirectly in the municipalities of Aracruz, Cachoeiro de Itapemirim, Conceição da Barra, Ibiraçu, Jaguaré, Montanha, Pedro Canário, São Mateus, Sooretama and Vila Valério in the state of Espírito Santo.

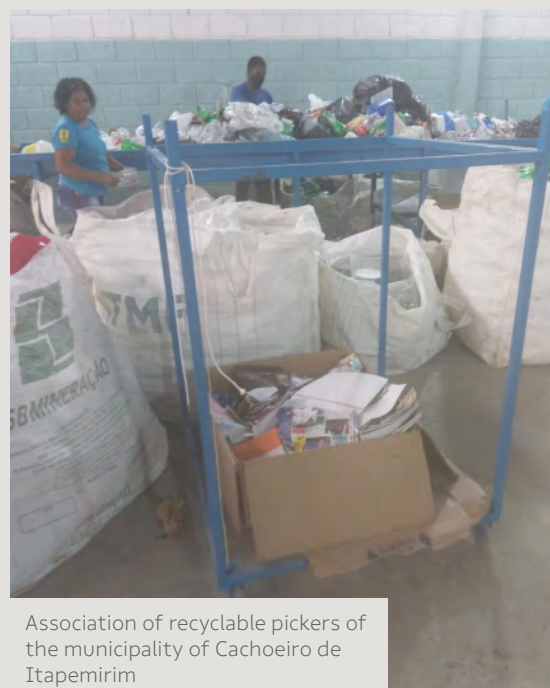
Association of recyclable pickers of the municipality of Cachoeiro de Itapemirim



State	Municipality	Locality	Call	Association/Project	
Espírito Santo	Aracruz	Aldeia Caieiras Velha		Tupiniquim Indigenous Association of Caieiras Velha	
		HQ		Association of Algae producers of Aracruz Coast	
	Cachoeiro de Itapemirim	HQ		Regional Call	Association of recyclable pickers of the municipality of Cachoeiro de Itapemirim
					Settlement Paulo Vinhas
		Córrego do Alexandre	Quilombola Call	Association of quilombolas rural producers, family agriculture and fishery of the community Córrego do Alexandre – Sapê do Norte	
		Córrego do Alexandre		Association of quilombolas rural producers, family agriculture and fishery of the community Córrego do Alexandre – Sapê do Norte	
		Angelim I		Association of small farmers of Angelim I	
		Córrego do Sertão		Association of family farmers of Córrego do Sertão	
	Coxi			Regional Call	Quilombola association of small rural producers of Coxi
					Córrego do Macuco
	Conceição da Barra	Linhação			Association of Quilombola women of Linhação
					Association of the Quilombola community of Linhação
		Angelim I	Quilombola Call	2 Individual Micro Entrepreneurs	
		Angelim II		2 Individual Micro Entrepreneurs	
Angelim III		1 Individual Micro Entrepreneur			
Braço do Rio		1 Individual Micro Entrepreneur			
Córrego do Alexandre		2 Individual Micro Entrepreneurs			
Coxi		1 Individual Micro Entrepreneur			
Linhação	2 Individual Micro Entrepreneurs				
Morro da Onça	2 Individual Micro Entrepreneurs				



Association of Algae producers of Aracruz Coast



Association of recyclable pickers of the municipality of Cachoeiro de Itapemirim

State	Municipality	Locality	Call	Association/Project
Espírito Santo	São Domingos	São Domingos	Quilombola Call	4 Individual Micro Entrepreneurs
	Ibiraçu	HQ	Regional Call	Association of honeybee keepers of the Ibiraçu
	Jaguaré	Palmito	Quilombola Call	Association of Quilombola remaining families of Palmito
	Montanha	Santa Luzia	Quilombola Call	2 Individual Micro Entrepreneurs
	Pedro Canário	HQ	Regional Call	Association of recyclable pickers of Pedro Canário
	São Mateus	HQ	Regional Call	Association of parents and friends of exceptional children - APAE São Mateus
			Regional Call	Social Center Reconstruir a Vida of the municipality of São Mateus
		Settlement Zumbi dos Palmares	Regional Call	Association of small farmers of Zumbi dos Palmares settlement
		Morro da Arara	Quilombola Call	Association of small rural producers and Quilombolas of the community Morro da Arara municipality São Mateus
		São Jorge	Quilombola Call	Association of small producers and rural producers and quilombola descendants of Sapê do Norte and the community São Jorge of the municipality of São Mateus/ES
		Nossa Senhora da Penha	Quilombola Call	Association of small rural producers descendants of Quilombola of the community Nossa Senhora da Penha
		Divino Espírito Santo	Quilombola Call	Association of small rural producers and Quilombolas of the community Divino Espírito Santo.
		São Domingos	Regional Call	Association of small rural producers and Quilombolas of Córregos São Domingos and Cacimba and surroundings of the municipality São Mateus (ES)
		Dilô Barbosa	Regional Call	Association of Quilombola producers of the community Dilô Barbosa
		Bom Pastor	Quilombola Call	2 Individual Micro Entrepreneurs
		Dilô Barbosa	Quilombola Call	1 Individual Micro Entrepreneur
		Divino Espírito Santo	Quilombola Call	3 Individual Micro Entrepreneurs
		São Domingos de Itauninhas	Quilombola Call	2 Individual Micro Entrepreneurs
		Sooretama	HQ	Regional Call
	Vila Valério	HQ	Regional Call	Association of parents and friends of the exceptional children - APAE Vila Valerio

Performance and main indicators of forest management

Aspect	Process Resp.	Monitoring	Indicators	Un.	Goal 2021	Actual 2021	Critical analysis	Actions	Systems/ Databank	Frequency
Economic	Harvest	Productivity of Forwarding	Productivity of FW	M ³ /h	Forwarder: 61,15 Skidder: 76,46	Forwarder: 56,65 Skidder: 80,54	Productivity below expected in forwarding due to areas with two or three different products. Productivity of Skidder above planned.	Assigning projects to increase Forwarder productivity.	SAP, OneDrive and Power BI	Daily
	Harvest	Productivity of Harvest	Productivity of harvesters	M ³ /h	Harvester: 18.60 Feller Buncher: 79.41 Grapple saw: 87.61	Harvester: 18.19 Feller Buncher: 78.58 Grapple saw: 73.74	Productivity below expected for the three machines.	Assigning projects to increase feller productivity.	SAP, OneDrive and Power BI	Daily
	Social Dev.	Dialog Operational and Relationship Maintenance	Participants from the involved communities - Operational dialog	#	N/A	574	In 2021, due to the pandemic, most of the Operational Dialogs took place via phone calls, returning gradually to in-person dialogs.	Mapping neighbors impacted by forestry operations and apply the operational dialog, according to the schedule of correlated areas.	SISPART and Portal of socioenv. management	Monthly SISPART) Biannual/ Annual
Social	People and Manag.	Workforce	Hiring of local workforce	%	N/A	64%	Local workforce usage is good, with operational and administrative job openings filled with local candidates. In 2021, there were 155 admissions in the Forest Area of ES.	To publicize the job openings, in addition to the Kenoby System (career platform), other means of communication are being used, such as partnership with Senai and Sine in the region and the Agrobases website (digital agency focused on agrobusiness and related areas).	Power BI Sytsem	On demand
	Asset intelligence	Resíduos Florestais	Donation of tips and branches	R\$	N/A	R\$ 4.3 M (estimated raised value)	Donation of tips and branches has been deemed an excellent proposal for income generation within local communities and commerce and add value to the families that depend on this resource as the sole source of income and subsistence.	Maintenance of donations of tips and branches to the communities.	Data base IP	Monthly

*N/A = Not applicable

Aspect	Process Resp.	Monitoring	Indicators	Un.	Goal 2021	Actual 2021	Critical analysis	Actions	Systems/ Databank	Frequency
Environmental	Asset intelligence	Fire	Fire - planting	Ha	Burning of 2 hectares per fire spot.	Burning of 2.7 hectares per fire spot.	High temperatures and long drought periods. In 2021, rainfalls occurred in the months of November and December. In addition to that, there are fires considered accidental, that begin at the edge of the roads, in private areas, are initiated by electric malfunction, or natural phenomena, or even by criminal action, that affect the company's areas. These factors, added to the high temperatures, contribute to an increase in fire events.	<ul style="list-style-type: none"> Investments in technology and innovation for the firefighting structures and monitoring systems Focusing on the modernization and replacement of vehicles and equipment. More engagement with social programs and educational activities Training and activities for the enhancement of firefighting techniques. Implantation of extra teams for surveillance and firefighting in critical periods. Aerial support for firefighting (helicopter hired) in critical periods. 	Data base IP and Zenith	Daily
		Fire	Fire preservation	Ha	N/A	Burning of 1.2 hectares per fire spot.				
Economic	Logistics	Distance	Average radius	Km	223.91	225.84	Result is in line with the plan, showing assertiveness of the Transportation Plan. A synergy work was carried out between sites and reduction of transportation routes.	Route optimization.	Excel, SAP, Forestry registry and GIS Online	Every 4 hours
Environmental	Environment	Environmental Education Program	People impacted in the Environmental Education Program (external)	#	N/A	0	The year 2021 was marked by the COVID-19 pandemic. Because of that, we did not offer in-person trainings or programs with the participation of external audience in ES.	Trainings applied Trainings applied according to procedures. Reassessment due to COVID-19.	MAF reports	Monthly
	Environment	Environmental Education Program	Number of hours logged in the Environmental Education Program (internal)	Hours	20.91	52.52	This result considers Units ES and BA/MG The year 2021 was marked by the COVID-19 pandemic. Because of that, we did not offer in-person trainings, only remote.	Trainings applied according to procedures. Reassessment due to COVID-19.	Training matrix BAMGES	Monthly
	Forestry	Forestry control	Ant bait consumption	Kg/ha	3.60	3.44	Low consumption due to monitoring and recommendations by UP according to ant infestation.	Keeping the monitoring strategy and tracking consumption.	Technical bill; Forestry activities consolidated	Monthly

Aspect	Process Resp.	Monitoring	Indicators	Un.	Goal 2021	Actual 2021	Critical analysis	Actions	Systems/ Databank	Frequency
Environmental	Forestry	Forestry control	Consumption of weed killer (glyphosate)	Kg/ha	1.86	1.84	Low consumption due to monitoring and recommendations by UP according to ant infestation.	Keeping the monitoring strategy and tracking consumption.	Technical bill; Forestry activities consolidated	Monthly
	SSQV	SSOMAR	Score obtained with SSOMAR	%	90	Result registered individually by a outsourced company.	SSOMAR assessment aims to assess the company's compliance with legal requirements and is done individually with each of the outsourced companies; the expected score is at least 90% of assessed items. When the score is not reached, a plan of actions is defined with deadlines and responsible parts.	<ul style="list-style-type: none"> Creation of and compliance with the SSOMAR timetable. When new companies enter Suzano's operational process, analyze legal items in advance (pre-SSOMAR). 	SSQV Portal / Excel spreadsheet of IGS / SSOMAR form	Biannually
Social	SSQV	DNA	Termination of deviations on DNA	%	80	87	In 2021, we observed a very positive adherence of operational teams, where facilitators had a very important role in the management of registration, which led to a rate of 87% of DNA registrations attended at FBU ES throughout the year.	<ul style="list-style-type: none"> Definition of facilitators for the management of DNA registration within the SDWeb System. Presentation of indicators results relative to DNA in operational meetings and safety committees. Organization of DS with operational 	SDWeb / SSQV Portal / Excel spreadsheet of IGS / Power BI	Monthly
	SSQV	OPA	Score obtained with OPA (Positive Observation of the Activity)	%	85	93.17	Assessments are carried on a monthly basis, with the possibility of an assessment by the safety technician in the following months in the same company or area of work. During 2021, we observed better adherence of operational teams to the management tool (OPA), which contributed directly to the safety management of operational teams.	<ul style="list-style-type: none"> Implementation of the original OPA (Positive Observation of Activity) form. Definition of an OPA delivery matrix by the leadership. 	SDWeb / SSQV Portal / Excel spreadsheet of IGS / Power BI	Monthly

A photograph of an elderly woman with grey hair tied back, wearing glasses and a dark purple t-shirt. She is leaning over a table in a greenhouse, working with green leafy plants. The background is a translucent greenhouse covering. The text "COMMUNICATION WITH STAKEHOLDERS" is overlaid in white at the bottom of the image.

COMMUNICATION WITH
STAKEHOLDERS

Suzano is constantly in contact with its employees and with the several segments of society, keeping them up to date on its activities, and always keeping things clear, transparent and straightforward.

Among the most commonly used communication media are:

Internal Audience

Corporate social media, Intranet, Printed and Digital newsletters, walls, Forest Podcast, Corporate TV, Manuals and Educational guides.

External Audience

Press Relations, Website, Social media, Visitation programs, Annual reports, Management plan summary. In addition to those, the company maintains other communication channels, as described below.





Communication with specific audiences

Suzano Answers

0800 022 1727, (11) 3956-3959 or suzanoresponde@suzano.com.br

If you have any questions, suggestions for improvement, or complaints, please contact us. It is toll-free!

Social media

-  Facebook
www.facebook.com/suzanoempresa/
-  Instagram
www.instagram.com/suzano_oficial/
-  Youtube
www.youtube.com/user/Suzanovideos
-  LinkedIn
www.linkedin.com/company/suzano/

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