



Pachama

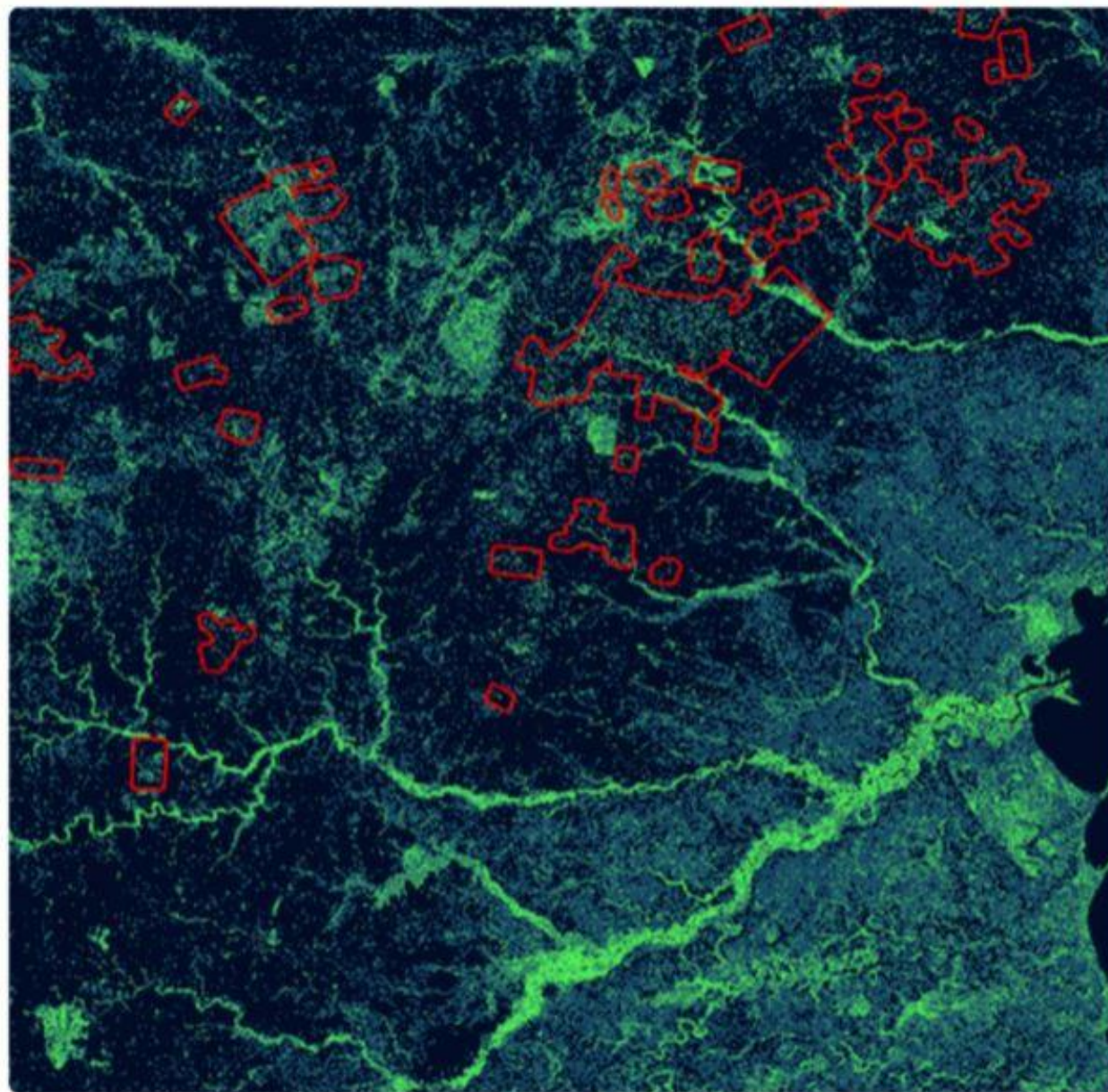
Restore Nature to Solve Climate Change

OUR INTENTION

Helping accelerate Forest Carbon Markets with Technology

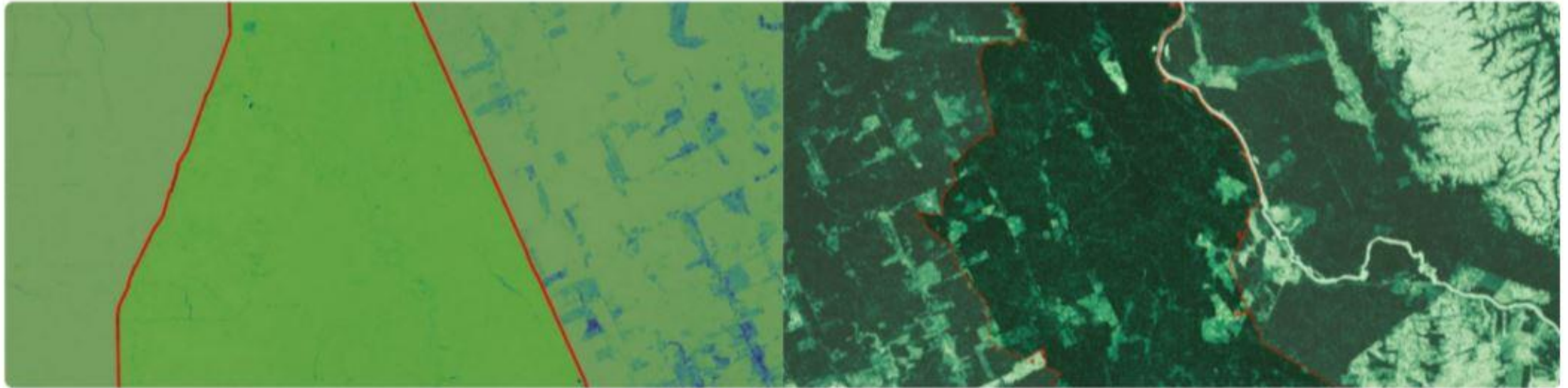
Our intention is to be a bridge between the science and technology world and the carbon markets. We believe that by harnessing the latest technologies including satellite data, artificial intelligence, cloud computing and digitalization in general, carbon markets can gain the credibility and efficiency needed to scale.

We seek to partner with all players in the market to help accelerate the adoption of these technologies for the benefit of all.



Observing forests from space

Pachama's technology brings more visibility to projects that are stopping deforestation or restoring forests around the world. Our technology allows us to highlight the clear justification, additionality and permanence of the projects.



Project A · No sign of deforestation within the red boundaries of the project. Darker green areas show rapid deforestation outside the project area.

Project B · Red boundary shows the project area, and lighter green areas show degradation within the project.

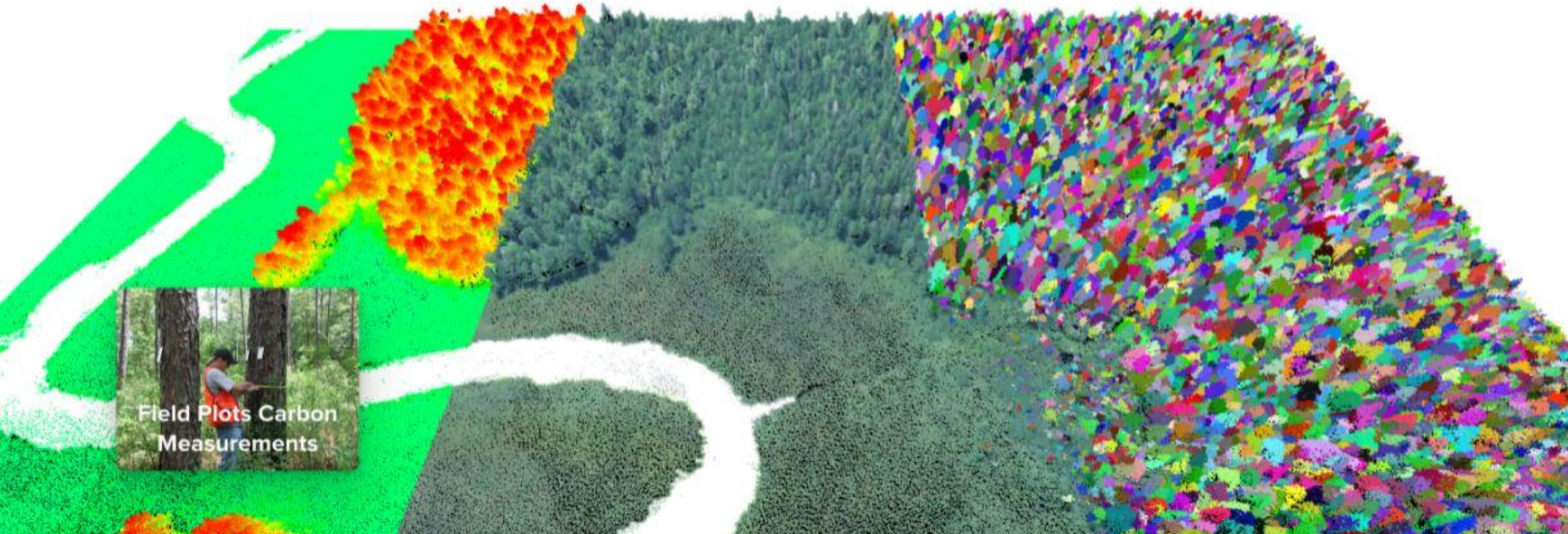
OUR NOVEL APPROACH

We ingest and process remote sensing data from multiple sources

Radar Data

Satellite Images

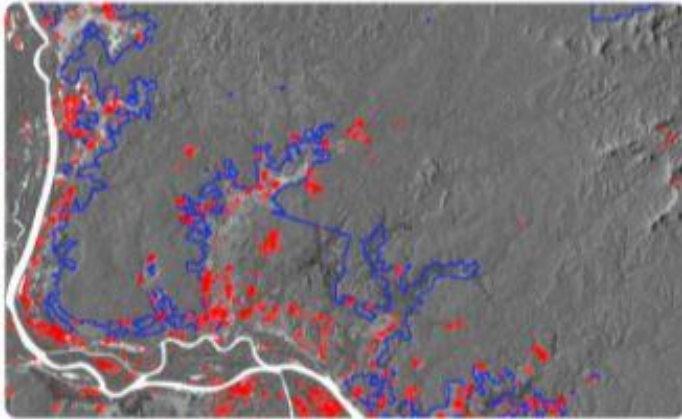
LIDAR Scans



Field Plots Carbon Measurements

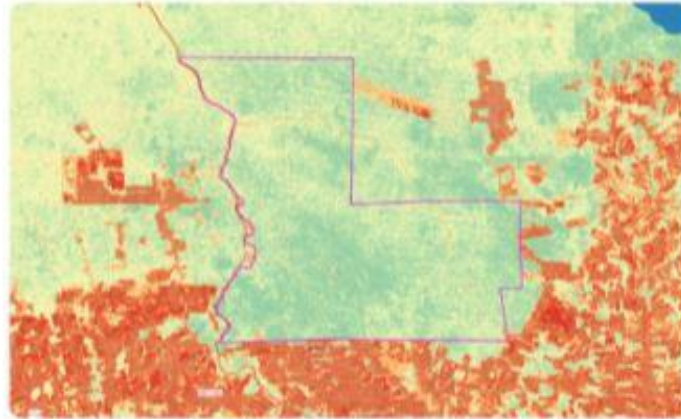
Our AI models predict carbon stocks and forests disturbances

Historical Model



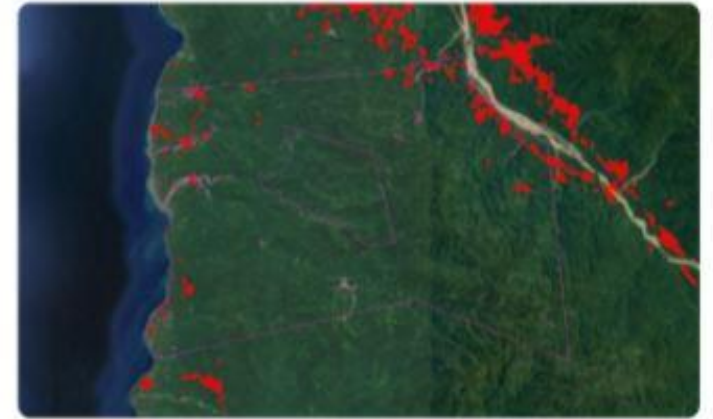
Our historical model, based on Landsat data, allows us to look at the biomass history of a region and determine the project justification and baseline for carbon additionality.

Validation Model



Our verification model, based on Lidar with satellite and field plots, allows us to determine the present-day carbon stocks on a project with a high degree of accuracy.

Monitoring Model



Our monitoring model, based on Sentinel radar data, allows us to detect in near real-time disturbances in the forests such as deforestation or fire.

Stunning from space



Carbon map of the project and its surroundings

Pachama's satellite imagery modeling indicates that the project's biomass is approximately 9% above the regional mean of 239 tons per hectare.

Further, Pachama's remote sensing analysis confirms a history of encroaching deforestation to the project's west and south, likely from its proximity to areas of rapid population growth.

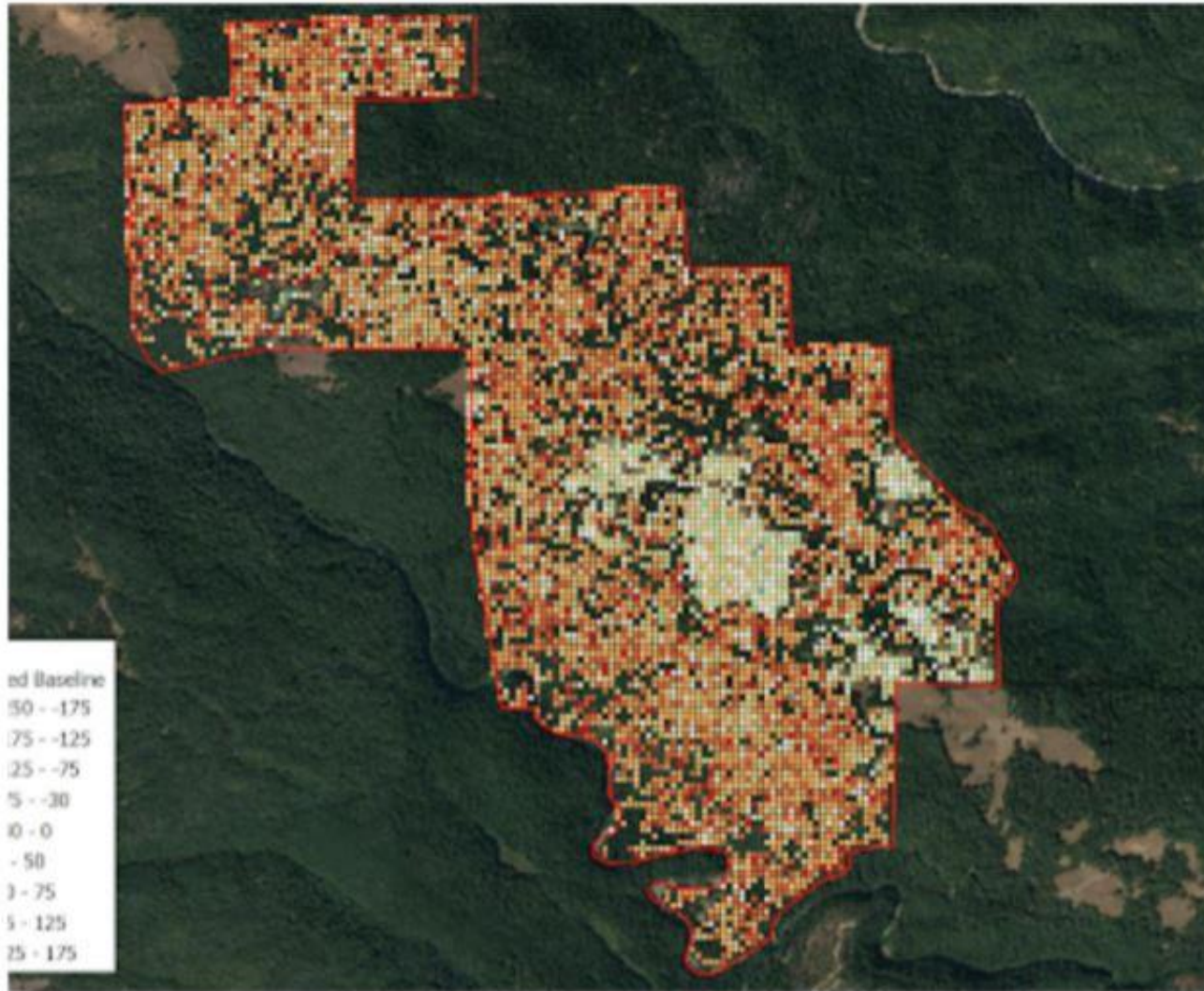
Given its location, the project offers a great number of ecological benefits, serving as a critical corridor for wildlife and as habitat to at least 2070 species of animal (133 of which are endangered), and at least 340 species of plants (54 of which are endangered).

Visualizing every acre

Baseline Map: This is a carbon map of Pachama's Modeled Baseline. The map shows how carbon storage would have increased or decreased, in the absence of a carbon project, based on observed historical trends.

Red and orange colors represent a likely decline in biomass, green represents regrowth.

Pachama's 30 year baseline for the project places final biomass at 296 tonnes per hectare. The project's own baseline estimates the long-term baseline to be 278 tonnes. Thus the two are in good agreement (with a 5.9% difference between them). This meets Pachama's IFM baseline standards.



Carbon map of the project



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Join us!

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