



MOTHER VEGETABLES PROJECT

Whitpaper
Earth Regeneration Project
by the First Life Form on Earth

Version 1.0.0

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1. Executive Summary

Core Mission

The MOTHER VEGETABLES PROJECT is a revolutionary environmental regeneration initiative aimed at restoring the health of the Earth and all living beings. By deploying Mother Vegetables, the first life form on Earth from 3.5 billion years ago, across the globe, the project is building a circular system in which the more it expands, the more it improves the planet—reducing CO₂ while enhancing the health of both humanity and other organisms.

Mechanism of Regeneration

By deploying MOTHER VEGETABLES facilities worldwide, Mother Vegetables are produced and supplied to eight industrial sectors. Each facility operates 24/7, absorbing CO₂ and generating oxygen to purify the atmosphere, while the Mother Vegetables products directly enhance human and ecological health. This positive cycle drives environmental restoration and a sustainable future.

Remarkably, MOTHER VEGETABLES absorb CO₂ about 700 times more efficiently than natural grass, offering the potential to rapidly resolve global warming if deployed globally.

As the number of facilities increases, the Earth will become healthier

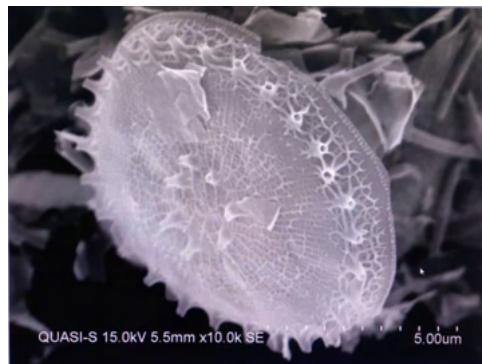
- One facility = Continuous CO₂ absorption and oxygen generation (24/7/365)
- Ten facilities = Tenfold environmental improvement effect
- One hundred facilities = Regional air quality enhancement
- One thousand facilities = Global-scale environmental regeneration



MOTHER VEGETABLES Cultivation System

Improvement of living environments for life

“Mother Vegetable,” recreated from the structure of Earth’s first life form, enables the establishment of global factories that expand into eight fields, producing superfoods, natural medicines, eco-materials, clean energy, and renewable fuels. These facilities serve as a foundation for applying life’s original blueprint to modern industry and sustainability.



The Earth’s first life form, “Mother Vegetable.”

Eight Industrial Approaches to Earth Regeneration

Pharmaceuticals: Supporting natural healing

Phycocyanin, Fucoidan, Astaxanthin, EPA/DHA: Natural therapeutic compounds; safer medicines with fewer side effects

Industrial Products: Eco-friendly manufacturing

Bioplastics, new materials: Reducing oil dependence; sustainable raw materials for zero-impact products

Aquaculture: Restoring marine environments

Water purification systems: Natural recovery of polluted waters; natural feed for chemical-free aquaculture

Agriculture: Soil regeneration

Biostimulants: Fertile soils without chemical fertilizers; soil enhancers to restore depleted land

Biomass: Clean energy

Biodiesel, bioethanol, biogas: Complete shift from fossil fuels; carbon neutral with net-zero CO₂ emissions

Energy: Sustainable future

Liquid/gaseous fuels, power generation: Stable renewable supply; regional energy independence

Food: Enhancing vitality

Spirulina and superfoods: Better nutrition, disease prevention, longer health

FMCG Sector: Revolutionizing Daily Life

Biodegradable detergents, cosmetics, and hygiene products from algae-derived ingredients: Sustainable daily essentials for eco-friendly living.

Market Position

- Global Reach: 8 countries, 70 operating facilities
- Technology Status: Proven commercial viability with autonomous 24/7/365 operations
- Integrated Systems: Incorporation of solar power and storage solutions
- Proven Data: Demonstrated stable and efficient CO₂ absorption capacity

Investment Opportunity

This project leverages an Initial Exchange Offering (IEO) mechanism and a blockchain-based NFT system, delivering transparent and measurable environmental impact while creating economic returns for token holders through a CO₂ absorption-linked reward system.

2. Core Members



Jag Kaurah

Founder & Chief Technology Officer, Algae International Berhad

Developing microalgae tech since 2006. Secured key patent WO2008105649A1 and founded Algae International Berhad in 2008. Pioneered low-cost biomass and integrated algae–vegetable cultivation.



Errol Perera

CEO, Revoganix / ASEAN Sustainable Agriculture Advisor

Mr. Perera, with 35+ years in sustainable agriculture, aquaculture, and microbiology, has advised the ASEAN Secretariat and Sri Lanka's Fisheries Minister, bringing strong regional expertise and government ties.

3. Partners & Collaborating Organizations

Government & Public Institutions



BioNexus Status Company (Malaysia)

Recognized as a special-class biotechnology company approved by the Malaysian government, securing financial incentives, legal flexibility, and institutional support to accelerate commercialization.



ASEAN (Association of Southeast Asian Nations)

Official endorsement from Indonesia in sustainable aquaculture and agriculture, contributing to ASEAN's vision of responsible, viable, and inclusive food systems across 10 member nations.



ANGKASA (Malaysia Government Agency)

We partnered with Angkatan Koperasi Kebangsaan Malaysia Berhad (ANGKASA), Malaysia's national cooperative apex body, representing 16,000 cooperatives and 7.3 million members with assets of RM159.6B and revenues of RM45.5B. As a key player in Malaysia's socio-economic development and a member of the International Cooperative Alliance, ANGKASA supports our initiative to provide sustainable, chemical-free food and to expand the project nationwide.



Invest Selangor (Government Agency)

Part of Selangor State's support ecosystem, offering efficient processes, tailored incentives, industry programs, and infrastructure access to drive project success in one of Malaysia's most dynamic economies.



NEGERI PAHANG (State Government of Pahang)

The Pahang State Committee for Investment, Industry, Science, Technology & Innovation has endorsed investment in Eden Greens to strengthen the state's agriculture sector through modern technology and methods that boost yield, efficiency, and productivity. By aligning land, capital, and networks, the committee acts as a catalyst for large-scale sustainable agriculture and supports Malaysia's national food security goals.

YTAA (Yayasan Tengku Abdul Aziz Sultan Abu Bakar)



YTAA serves as a key channel for social impact, directing subscription contributions to rural development, education initiatives, and the Pekan rice field program. Legally recognized as charitable donations, these contributions strengthen its mission of inclusive prosperity and community advancement. In addition, YTAA collaborates with ANGKASA to expand food security initiatives through the Eden Greens project, under the leadership of Tengku Hassanal Badyr Bin YAM Tengku Abdul Aziz, further reinforcing its role in sustainable regional development.

Academic & Research Institutions



University of Nottingham

Provides a 3-acre on-campus facility for Eden Greens, supported by a respected biotechnology team to advance research and development.



National University of Singapore (NUS)

The National University of Singapore partners with us in agriculture, aquaculture, biocontrol, and product development, bringing world-class expertise to ensure our initiatives are firmly grounded in cutting-edge science. Through this collaboration, we are able to accelerate the development and commercialization of sustainable solutions, with particular emphasis on advancing the Eden Greens project as a flagship model for innovation and impact in the region.



University of Malaya (UM)

"Malaysia's top university, collaborating in R&D. Their academic expertise and scientific knowledge advance our innovations and strengthen the scientific foundation of the Eden Greens Project. Together, we pursue sustainable development and real-world applications."



Universiti Sains Malaysia (USM)

Renowned globally for microalgae research, USM partners with us to develop technologies maximizing microalgae potential, from basic research to applied development. Their facilities and expertise drive innovation in sustainable biotechnology.



Universiti Kebangsaan Malaysia (UKM)

Fully supporting Eden Greens for its innovation and sustainability, with plans to host a facility on campus, integrating education, research, and social implementation. This collaboration builds a comprehensive academia–industry model for societal impact.



Mahidol University (Thailand)

Conducting joint research on biocontrol agents (BCA) in livestock feed, aiming to enhance growth and disease resistance, contributing to sustainable livestock in Southeast Asia. These trials create new solutions for regional food security.



Meiji University (Tokyo)

Through sponsorship, providing Eden Greens products to athletes, supporting sports performance with sustainable nutrition solutions.

Government & Local Authorities



Sarawak Ministry of Food Industry & Regional Development (M-FICoRD)

Proposed technical analysis for a tilapia cultivation system in Batang Ai Reservoir, aiming to build a sustainable aquaculture model and revitalize the regional economy.



Kawazu Town (Japan)

Promoting marine industry development in Japan through a comprehensive partnership centered on Eden Green.



Shizuoka Prefecture (Japan)

Providing prefectural-level support for marine industry growth and the implementation of sustainable technologies.



Itabashi Ward, Tokyo (Japan)

Supporting marine industry advancement and the adoption of sustainable technologies through local government initiatives.



Fisheries Agency, Ministry of Agriculture, Forestry and Fisheries (Japan)

Promoting Japan's marine industry and supporting the introduction of Eden Green.

International Organizations



Economic Research Institute for ASEAN and East Asia (ERIA)

Collaborating on practical action plans for implementing ASEAN sustainable agriculture guidelines and conducting preliminary research on sustainable agri-food systems.



Japan-ASEAN Integration Fund

Supporting a pilot project applying biocontrol agents (BCA) to address antimicrobial resistance (AMR) in aquaculture and livestock sectors.

Other Partner Organizations & Projects



Revoganix

“Recognized as an ASEAN Panel Company, leading projects such as the ASEAN Academy for Sustainable Agriculture & Aquaculture and regional BCA production initiatives. Beyond ASEAN, it serves as a consultant to Sarawak State and collaborates with Thailand’s aquaculture sector. Revoganix proudly supports Eden Greens, contributing expertise and leadership to build sustainable agriculture and aquaculture models across the region.



Bioeconomy Corporation

Engaged in projects transforming agricultural waste into clean food, promoting a sustainable bioeconomy and circular use of resources.



Temasek Polytechnic – Aquaculture Innovation Centre

Advancing innovative applications of BCAs in tilapia feed to improve growth rates and strengthen disease resistance in open-pond aquaculture. This initiative integrates modern aquaculture techniques with natural biocontrol methods to develop more resilient and sustainable farming systems.



Cropabl (Malaysia)

A pioneer in chemical-free, non-invasive farming for over 20 years, Cropabl has built strong partnerships with government agencies to promote food security and sustainable agricultural practices. Leveraging its proven green farming technologies, the company is now collaborating with Mother Vegetables on modular farming solutions. This includes a 10-acre flagship project in Tanjung Malim, Perak, designed to serve as a national model for sustainable food production, environmental conservation, and long-term food security in Malaysia.

Sabah Invest



Partnering with the Sabah State Government, Sabah Invest has expressed strong support for implementing the MOTHER VEGETABLES project. The initiative aims to transform Sabah from a state heavily dependent on imported food into one capable of self-sufficiency with surplus for export. By adopting advanced sustainable agriculture technologies, the project strengthens food security, reduces reliance on external supply chains, and positions Sabah as a regional leader in agriculture and food production. This transformation not only enhances local resilience but also creates new economic opportunities through export markets, contributing to long-term prosperity and sustainability.

Healcom Foundation



Healcom Foundation endorses the MOTHER VEGETABLES initiative, recognizing its potential to deliver high-quality, healthy, and sustainably grown food to communities. Through its extensive member network, the foundation actively promotes awareness, supports production, and strengthens sales channels. By partnering with MOTHER VEGETABLES, Healcom advances its mission of improving public health and nutrition, while creating sustainable markets for locally grown, chemical-free food that benefit both consumers and communities.

National Federation for Fisheries Promotion, Inc.



Collaborating with Kawazu Town to advance marine business development and promote the Eden Green initiative, while serving as a liaison body for fisheries cooperatives nationwide.

Japan PTA (Parent-Teacher Association)



"In Japan, six million elementary school parents are registered with the PTA. Through the Parents and Teachers Project, Olympic athletes join school events where children experience Mother Vegetables and learn about nutrition. These programs are valued for inspiring future researchers and improving school lunch standards."

LEON



LEON Real Estate Division, part of Japan's leading men's magazine for affluent 40–50s with 10 million monthly views.

Project : They plan luxury accommodations nationwide, each with Eden Green facilities where families can experience Mother Vegetables and enjoy local harvest meals.

JTB Research Institute



JTB Tourism Research & Consulting Project: Japan's largest travel agency and one of the world's largest. A partnership for promoting the marine industry and supporting business development of Eden Green-related products.

Kyushu Electric Power



A leading Japanese utility, conducting applied research since 2001 on seaweed bed restoration to support marine habitats, water purification, and CO₂ fixation. Now exploring biomass production with MOTHER VEGETABLES to enhance productivity.

Kuroi Fisheries Cooperative



Based in Shimonoseki, Japan, addressing challenges such as barren sea urchin outbreaks and aquaculture issues. By applying MOTHER VEGETABLES, the cooperative works on localized seaweed bed recovery and more efficient aquaculture.

4. Project Details

Introduction (Existing Business Overview)

Algae International Berhad (AIB), the organizer of the MOTHER VEGETABLES PROJECT, began algae research in Japan in 2007 and has since expanded to 70 sites across eight countries worldwide. Its research has advanced to genome analysis and established cultivation mechanisms, naming the original algae the “Mother Vegetable.”

To build a sustainable society, reducing dependence on finite fossil resources is essential. Algae, which capture solar energy through photosynthesis to generate diverse organic compounds, are key to this shift. They can be consumed directly as food and feed, or processed into pharmaceuticals, fuels, plastics, textiles, and more. Moreover, algae can be cultivated with sunlight and minimal water even in deserts or barren lands, with far higher production efficiency than terrestrial plants.

At the Expo 2025 Osaka, Kansai, Japan, the Japan Pavilion features algae's potential, highlighting a field that is set to attract global attention.



AIB's "Mother Vegetables" technology offers diverse industrial applications, now expanding into eight key sectors:

| Sector | Title | Description & Impact |
|------------------------|-------------------------------|---|
| 1. Food | Enhancing vitality | High-nutrition superfoods such as spirulina improve human nutrition fundamentally. Functional food ingredients contribute to disease prevention and longer healthy lifespans. |
| 2. Pharmaceuticals | Supporting natural healing | Production of natural compounds like phycocyanin, fucoidan, astaxanthin, EPA, and DHA. These enable safer medicines with fewer side effects and less burden on the body. |
| 3. Industrial Products | Eco-friendly manufacturing | Development of bioplastics and new materials reduces dependence on petroleum. Sustainable raw materials support zero-impact industrial production. |
| 4. Aquaculture | Restoring marine environments | Water purification systems help rehabilitate polluted waters, while natural feed enables healthier aquaculture without chemical inputs. |
| 5. Agriculture | Soil regeneration | Biostimulants enrich soil without chemical fertilizers. Soil enhancers strengthen natural recovery in degraded land. |
| 6. Biomass | Clean energy | Production of biodiesel, bioethanol, and biogas aims for complete fossil fuel replacement and carbon neutrality. |
| 7. Energy | Sustainable future | Liquid and gaseous fuels, along with power generation, enable stable renewable energy supply and regional energy independence. |
| 8. FMCG | Revolutionizing Daily Life | Biodegradable detergents, cosmetics, and hygiene products from algae-derived ingredients: Sustainable daily essentials for eco-friendly living. |

Facilities using algae cultivation technology operate with integrated solar and storage systems, running 24/7 and demonstrating stable CO₂ absorption and oxygen release. These provide firm evidence for commercial viability.

Project Overview & Growth Strategy

The project is establishing standardized algae cultivation plants across the globe as demonstration sites, showcasing the scalability of the Mother Vegetables technology. Stable and continuous operations not only prove the reliability of the system but also demonstrate its strong commercial value, building investor confidence and paving the way for global adoption. During production, algae efficiently absorb atmospheric CO₂ while simultaneously releasing oxygen, providing clear environmental benefits. As the number of facilities expands, the total volume of CO₂ absorption increases in direct proportion, thereby amplifying contributions to climate change mitigation, biodiversity restoration, and long-term environmental sustainability.

Fundraising and Token Economics

We raise funds through an Initial Exchange Offering (IEO) and token circulation, with proceeds allocated to the construction and expansion of new production facilities worldwide. Token holders can stake MOTHER VEGETABLES Token (MVT) in smart contract-based pools, through which they receive NFTs directly linked to the verified amount of CO₂ absorbed by our facilities. These NFTs act as digital assets that provide transparent, blockchain-certified proof of environmental contribution and are distributed as meaningful rewards to staking participants, combining financial incentives with measurable climate impact.

NFT Circulation and Value Creation

The CO₂ absorption-linked NFTs can be freely traded on both partnered and open marketplaces, giving them real liquidity and practical utility. As a result, these NFTs serve not only as transparent proof of environmental contribution but also as valuable digital assets with secondary market potential. This dual function allows investors to achieve both measurable environmental impact and tangible financial returns. At the same time, the circulation of NFTs provides the company with recurring capital inflows, which are reinvested to expand production capacity and further accelerate large-scale CO₂ reduction efforts worldwide.

Challenges Addressed by the Project

1. Social Challenges

【Issues】

- ▷ Growing concern over climate change, but few mechanisms for individuals and companies to directly join CO₂ reduction.
- ▷ Environmental contributions are difficult to quantify and recognize.
- ▷ Limited investment opportunities in environmental technologies, creating barriers for general investors.

【Solutions】

- ✓ Provide a decentralized platform where anyone can participate economically in CO₂ reduction through staking and NFTs.
- ✓ Record CO₂ absorption on blockchain to visualize and verify environmental contributions.
- ✓ Enable participation from small-scale investors, broadening access to environmental business opportunities.

2. Economic Challenges

【Issues】

- ▷ Large upfront investment is needed to expand renewable technologies, creating funding barriers.
- ▷ Environmental contributions often do not link directly to revenue, making business sustainability difficult.
- ▷ The carbon credit market is complex and closed, limiting access for small businesses and individuals.

【Solutions】

- ✓ Establish an international fundraising scheme through IEO and token economics.
- ✓ Use NFTs to turn environmental value into tradable digital assets, securing sustainable revenue streams.
- ✓ Provide an open, transparent CO₂ reduction value trading system to encourage broader market participation.

3. Environmental Challenges

【Issues】

- ▷ Rising global CO₂ emissions accelerating climate change.
- ▷ Limited natural absorption capacity due to deforestation and land-use change.
- ▷ Existing CO₂ reduction projects are localized and lack global-scale impact.

【Solutions】

- ✓ Deploy algae cultivation systems worldwide, enabling 24/7 stable CO₂ absorption.
- ✓ Standardized production systems allow rapid rollout of high-efficiency facilities across multiple sites.
- ✓ Record absorption data on blockchain in real time, making global environmental impact visible.

Project Advantages (Strengths)

This project has moved beyond the conceptual stage, completing its demonstration phase and establishing a solid foundation for commercialization. A standardized Mother Vegetables cultivation system is already in place, with a pilot plant in Malaysia operating 24/7 and proving stable, efficient CO₂ absorption.

Strategic partnerships with ASEAN government agencies and leading research institutions provide strong international support from R&D to deployment, enabling faster and larger-scale expansion than comparable projects.

Together, the operating pilot facility and global public–academic partnerships create a clear competitive edge, strengthening both credibility and feasibility while offering IEO participants compelling investment rationale.



Operational Excellence

Our cultivation facilities integrate solar power and storage systems, enabling fully autonomous 24/7 operations. This capability demonstrates stable, efficient CO₂ absorption and provides concrete proof of commercial scalability.

Environmental Impact

Each facility directly reduces atmospheric CO₂ while producing oxygen. Our standardized production system maintains consistent absorption rates through continuous operation, achieving proportional scaling with every new facility established.

5. Token Information

Basic Structure

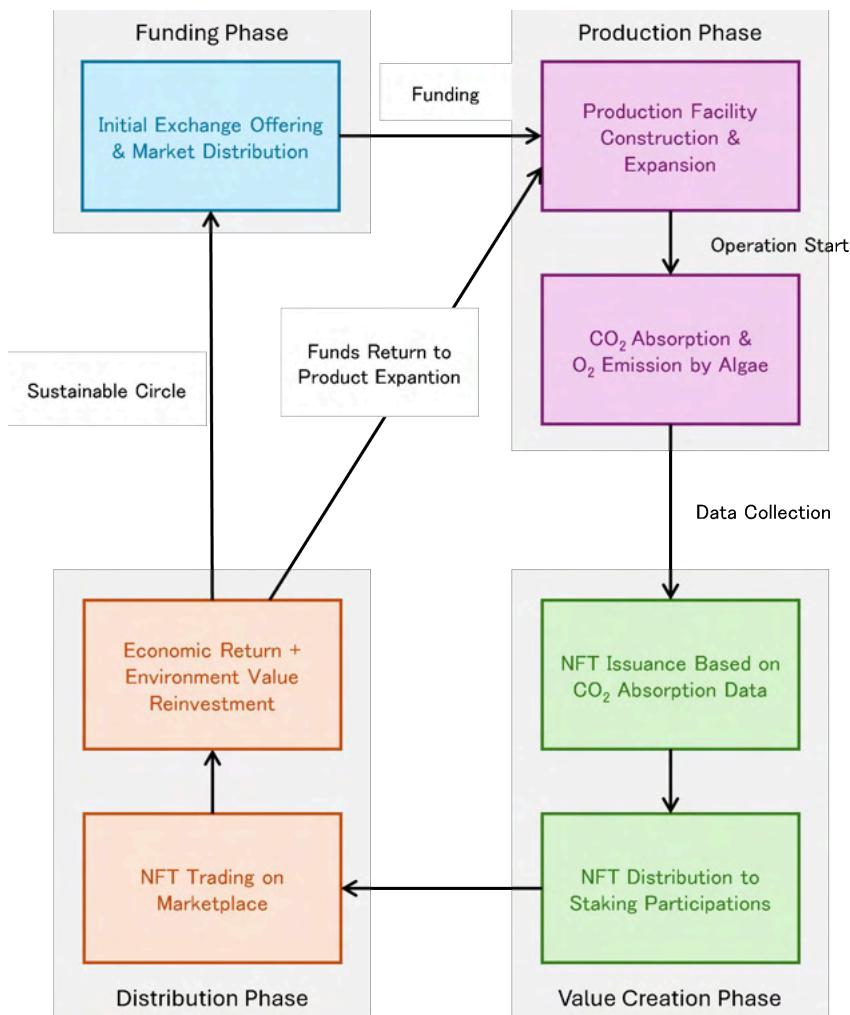
The MOTHER VEGETABLES Token (MVT) functions as a utility token directly connected to algae cultivation facilities, offering the following core utilities:

Fundraising: Capital for global facilities via IEO and token markets.

Staking: Investors can stake MVT in smart contract pools to receive NFT rewards based on actual CO₂ absorption data from operating facilities.

NFT Trading: CO₂-linked NFTs are freely tradable on partner and open marketplaces, creating both verified environmental contribution and secondary market value.

Circulating Ecosystem Model



Investor Benefits

- **Transparency:** Blockchain-verified CO₂ reduction certificates through NFT issuance.
- **Earning Opportunities:** Secondary market trading of environmental impact NFTs.
- **Growth Potential:** Value increase tied to facility expansion and higher NFT issuance capacity.

Tokenomics

MOTHER VEGETABLES Token (MVT) Information



Token Name

MOTHER VEGETABLES Token

Ticker Symbol

\$MVT

Blockchain

Ethereum

Total Supply

10,000,000,000 (10 billion)

Token Standard

ERC-20

Contract Address

0x●●●●

Token Distribution

| Category | Ratio | Purpose |
|-----------------|-------|---|
| IEO Sale | 10% | Allocation to general investors |
| Team Allocation | 5% | Incentives for development & operations team |
| Advisory Pool | 5% | Rewards for strategic partners & experts |
| Reserve Fund | 80% | Future business expansion & strategic development |

Capital Allocation

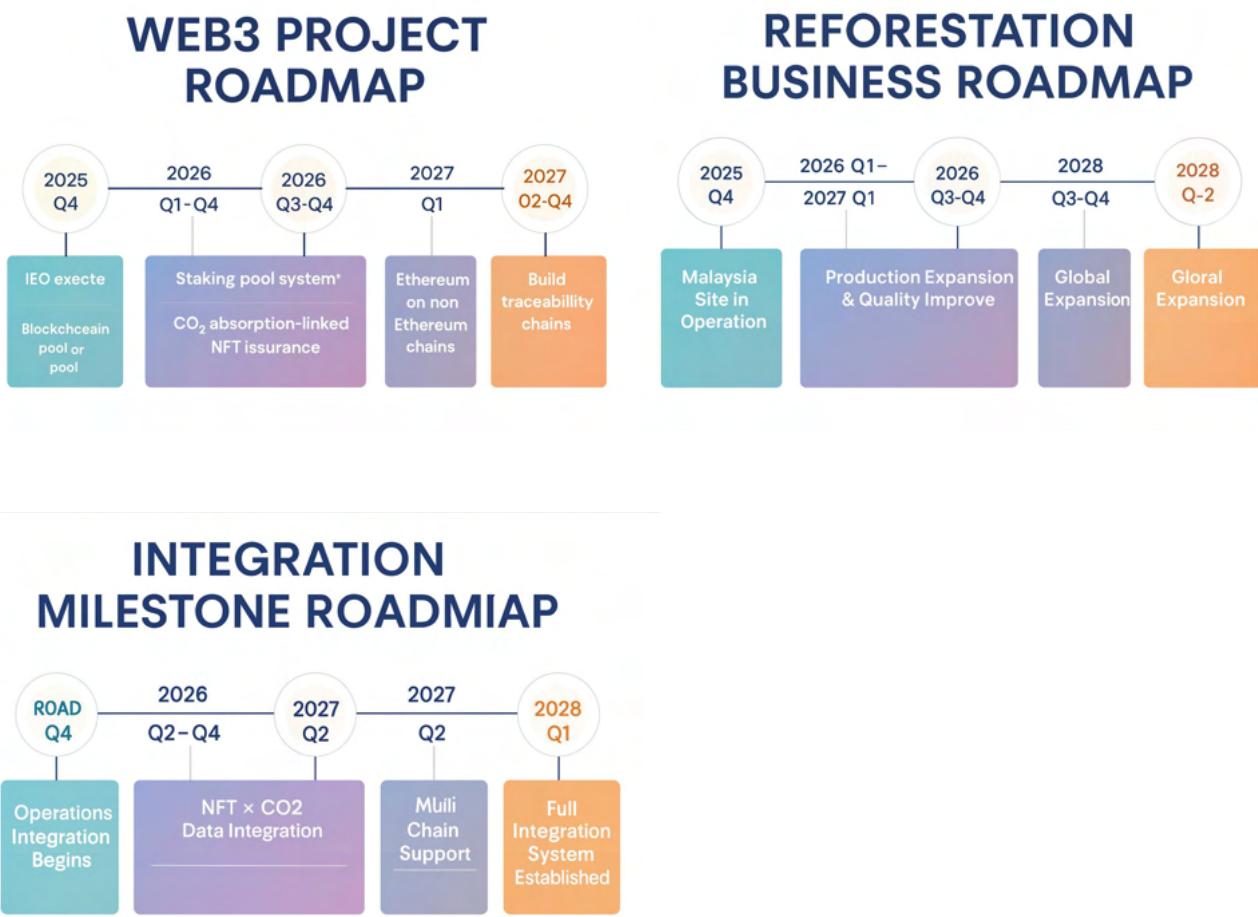
| Category | Ratio | Application |
|----------------------------------|-------|--|
| Facility Construction | 60% | New facility development & expansion of existing sites |
| System Development | 20% | Platform enhancement & technological progress |
| Marketing & Business Development | 20% | Global expansion & market penetration |

Security Measures

Lock-up Period

Tokens from the IEO sale are subject to a 6-month lock-up after completion. During this period, transfers and trading are restricted to ensure price stability and protect long-term investors.

Roadmap



Risk Disclosure

The information in this white paper outlines the project's plans and objectives but does not guarantee future results or value. Please be aware that purchasing, holding, and using tokens involves the following risks:

Market Risk

The value of digital assets is highly dependent on market conditions and may fluctuate sharply due to supply and demand, exchange trends, investor sentiment, or regulatory changes. Tokens may lose significant value or even become worthless.

Regulatory & Legal Risk

Regulations on digital assets and related services vary by country and remain under development or subject to change. Future regulatory updates or new laws may restrict token use, trading, or even the project itself.

Technology Risk

Blockchain, smart contracts, and related systems may contain bugs, vulnerabilities, or be subject to attacks, potentially causing asset loss, project suspension, or inaccessibility.

Liquidity Risk

If tokens are not traded on sufficient markets, they may not be bought or sold at desired prices or volumes. Liquidity may also decline sharply due to suspension or delisting on exchanges.

Operational Risk

The project depends on the continued activity of the development team. Dissolution, talent loss, or funding shortages may prevent progress as planned.

Force Majeure Risk

Natural disasters, war, terrorism, pandemics, or power/communication outages beyond control may significantly affect the project or token usage.

Other Risks

Unforeseen risks not described in this white paper may exist. Prospective token purchasers should conduct thorough research, analysis, and professional consultation, and make decisions at their own risk.

Legal Notice

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Disclaimer: This document is provided solely for informational purposes and does not constitute investment advice or a sales recommendation. Investment in digital assets carries significant risks, and decisions must be made at the sole discretion and responsibility of the individual.

Updates: This document may be updated according to technological and business developments. The latest version is available through official project channels.

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