Manaia Whitepaper



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Abstract

Manaia Global LLC ("Manaia") is pioneering a transformative approach to bridge the critical funding gap that plagues small and medium enterprises (SMEs), particularly during the vulnerable "valley of death"- the period between initial seed funding and achieving financial self-sufficiency. This stage often plays a critical role in determining the success or failure of promising ventures, especially in high-impact sectors such as clean energy and decarbonization, where traditional financing mechanisms fall short due to high risk and low liquidity.

To address this challenge, Manaia introduces CO2, a utility token designed to revolutionize SME funding through blockchain-powered transparency, security, and efficiency. The CO2 token serves as the foundation for a decentralized funding ecosystem, offering investors a liquid and inclusive alternative to conventional investment avenues. By tokenizing investment opportunities, Manaia improves access to initial capital for early-stage companies while allowing investors to support initiatives that have higher potential and sustainability.

Manaia's platform is designed to align with SEC exemptions, requirements, and regulatory frameworks, enabling the compliant launch of SME funding through utility token ICOs and IEOs. This approach ensures legal integrity while expanding investor access to vetted opportunities. Manaia specifically focuses on the early-stage development and financing of decarbonization and transition fuel/energy projects crucial to combating climate change and driving innovation.

Manaia will deploy capital to accelerate early-stage development and support impactful projects through an upcoming \$5 million public raise via platforms like Republic and various ICO launchpads. With CO2 at its core, Manaia delivers a dual benefit: enabling seamless, peer-to-peer funding while fostering economic growth and environmental progress. The token not only democratizes access to investment opportunities but also helps build a more resilient and future-ready global economy.

Disclaimer

This Whitepaper has been prepared solely for informational purposes and does not constitute financial, investment, legal, or any other form of professional advice. The information presented herein is subject to change without prior notice and may not be exhaustive, complete, or up to date. The CO2 utility token ("Token") described in this Whitepaper is a digital asset and involves inherent risks, including but not limited to market volatility, regulatory changes, project delays, and technological vulnerabilities.

Participation in the Token offering or any associated activities involves a high degree of risk. Potential participants and investors are advised to conduct their own due diligence, seek independent legal, financial, and tax advice, and fully understand the risks before making any decisions related to the Token or the Manaia platform.

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This Whitepaper does not constitute an offer to sell, or the solicitation of an offer to buy, any securities, and nothing contained herein should be construed as a recommendation or endorsement of any investment strategy. The CO2 Token and the Manaia platform are subject to laws and regulations in various jurisdictions, and participation may not be allowed in certain regions.

By accessing or reading this Whitepaper, you acknowledge and agree to the above disclaimers and confirm that you understand and accept the risks associated with digital tokens and blockchain-based platforms.

Introduction

Background

Manaia Global LLC is a pioneering blockchain-based platform focused on solving one of the most pressing challenges in the startup ecosystem- bridging the funding gap for small and medium enterprises (SMEs) during their most vulnerable stage, often referred to as the "valley of death." This critical phase, where traditional financing is limited and risk is high, prevents many promising ventures, especially in clean energy and sustainability, from reaching their full potential. Manaia leverages the power of blockchain and tokenization to provide an inclusive, transparent, and efficient funding mechanism through its utility token, CO2. By connecting investors directly with high-impact projects, Manaia aims to fuel innovation, drive economic growth, and accelerate progress in essential sectors shaping a sustainable future.

The global market for crypto utility tokens, especially concerning decarbonization projects, is projected to undergo substantial growth in the next five years. Analysts predict that the market could rise from approximately USD 31.18 billion in 2025 to around USD 393.42 billion by 2032, reflecting an impressive compound annual growth rate (CAGR) of 43.6%. Factors contributing to this growth include increasing corporate and governmental focus on sustainability and carbon reduction, which is driving investments in innovative blockchain-based solutions. Crypto utility tokens are being used to facilitate transactions related to carbon credits, incentivize environmentally friendly practices, and support renewable energy initiatives. Enhanced regulatory frameworks and the expansion of decentralized finance (DeFi) are expected to improve the credibility and functionality of these tokens in decarbonization efforts. The market will likely benefit from the integration of cryptocurrency with traditional financial systems, particularly as industries strive to meet environmental objectives. Overall, the next five years are set to redefine the crypto utility token market within decarbonization sectors, merging technological advancements with growing environmental priorities and leading to innovative investment opportunities.

The global blockchain in energy market, valued at approximately USD 3.1 billion in 2024, is expected to witness substantial growth over the next five years. Projections indicate that this market could reach around USD 103.4 billion by 2029, driven largely by the increasing emphasis on sustainability and decarbonization initiatives. Crypto utility tokens play a crucial role in decarbonization projects as they facilitate the efficient tracking and trading of carbon credits, enable financing for clean energy initiatives, and support decentralized energy markets. With the rising adoption of blockchain technologies in various sectors, including renewable energy, regulatory support, and growing environmental concerns, the demand for such tokens is likely to escalate. Additionally, innovative projects utilizing blockchain for smart contracts, peer-to-peer energy trading, and decentralized finance (DeFi) applications related to environmental sustainability will contribute to the growth of the crypto utility token market. As the world aims to meet stricter carbon reduction targets and switch to clean energy sources, the integration of blockchain and crypto solutions in decarbonization efforts is expected to accelerate, leading to a robust market landscape by 2029.

This bullish environment is accompanied by renewed optimism in altcoins and stablecoins, shaped by macroeconomic trends and upcoming network events. After a brief Q1 2025 pullback due to trade tariffs and uncertainty, Bitcoin stabilized in Q2 and is positioning itself for further gains thanks to institutional interest, spot Bitcoin ETFs, and the April 2024 halving event. Analysts now predict that the halving-driven supply constraints may prompt an altcoin rally throughout 2025 as capital flows diversify across emerging blockchain projects.

Sources:

https://www.forbes.com/sites/digital-assets/article/the-crypto-market-in-2025-crypto-demandtrends/

https://www.reuters.com/sustainability/boards-policy-regulation/crypto-funds-assets-hit-recor d-high-investors-hedge-diversify-2025-06-09/

https://www.gate.com/blog/8288/Crypto-Price-Prediction--2025-Market-Trends-and-AI-Driven -Forecasting

https://www.globenewswire.com/news-release/2025/01/22/3013507/0/en/Blockchain-in-Energy-Market-Opportunities-and-Challenges-Ahead-Exactitude-Consultancy.html

The Problem - The Funding Gap

Small and medium enterprises (SMEs) frequently encounter significant challenges when attempting to secure funding, particularly during the critical phase known as the "valley of death." This period marks the gap between initial seed capital and the point at which a business becomes financially self-sustaining. Bridging this gap is often difficult due to a combination of structural, financial, and market-related barriers. Below are the key issues that contribute to this persistent funding challenge:

1. Critical "Valley of Death" Phase

Many SMEs fail to progress beyond early development due to a lack of capital during the crucial period between seed funding and self-sustainability, often referred to as the "valley of death."

2. High Risk Perception by Investors

SMEs are seen as high-risk due to their limited operating history, unproven business models, and uncertain market demand, discouraging both institutional and individual investors.

3. Lack of Collateral and Financial History

Most SMEs do not possess significant physical assets or established financial records, making them ineligible for traditional loans and unattractive to conventional funding sources.

4. Complex and Fragmented Funding Process

Navigating the investment landscape can be time-consuming and resource-intensive for small businesses, often requiring expertise and connections they do not have.

5. Underserved in the Clean Energy Sector

Despite surging investment in large-scale green infrastructure, SMEs working on energy transition and decarbonization receive disproportionately low funding, stifling innovation in critical climate solutions.

6. Investment Scale Misalignment

Institutional investors tend to favor larger, more scalable deals, leaving a funding void for smaller, high-impact projects that need only modest capital to grow.

7. Technical and Regulatory Challenges

Clean energy SMEs face long development timelines, technical uncertainty, and shifting regulatory frameworks, deterring investors seeking quicker returns or more predictable outcomes.

8. Barrier to Climate Innovation

Without access to sufficient funding, many SMEs developing novel energy storage, carbon capture, and other decarbonization technologies struggle to move from concept to commercialization.

9. Limited Access to Strategic Networks

Unlike large corporations, SMEs often lack connections to key investors, grant agencies, and policy influencers that could support their growth.

10. Missed Opportunity for Global Impact

The inability to fund SMEs effectively not only hampers their success but also delays scalable solutions necessary to meet global sustainability and climate goals.

Manaia's Solution - Tokenization

Solving the Funding Gap through Tokenization: The Manaia Approach!

To address the critical funding challenges faced by SMEs, Manaia leverages the power of blockchain technology and decentralized finance. The platform introduces a suite of innovative tools and mechanisms designed to improve access to capital, enhance transparency, reduce costs, and promote sustainable growth. Below are the key features that empower Manaia to bridge the funding gap and support the success of small and medium enterprises.

• Tokenization of Assets

Manaia enables SMEs to tokenize parts of their assets or project value, allowing direct global investment from a diverse range of investors without relying on traditional collateral-based loans.

• Initial Coin Offerings (ICOs) and Token Sales

The platform facilitates token sales across multiple ICO launchpads and crowdfunding platforms, offering SMEs new avenues to raise capital efficiently and transparently.

• Decentralized Finance (DeFi)

Manaia leverages DeFi protocols to open up alternative, borderless financing channels that bypass traditional banking systems, making funding more accessible and democratized.

• Smart Contracts for Transparency and Efficiency

Using Ethereum-based smart contracts, Manaia ensures that funding agreements and disbursements are automated, transparent, and trustless, reducing paperwork and fraud risks.

• Liquidity Pools

By allowing tokens to participate in liquidity pools, Manaia ensures that SME-related tokens remain tradeable, increasing investor confidence and market participation.

• Lower Transaction Costs & Intermediary Fees

Blockchain eliminates multiple middlemen, resulting in lower fees and faster transactions, making it cost-effective for both SMEs and investors.

• Enhanced Community Engagement

CO2 utility tokens encourage a vibrant ecosystem where users, investors, and project teams are incentivized to engage, contribute, and grow together.

• Immutable Records & Auditability

All transactions and token-related activity are permanently recorded on-chain, ensuring accountability, audit readiness, and trust among stakeholders.

Green Tokens and Environmental Certifications

Manaia supports environmentally focused projects by integrating CO2 tokens with verifiable green standards, aligning token utility with sustainability and ESG goals.

Company Overview

Vision

To become the leading decentralized funding platform that empowers small and medium enterprises (SMEs) to drive global innovation, economic inclusion, and sustainable development, bridging the funding gap and accelerating the transition to a low-carbon future.

Mission

Manaia's mission is to democratize early-stage capital access for SMEs by leveraging blockchain technology, tokenization, and decentralized finance. We aim to support impactful decarbonization and clean energy projects by providing a compliant, transparent, and efficient funding ecosystem that connects visionary entrepreneurs with global investors.

Manaia Platform

Manaia Business Model

Manaia operates on a utility token-driven investment model designed to support energy transition and decarbonization projects, particularly for SMEs. The process flows through the following steps:

• Minting Utility Tokens

Manaia initiates the process by minting its proprietary utility tokens.

• Token Sale & Compliance

These utility tokens are then sold and traded on the Manaia Crypto Platform. This process follows SEC-compliant Private Placement Memorandum (PPM) standards, utilizing financial exemptions and broker-dealer networks to ensure legal and efficient distribution.

Capital Distribution

The cash proceeds from token sales, after deducting operational costs, are distributed to Manaia.

• Strategic Investment

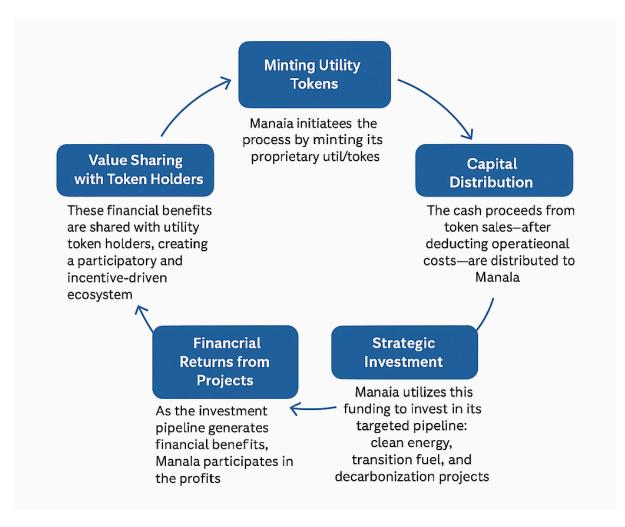
Manaia utilizes this funding to invest in its targeted pipeline: clean energy, transition fuel, and decarbonization projects.

• Financial Returns from Projects

As the investment pipeline generates financial benefits, Manaia participates in the profits.

• Value Sharing with Token Holders

These financial benefits are shared with utility token holders, creating a participatory and incentive-driven ecosystem.



Manaia Crypto Platform

Utility Token Flow:

- Utility Token Investors/Holders contribute funds to the Republic Crowdfunding Platform.
- In return, they receive Utility Tokens.
- These tokens are then used on the Manaia Crypto Trading Platform.
- Funds raised are allocated to project funding and platform development.
- Manaia invests in early-stage decarbonization and transition energy projects through Manaia Global LLC.
- Financial benefits from these projects are shared back with the token holders.

Republic Crowdfunding/ ICO Platform:

Key Features:

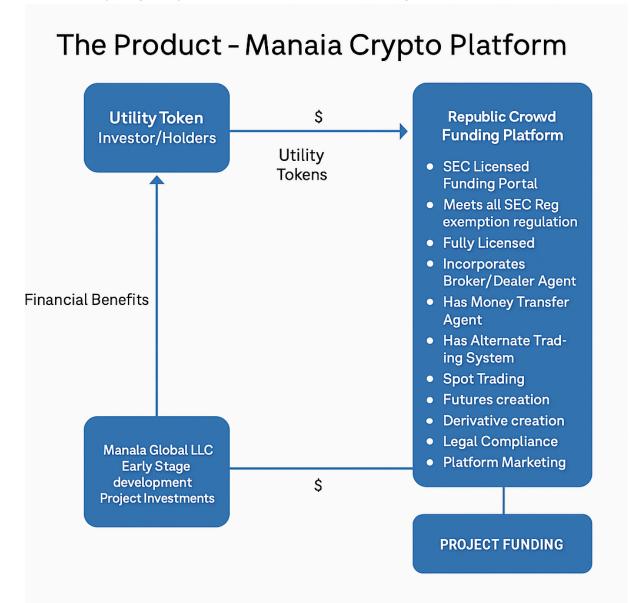
- SEC-licensed funding portal
- Compliant with all SEC Regulation CF exemption rules
- Fully licensed with broker/dealer incorporation
- Includes Money Transfer Agent
- Offers an Alternate Trading System (ATS)

Manaia Crypto Trading Platform

- Use of Funds:
- Platform development
- Blockchain integration
- ICO/IEO capabilities
- Asset creation and tokenization
- Spot and futures trading
- Derivatives creation
- Legal compliance
- Marketing

Manaia Global LLC

Handles early-stage project development investments using the funds collected.



CO2 Token

Concept

Manaia's CO2 token is a purpose-built utility token aimed at transforming how early-stage, sustainability-focused SMEs secure funding. Targeting the critical "valley of death" phase-where startups often struggle to bridge the gap between seed capital and self-sufficiency CO2 token provides a blockchain-powered solution that enhances transparency, liquidity, and investor confidence. By tokenizing investment opportunities, Manaia opens up a decentralized ecosystem where individuals can back clean energy and decarbonization projects with measurable impact. This innovative approach not only democratizes access to sustainable finance but also aligns investor returns with meaningful contributions to global climate goals.

• Token Specification

Token Name: CO2 Token Ticker: CO2 Token Role: Utility Blockchain Standard: Ethereum (ERC-20) ICO Price: \$0.10 Total Supply: 1,000,000,000 (1 Billion)

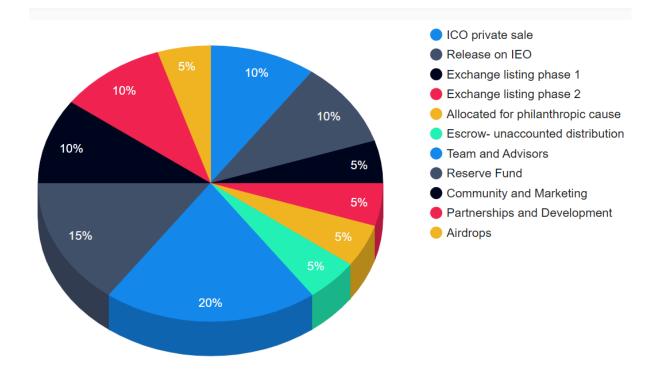
• Token Distribution

Token Distribution	% of Token
Token Sale During ICO:	40%
Team and Advisors:	20%
Reserve Fund:	15%
Community and Marketing:	10%
Partnerships and Ecosystem Development	10%
Airdrops	5%

Tokenomics

Token Distribution		% of Token
ICO Phase		40%
	ICO private sale	10%
	Release on IEO	10%
	Exchange listing phase 1	5%
	Exchange listing phase 2	5%
	Allocated for philanthropic cause	5%
	Escrow- unaccounted distribution	5%
Team and Advisors		20%
Reserve Fund		15%
Community and Marketing		10%
Partnerships and Development:		10%
Airdrops		5%

Token Distribution



CO2 Token Applications

The CO2 token is central to Manaia's mission of accelerating clean energy and decarbonization efforts by enabling new forms of sustainable finance. Its applications span several impactful areas:

1. Decentralized SME Funding

CO2 tokens provide a novel way for small and medium enterprises (SMEs) in the clean energy and sustainability sectors to access much-needed capital during their most vulnerable early stages. Tokenizing investment opportunities allows for greater liquidity and inclusivity, opening up participation to a global pool of investors.

2. Transparent Investment Ecosystem

Built on blockchain, CO2 tokens ensure a secure, auditable, and tamper-proof record of investments. This transparency builds trust among stakeholders while enabling real-time tracking of how funds are allocated and used across decarbonization projects.

3. Impact-Linked Financing

Each CO2 token is tied to high-impact initiatives aimed at reducing carbon emissions and promoting energy transition. This linkage allows investors to align financial goals with

climate-conscious outcomes, making environmental progress a tangible part of the investment process.

4. Liquidity and Accessibility

Unlike traditional venture capital, CO2 tokens offer a liquid asset that can be traded on Manaia's crypto platform. This democratizes access to climate-focused investing, empowering a broader audience, including retail investors, to support the green economy.

5. Incentivizing Sustainability

CO2 tokens can be integrated into reward mechanisms, staking models, or partnerships with green enterprises, encouraging ongoing participation and reinforcing positive climate actions.

6. Compliance and Governance

Through smart contracts and programmable logic, CO2 tokens can be used to enforce compliance standards, distribute funds based on project milestones, and ensure responsible governance throughout the lifecycle of an investment.

Market Research

Target Audience

- **Primary Audience:** Impact investors, climate-conscious individuals, and institutional investors seeking sustainable opportunities.
- **Secondary Audience:** Clean energy startups, SMEs in decarbonization, ESG-focused funds, and green tech accelerators.
- **Geographic Focus:** Initially targeting regions with strong sustainability mandates-such as the EU, North America, and Southeast Asia-before scaling globally.

SWOT Analysis

Strengths:

- Unique utility token model for SME funding
- Blockchain-based transparency and traceability
- Strong alignment with global sustainability goals

Weaknesses:

- Dependence on regulatory clarity for crypto-based financial products
- Market education is required for non-crypto users

Opportunities:

- Growing global demand for ESG and sustainable investment vehicles
- Expanding carbon markets and green financing incentives
- Strategic partnerships with climate-focused organizations

Threats:

- Regulatory uncertainty in crypto and tokenized assets
- Competitive landscape with emerging green tokens and platforms

Market Competition

- Competing with traditional venture capital and crowdfunding platforms in the climate-tech space.
- Emerging blockchain-based sustainability platforms pose indirect competition.
- Manaia's differentiator lies in its exclusive focus on early-stage clean energy SMEs and its utility token model designed for liquidity, compliance, and impact.

Marketing and Sales Strategy

- Awareness Building: Leverage thought leadership, sustainability forums, and content marketing focused on ESG and green finance.
- **Community Engagement:** Build a robust investor and project community through AMAs, webinars, and staking incentives.
- **Partnerships:** Collaborate with clean tech incubators, green funds, and policy-driven institutions.
- **Sales Strategy:** Direct outreach to early-stage SMEs while onboarding investors via token sale campaigns, exchange listings, and affiliate programs.

Exchange Listing

The CO2 Token by Manaia will set to be listed on top-tier crypto exchanges, including Manaia's trading platform, PayBitoPro, and other leading global exchanges. This strategic listing marks a significant milestone in expanding access to a token designed to fund climate action and sustainable projects. Through exchange listings, the CO2 Token will reach a broader audience and establish itself as a credible and valuable digital asset in the global carbon economy.

Benefits of Exchange Listing:

• Improves Credibility

Being listed on reputable exchanges boosts the trust and credibility of the CO2 Token, helping it gain recognition among investors and the crypto community.

Increases Liquidity

Listings on multiple exchanges enhance the token's liquidity, making it easier for users to buy, sell, or trade CO2 Tokens seamlessly.

• Expands Reach and Visibility

Exchange listings significantly improve the token's visibility, attracting a diverse pool of investors and contributors who support sustainable development goals.

By making the CO2 Token available on major trading platforms, Manaia is taking a crucial step toward empowering environmental finance through blockchain technology.

Roadmap

Manaia is committed to building a robust ecosystem that supports green energy firms and sustainable finance through blockchain. Our phased roadmap outlines the strategic development of the CO2 Token and supporting infrastructure to ensure long-term impact, liquidity, and adoption.

Phase 1: Foundation & Awareness

Key Milestones:

- Whitepaper Publication
- Tokenomics Finalization
- CO2 Token Creation (ERC-20 Smart Contract)

Objective:

Establish Manaia's value proposition with a persuasive, investor-ready whitepaper and a technically sound token model designed for sustainability-focused businesses.

Key Actions:

- An authoritative whitepaper reflecting our mission and Reg CF/C pricing structure
- Tokenomics design, including allocation, utility, inflation control, staking, and governance
- Development of ERC-20 smart contracts with mint/burn functionality and automated distribution tailored to green energy projects

Marketing Launch:

- Full-stack marketing setup, including SEO (on-page/off-page), social media branding, PR strategy, paid campaigns, and investor-targeted content
- Led by a senior team including marketing strategists, content writers, and motion graphics experts

Phase 2: Infrastructure & Fundraising

Exchange Launch (Spot Trading):

- **Objective:** Enable liquidity and usability for the CO2 Token and other climate-focused tokens.
- Action: Deploy Manaia's white-label exchange with integrated Spot trading, KYC, admin/client dashboards, and reporting tools.

Blockchain Integration (HC NET):

- **Objective:** Establish a reliable Layer-1 backbone for all project transactions.
- Action: Implement HC NET a secure, scalable, and interoperable blockchain with low fees, fast settlement, and built-in compliance.

ICO Launchpad:

- **Objective:** Power tokenized climate projects with a seamless fundraising experience.
- Action: Launch a fully compliant ICO platform including investor dashboard, smart contracts, KYC/AML tools, escrow wallet integration, campaign analytics, and Reg CF/C tier support optimized for raising capital via platforms like Republic.

Phase 3: Scale & Optimization

Enhanced Features & Pricing Architecture

Objective: Offer a comprehensive suite of tools and documentation to support growth, investor confidence, and due diligence.

Action:

- Deliver end-to-end fundraising readiness for major crowdfunding platforms
- Ensure compliance, transparency, and scalability for all stakeholders
- Expand features across the Manaia ecosystem to support ongoing token utility and marketplace engagement

Meet Our Team



Eric Hanson Chief Executive Officer, Manaia LLC

Eric A. Hanson is an accomplished executive with over three decades of leadership across renewable energy, international trade, telecommunications, and fintech. He is currently CEO of Manaia, LLC, where he leads strategic efforts in climate change mitigation through carbon sequestration and the development of the CO2coin utility token.

Previously, Eric served as CEO of Coeur d'Alene Fiber Fuel, transforming it into one of North America's top wood pellet fuel producers. His diverse career includes founding Vend-Tel-Co, managing industrial projects in Asia, and contributing to real estate crowdfunding through CFEX. He holds a degree in Computer Information Systems from Colorado State University, with a minor in Econometrics.



Glenn Smith, CEO of Verto Management LLC

Glenn Smith is a seasoned executive with over 30 years of international experience in institutional investment, asset management, infrastructure, and energy sectors across the U.S. and U.K. He has held senior leadership roles spanning operational management, board governance, and public-private financing across renewable energy, waste-to-value, water infrastructure, and advanced technology industries.

Currently Chairman and CEO of Verto Management LLC, Glenn leads strategic investments in the circular economy and impact-driven infrastructure. He was previously Managing Director and President at Hancock Renewable Energy Group, where he successfully led over \$200 million in returns and spearheaded a \$500 million project pipeline. His earlier roles include CEO of FibreGen PLC, executive positions at British Gas, TXU Europe, and National Power, and key advisory and leadership roles in sustainable technology ventures.

Glenn holds a Bachelor of Engineering with Honors from the University of West England and is a Chartered Engineer (UK & Europe). He is a dual citizen of the United Kingdom and the United States.



Donald Wallace Hopps Principal at Manaia LLC

Donald Wallace Hopps is a seasoned policy expert, educator, and sustainability advocate with over five decades of experience in public policy, environmental planning, and community development. Holding a Ph.D. in Political Science from the University of Washington, he has led organizations such as the Institute for Washington's Future and served in key advisory roles with the U.S. Department of HUD, state task forces, and tribal development initiatives.

As Principal at Manaia LLC, he currently focuses on financing biochar and renewable energy projects. His past work spans from academia and government to grassroots economic and environmental initiatives, including forest restoration, tribal renewable energy planning, and biochar marketing.

Technology & Security

1. Blockchain Standard: Ethereum (ERC-20)

The CO2 Token is built on the widely adopted Ethereum blockchain, adhering to the ERC-20 token standard. This ensures compatibility with a vast ecosystem of wallets, exchanges, and decentralized applications (dApps), offering a seamless experience for users and developers alike.

By leveraging Ethereum's mature infrastructure, CO2 Token benefits from:

- Interoperability with leading DeFi platforms and services
- Transparency via public, verifiable smart contracts
- Flexibility for integration across marketplaces and green finance platforms

2. Token Role: Utility

The CO2 Token functions as a utility token, enabling access to a suite of features within the Manaia ecosystem. It facilitates participation in green projects, supports governance functions, and powers incentives for sustainable actions and carbon offset initiatives. Use cases include:

- Access to tokenized carbon credit markets
- Project participation and staking
- Incentivizing eco-friendly behaviors
- Governance voting for project-level decisions

3. Security Architecture

Manaia prioritizes enterprise-grade security at every level of the CO2 Token's lifecycle - from smart contract design to platform interaction. The following measures are implemented to ensure trust, integrity, and protection against vulnerabilities:

Smart Contract Security

- **Third-Party Audits:** Smart contracts are reviewed by independent security auditors to identify and fix vulnerabilities before deployment.
- **Formal Verification:** Logic and behavior of contracts are mathematically verified to ensure accurate performance.
- **Upgradeable Smart Contracts:** Secure proxy patterns allow for future enhancements without compromising security.

Operational & Platform Security

- **Multi-Signature Wallets:** Admin wallets require multiple approvals to execute high-value or critical transactions, preventing unilateral access.
- **Role-Based Access Control (RBAC):** Only authorized personnel can perform contract-sensitive operations, minimizing the risk of internal breaches.
- Rate Limiting and Anti-Bot Mechanisms: Protects token sale and distribution against automated attacks and transaction flooding.

Compliance & User Protection

• **KYC/AML Integration:** All participants in token sales and platform services are verified to comply with global regulations.

- **Escrow Wallets:** ICO funds and token allocations are held securely with smart contract-controlled release to ensure fairness and transparency.
- **Transaction Logging & On-Chain Analytics:** Real-time monitoring of smart contract activity helps detect anomalies and ensure auditability.

Infrastructure Safeguards

- Secure Hosting & DDoS Protection: The Manaia platform is hosted on hardened infrastructure with load balancing, SSL encryption, and 24/7 monitoring.
- **Cold & Hot Wallet Management:** The Majority of funds are stored in multi-sig cold wallets, with hot wallet limits for transactional operations.

Commitment to Ongoing Security

Manaia is committed to continuous monitoring, testing, and upgrading of all technology components. Regular audits, community bug bounty programs, and strict operational controls ensure that the CO2 Token remains a secure and reliable asset for supporting climate action.

Legal & Compliance

At Manaia, regulatory compliance is a cornerstone of our mission to drive sustainable finance through blockchain technology. We operate with a strong commitment to transparency, investor protection, and adherence to global financial regulations.

SEC (Securities and Exchange Commission)

Manaia's platform and the CO2 Token offering are fully aligned with applicable U.S. financial regulations, including those set forth by the Securities and Exchange Commission (SEC). Our fundraising activities are structured to comply with SEC guidelines, particularly under Regulation CF (Crowdfunding) and Regulation C, where applicable.

This compliance framework ensures that all token sales are conducted within the boundaries of federal securities laws, offering a transparent and legally sound investment opportunity. By adhering to these regulations, Manaia can responsibly engage both accredited and non-accredited investors, expanding access to sustainable investment opportunities in a secure and regulated environment.

Fully Licensed & Transparent Platform

Manaia operates as a fully licensed digital asset platform, ensuring that all transactions involving the CO2 Token are conducted within a secure, regulated environment. This includes:

• KYC/AML Compliance:

All users and investors undergo rigorous identity verification and anti-money laundering checks, enhancing security and legitimacy.

• Smart Contract-Based Escrow:

Token sales and fund management are facilitated via audited smart contracts with escrow functionality, offering investor protection and transparent fund release.

• Data Privacy & Reporting Standards:

Manaia adheres to data protection regulations and provides necessary financial disclosures, ensuring clarity for both regulators and participants.

Global Regulatory Outlook

As part of our global expansion strategy, Manaia is committed to ongoing regulatory engagement and cross-border compliance. Our legal and compliance teams actively monitor changes in international laws to ensure continued alignment and scalability in multiple jurisdictions.