

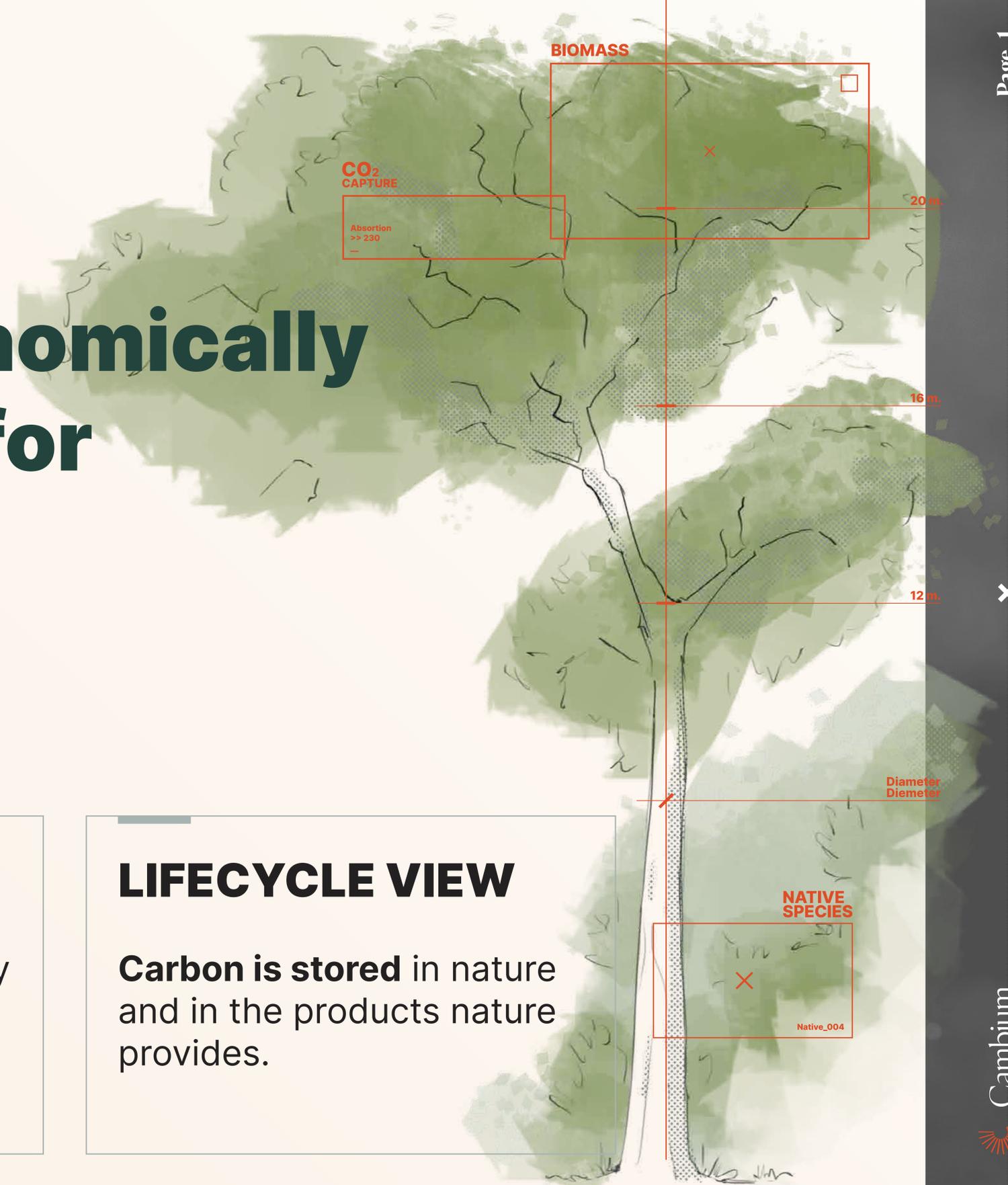


Cambium





Environmentally and economically sustainable ecosystems for carbon capture.



OUR ABCD

Aqua,
Biodiversity,
Carbon and
Development.

TOOLKIT

Trust is built on our forestry **expertise, technology** and **information** transparency.

LIFECYCLE VIEW

Carbon is stored in nature and in the products nature provides.





CAMBIUM SUSTAINABLE ECOSYSTEMS

PROJECT: Paraná 1

THE PROJECT



In the heart of Paraguay, **we are reverting the degradation and biodiversity loss caused by deforestation** through an innovative combination of afforestation with non-native and native species. Short-term carbon capture and long-term nature regeneration is at the core of our sustainable ecosystems.





20 58 GOALS

2048 GOALS

In our unique design, fast-growth non-native species provide high performance in CO2 capture and the shadow required by native species to thrive. This results in **high carbon capture rates, biodiversity restoration, soil and water quality, positive social impact** and, most importantly, 172 ha of the final stage mixed forests that will eventually merge with the surrounding natural reserves.



100,000
m³ OF WOOD

153,133
TONNES OF CO₂

60,000
NATIVE TREES

11 LEAD
NATIVE
SPECIES

172 ha OF CATTLE RAISING
LAND RECOVERED
TO FOREST





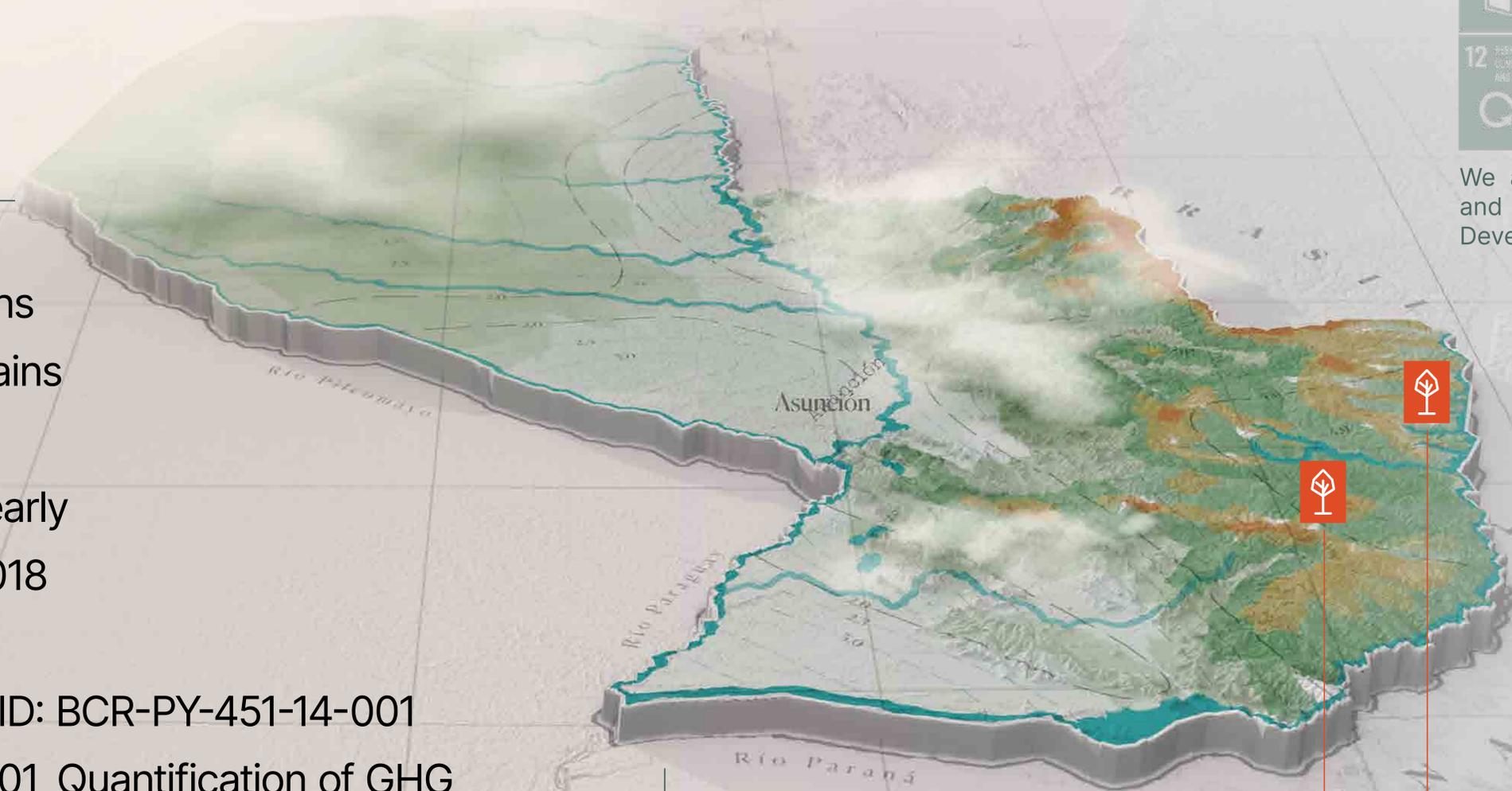
LOCATION: PARAGUAY



We adhere to top standards and contribute to Sustainable Development Goals.

PARAGUAY

- 172.8 ha in two regions
- Humid subtropical plains
- 22C temp. average
- 1,500 to 2,000mm yearly
- Project Start 01/12/2018
- 40 years of duration
- BioCarbon Standard ID: BCR-PY-451-14-001
- Methodology BCR0001_Quantification of GHG Emission Reductions & GHG Removal activities
- CO_2 First verification (net): 13,368 tCO₂
- CO_2 Average anual carbon absorption: 3,828 tCO₂
- CO_2 Total carbon absorption: 153,133 tCO₂



TAPYTA
34.0 HECTARES

YVYTYTA
138.8 HECTARES





Sustainability through innovation

SUSTAINABILITY - INNOVATION



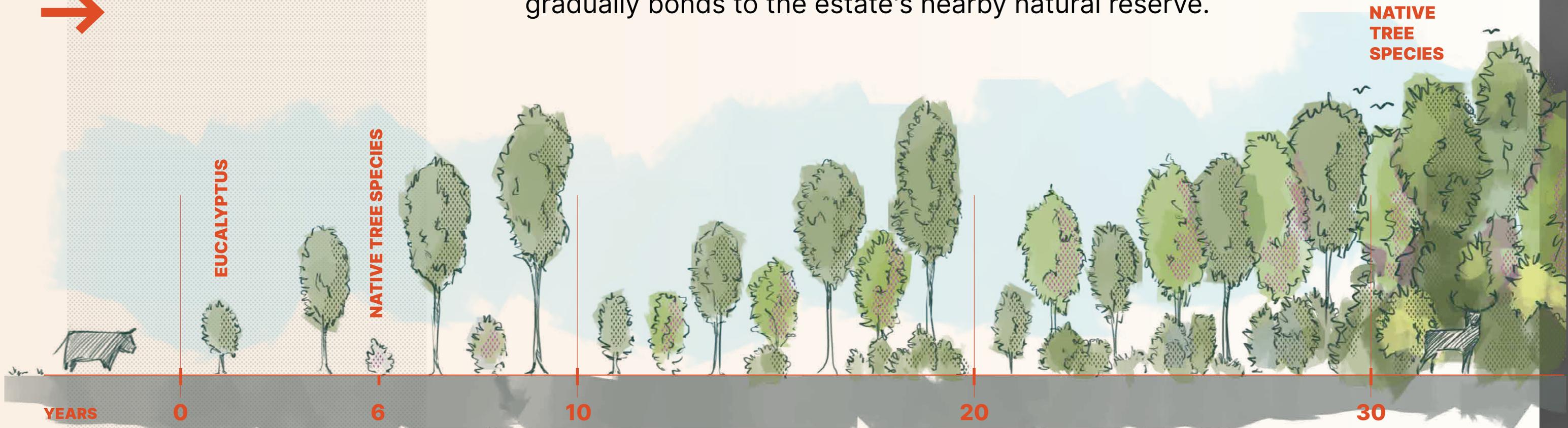
Native and non-native trees grow together.

Fast-growth non-native trees undergo 2 harvest cycles, and the third cycle will be planted following a low tree density pattern and will not be harvested. Thus, they will reintegrate their nutrients back into the ecosystem at the end of their natural life cycle.

Native species will account for 55% of all trees by the end of this project and **will not be harvested**.

As a result of this project, the degraded grasslands where livestock farming was carried out has been replaced by a sustainable ecosystem of mixed native and non-native tree species that gradually bonds to the estate's nearby natural reserve.

40 YEARS
2 CYCLES

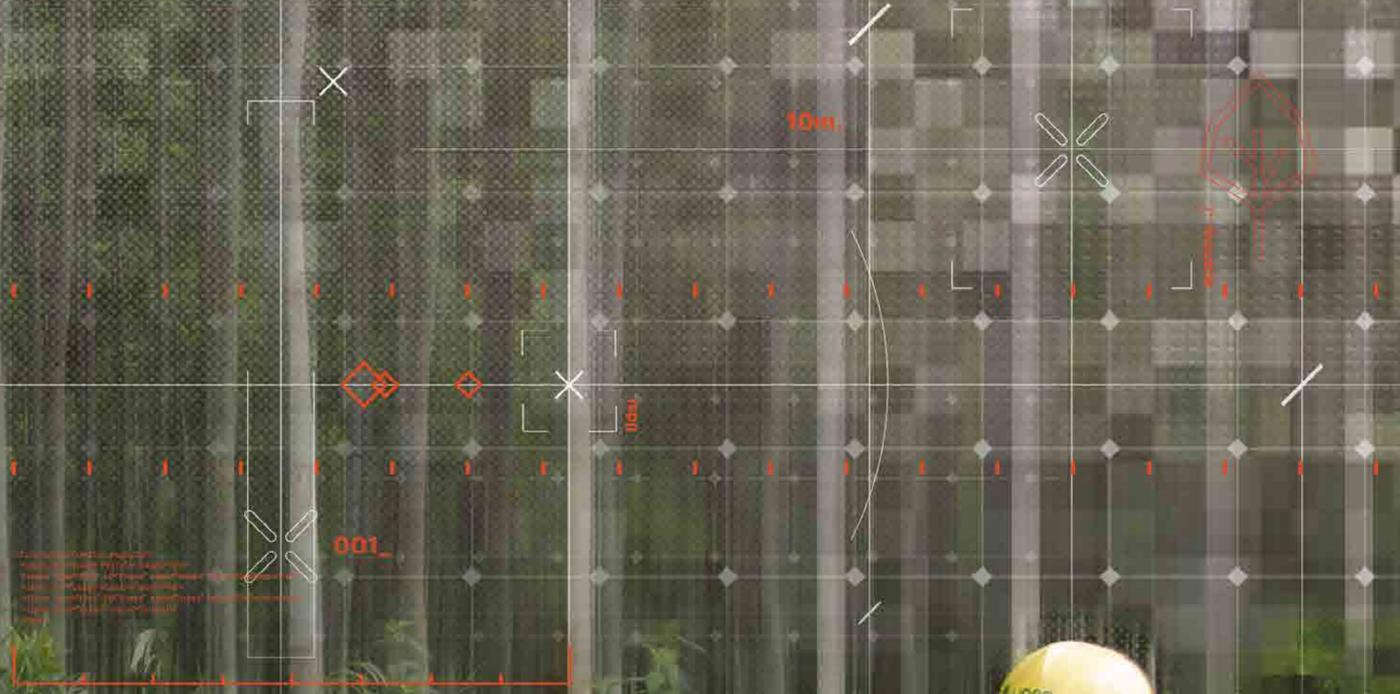


NATIVE TREE SPECIES



Integrating cutting-edge technologies

We believe in full transparency. Thanks to our **extensive experience** with remote sensing, information management and AI, all project stakeholders can witness progress first-hand and trust we are living up to our commitment.

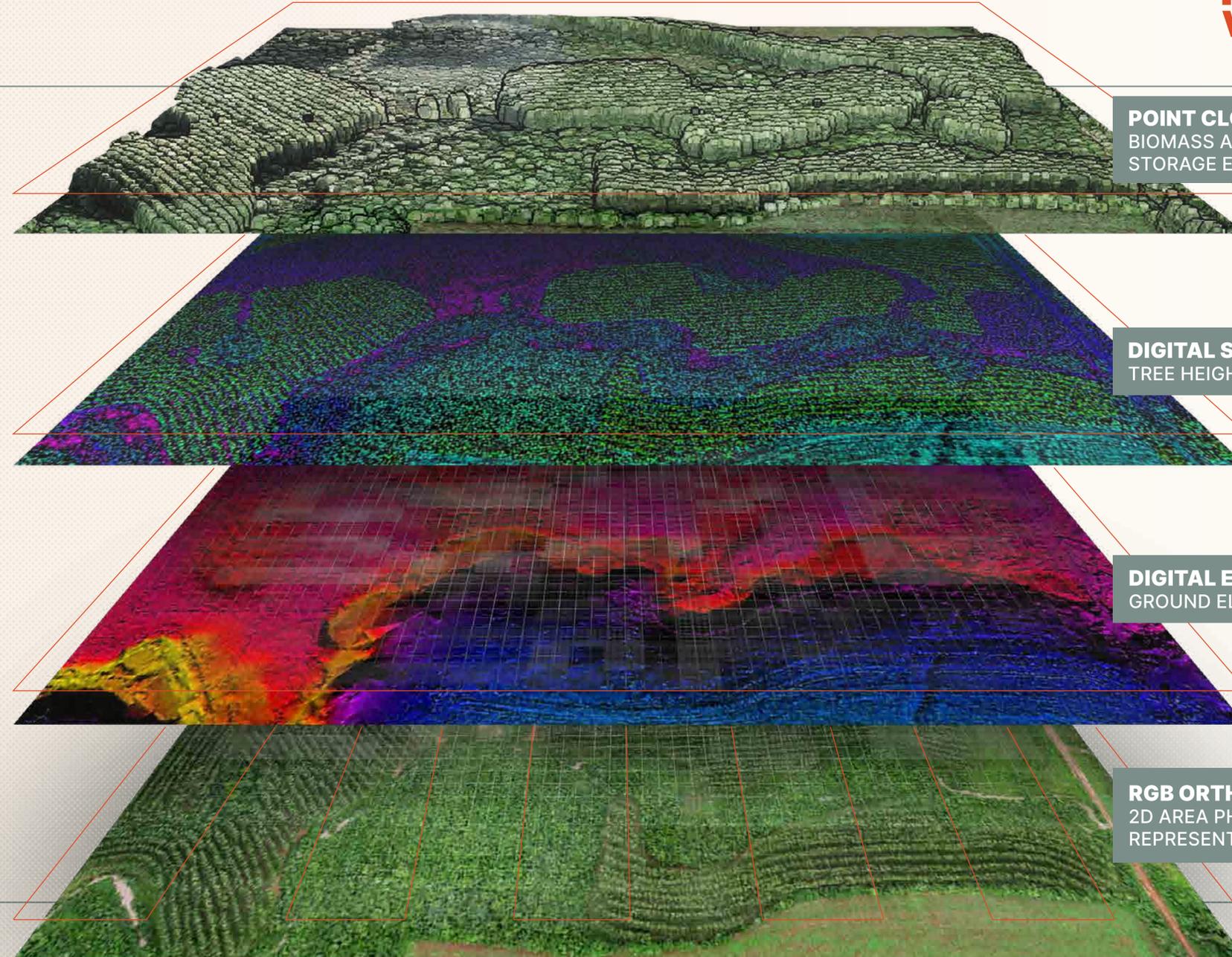




MRV

**MONITORING
REPORTING
VERIFICATION**

High-Resolution multispectral and LiDAR imagery, historical information, on-the-ground operational data and climate projections are all combined by AI to **measure carbon stocks, monitor and drive operations**. Insights and forecasts are made **available on a yearly basis**.



POINT CLOUD LIDAR.
BIOMASS AND CARBON STORAGE ESTIMATION

DIGITAL SURFACE MODEL.
TREE HEIGHT MEASURING.

DIGITAL ELEVATION MODEL.
GROUND ELEVATION MEASURING.

RGB ORTHOMOSAIC.
2D AREA PHOTOGRAPHIC REPRESENTATION.





POMERA
MADERAS

Our strategic partner

Pomera Maderas has **decades of experience managing forests** in the region. Their nurseries and R&D program have a capacity of **6M saplings a year**. Pomera is built on unique genetic and tree growth IP for the Parana Basin Region. The result is high performance, better adaptation and resilience.



Certified under FSC® standards.



The mark of responsible forestry





The success of our Parana 1 ecosystem relies on understanding the soil, promoting genetic biodiversity, anticipating climate change events, selecting the right species to ensure fast growth and permanence, using the latest technology available to add layers of information, transparency and veracity, and addressing positive social impact.

All skills aligned with our experience, principles and execution capabilities.

PARANÁ 1

CONCLUSION



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THANK YOU!

Contact us if you are interested in being a part of our project.



Cambium

Contact info

info@cambium.earth