

JANUARY | 2025

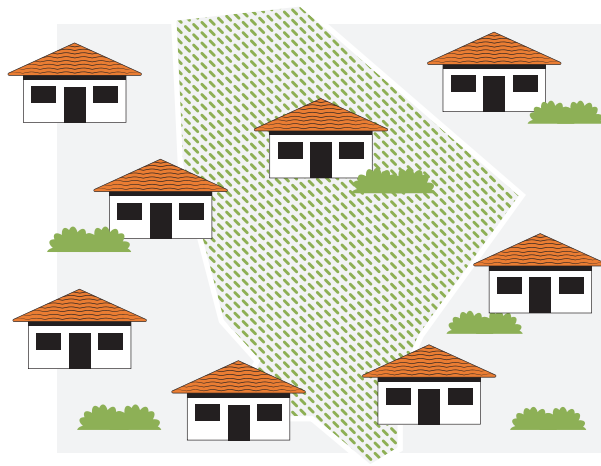
## RESTORATION IN SETTLEMENTS IN RURAL AREAS ESTABLISHED BY THE AGRARIAN REFORM: more vegetation, water, and jobs in the state of Ceará

Ceará is an especially vulnerable state to the adverse effects decurrent from climate change. With 90% of its territory covered by the Caatinga, a prevailing biome in all its municipalities<sup>1</sup>, the state suffers from the ongoing desertification process in the Brazilian semi-arid region, causing a worsening risk of poverty, hunger, and thirst for the population.

The data on the side show that the productive restoration of permanent preservation areas (PPA)<sup>2</sup> in rural settlements of the state of Ceará can help to cope with this scenario, especially concerning access to water and security of its availability, considering that most of the areas susceptible to be restored have water sources in their surroundings.

Restoring the PPAs will also further raise the state of Ceará in the ranking of states with more preserved native vegetation areas in rural settlements. Presently, Ceará is second only to the states of Acre, Amazonas, Amapá, and Piauí in that regard, with 82% – or 706.1 thousand hectares – of the total area of rural settlements with native vegetation cover, according to the charting by Mapbiomas (2022).

## PPAs IN RURAL SETTLEMENTS IN THE STATE OF CEARÁ



CEARÁ HAS **415** FEDERAL SETTLEMENTS<sup>3</sup> WITH **20,416** RESETTLED FAMILIES

THE TOTAL AREA OF THESE SETTLEMENTS COMPRISES **864,861** HECTARES (**5.8%** OF THE TOTAL STATE AREA)

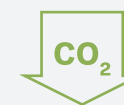
THERE ARE A TOTAL OF **69,558** HECTARES OF PPAs IN THOSE SETTLEMENTS, OF WHICH **15,014** DEFORESTED HECTARES ARE SUSCEPTIBLE FOR PRODUCTIVE RESTORATION.

## THE RESTORATION HAS THE POTENTIAL TO:



GENERATE  
**66.4**  
**THOUSAND**  
JOBS

REMOVE  
**2.49 MILLION**  
TONS OF CO<sub>2</sub>  
FROM THE  
ATMOSPHERE



PRODUCE **3.66**  
**MILLION** TONS  
OF FOOD

## PRODUCTIVE RESTORATION OF 15 THOUSAND HECTARES OF PPAs

**USD 53.48 MILLION**  
IS THE INVESTMENT REQUIRED  
**IN THE FIRST 3 YEARS**



**USD 224.38 MILLION**

IS THE TOTAL ESTIMATED COST DURING  
THE **PROJECTS' PLANNED 30 YEARS**



**USD 637.73 MILLION**

IN REVENUES OR **2.8X** THE  
PROJECTED INVESTMENT AMOUNT

\*USD 1 = BRL 5,92 (Source: Brazilian Central Bank, 01/27/2025).

1. According to data from the Demographic Census 2022. 2. The Forest Code (Law 12.651/2012) allows for the recovery of Permanent Preservation Areas (PPAs) with agroforestry production associated to natural regeneration on small properties, including rural settlements. In this study, to delimit and analyze the vegetation cover of land areas in so-called hydro PPAs, the minimum width required by Article 4<sup>th</sup> of the Forest Code was applied, which is greater than the minimum width for the mandatory restoration of vegetation in PPA consolidated areas, as set out in Article 61-A - the ("small ladder rule"). 3. Considering federal settlements and agro-extractive reserves.