

CEPAN

CENTRO DE PESQUISAS
AMBIENTAIS DO NORDESTE

Annual technical report

2019 - 2020

ABOUT CEPAN



CEPAN is a Brazilian private non-profit institution founded in 2000 by professors-researchers and postgraduate students of the Federal University of Pernambuco - UFPE, whose **mission is to generate and disseminate strategic solutions for the conservation of biodiversity through science, human resources training and dialogue with society.**

Our institution is based in the city of Recife, Pernambuco state (Northeastern Region), with a branch in the state of Minas Gerais (Southeastern Region); developing projects throughout all the Brazilian territory.



ABOUT CEPAN



STRATEGIC VISION



To be a reference organization in the generation of knowledge-based on solid science, support to professional training and the foment of public policies, showing effective results in biodiversity conservation.

A WORD FROM THE DIRECTOR



Severino Ribeiro, PhD.
President Director of
CEPAN

"After leading CEPAN for over ten years now, I am pleased to say that 2019 was a dream of a year for our institution. From the dedication of our hardworking and talented team, we managed to scale up the scope and reach of our projects, ranging from Northeast to Southeast of Brazil and currently corresponding to over 500 hectares of areas in restoration process, developing partnerships with national and international institutions and contributing to positive outcomes for the Brazilian ecosystems and society. We started 2020 with a strong sense of gratitude for the trust in CEPAN's mission and wishing to keep collaborating for thriving relationships between people and nature".



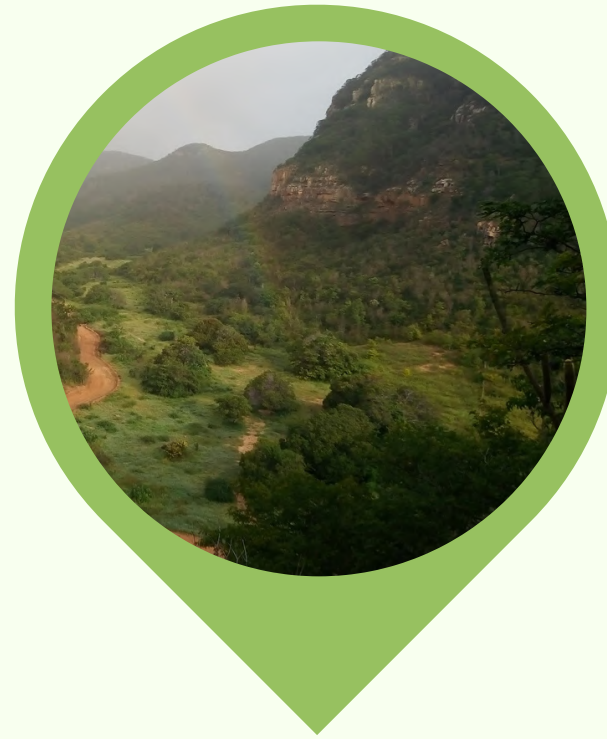
ACTUATION AREA



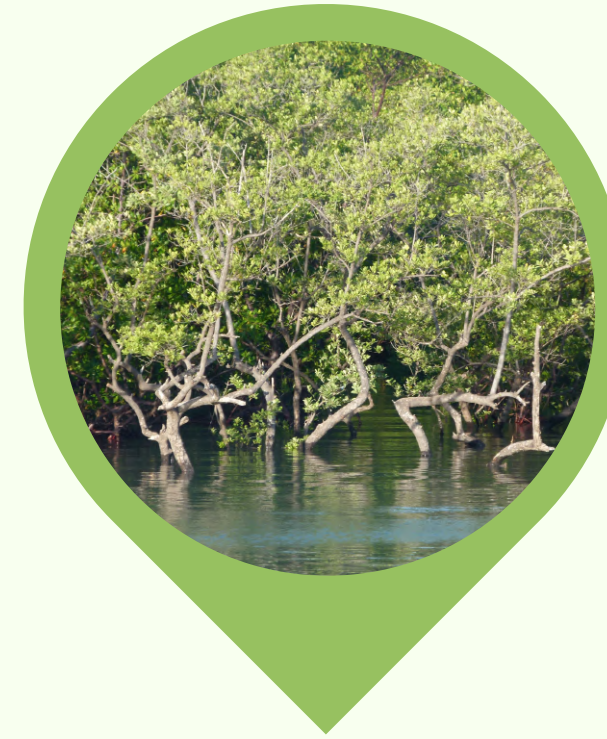
Cepan operates on planning, coordinating and executing projects of biodiversity conservation.



Atlantic Forest



Caatinga



Marine Coastal Areas



Urban Areas



3 awards won



9 books published
3 books supported
2 books in press



24 projects supported



€ 3,3 million invested in conservation

CEPAN

20 YEARS OF HISTORY



14 institutional partners
3 participations in networks



+40 seminars and courses taught



+1000 thousand people trained



+50 projects executed

PROGRAMS

CEPAN OPERATES IN FOUR STRATEGIC FIELDS FOR BIODIVERSITY CONSERVATION:



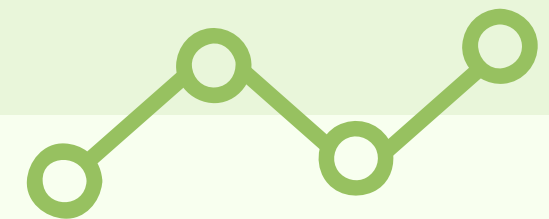
Valuation of
Natural Capital



Flora and Fauna
Conservation



Inducing and
implementation of
Environmental
Public Policies



Support for
Scientific
Research



IN 2019, CEPAN HAS



Implemented, supported and monitored over 500 hectares in restoration process in Brazil



Provided technical assistance for sowing 184,800 trees through direct sowing



Supported the planting of 388,991 seedlings



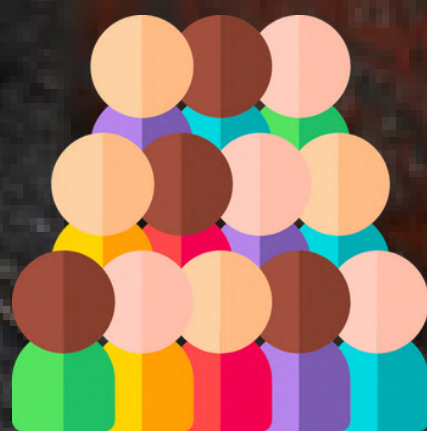
IN 2019, CEPAN HAS



Supported over 70 jobs generated through Forest Restoration Activities



Engaged 80+ social actors among seed collectors, planners and companies in direct sowing



Mobilized 50+ community members in seed and seedling networks including traditional populations, indigenous communities and slave descendants.

IN 2019, CEPAN HAS



Trained 50 Volunteer Environmental Agents to work on Forest Restoration and 30 people on Green Infrastructure implementation



Promoted educational projects to raise awareness about climate change and the importance of ecosystem recovery



Supported the creation of a trinational restoration network (Argentina, Brazil and Paraguay) for the Atlantic Forest



2020 IN A NUTSHELL



100 hectares of Caatinga (dry forest) to be implemented



10 technical trainings to be conducted



130,000 trees to be planted in the Atlantic Forest (rainforest) in the Northeast and Southeast of Brazil



Two academic books to be published and three institutional papers in the first semester



Already supported the planting of 401,294 seedlings by 4 institutions in the Atlantic Forest, and 200,000 more forecasted until December



Provide technical support and studies for implementation of restoration activities within the Northeastern states

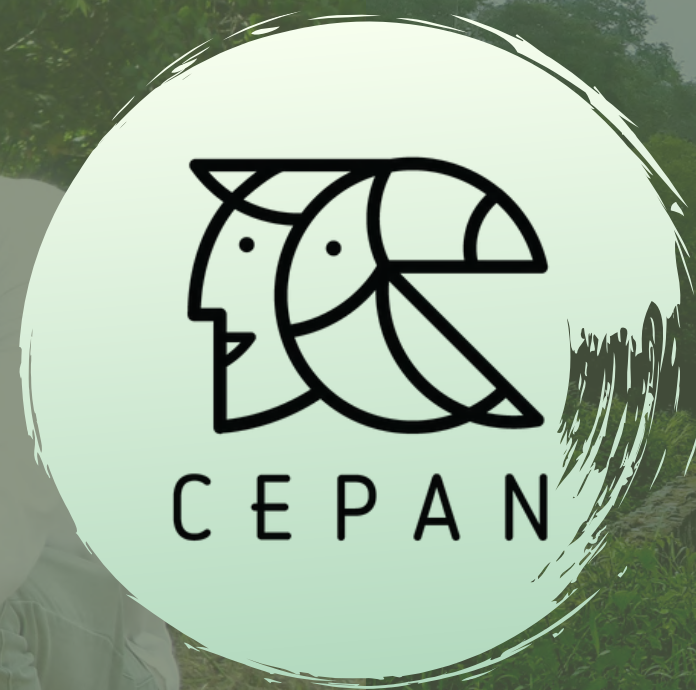
GEOGRAPHIC RANGE

Our **12 main projects** developed in 2019-2020 reached **15 states**, from the Northeast to the South of Brazil, mobilizing Argentine and Paraguayan stakeholders as well.



MAIN INSTITUTIONAL PROJECTS

2019 - 2020



Important Note: The costs of the projects presented in this report were converted from BRL/EUR to USD according to the exchange rate for the first half of April/2020, and may not reflect the actual conversion rate dating from the time of contracts agreements, donations received and partnerships defined.

ENVIRONMENTAL EDUCATION AND RESTORATION OF RIPARIAN FOREST TRAINING IN THE ENVIRONMENTAL PROTECTION AREA (APA) ALDEIA-BEBERIBE - PE

2017 - 2019

General Description

To train popular agents in environmental education, involving the various representative sectors of the Environmental Protection Area (APA) Aldeia-Beberibe community from the perspective of expanding knowledge, awareness and action to build new ways of relating to nature and solutions to environmental issues, focusing on forest restoration and its production chain.

Partner



Total Funding

\$ 75839.88



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ATLANTIC FOREST RESTORATION PROJECTS SCALING-UP CAMPAIGN

2017 - Today

General Description

Contributing to the forest restoration productive chain in the Atlantic Forest by supporting the planting of 3,200,000 (three million two hundred thousand) seedlings through executive projects with potential to scaling up restoration, and including people within potential socioeconomic opportunities. Over fifteen PACTO member institutions were already benefited from the following states: PB, PE, MG, SP, RJ, PR and SC and over 2,890,285 were already implemented.

Partners



Total Funding

\$ 546666.49

RENORDESTANDO CAMPAIGN

2018 - Today

General Description

Conceived and executed by CEPAN, the Campaign aims to raise funds from individuals and companies and to plant 200,000 native species seedlings in the Mata Atlântica and Caatinga biomes in the Northeast region of Brazil, moving the forest restoration chain forwards, engaging people and communities and contributing to the recovery of the native ecosystems, which are highly threatened due to deforestation, human disturbances, unsustainable practices and land conversion. The campaign has already supported planting 1500 seedlings on the ground. With a small donation per tree, it is possible to make a huge difference to our native ecosystems.



Total Target

\$ 381381.00





ELABORATION OF STUDIES TO SUBSIDIZE THE CREATION OF A PRIVATE NATURAL HERITAGE RESERVE (RPPN), IN BELO JARDIM - PE, IN A HUMID MONTANE ATLANTIC FOREST AREA

2018 - 2019

General Description

Elaboration of studies to support the decision to create and implement a Private Natural Heritage Reserve (RPPN), a type of conservation unit (Protected Area) on the property of Taboquinha Farm (349 ha) which is located in an area of ecological tension, characterized by a transition between Caatinga and Atlantic Forest vegetations, in Belo Jardim, Pernambuco (Northeast of Brazil). The studies have included the identification of the potential use of the area and an economic feasibility study.

Partner



Cost

\$ 2669.67

APPLICATION OF THE FOREST RESTORATION OPPORTUNITY ASSESSMENT METHODOLOGY (ROAM) IN THE CAATINGA BIOME

2018 - 2019

General Description

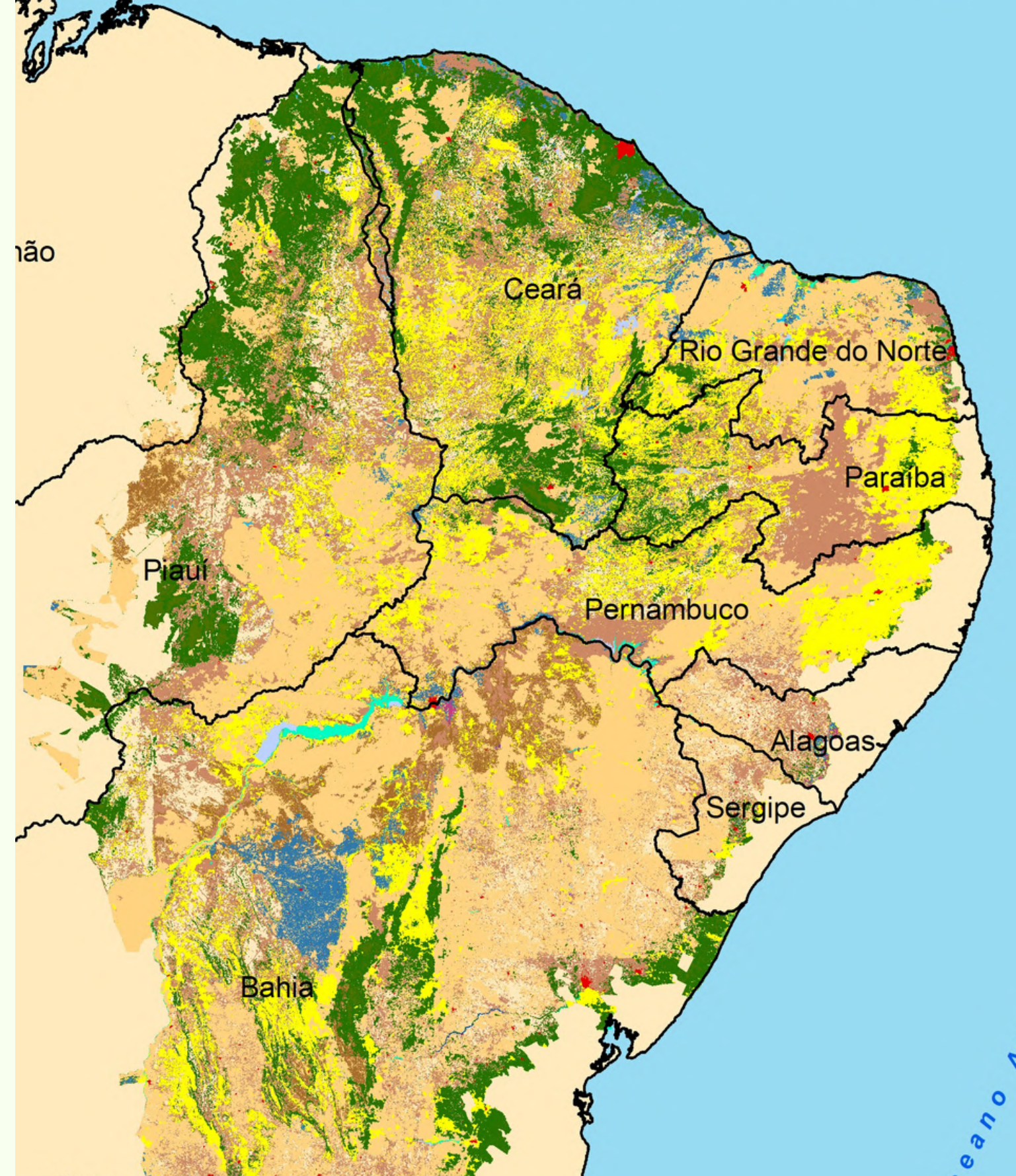
Application of the Forest Restoration Opportunity Assessment Methodology (ROAM) in the Caatinga biome as a strategic component of the NEXUS project "The role of ecological restoration in Caatinga sustainability". This project included assessing key areas for enhancing water, food and energy security through restoration activities, generating data for subsidizing future landscape planning, in this Brazilian unique Biome.

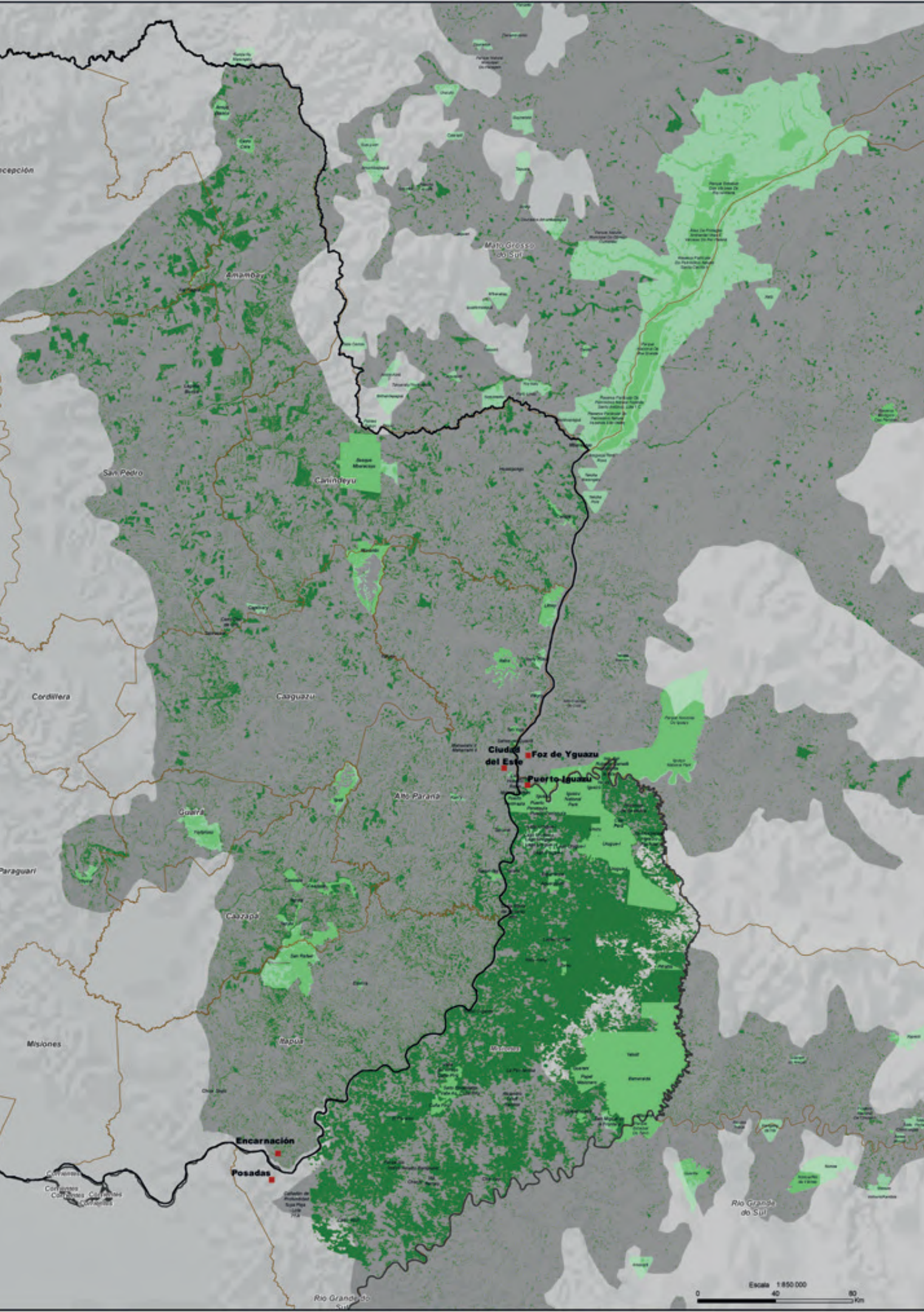
Partners



Total Funding

\$ 14977.51





TRINATIONAL NETWORK FOR RESTORATION OF THE UPPER PARANÁ ATLANTIC FOREST - BRAZIL, PARAGUAY AND ARGENTINA

2018 - 2019

General Description

Support the development and consolidation of a trinational (Brazil - Paraguay - Argentina) multisectoral network for the restoration of the Atlantic Forest of Upper Paraná, mobilizing local stakeholders from the three countries, developing studies on the territory, organizing local workshops for stimulating engagement and strengthening the Atlantic Forest Restoration Pact.

Partners



Total Funding

\$ 15262.52



EARTHAID: INSTITUTIONAL SUPPORT TO NATIVE SEEDLING PLANTING IN THE NORTHEAST OF BRAZIL

2019 - Today

General Description

Plant native seedlings for forest restoration in the Northeast region of Brazil, with the support of the international partner EarthAid Solutions and donating seedlings through the ReNordestando Campaign.

Partner

**EarthAid
Solutions**

Total Funding

\$ 874.68





PARTICIPATORY IMPLEMENTATION OF GREEN INFRASTRUCTURE FOR LANDSLIDE REDUCTION IN RECIFE - PE - BRAZIL

2019 - Today

General Description

Promote the participatory adoption of green infrastructure methodologies to reduce landslide risks in the neighborhood of Guabiraba - Recife - PE, including and training local actors in the Green Infrastructure; Environmental Education and other environmental topics; focusing on the participation of local female leaders. In addition, the project foresees the implementation of a pilot area to stabilize a slope in the neighborhood, using bioengineering methods to increase the area's multifunctionality.

Partners



Total Funding

\$ 10282.03



RIO DOCE BASIN SEEDS AND SEEDLING NETWORK - ESPÍRITO SANTO AND MINAS GERAIS - BRAZIL

2019 - Today

General Description

To assist in the creation, structuring and operation of the Rio Doce Basin Seeds and Seedlings Network, in the states of Minas Gerais and Espírito Santo, by surveying the main social actors involved in the restoration productive chain; actions for the development and establishment of governance, focusing on participatory planning; dimensioning of the productive capacity of seeds and development of pricing systems them; carrying out technical training, updating exchanging knowledge with the different actors in the Network. Finally, the project aims to foster the infrastructure of the restoration production chain in the region, giving it longevity and independence.

Partners



Total Funding

\$ 228828.60





FOREST RESTORATION IN THE ATLANTIC FOREST USING DIRECT SOWING (MUVUCA)

2020 - Today

General Description

The project aims to overcome a challenge faced by a large part of restoration projects: to structure a bottom-up process that includes social actors in the proposed actions in the long term. In this sense, the restoration of 100 ha will be carried out through direct seeding, in four states in the Northeast and Southeast of the country. The project includes the mobilization of key social actors, such as quilombolas (slave-descendants populations), indigenous communities and small landowners, to participate in the forest restoration chain, collecting seeds or providing land for intervention, generating co-benefits and improving the local quality of life.

Partner



Total Funding

\$ 66640,00

INCREASING STRUCTURAL CONNECTIVITY BETWEEN TWO KEY PROTECTED AREAS IN PARAÍBA - BRAZIL

2020 - Today

General Description

Promote the implementation of an ecological corridor between two protected areas in Paraíba, strategic for the conservation of the Northeast Atlantic Forest: the Engenho Gargaú Private Reserve and the Pacatuba Private Reserve. For that, three restoration methodologies will be used in the project: direct sowing, planting seedlings and conducting natural regeneration, in order to contemplate 250 ha restored in the landscape. The recovery of this landscape will promote benefits for the local biodiversity, as for several endemic endangered species, such as the blonde capuchin monkey (*Sapajus flavius*) and the red-handed howler (*Alouatta belzebul*), in addition to restoring ecosystem services, such as water supply.

Partners



Total Funding

\$ 95200,00





RECOVERY PLAN FOR DEGRADED AREAS AND STRUCTURING OF THE FOREST RESTORATION PRODUCTION CHAIN FOR THE ENVIRONMENTAL PROTECTION AREA (APA) CHAPADA DO ARARIPE

2020 - Today

General Description

Elaborate a Recovery Plan for Degraded Areas for APA Chapada do Araripe, located between the Northeast states of Pernambuco, Piauí and Ceará, and recover at least 50 hectares in its area in 30 months, using planning, prioritization and forest restoration executive methodologies, mobilizing people through the structuring of a productive chain of restoration. This recovery will prioritize low-cost methodologies, including interventions that allow economic uses (eg, implantation of agroforestry systems, direct seeding), and that recover Permanent Preservation Areas (APP) and areas of occurrence of endangered species.

Partners



MINISTÉRIO DO
MEIO AMBIENTE



Total Funding

\$ 142800,00

RECOVERY PLAN FOR DEGRADED AREAS AND STRUCTURING THE FOREST RESTORATION PRODUCTION CHAIN FOR THE ARARIPE-APODI NATIONAL FOREST

2020 - Today

General Description

The project aims to develop and implement a Recovery Plan for Degraded Areas (PRAD) for the surroundings of the Araripe-Apodi National Forest (FLONA), in Ceará state, as well as to start structuring a forest restoration production chain based on strengthening its most strategic links: the forest collectors, seeds and seedling producers of native species. Furthermore, it aims to restore 50 ha of degraded areas around FLONA, prioritizing low-cost methodologies, ensuring scale and success during the project's execution.

Partners



Total Funding

\$ 142800,00



RECENT PUBLICATION



Download available at:
<https://bit.ly/ROAMPernambuco>

FORTHCOMING PUBLICATIONS

FOREST LANDSCAPE RESTORATION: IMPROVING LIVELIHOODS IN THE TROPICAL WORLD

2020

This book will present the state-of-the-art of 15 successful experiences and lessons learned of tropical forest restoration projects as a means of employment and income, contributing to the improvement of livelihoods and quality of life in tropical populations.

FORTHCOMING PUBLICATIONS

ENVIRONMENTAL AGENTS TRAINING IN THE STATE OF PERNAMBUCO: THE CHALLENGE OF BRIDGING THE GAP BETWEEN PEOPLE AND PROTECTED AREAS

2020

This publication will present the experience obtained in CEPAN previous projects, focusing on how to bring people closer to protected areas, addressing the topics in an easy and visual language so that it can be adopted as a reference for other similar initiatives, depicting successful cases and challenges.



EVENTS

SEMINARS AND COURSES



SEMINARS AND COURSES

CENTER OF FORMATION



**Núcleo de Formação em
Ciência & Tecnologia Ambiental
do Nordeste**

CURSO PRÁTICO

RESTAURAÇÃO FLORESTAL NO BIOMA MATA ATLÂNTICA



**Núcleo de Formação em
Ciência & Tecnologia Ambiental
do Nordeste**



SEMINARS AND COURSES

ATLANTIC FOREST RESTORATION - PRACTICAL COURSE

Workload: 20 hours

Facilitators: Severino Ribeiro,
PhD; Emanuelle Souza, MSc.;
and Fabiane Santos; MSc.

Local: Recife - Brazil



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Núcleo de Formação em
Ciência & Tecnologia Ambiental
do Nordeste

SEMINARS AND COURSES

SEEDLING PRODUCTION AND NURSERY MANAGEMENT

Workload: 5 hours

Facilitators: Severino Ribeiro, PhD.

Local: Recife - Brazil



SEMINARS AND COURSES

EVENT: RIO DOCE BASIN SEEDS AND SEEDLINGS NETWORK LAUNCHING

2019

Partner



FUNDAÇÃO
renova



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PARTICIPATION IN EVENTS



LECTURES, WORKSHOPS AND PARTICIPATIONS IN 2019



Recife - Brazil



Recife - Brazil



Belo Horizonte - Brazil



Salvador - Brazil



Recife - Brazil



Cape Town - South Africa



Foz do Iguaçu - Brazil



Recife - Brazil

INSTITUTIONAL

BOARD OF DIRECTORS



Marcelo Tabarelli – Professor at the
Universidade Federal of Pernambuco - UFPE

Luiz Paulo Souza Pinto – Senior Advisor in
environmental area

Germano de Barros Ferreira – Service of
Alternative Technology - SERTA

Ludmila Pugliese de Siqueira – Kawa
Sustainable Strategics

João Carlos Gomes Borges – Aquatic Mammals
Foundation

INSTITUTIONAL

CEPAN Team



Technical Area

Severino Ribeiro – President

Joaquim Freitas – Project Coordinator

Emanuelle Souza – Project Analyst

Fabiane Santos – Project Analyst

Lara Ribeiro - Project Analyst

Maria Carolina Aquino - Technical Intern

Management Area

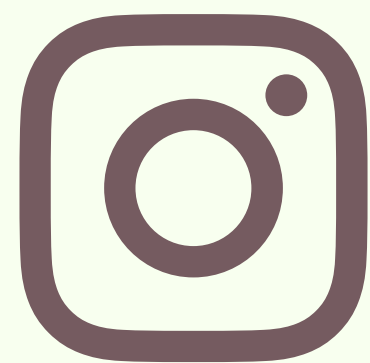
Cristiane Lucena – Executive Director

Vitalane Alves – Management Analyst

Estéfane Freire - Management Assistent



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