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Circular Economy Forum 2025 Enabling Conditions: Aligning Circular Economy Strategies with Sustainable Development Goals Eileen Ortega-Gamo **Director for Community Bamboo Development** and Carbon Removal

RIZOME

Rizome and the circular economy



Rizome PH, a fully owned Filipino subsidiary of the US company, and is actively building a holistic bamboo-based value chain across the Philippines.

The value chain starts with bamboo propagation and community-managed cultivation, leading to the sustainable harvest of mature bamboo. This raw material is then transformed into advanced engineered bamboo construction materials.







Active **Stewardship**

Supporting IP communities in developing their ancestral domains through sustainable bamboo growing, fulfilling their land protection aspirations.



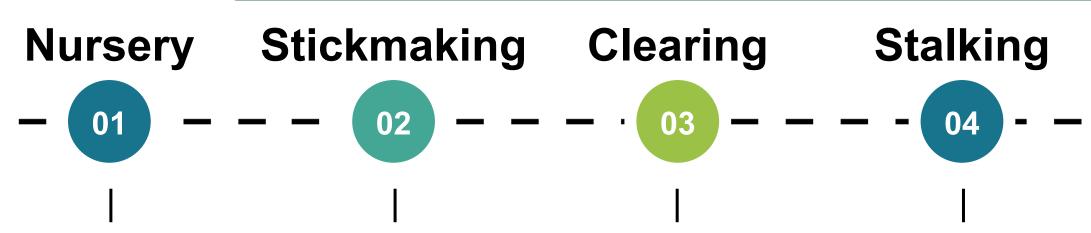
Beyond "Plant and Forget"

Emphasize dedicated care for bamboo plants during their crucial first four years. This commitment enables harvesting by year 7.

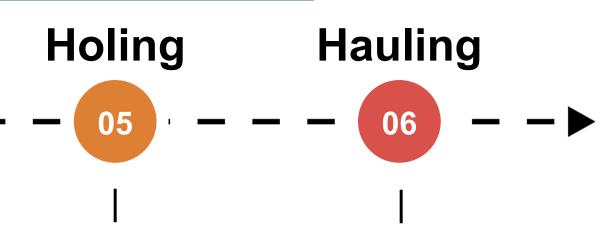


Future Market Rizome then purchases these poles for engineered bamboo production, guaranteeing a vital future market for growers.

Sustainable livelihood through jobs generation in the entire bamboo growing process











Sustainable livelihood through jobs generation in the entire bamboo growing process





Reporting





Carbon sequestration

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The bamboo growing project is an Afforestation, Reforestation, and Revegetation (ARR) project being implemented following Verra Standards (VM 047).



The project aims to achieve GHG emission reductions as a result of the carbon sequestration attributes of giant bamboo or *Dendrocalamus asper*.



GHG emission reductions will be calculated based on both aboveground and belowground biomass.





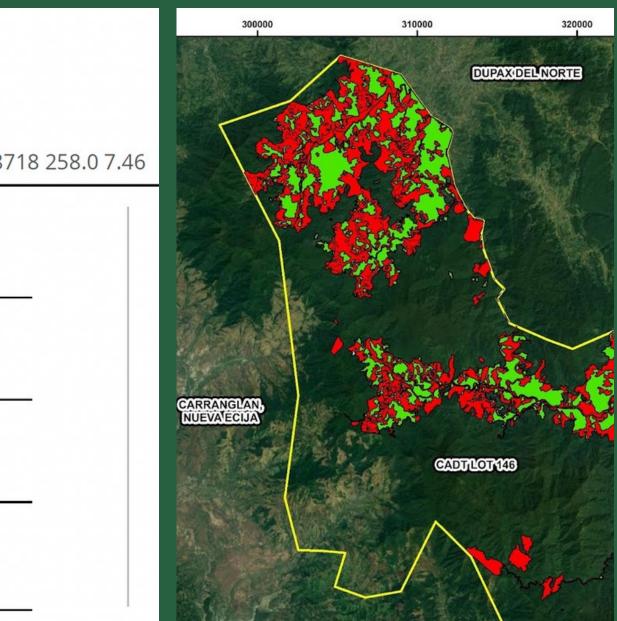


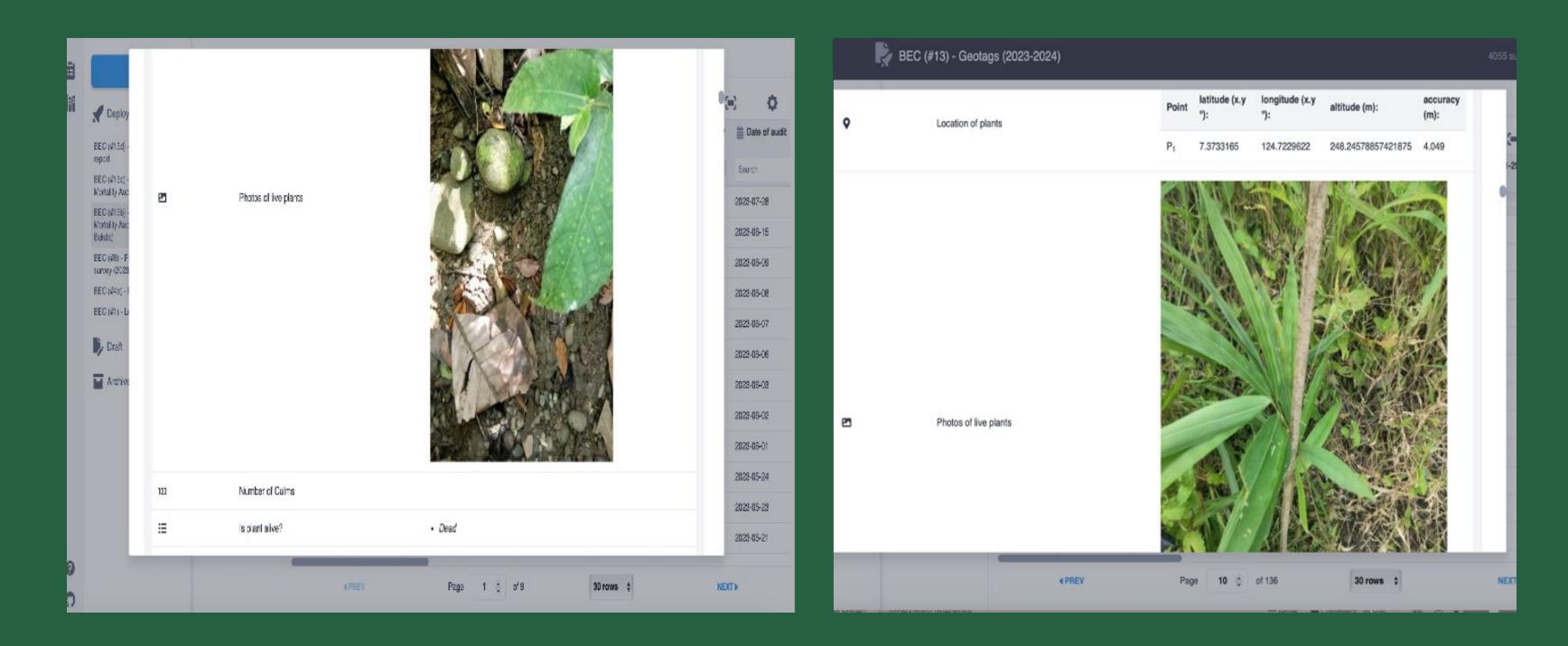
The Verra standards include meeting the requirements of where the bamboos should be planted and how these sites are selected, how they are planted, who plants them as well as safeguards in risk management and grievance mechanisms to ensure they are in place.

*Other team name Avo2x	Plant Check
*Area Avo 2x	 * Location of plants 7.3699416 124.7168
 Activity Staking Planting Clearing Hole digging Stick making Loading/unloading Fire breaker/plumber 	latitude (x.y °) 7.3699416 longitude (x.y °) 124.7168718
* Planting Attendance	altitude (m) 258
1039 Other comments	accuracy (m) 7.46



Since carbon is an invisible asset, technology-driven data collection is critical for demonstrating impact and generating verifiable carbon credits.







We establish verifiable data on each bamboo plant's presence and development. DBH measurements are a key input for calculating above-ground and belowground biomass.

IP Community-Led Digital Measurement



Precision Data Collection

IPs are trained to capture realtime, metadata-rich photos and direct measurements (e.g., Diameter at Breast Height - DBH) via geotagging technology and mobile applications.



MRV & Transparency Use of technology in IP-led data collection for Measurement, Reporting, and Verification (MRV) ensures data integrity, traceability, and transparency for every carbon asset.



Auditability & Confidence

The digitized data flow enables efficient, on-time reporting, crucial for Verra validation and provides for an auditable record for all stakeholders.

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Maiting

School

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-Kitub-Bao High School

Kring Store

Malitubog,

Accountability and transparency using evidence-based data. 3M's Sanctuary Respond

Elementary





Investing in human capital and organizational development to ensure ownership of both process and outcome.



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ermission.

03-21-2 Anglanda Makabili my Lung ABEATUK GO TRI WELDER BUDN (+ IL MALATIN DUSON * Maayong panglawas * Maka human Ug eskuela akong * Padayon 109 * Makab-ot namo Mapangingbuhi an og ang anong mga maayong porg lavos dango. *Naay Naaying qnak. * Dili magutman Ong pawilya. Panginabuhian

SYNERGY: Circular Economy and

Decarbonization

SDGs.

value chains and equitable partnerships.

- The Circular Economy (CE) offers a powerful framework to
- decouple economic growth from resource depletion and
- environmental degradation, directly contributing to numerous

When properly enabled, decarbonization efforts can promote education (SDG 4), empower women (SGD 5), provide decent work (SDG 8), and poverty eradication (SDG 1) through **new**

4M Ha of Deforested Grasslands Available Across the Philippines

Restoring Deforested and Degraded Land: Regenerative practices and nature-based solutions, actively restoring ecosystems and strengthening natural carbon sinks.



Through the application of regenerative thinning, bamboo continues to grow back. This ensures IP communities benefit from a supply of poles and culms annually, securing sustained resources and income.



1 NO POVERTY



End poverty in all its forms everywhere.



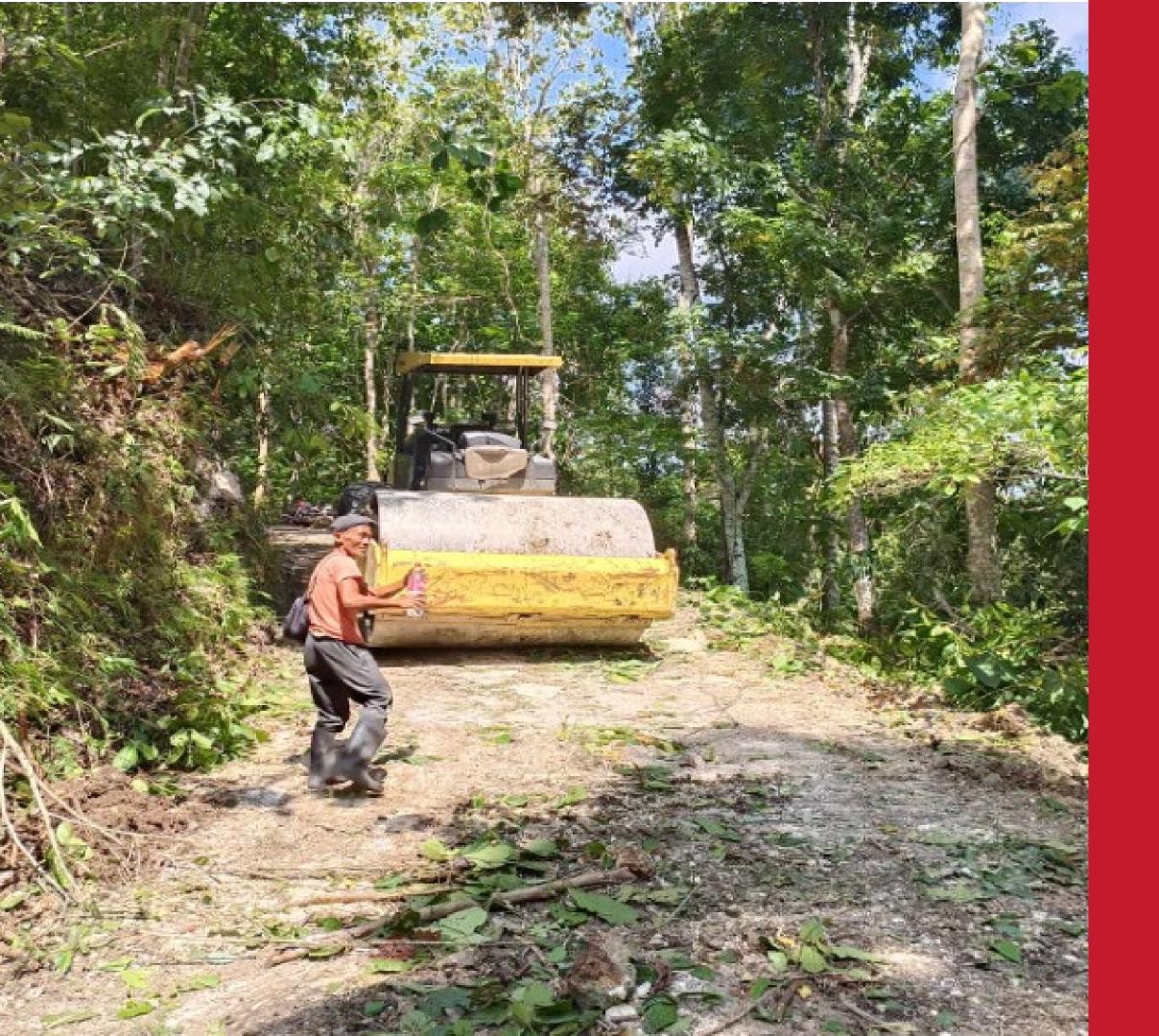


End hunger, achieve food security and improved nutrition and promote sustainable agriculture.



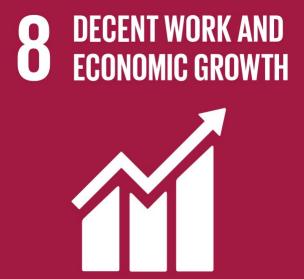


Ensure inclusive and equitable quality education and promote lifelong learning opportunities for all.



Children are able to go to school because of road development.

Workers were able to invest in motorcycles.





Promote sustained, inclusive and sustainable economic growth, full and productive employment and decent work for all.



Steady and reliable income for the family on a weekly basis. They are able to pay off their debt as they have regular income. Local traders now go up to

their community because of their capacity to buy food, clothing, and household products every Friday and Sat.



















Achieve gender equality and empower all women and girls.



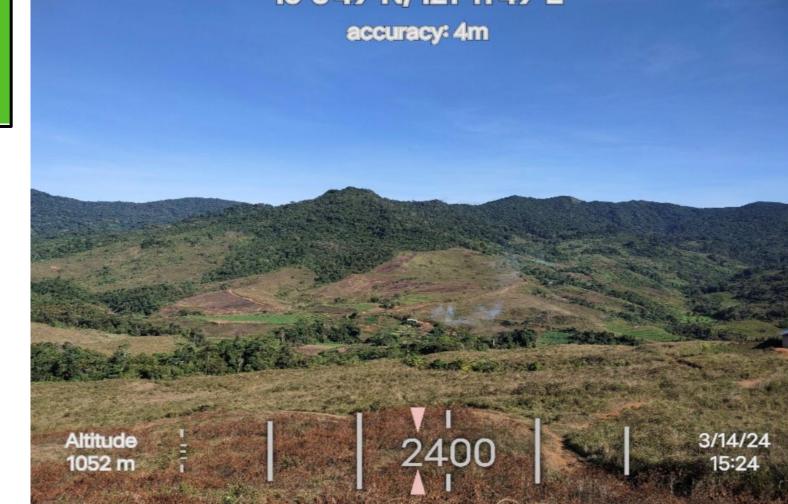


Take urgent action to combat climate change and its impacts.

The primary impact related to SDG 13 is the positive carbon impact of the project through sequestration of a significant amount of CO2 through the planting and maintenance of giant bamboo plants.

16°0'49"N, 121°12'20"E ccuracy: 4m Altitude 2/27/24 08:08 990 m 16°5'49"N, 121°11'49"E

15 LIFE ON LAND



Protect, restore and promote sustainable use of terrestrial ecosystems, sustainably manage forests, combat desertification, and halt and reverse land degradation and halt biodiversity loss.





Rehabilitation of the degraded lands through the establishment of the bamboo working forest and native trees enhances landscape connectivity, provides habitat to biodiversity and strengthens ecosystem resilience.



Strengthening the social fabric of communities by facilitating more time for family and local engagement.

Intergenerational legacy. Intergenerational wealth.





