mālama labs

Transforming Carbon Markets Through Community-Driven Innovation

SAFE funding round

SAFE Round investment presentation





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Accredited Investor Requirement

This SAFE offering is a Reg D Exempt Securities Offering and as such is only available to Qualified Investors, in order to review detailed documentation qualified investor attestation is required.

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Mission Statement

Malama Labs pioneers Hawaii's carbon removal future through innovative biochar production and digital carbon market solutions. We transform local biomass into high-carbon biochar (80%+ carbon content) while building a transparent, community-driven carbon credit marketplace.

Vision Statement

To establish Hawaii as a model for scalable, technology-enabled carbon removal by connecting local communities with global climate impact through verifiable biochar production and digital carbon markets.

Key Differentiators

- Hawaii-based biochar production using local feedstocks
- Integrated carbon credit tokenization platform
- Community-centric approach to carbon markets
- Modular, standards-compliant technology stack
- Focus on agricultural and urban applications

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Investment Opportunity Highlights

- Seeking up to \$4M via SAFE note to finance go to market, technology development, carbon credit creation and biochar production in Maui Hawaii
 Initial facility co-located with Maui's largest macadamia nut farms
 Three revenue streams: biochar sales carbon credit sales and digital MRV licensing
- and transaction revenue
- Blockchain-enabled MRV platform for transparent carbon accounting
 Proven pyrolysis technology with immediate market application
 First-mover advantage in Hawaii's agricultural carbon market

Financial Highlights

IRR: 73.86%

140% based on 3y projections

Project Impact

250k tons biochar produced annually - y5

213k tons co2 sink annually - y5

Hawaii's 2025 carbon credit requirement

malama labs incorporated

Delaware C-Corp **Entity Type**

Year of Formation

Raise Type SAFE Round / Valuation Cap

Minimum Rales \$750,000.00

\$4,000,000.00

Carbon Removal / Markets / Clean Tech

Projected Rev Year 1

Projected Rev Year 3 \$18.84m

total addressable market

blochar, Carbon Credits and MRV Licensing represent a multibillion dollar opportunity with Malama Labs positioned to capture significant share across all three sectors.

IRR 5-Year IRR 247.0%

10-Year IRR 251.8%

investment opportunity overview

Malama Labs represents a unique opportunity to participate in the rapidly growing carbon removal market while addressing critical environmental challenges. Our integrated approach combines proven technologies with innovative digital solutions, creating a scalable model for global expansion.

use of funds

1. Infrastructure Development (40%)

- Biochar reactor deployment
- Supply chain optimization
- Production scaling

2. Technology Enhancement (35%)

- MRV platform development
- Blockchain infrastructure
- Market Expansion (25%)

- Community partnerships
- Regulatory compliance
- Team expansion

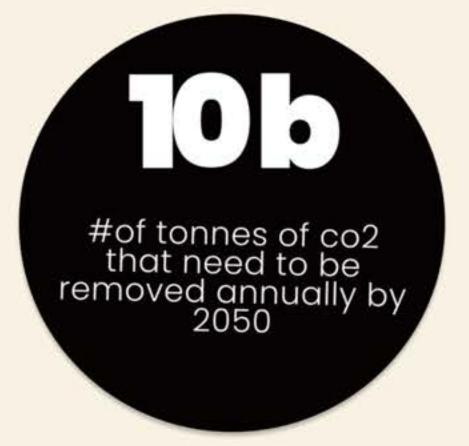


Global Carbon Crisis

- Global carbon emissions continue to rise, threatening our climate stability
- Current carbon accounting systems are manual, inefficient, and often inaccurate
- Businesses struggle to effectively track and offset their carbon footprint
- Agricultural waste management remains a significant environmental challenge
- · Hawaii faces unique sustainability challenges as an isolated island ecosystem

Market Gaps

- Only 5% of carbon credits have real-time verification
 73% of credits lack standardized measurement protocols
 Average verification time: 12-18 months
 Landowner participation rate under 8% globally





verification

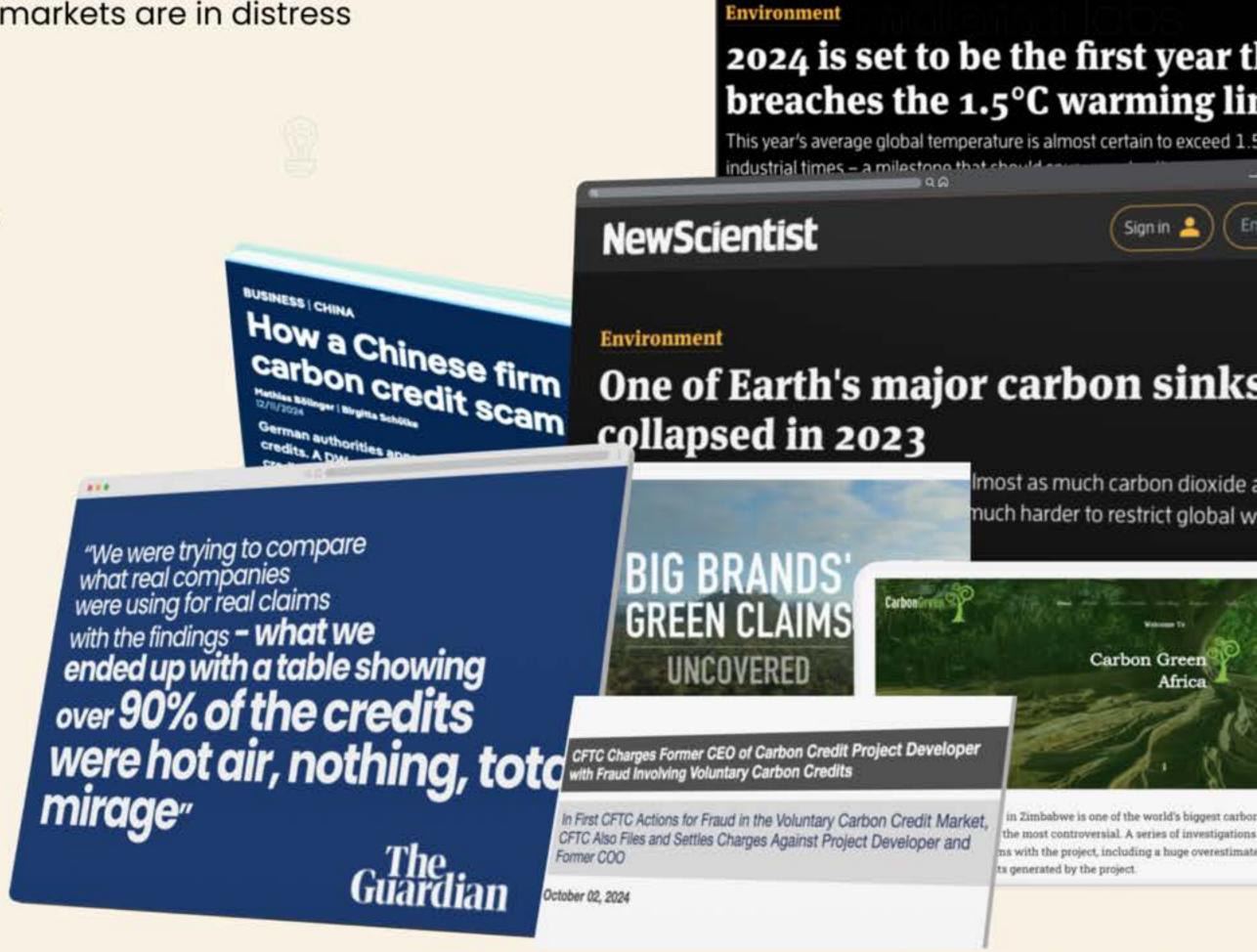
double counting inflated baselines, and questionable additionally claims undermine the market

complexity

fragmented markets, varying standards, and opaque pricing create entry barriers

uncertainty

inconsistent global policies and changing requirements create market hesitancy



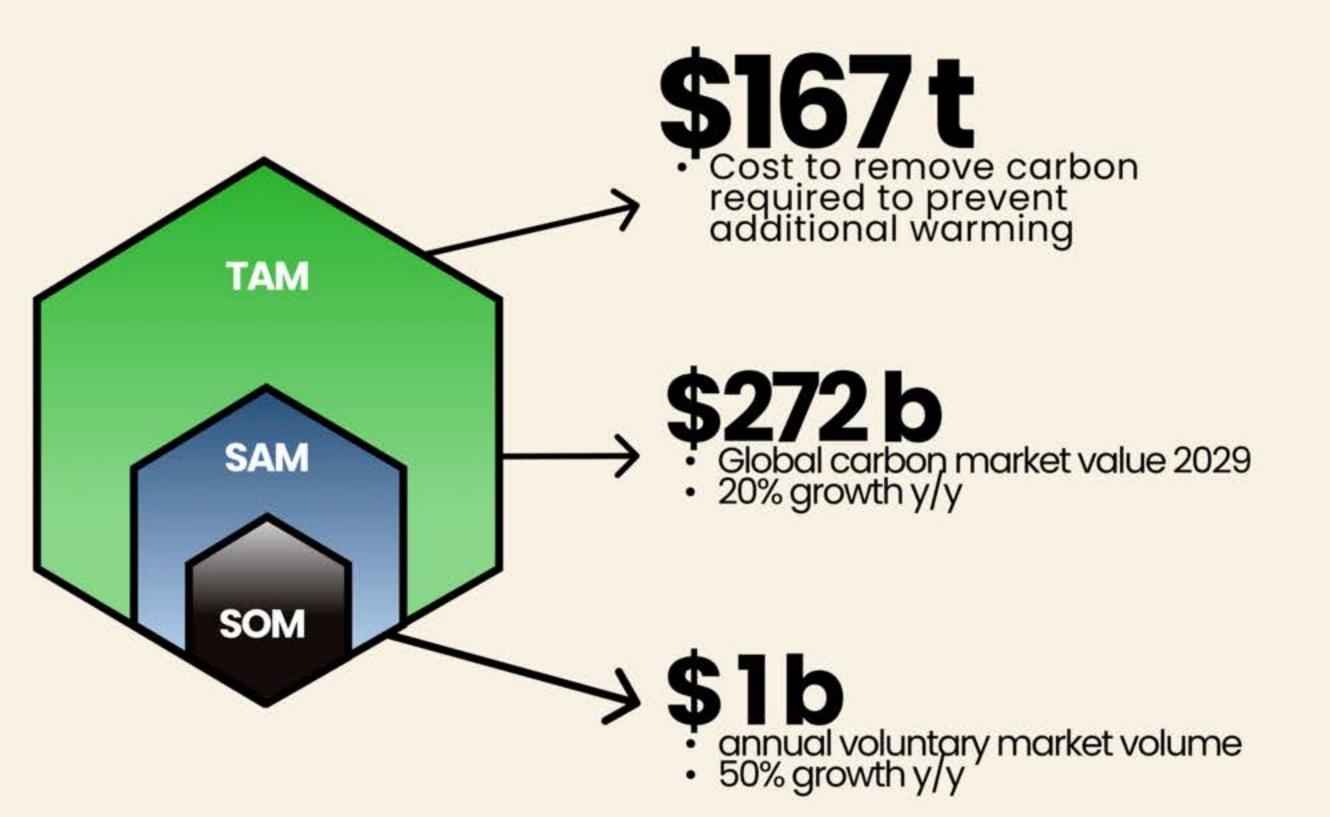


Mālama Labs is building a scalable, robust, and verifiable durable carbon credit platform

- Streamlines offset verification
- Develops practical carbon capture projects
- Integrates with existing business operations
- Advanced biochar production and application methods
- Comprehensive carbon drawdown measurement
- Blockchain-based verification system
- Local community engagement and economic benefits

Key Benefits

- Trusted carbon removal
 Biochar is one of the safest, most
 durable & fastest ways to draw
 down carbon
- Permanence of 100+ years
 Biochar provides guaranteed
 carbon sequestration for 100+ years
 with virtually no risk of reversal
- Positive impact beyond carbon
 12 out of the 17 UN Sustainable
 Development Goals



100X demand growth by 2050

\$250 ton c02e target price biochar permanent storage with co-benefits and local retirement



biochar



Global biochar market reached \$1.5B in 2023

- Projected CAGR of 15.2% (2024–2030)
- Expected market size of \$4.3B by 2030
- US agricultural biochar demand growing at 17.3% annually
- Hawaii's potential for 500,000 tonnes annual biochar production

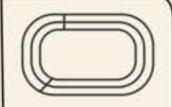
Buyers

Sellers

Agriculture /
Farmers / Government /
Lanowners

Producers / Reactors

Tokenization + MRV Technology



Digital MRV market size: \$1.2B (2023)

- Expected growth to \$5.8B by 2028
- 45% adoption rate among carbon projects
- 85% cost reduction potential vs. traditional verification
- Integration with IoT growing at 34% CAGR

Buyers

New Project Developers

Empowered by simplified, cost-efficient, and fasttracked project initiation.

Market Participants

Accessing accurate data to reduce complexities and enhance decision-making efficiency.

Sellers

Project Developers

Offering verified data for streamlined operations and compliance.

Project Finance Providers

Delivering transparent metrics to de-risk investments.

Traders

:Ensuring reliable, verified credits for market transactions.

carbon credits



Voluntary carbon market value: \$2.1B (2023)

- Projected growth to \$75B by 2030 (Morgan Stanley)
- Ave biochar price \$131/metric ton
- Premium regional, durable biochar credits are trading at over \$400
- 92% of Fortune 500 companies have net-zero commitments
- Nature-based solutions command 66% premium over other credits

Buyers

private companies, NGOs, governments, universities, and individuals

Sellers

Project Developers, Marketplaces. Brokers and Agents





Unique Market Position

Malama Labs stands alone in delivering the first comprehensive regional carbon marketplace solution.

Our platform uniquely combines:

- ✓ Only player offering complete regional carbon market infrastructure
- ✓ Industry-leading producer returns (80%+ vs. industry 20-40%)
- √Fastest speed to credit issuance (days vs. months)
- ✓ Full technology integration (biochar production → credit trading)

Capability/Feature	Malama Labs	NCX	Nori	Carbonfuture	Charm	Pacific Biochar	CAR	Puro.earth
Regional Focus	1	×	×	×	×	7	×	×
Multi-Technology	1	×	1	×	1	X	1	1
Automated MRV	V	1	1	1	×	×	×	1
Blockchain Integration	~	1	1	~	×	×	×	1
Community Governance	1	×	×	×	×	1	×	×
ocal Market Creation	1	×	×	×	×	×	X	×
Production Integration	V	×	×	×	1	V	×	×
Speed to Credit	V	×	1	~	×	×	×	×
Producer Returns	V	×	/	V	×	✓	X	/
Real-time Price Discovery	1	×	1	/	×	×	×	1

OUR USP

- First Mover: Only end-to-end solution built for Hawaii's 2040 carbon neutrality mandate
- Technology: Integrated MRV, blockchain, and Al automation
- Community: Deep local relationships and built-in governance
- · Scalability: Proven blueprint for regional market expansion

biochar



Production capacity: 50,000

tonnes/year by y3

Carbon content: >85%

Surface area: >300 m²/g

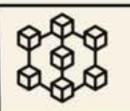
weight

Water holding capacity: 6x

Pricing \$90 - \$220 per cubic yard



carbon credits



- Credit price: \$250-350/ tonne
- Verification time: Instant
- Additionally rating: 95%
- Permanence guarantee:
 1000+ years
- Real-time monitoring: 15min intervals



Blockchain verified chain of custody

Malam Token / Hawaii Durable Carbon Market / dMRV



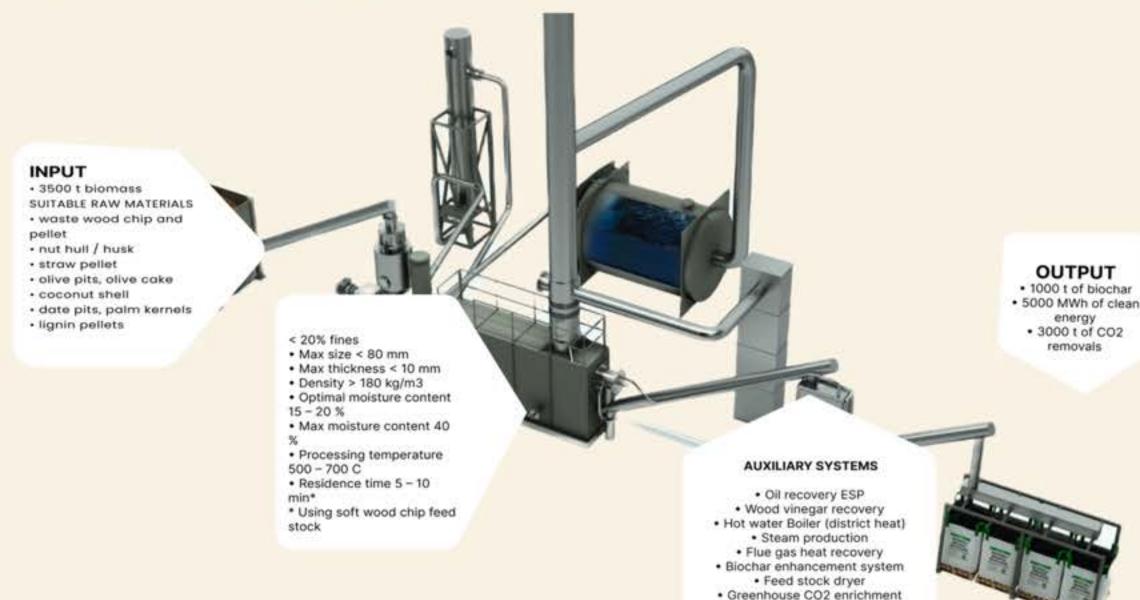
Digital Platform

- Processing capacity: 1M transactions/day
- API integrations
- Mobile app
- Verification accuracy: >99.9%
- Average transaction time: <3 seconds
- Customer onboarding time:
 <24 hours

The Science

Biochar harnesses nature's carbon cycle through innovative technology:

- Natural Process:
 - Biomass captures CO2 through photosynthesis
- Technical Innovation:
 - Pyrolysis transforms biomass into stable biochar
- Durable Storage:
 - Creates long-term carbon storage in a stable form



Market Leadership

BCR dominates the 87% of CDR Market:

- Delivered 52,000 tonnes of verified removal in 2022
- industry average of \$388/tonneVerified Quality

Scaling Potential

- BCR offers immediate and significant impact:
 Annual Potential: 0.44–2.62 Gt CO2 removal capacity
 Portfolio Impact: Up to 35% of total CDR needs
 Ready Now: Immediately deployable at scale
 Verified Impact: Third-party certified and traceable





Re-imagine Environmental Value

- Transform physical assets (like biochar) into digital tokens.
- Enable real-time verification and trading.
- Democratize access to carbon markets.
- Create transparent, efficient marketplaces.

Case Study: Maui Biochar Lab

- Physical Asset: 2,000 tons/year biochar, 6,000 tons CO2e sequestered.
- Digital Twin: Real-time monitored carbon credits, communityowned.

Technical Innovation

- IoT: Continuous monitoring & verification.
- Digital: Smart contracts for automated compliance.
- Market: Dynamic pricing and automated trading.

Market Transformation

from Traditional to Tokenized

Before:

- Manual verification taking months
- Fragmented record-keeping
- High transaction costs
- Limited market access
- Questionable permanence
- Delayed settlements

After:

- Real-time verification
- Immutable tracking
- Minimal transaction costs
- Global accessibility
- Guaranteed permanence
- Instant settlement



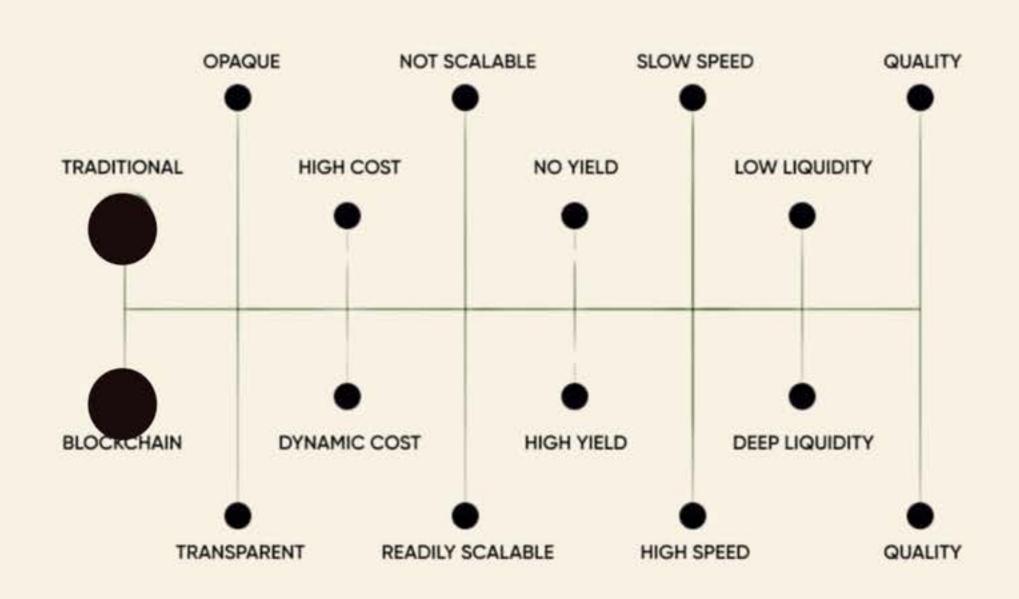


Real-World Asset Tokenization

• New Opportunities: Tokenized carbon credits + cobenefits

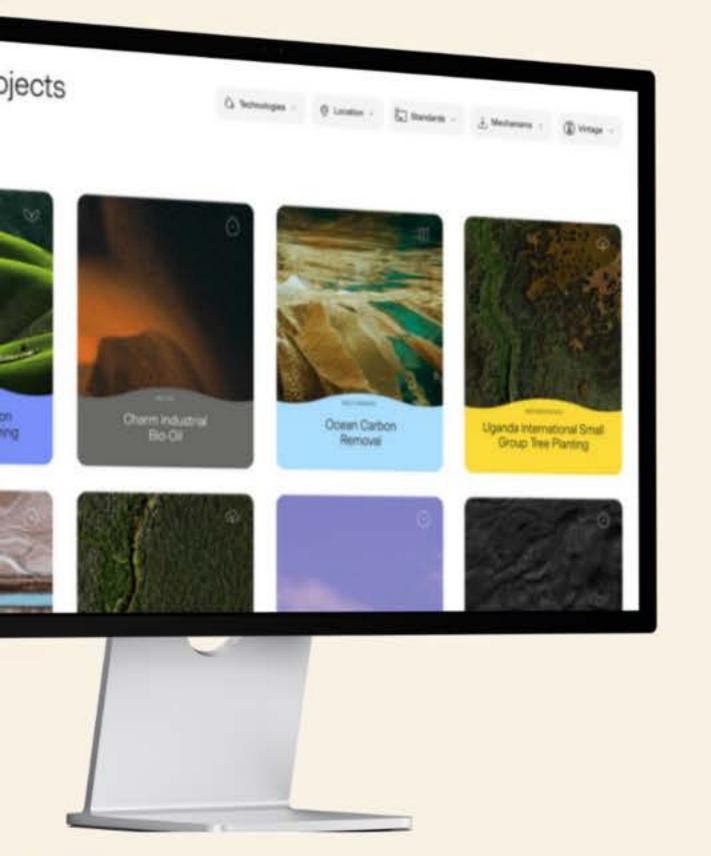
Global Market Access:
 Seamless cross-border trading.

• Liquidity & Inclusivity: Broader participant access.



Hawaii durable carbon market A regional registry and marketplace - purpose built for Hawaii





Hawaii's First Regional Carbon Marketplace

A purpose-built registry connecting local carbon removal projects with global markets while maintaining Hawaii's unique environmental and cultural values.

Key features:

- Streamlined verification for
- Hawaii-specific projects

 Integration with international carbon standards
- Focus on durable carbon removal methods
- Support for indigenous and community-led initiatives



Registry Functionality

Transparent credit tracking through DLT Verification via MRV protocols State emission reporting



Trading Platform

Automated Credit Matching Local Credit and Retirement Automation Standards Body Integration



Credit Regs

Focus on Supporting Hawaii's Mandate 2025 - 8m credits

2030 - 14M credits



Al, machine learning, satellite imagery, blockchain, smart Physical Asset sensors, the internet of things (IoT), cloud computing, and drones in IoT Network MRV systems can fully or partially automate data collection, **ML Processing** AI/ML Analysis & Digital Token Creation Decentralized Marketplace Community Benefit Verification recording, and processing for reporting and verification, which Digital Token are conducted manually in a conventional MRV. **Smart Contracts** Data Capture Temperature Sensor s/kilns Market Integration **Biochar Production Site** Mass Sensor Healthy Crops

Maui Lab Project

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Blueprint for Scalable Environmental Innovation

Our combined holdings between our two initial biomass suppliers represent landscape-scale opportunity for innovation.

With 1,255.35 acres supporting 75,321 macadamia trees – we're building a model for regenerative agriculture that could reshape Hawaii's agricultural future.

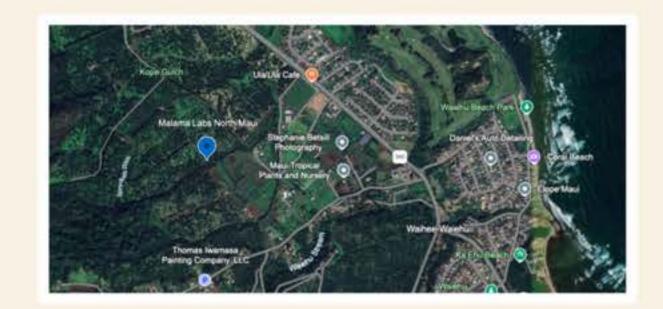
The Biomass Opportunity

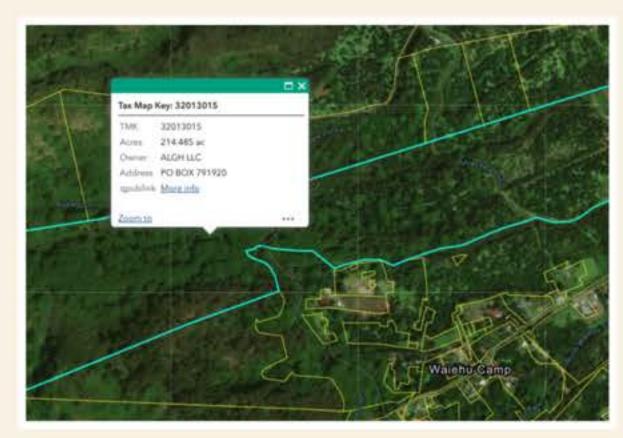
Our operation generates 4,595 tons of biomass annually.

- 2,260 tons of husk waste: traditionally seen as a disposal challenge, now a cornerstone resource
- 829 tons of shell waste: dense, carbon-rich material perfect for pyrolysis
- 1,506 tons of pruning waste: annual renewable biomass stream

Through advanced pyrolysis technology, we can transform this "waste" into 1,378 tons of biochar annually.

This process doesn't just eliminate waste – it actively sequesters 1,172 tons of CO2 equivalent, positioning our project as a vital contributor to Hawaii's climate goals.









Malama Labs bridges Hawaii's unique environmental challenges with global carbon markets through our innovative marketplace.

By focusing on local projects like biochar production from macadamia waste and invasive species removal, we create measurable impact within our islands while meeting rigorous international standards.

Our blockchain-based platform and created from best practices across 12 global standards including Puro certification ensure transparency and credibility, making Hawaiian carbon crédits accessible to worldwide buyers seeking high-quality, verified carbon removal solutions.

Digital MRV System: Automating credit verification and registration

Cardano Blockchain Integration:

- Immutable transaction ledger
- Smart contract automation
- Cross-border market enablement

Al-Powered Optimization:

- Production efficiency enhancement
- Market dynamics optimization
 Predictive analytics for scaling





EXAMPLE

Expected Returns (5-Year Exit): (\$2.5M SAFE ROUND)

Initial ownership: 17.2%

Conservative Case (\$200M valuation):

Return: \$17.2M

Multiple: 7.2x

• IRR: 48%

Base Case (\$350M valuation):

Return: \$45M

Multiple: 18x

• IRR: 78%

Optimistic Case (\$500M valuation):

Return: \$90M

Multiple: 36x

IRR: 105%

SCENARIO ANALYSIS ASSUMPTIONS FOR ROI CALCULATION

- \$200M Valuation (Conservative)
 Revenue: \$20M (Y5) from carbon credit sales and biochar
- 10x revenue multiple, standard for carbon/climate marketplaces
 Key metrics: 14M credits needed by 2030 in Hawaii
- Comparable: NCX at \$180M (2023)

\$350M Valuation (Base Case)

- Revenue: \$35M (Y5) with expanded market reach
- 10x multiple justified by:
- First mover in Hawaii carbon registry
- Blockchain tech premium
- Puro certification advantage
- Regional expansion potential
- Comparable: Pachama \$370M (2023)

\$500M Valuation (Optimistic) Revenue: \$50M (Y5) with full market penetration

- 10x multiple supported by:
 Hawaii carbon neutrality mandate
 Projected credit demand growth (21.5M by 2040)
 Tech platform licensing opportunities
 Global market access

- Comparable: Sylvera \$500M (2024)

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our progress to date

- Secured initial pyrolysis unit for biochar production
 Developed comprehensive Digital MRV system
 Advanced development of Hawaii Carbon Market platform
- Established key regional partnerships
 Initiated discussions with potential expansion regions

next

- puro LCA finalization
 puro approval for credit pre-sale
 open North Maui Lab
 create batched tokens and biochar for testing and measurement with validation of methods
- perform biomass feedstock review and analysis albysian vs. macademia nut
 finalazation of stakeholder engagement
 sell first carbon credits from Hawaii Durable Carbon
- Marketplace

ecosystem partners











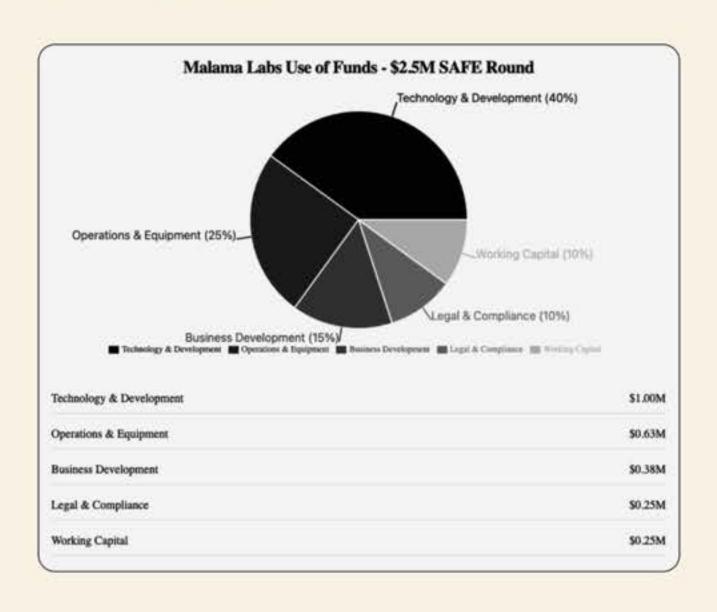


Inception Program



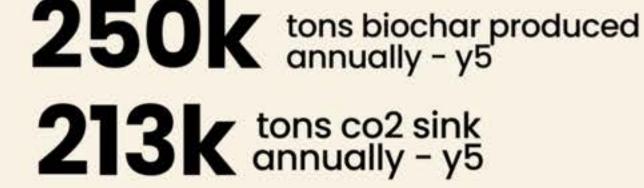
Malama Labs is raising an initial \$1.2 up to \$4m in Funding via a \$20m post-money valuation cap SAFE Note.

use of funds



anticipated returns

anticipated impact



co-benefits



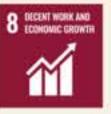














THANK YOU FOR YOUR INTEREST IN OUR PROJECT FOR FULL ROUND DOCUMENT ACCESS PLEASE REACH OUT TO JEFFREY@MALAMAPROJECT.ORG

mahalo and aloha