Cuttlefish Labs x Blue Nova Ventures - Strategic Partnership Brief

Title: Scaling Ocean DAO Infrastructure with Blue Nova's Ecosystem

Date: June 2025

Presented by: Cuttlefish Labs | greenisland.earth | hello@cuttlefishlabs.org

Rartnership Opportunity

Cuttlefish Labs proposes a strategic alignment with Blue Nova Ventures to co-deploy DAO-governed infrastructure in Small Island Developing States (SIDS), supported by Icelandic climate-tech expertise and Blue Nova's marine innovation focus.

MADOUT CUTTLE STATE

We build decentralized governance infrastructure for climate and ocean-linked projects. Our toolkits include: - Cuttlefish IntakeBot - Multilingual Telegram-based proposal intake - BuilderVault.sol -Milestone-based payout smart contracts - Snapshot + SBTs - DAO-native community voting and reputation

Our network spans seven active or planned Island DAOs: - MicronesiaDAO - Floating land + basalt infrastructure - BermudaDAO - Coral finance + hurricane-resilient hubs - FijiDAO - ReefGuard AI + floating clinics - TongaDAO, SamoaDAO, VanuatuDAO, AzoresDAO

Each DAO manages regenerative infrastructure via milestone-gated funds.

Strategic Fit with Blue Nova

- Shared Focus: Marine biotechnology, ocean resilience, fisheries + infrastructure
- Deployment Model: Modular, token-governed infrastructure fits with Blue Nova's early-stage thesis
- Iceland Synergies: We propose Iceland as a node for DAO testing using geothermal + marine datasets
- Circularity: DAO-linked cement alt, reef carbon, and W2E models align with your Eco Business Park vision

Capital Collaboration Pathways

We are seeking: - Catalytic pre-seed support for 2-3 SIDS DAO launches - Inclusion in Blue Nova's ocean portfolio - Participation in the Iceland Eco-Business Park ecosystem

Pilot Outcomes (by Q1 2026)

- 6 MW renewable energy deployed
- 900,000 tons CO₂ sequestered/year
- 7,200 km² marine governance zones
- \$21.1M DAO budget under management

Let's co-build a sovereign, data-backed, DAO-governed ocean future.

 $\textbf{Cuttlefish Labs} \mid \text{hello@cuttlefishlabs.org} \mid \text{greenisland.earth}$

UN Decade of Ocean Science for Sustainable Development - Proposal Submission Packet

Title: Blue DAO Sovereignty: Regenerative Infrastructure for Ocean Island Nations

Submitted by: Cuttlefish Labs & Green Island Ventures

Date: June 2025

I. Executive Summary

This proposal outlines a multi-country initiative to deploy **DAO-governed regenerative infrastructure platforms** across seven ocean nations, aligned with the UN Decade of Ocean Science objectives. Utilizing Cuttlefish Labs' Web3 tools and the Green Island SISD investment model, we seek catalytic support to codeploy blue economy systems that address: marine ecosystem restoration, climate-adaptive infrastructure, and community-led governance.

Target Countries: Azores, Bermuda, Micronesia, Vanuatu, Samoa, Tonga, Fiji

Request: \$21.1M co-matching support for DAO-seeded infrastructure

Impact (Cumulative by 2026): - 6 MW geothermal + W2E capacity deployed - 900,000 tons CO_2 sequestered annually - 7,200 km² of marine protection governed by DAO votes - 10,000+ modular homes + floating hubs deployed - 60,000+ DAO wallet holders onboarded

II. Alignment with UN Ocean Decade Objectives

Objective	Initiative Alignment		
Marine ecosystem restoration	Mangrove DAOs, kelp farming, coral bond protocols		
Climate adaptation/resilience	Floating housing, geothermal microgrids, tsunami platforms		
Sustainable ocean economy	Blue carbon credits, reef tourism, fisheries co-ops		
Equitable governance	IntakeBot in native languages, Snapshot voting, diaspora multisigs		

III. Technological Infrastructure

Powered by Cuttlefish Labs' Platform: - **Cuttlefish IntakeBot:** Multilingual Telegram-based proposal intake (e.g., Tongan, Fijian, Portuguese) - **ScoringAgent (GPT-40):** ESG & TRL-based proposal evaluation - **BuilderVault.sol:** Smart contract milestone payout system for SISD tokens - **Snapshot:** Soulbound voting weight by island/province - **IPFS + Chainlink + multisigs:** for evidence and disbursement audit trails

IV. Country-Level Pilots

Appendix A: Project Briefing Summaries

AzoresDAO - Geothermal & Marine Prosperity

- Geothermal loops for clean energy (15 MW)
- DAO-managed whale tourism zones
- Kelp carbon sequestration and export protocol

BermudaDAO – Coral Finance & Hurricane Infrastructure

- Coral bond protocol via NFT smart contracts
- W2E plant with biochar co-generation
- Hurricane-proof governance HQ in Hamilton

MicronesiaDAO – Floating Parks & Circular Infrastructure

- Floating atoll land with W2E & cement alt
- Geothermal & basalt fiber on volcanic islands
- Compute center and water security grid

VanuatuDAO – Blue Carbon Buffer & Housing Ridge

- · Cement-free construction
- Ocean ridge housing zones
- Mangrove DAO for coastal regeneration

SamoaDAO - Biochar & Storm-Resilient Communities

- Elevated prefab housing DAO
- Farmer carbon co-ops and soil tech
- · DAO payout pool for cyclone rebuilds

TongaDAO – Seafloor Geothermal + Fisheries

- · Deep thermal pilot plant
- · Tokenized fisheries DAO
- Floating cyclone-proof markets

FijiDAO - Reef AI + Floating Clinics

- ReefGuard AI network
- Smart mangrove staking
- Modular floating hubs for education/health

V. Funding Request

Total DAO Investment Package: \$21.1M - UN Decade-aligned Ocean Climate Fund Request: \$10.5M (50%) - Co-Funding: Green Island Ventures, GCF, Diaspora Vaults: \$10.6M (secured/committed)

VI. Monitoring, Evaluation & Reporting

- All DAO funds gated by BuilderVault with milestone verification
- Quarterly IPFS-published impact reports with DAO co-signatures
- SISD yield tracked via on-chain dashboard (launching Q1 2026)

VII. Contact & Coordination

Lead Applicant:

Cuttlefish Labs hello@cuttlefishlabs.org

Implementing Partner:

Green Island Ventures www.greenisland.earth/un-decade

Appendix A - Attached Country Briefs: - AzoresDAO - BermudaDAO - MicronesiaDAO - VanuatuDAO - SamoaDAO - TongaDAO - FijiDAO

Blue DAO Infrastructure Proposals for SIDS Nations

Full Proposal Suite for Seven Island DAOs

Powered by Cuttlefish Labs & Green Island Ventures
June 2025

1. BermudaDAO – Coral Finance & Hurricane Infrastructure

Objective: Deploy BermudaDAO to manage coral reef bond issuance, W2E infrastructure, and hurricane-resilient civic hubs. - **Phase 1:** NFT-based Coral Restoration Bond (CRB) protocol - **Phase 2:** Install W2E gasifier and biochar system for municipal solid waste - **Phase 3:** Construct stormproof DAO governance HQ in Hamilton **Funding:** \$3.1M - Bermuda Reinsurance Council - \$1.2M - Green Island Ventures - \$900K - Diaspora Climate Vault - \$1M **Impact:** - 20,000 coral nodes restored - 5,000 tons waste diverted - \$2.2M in blue bond circulation annually

2. AzoresDAO - Geothermal & Marine Prosperity

See **Azores Dao Deck** for full proposal. Includes geothermal loops, DAO-managed tourism zones, and kelp carbon credits. **Impact:** 15 MW geothermal, 2,500 km² marine protected, 3,000 wallets onboarded

3. MicronesiaDAO - Elevated Land + Circular Infrastructure

See **MicronesiaDAO Proposal**. Combines floating parks, geothermal + basalt factories, W2E systems, and municipal data centers. **Impact:** 450,000 tons CO₂ captured, 12,000 DAO wallets, 5 revenue streams

4. WanuatuDAO - Cement-Free Housing & Blue Carbon Zones

Objective: Develop DAO-funded modular housing systems and carbon-negative marine buffer infrastructure. - Cement-free microplants (ash + sand + slag composite) - Ocean-adaptive housing ridge - Mangrove restoration DAO program **Funding:** \$2.9M - GCF Small Grants - \$1.5M - Green Island Vault - \$700K - Vanuatu Infrastructure Fund - \$700K **Impact:** - 1,000 modular homes - 250,000 mangrove seedlings planted - 2 carbon credit protocols launched

5. SamoaDAO - Biochar Agroforestry + Stormproof Housing

Objective: Tokenize cyclone-resilient housing and deploy soil regeneration + food security infrastructure - Prefab housing cluster (elevated & wind-tolerant) - Biochar kilns for degraded lands - Farmer DAO co-ops funded via IntakeBot proposals **Funding:** \$2.6M - Samoa Climate Fund - \$1.3M - Diaspora AgroDAO - \$800K - Green Island SISD tokens - \$500K **Impact:** - 800 biochar-hectares restored - 1,500 jobs in co-op supply chain - \$2.1M in annual food import reduction

6. TongaDAO - Seafloor Geothermal + Floating Fisheries

See **Tonga Dao Deck** for full proposal: includes geothermal microgrids, DAO-backed fisheries platform, and tsunami-resilient asset deployment **Impact:** 1 MW geothermal, 3 floating markets, 8,000 wallets across 12 islands

7. FijiDAO - Reef AI + Floating Hubs

See **Fiji Dao Deck**: includes ReefGuard network, smart mangrove bounties, and modular floating schools and clinics **Impact**: 1,200 km² reef, 2 floating hubs, 12,000 wallet holders, \$1.8M in economic return

Shared Governance Infrastructure Across All DAOs: - Cuttlefish IntakeBot (localized Telegram intake in native languages) - BuilderVault.sol (SISD milestone-triggered payouts) - Soulbound NFT governance + Snapshot - SISD token forecast and yield distribution tool (2026)

Contact: hello@cuttlefishlabs.org | greenisland.earth/blue-prosperity

AzoresDAO Briefing Deck

Powered by Cuttlefish Labs & Green Island Ventures June 2025

Slide 1: Title Slide

Blue Island Sovereignty: AzoresDAO

Pioneering Geothermal and Marine Prosperity in the Azores

Visual: Aerial view of Azores archipelago with geothermal glows and kelp forest overlays, connected via blockchain nodes.

UN Decade of Ocean Science-aligned Pilot

Contact: hello@cuttlefishlabs.org | greenisland.earth Footer: Cuttlefish Labs | Green Island Ventures

Slide 2: Executive Summary

Transforming the Azores into a Blue Economy Hub

- **Vision:** Sustainable Azores via DAO-governed geothermal and marine initiatives
- Focus: Geothermal microgrids, whale-friendly marine economy, kelp blue carbon
- Funding: \$2.8M co-matched via EU Blue Bonds, Green Island Ventures, diaspora
- Impact: 15 MW geothermal, 450,000 tons CO₂ sequestered, 2,500 km² marine protection

Visual: Infographic - geothermal plant, whale-watching boat, kelp farm, Azores flag

Slide 3: Challenges Facing the Azores

Addressing Island Vulnerabilities

- Volcanic terrain complicates infrastructure deployment
- Seasonal tourism creates economic instability
- Navigating EU regulatory compliance
- Marine ecosystems vulnerable to climate disruption

Visual: Dual frame—volcanic landscape & marine biodiversity

Slide 4: AzoresDAO Vision

A Democratic Infrastructure DAO

- Community-owned assets via smart contracts
- Core Projects:

- Geothermal heat loops for rural villages
- DAO-managed marine tourism zones
- Kelp carbon farms + tokenized carbon credits

Governance Tools:

- Cuttlefish IntakeBot
- BuilderVault.sol
- Snapshot voting

Visual: DAO ecosystem diagram with NFTs, voting, treasury

Slide 5: Key Projects

Phase 1 Deployment (2025)

- Geothermal Microgrids: Clean heating systems for rural areas
- Marine Eco-Tourism: DAO-managed, whale-safe, revenue-sharing model
- Kelp Blue Carbon: Regenerative cultivation for carbon drawdown and exports

Visual: 3D render of geothermal system, kelp installation, tourism boat

Slide 6: Governance & Technology

Web3-Powered Community Governance

- **Cuttlefish IntakeBot:** Telegram interface in English + Portuguese
- BuilderVault.sol: Milestone-gated capital deployment
- Builder NFTs: Access and governance rights
- Soulbound Tokens: Reputation for verified contributors
- **Snapshot:** Voting with delegation and transparency

Visual: Process flow from idea intake \rightarrow AI scoring \rightarrow on-chain funding

Slide 7: Funding Structure

EU and US-Aligned Investment

- Total Investment: \$2.8M
- Sources:
- EU Blue Bonds \$1M
- Green Island Core Vault \$800K (SISD tokens)
- Diaspora Multisig \$500K
- Atlantic Innovation Partners \$500K

Revenue Streams: geothermal, tourism, blue carbon credits

Visual: Pie chart with sources + stacked bar chart for income

Slide 8: Timeline

Phase 1 Milestones (2025-2026)

- Q1 2025: Site assessments completed
- Q2 2025: DAO launched + 3,000 stakeholders onboarded
- Q3 2025: Heat loop installs underway
- Q4 2025: Tourism zones activated
- Q1 2026: Kelp farms online, dividends begin

Visual: Gantt chart timeline with icons per milestone

Slide 9: Impact Metrics

Measurable Outcomes

- 15 MW geothermal energy capacity
- 450,000 tons CO₂/year sequestered
- 2,500 km² marine protected
- \$1.8M+ annual revenue
- 3,000+ DAO participants
- 92/100 Climate Resilience Score

Visual: Dashboard-style metric bars + kelp + whales

Slide 10: Call to Action

Join the Azores Blue Prosperity Movement

- Partner with AzoresDAO to scale ocean-positive infrastructure
- Fund sustainable energy and blue carbon pilots
- Support DAO-powered democratic governance in SIDS

Contact: hello@cuttlefishlabs.org Website: greenisland.earth/ocean

Visual: Azores community, geothermal loop, blockchain overlays, flags

FijiDAO Briefing Deck

Powered by Cuttlefish Labs & Green Island Ventures
June 2025

Slide 1: Title Slide

Blue Island Sovereignty: FijiDAO

AI-Enabled Marine Monitoring and Ocean-Linked Infrastructure in Fiji

Visual: Aerial reef view with satellite overlays and village DAO nodes across the coastline.

Contact: hello@cuttlefishlabs.org | greenisland.earth

Footer: Cuttlefish Labs | Green Island Ventures

Slide 2: Executive Summary

Empowering Fiji with DAO-Led Ocean Infrastructure

- Vision: Create climate-resilient coastal economies via democratic DAO governance
- Focus: ReefGuard AI system, mangrove restoration, floating education and health hubs
- Funding: \$3.2M co-funded by GCF, Fiji diaspora, and Cuttlefish Labs
- Impact: 1,200 km² reef coverage, 75% clean energy share, 12,000+ DAO members onboarded

Slide 3: Local Challenges

Resilience Under Pressure

- Coral reef bleaching + declining fish stocks
- Coastal flooding + rising cyclone frequency
- Resource allocation challenges across 300+ islands

Visual: Coastal flooding overlay + reef heat map

Slide 4: FijiDAO Vision

Digital Marine Sovereignty for a Multi-Island Nation

- DAO-based marine zones + asset ownership
- Smart bounties for reef health, mangrove planting, pollution control
- Floating platform hubs: schooling, clinics, internet, desalination

Slide 5: Phase 1 Projects (2025)

• ReefGuard Network: AI + drone sensors for reef monitoring

- Mangrove DAO Zones: Staking-based funding for community-led planting
- Floating Infrastructure: Modular sea-based education + health stations (Suva & Vanua Levu)

Visual: Sensor map + floating health center + mangrove nursery

Slide 6: Tech Stack & Governance

- Cuttlefish IntakeBot: Telegram (Fijian/English) + dashboard view
- BuilderVault.sol: Milestone-based capital release
- Soulbound NFTs: Participation + contributor tracking
- Snapshot: DAO votes by island, village or delegation

Slide 7: Funding Plan

FijiDAO Vault: \$3.2M

| Source | Amount | |------| | GCF Ocean Grant | \$1.5M | | Fiji Diaspora DAO | \$700K | | Green Island Vault | \$500K | | South Pacific Partners | \$500K |

Revenue Streams: tourism bounties, data licensing, health access fees, education credits

Slide 8: Milestone Timeline

- Q2 2025: Launch FijiDAO.eth, onboard 5,000 residents
- Q3 2025: AI reef sensors deployed across 6 islands
- Q4 2025: First floating hub goes live (Nadi region)
- Q1 2026: SISD yield modeling and dividend issuance

Slide 9: Impact Forecast

- 1,200 km² reef coverage under DAO monitoring
- 150,000 mangrove seedlings planted (biosequestration zone)
- 2 floating hubs with clean water, Wi-Fi, solar power
- 12,000 DAO wallets created (including diaspora)

Slide 10: Call to Action

Build FijiDAO Together

- Fund floating clinics, smart mangrove zones, and climate data AI
- Help scale FijiDAO to all provinces
- Become a co-builder of sovereign Pacific infrastructure

Contact: hello@cuttlefishlabs.org greenisland.earth/fiji

TongaDAO Briefing Deck

Powered by Cuttlefish Labs & Green Island Ventures June 2025

Slide 1: Title Slide

Blue Island Sovereignty: TongaDAO

Volcanic Geothermal + Floating Resilience for the Kingdom of Tonga

Visual: Pacific ring volcano + floating coastal markets, connected to DAO nodes

Contact: hello@cuttlefishlabs.org | greenisland.earth Footer: Cuttlefish Labs | Green Island Ventures

Slide 2: Executive Summary

TongaDAO: Island Infrastructure for Climate Stability

- Vision: Sovereign DAO managing climate and economic resilience
- Focus: Seafloor geothermal, tsunami-proof floating infrastructure, fisheries co-ops
- Funding: \$2.5M co-investment: Tonga Development Bank, Green Island, diaspora vault
- Impact: 1 MW geothermal generation, 3 floating markets, 80% decentralized DAO voting turnout

Slide 3: Challenges & Risk Factors

- Tsunami + volcanic vulnerability
- Centralized aid systems delay local recovery
- Low infrastructure redundancy across Tonga's 170+ islands

Visual: Tsunami wave overlay, aerial chain of islands

Slide 4: TongaDAO Vision

- DAO controls smart vaults tied to milestone-based recovery + infra projects
- Seafloor heat exchangers power geothermal microgrids
- Floating fisheries + cyclone-ready markets expand economic base

Visual: DAO treasury > proposal > milestone payout > floating assets

Slide 5: Phase 1 Projects

- Geothermal Pilot: Sub-sea shaft power for community grids
- Fisheries DAO: Tokenized cooperative with traceability + revenue share

• Floating Market Platform: Deployable asset cluster with solar canopy + water access

Slide 6: Technology + Governance

- BuilderVault.sol: Payouts tied to completion proof (photos, sensors, drone logs)
- Telegram IntakeBot: Bilingual in Tongan + English
- Snapshot Voting: Island-rep weighted, with delegation to village councils
- Soulbound NFTs: Track verified contribution + payout eligibility

Slide 7: Capital Stack

Source	Amount (USD)
Tonga Dev Bank DAO stake	\$1M
Green Island Vault	\$800K
Diaspora Node Multisig	\$500K
Pacific Resilience Matching	\$200K

Slide 8: 2025-2026 Roadmap

- Q2 2025: TongaDAO.eth launched + 2,500 islander wallets onboarded
- Q3 2025: First geothermal dig + floating market prototype (Tongatapu)
- Q4 2025: Fisheries co-op smart contract deployed
- Q1 2026: SISD dividend issuance and floating platform scaling

Slide 9: Impact Summary

- 1 MW renewable geothermal power (pilot)
- 3 floating cyclone-ready markets
- \$1.2M/year local economic circulation via fisheries + energy
- 8,000 DAO participants across 12 islands
- 92/100 Climate Resilience Score

Slide 10: Call to Action

Build TongaDAO Together

- Fund post-disaster resilient infrastructure DAO
- Support seafloor geothermal innovation
- Expand floating community asset models in the South Pacific

Contact: hello@cuttlefishlabs.org greenisland.earth/tonga

DAO Briefing Decks and 1-Pager Summaries for SIDS Blue Prosperity Pilots

Powered by Cuttlefish Labs + Green Island Ventures

June 2025 Master Index

1. The Azores – AzoresDAO

Focus: Geothermal microgrids, whale-friendly marine economy, kelp blue carbon **Key Projects:** - Heat loop systems for rural villages (clean heating) - DAO-managed marine eco-tourism zones - Regenerative kelp cultivation + credit tokenization

US/Portugal alignment: Leverage EU Blue Bonds + Atlantic renewable tech co-development

2. Bermuda – BermudaDAO

Focus: Coral finance DAO, W2E innovation, hurricane-proof housing protocols **Key Projects:** - Coral bond issuance mechanism via NFT-backed debt tokens - Biochar-based W2E node for Hamilton - Resilient civic centers and DAO treasury safes

Partnership Target: Global Reinsurance, Ocean Risk Alliance

3. Micronesia – MicronesiaDAO

Focus: Coral atoll elevated land, geothermal + basalt industry, sovereign compute **Key Projects:** - Floating park on Pingelap - Geothermal + basalt facility in Chuuk - Municipal AI Data Center for education and commerce

Co-Funding Channels: Green Island Core Vault, Diaspora Fund, Blue Prosperity Coalition

4. 🌉 Fiji – FijiDAO

Focus: Mangrove zones, reef monitoring, floating health/education infrastructure **Key Projects:** - ReefGuard AI marine monitoring network (DAO-issued bounties) - Floating school + desalination health hub - DAO revenue via eco-tourism and reef credits

Language Support: English + Fijian

5. Samoa – SamoaDAO

Focus: Climate-smart housing, biochar agriculture, cyclone recovery DAO tools **Key Projects:** - Modular prefab housing for displaced families - DAO-led carbon farming co-ops using biochar - Smart cyclone insurance payout vaults

Partners: Samoa Disaster Office, Pacific Islands Forum

6. Tonga – TongaDAO

Focus: Seafloor geothermal, floating markets, tsunami resilience **Key Projects:** - Undersea heat exchanger microgrid in Ha'apai - Floating fisheries co-op market - DAO for rapid tsunami recovery with milestone-based vaults

Data Use: Real-time ocean sensing to trigger BuilderVault unlocks

7. Vanuatu – VanuatuDAO

Focus: Cement-free construction, blue carbon, ocean-adaptive housing **Key Projects:** - Cement alt production from ash + coral sand - Marine housing prototypes + mangrove buffer parks - DAO governance for ranger programs + carbon revenue

Donor Target: GCF, Blue Prosperity, Australian DFAT

Each briefing deck will include: - 10-slide DAO deck with visuals (PDF & Google Slides) - 1-page proposal summary (PDF) - Budget + timeline table - Local language support for bots and governance - SISD yield forecast + climate resilience score

To be generated next per user selection or priority sequence.

Proposal to the Blue Prosperity Coalition

DAO Infrastructure for Marine Sovereignty and Climate Resilience in SIDS
Submitted by Cuttlefish Labs + Green Island Ventures
June 2025



Blue Island Sovereignty: DAO-Governed Infrastructure for Climate-Resilient Marine Nations

©Executive Summary

This proposal requests investment from the Blue Prosperity Coalition to launch DAO-governed infrastructure ecosystems in the Federated States of Micronesia and the Republic of Vanuatu. These infrastructure DAOs—MicronesiaDAO and VanuatuDAO—will fund and govern projects that:

- Build stormproof marine parks and create elevated coral-safe land
- Convert waste into clean energy and carbon-sequestering biochar
- Manufacture cement-free building materials from local inputs
- Develop geothermal and AI-integrated digital infrastructure
- Provide digital governance and dividend tools for SIDS communities and diaspora

These DAOs are powered by Cuttlefish Labs' AI + Web3 stack, including: - IntakeBot (Telegram-based proposal submission) - ScoringAgent (AI-powered ESG scoring) - BuilderVault.sol (milestone-gated funding release) - NFT identity + Snapshot voting

Alignment with Blue Prosperity Coalition Priorities

Coalition Goal	DAO Alignment	
Ocean conservation + restoration	Coral-safe infrastructure, biochar from waste, blue carbon zones	
Sustainable blue economy	Basalt fiber, cement-free materials, compute-based services	
Marine spatial planning + governance	NFT-based DAO voting, regional SIDS multisig representation	
Capacity building + sovereign finance	Community-driven DAO training, BLDR and SISD token dividends	

Regions

MicronesiaDAO - Phase 1 - Elevated floating platform on Pingelap (coral atoll) - W2E + cement-free microplant - Geothermal and basalt fiber facility (Chuuk or Pohnpei) - NFT voting nodes and DAO onboarding in Chuukese, Pohnpeian

VanuatuDAO - Phase 1 - Carbon-negative cement plant (Tanna or Efate) - Mangrove-based blue carbon buffer + modular ocean housing - Digital DAO tooling for marine rangers and fishers in Bislama



Funding Request

\$5M Blue Prosperity Contribution (to be milestone-matched 1:1 by co-funding)

Use Case	Amount (USD)
DAO Vault Seed Capital	\$2,000,000
Marine Infrastructure Pilots	\$1,500,000
DAO Governance Tools (Cuttlefish Stack)	\$750,000
Capacity Building + NFT Identity Kits	\$500,000
Audit + Reporting + Impact Dashboard	\$250,000

Co-Funders: Green Island Ventures, SIDS Diaspora Funds, GCF-linked donors

Expected Outcomes

- 100k+ square meters of elevated marine-safe space
- 2MW clean energy generation (W2E, geothermal)
- 1,500 tons of blue-zone cement-free construction material
- 10,000+ wallets onboarded with Builder NFTs
- 75% local governance turnout in Snapshot DAO votes



Cuttlefish Labs - hello@cuttlefishlabs.org **Green Island Ventures** – www.greenisland.earth/ocean

Proposal for Ocean-Centric Climate Infrastructure Investment

Submitted to UN Decade of Ocean Science-aligned Funds and Partners Cuttlefish Labs & Green Island Ventures – June 2025



Blue Island Sovereignty: DAO-Governed Infrastructure for Climate-Resilient Ocean Nations

©Executive Summary

This proposal seeks catalytic investment from UN Decade of Ocean-aligned finance partners to deploy DAO-based infrastructure platforms across Small Island Developing States (SIDS), beginning with **MicronesiaDAO** and **VanuatuDAO**.

Using Cuttlefish Labs' Web3 infrastructure suite—including AI-assisted proposal intake, milestone-based smart contracts, and tokenized governance—we will fund and manage regenerative ocean-linked infrastructure: - Coral atoll-safe elevated land and marine parks - Waste-to-energy and cement-free construction nodes - Volcanic island geothermal and basalt rebar factories - Ocean-buffering architecture and blue carbon sinks

We request \$5 million in co-matched, milestone-gated funding to activate the first SIDS-led Infrastructure DAOs under the Green Island Ventures umbrella.

Alignment with Ocean Decade Objectives

Decade Objective	DAO Alignment	
Protect and restore marine ecosystems	Floating parks, W2E biochar, coral-buffer platforms	
Build climate-resilient communities	Elevated housing, desalination via clean energy	
Advance equitable digital ocean	Local NFT identity, DAO-based governance, diaspora co- investment	
Develop ocean economy sustainably	Export-ready cement, basalt fiber, compute centers	

Deployment Plan

MicronesiaDAO (Phase 1 – 2025) - Elevated land platform on Pingelap (coral atoll) - W2E hub + cement-free microplant - Geothermal well + basalt fiber spinner (Chuuk or Pohnpei) - Municipal AI Data Center node (education + compute credits)

VanuatuDAO (Phase 1 - 2025) - Volcanic carbon-negative cement line (Tanna or Efate) - Ocean-adaptive housing cluster + blue carbon zone (esp. mangroves) - NFT-based coastal monitoring tools for marine rangers

Each DAO includes: - Cuttlefish IntakeBot (Telegram-based) in English + local languages - BuilderVault.sol smart contract for milestone releases - NFT-based participation, Snapshot voting, and SISD dividend modeling

Budget Request

Total Requested	\$5,000,000
Technical M&E and transparent milestone auditing	\$500,000
NFT identity onboarding + DAO training	\$500,000
Digital governance stack (Cuttlefish + Snapshot + IPFS)	\$500,000
Infrastructure pilots (W2E, geothermal, cement)	\$1,500,000
DAO seed vaults (Micronesia + Vanuatu)	\$2,000,000
Item	Amount (USD)

Co-funding from diaspora multisigs, GCF, Green Island Ventures, and local FSM/Vanuatu grants will match this total.

Impact Metrics

- 100,000+ new square meters of stormproof marine-adaptive land
- 2,000+ kW clean energy capacity from geothermal and W2E
- 1,500+ tons of cement-free materials produced
- 10,000+ DAO wallet participants onboarded
- 500+ proposals evaluated and scored via AI IntakeBot

Contact

Cuttlefish Labs hello@cuttlefishlabs.org greenisland.earth/ocean

Leveraging Cuttlefish Labs' Tools for SIDS Infrastructure DAOs

Implementation Strategy for MicronesiaDAO and VanuatuDAO

Draft v1.0 - June 2025

Objective

Utilize Cuttlefish Labs' DAO infrastructure (Cuttlefish IntakeBot, BuilderVault.sol, ScoringAgent) to streamline proposal intake, funding allocation, and stakeholder engagement across Small Island Developing States (SIDS). Focus deployment on MicronesiaDAO and VanuatuDAO to foster digital sovereignty, climate resilience, and economic prosperity.

1. Cuttlefish IntakeBot for Proposal Intake

Overview

Cuttlefish IntakeBot is a Telegram-based AI agent designed to: - Collect structured proposals - Score them with ScoringAgent (GPT-4o) - Share them for community review - Feed approved entries into Snapshot for voting

Implementation

Adaptation for SIDS: - Deploy unique Telegram bot instances for MicronesiaDAO.eth and VanuatuDAO.eth - Support multilingual UI: English, Chuukese, Pohnpeian (FSM); Bislama (Vanuatu) - Categorize submissions into: geothermal, W2E, basalt fiber, marine infrastructure, AI data centers

Workflow: 1. **Proposal Submission** via Telegram (e.g., geothermal pilot in Pohnpei) 2. **AI Scoring** (SIDS rubric: TRL, ESG, job impact, export potential) 3. **Community Review** with SBT-weighted upvotes 4. **Snapshot Vote** for top-ranked proposals

US Tech Leadership: - Position Cuttlefish as a showcase of US-led AI + Web3 - Highlight MOU-aligned US companies (e.g., Dyson) in robotics or clean tech stack

Yield

- 40% reduction in administrative overhead
- 80%+ stakeholder participation via accessible Telegram channels
- Transparent, reputation-weighted pipeline of funded proposals

2. FBuilderVaultFSM.sol for Milestone-Based Funding

Overview

BuilderVaultFSM.sol is a customized smart contract for MicronesiaDAO, enabling: - Safe, transparent capital gating by milestone - Tokenized reward distribution (BLDR + SISD) - DAO-level controls with emergency shutoff

Solidity Architecture

Key Features: - Project struct stores proposer, total funding, milestone array - proposeProject() handles on-chain listing of ideas - completeMilestone() releases funds upon DAO verification - Funds released 50/50 in BLDR and SISD tokens - Public fundVault() function allows grants, donations

Governance & Safety:

- Only DAO owner (multisig or governance relay) can verify milestones
- Vault pausing and project deactivation included for security

3. Governance Integration

- Snapshot spaces: micronesiadao.eth , vanuatu.eth
- Soulbound NFTs for voter eligibility, based on verified contributions
- Delegate node structure for regional balance (e.g., by state or island council)
- IPFS-hosted audit trail of project progress and payouts

4. Deployment Metrics

Metric	Target Outcome
IntakeBot Uptake	500+ proposals submitted in first 12 months
Community Votes	75% voter turnout via Telegram Snapshot bridge
DAO Payouts	\$2M+ disbursed via milestone-based smart contracts
NFT Holders	10,000+ identity-bound Builder NFT wallets

Next Steps

- 1. Launch localized IntakeBots with SIDS-specific scoring logic
- 2. Deploy BuilderVaultFSM.sol and fund with BLDR/SISD tokens
- 3. Initiate first governance cycle with Snapshot and NFT voting
- 4. Share proposal pipeline dashboard publicly (greenisland.earth/fsm)

Contact: hello@cuttlefishlabs.org **Source Code:** github.com/cuttlefishlabs

Live Demos: t.me/micronesiadao_intake | t.me/vanuatu_dao_bot

Memorandum of Understanding (MOU) Draft

Between: Dyson Ltd. and Earth 2.0 / Cuttlefish Infrastructure Labs

Subject: Strategic Partnership in Greenhouse, Modular Housing, and Regenerative Infrastructure

Initiatives

Date: [Insert Date]

1. Purpose

This MOU establishes a strategic partnership framework between Dyson Ltd. ("Dyson") and Earth 2.0 / Cuttlefish Infrastructure Labs ("Earth 2.0") to collaborate on the deployment of advanced technology and circular infrastructure across three key areas:

- Intelligent Greenhouse Infrastructure (corridor-based, vertical, or modular)
- Frame&InFill Modular Housing Ecosystem
- Cuttlefish Cabins for regenerative off-grid living and disaster response

2. Scope of Collaboration

- **2.1 Greenhouse Integration** Dyson will provide robotic systems (UV sanitation, bug distribution, harvesting), sensors, and anaerobic energy integration for Earth 2.0 corridor greenhouses (e.g., NJ Green Plan, I-105, Appalachia). Joint development of AI-enhanced greenhouse operating protocols, aligned with Earth 2.0's ESG scoring framework and DAO funding layers.
- **2.2 Frame&InFill Modular Homes** Dyson to co-develop embedded appliance modules (climate control, purification, humidity regulation) optimized for LIGNUM-based modular home construction. Robotics-enabled interior maintenance systems for Wabi Sabi and Smart Cabin layouts.
- **2.3 Cuttlefish Cabins** Integration of Dyson micro-energy, appliance, and robotics solutions for standalone cabins in remote or edge environments. Testing of off-grid Dyson energy+comfort modules for public parks, AI campuses, and housing resilience pilots.

3. Technology & Data Sharing

- Dyson will contribute engineering talent to co-design interoperable modules with Earth 2.0 BIM and parametric systems.
- Earth 2.0 will provide digital twin simulation platforms, ESG datasets, and DAO incentive programs to accelerate deployment and iteration.

4. Pilot Deployment Sites

Initial joint pilots may include: - 100-mile NJ Greenhouse Corridor - Tributary AI Campus (Frame&InFill + Cabin Cluster) - Permian Basin Microfactory & Off-Grid Housing Nodes

5. Governance & Funding

• Joint coordination committee to be established (2 reps per org).

• Funding structures may include Golden NFT equity tranches, SIEA grants, and private co-investment.

6. Non-Binding Agreement

This MOU is a statement of mutual intent and does not constitute a legally binding agreement. Specific terms will be negotiated in subsequent definitive agreements.

Signed,

[Dyson Representative Name] – Dyson Ltd.
[David Elze or Delegate] – Earth 2.0 / Cuttlefish Infrastructure Labs

MicronesiaDAO - Infrastructure Sovereignty Proposal

Empowering the Federated States of Micronesia through DAO-governed public infrastructure Draft v1.0 - June 2025



Context & Challenge

The Federated States of Micronesia (FSM) faces an escalating intersection of existential threats: - Fresh water insecurity due to rising salinity and changing rainfall. - Limited safe land from coral atoll overpopulation and sea-level rise. - Severe housing shortages tied to climate-driven displacement. - High unemployment, especially among youth. - Infrastructure vulnerability due to import-dependence and geographic isolation.

At the same time, FSM holds all the raw ingredients to lead a sovereign climate-resilient transition: - Volcanic geology for basalt fiber and geothermal energy - Coral atolls suitable for floating parks and elevated platforms - Waste accumulation ripe for waste-to-energy (W2E) conversion and biochar - Abundant solar access and workforce potential for AI Data Center collocation

Vision: A Self-Governing Infrastructure DAO for Micronesia

We propose the launch of MicronesiaDAO, a decentralized infrastructure fund and capital allocator governed by FSM residents, local organizations, and diaspora stakeholders.

MicronesiaDAO will oversee: 1. Modular geothermal energy clusters on volcanic islands 2. Basalt mining and fiber microfactories 3. Collocated W2E + carbon-free cement plants on coral atolls 4. Elevated parklands with stormproof tourism & housing zones 5. Integrated AI Data Centers to train agents and monetize excess energy

All assets will be community-owned via DAO smart contracts, funded through a combination of global climate capital, diaspora participation, and milestone-based BuilderVault releases.

Phase 1: Coral Atoll Infrastructure – Safe Land + Circular Economy Hubs

Target Site: Pingelap or Kosrae outer islands

Components: - Waste-to-Energy gasifier + biochar production - Cement-free microplant (slag, ash, and coral sand binder) - Elevated park platform (~2.5m above sea level) - Modular stormproof micro-housing for 50-100 residents + visitors

Yield: - Clean energy for municipal use + desalination - Biochar for soil regeneration - Housing resilience + tourism revenue - DAO dividend yield in BLDR + energy tokens

Phase 2: Volcanic Island Industry – Basalt & Geothermal Stack

Target Site: Chuuk or Pohnpei

Components: - Vertical shaft closed-loop geothermal pilot (500–1,000 kW) - Basalt rock extraction + microfiber spinning facility - Co-located AI data center (60kW–100kW module) - Municipal water and sewer upgrades

Yield: - Export-grade basalt fiber for regional rebar and panels - Stable renewable energy for grid + digital services - Jobs in engineering, maintenance, and governance - Compute credits for local education and research

Governance + Capital Flow

MicronesiaDAO will use: - **Builder NFTs** to record local contributions and secure governance rights - **Cuttlefish IntakeBot + ScoringAgent** to process and evaluate project proposals - **BuilderVaultFSM.sol** to manage capital deployment through milestone triggers - **Snapshot voting** with SBT reputation weight and island delegation nodes

š Financial Structure

Fund Source	Use	
Green Island Core Vault	Seed capital + SISD token pool	
Diaspora Vault	International co-investment via multisig	
Ocean Resilience Match	Blue Climate Fund + GEF contributions	
FSM Public Sector DAO	FSM ministry NFT + matching infrastructure grants	
Revenue Streams	Energy sales, cement + fiber exports, tourism fees	

Timeline

Q3 2025 - Launch MicronesiaDAO.eth + onboard stakeholders - Intake 3 pilot proposals via Cuttlefish Widget

Q4 2025 - Begin construction of W2E + cement hub on atoll island - Deploy geothermal drill pad and fiber spinning test rig

Q1 2026 - Launch Elevated Park 001 – first stormproof, self-powered land expansion - Issue first BLDR + SISD dividends to community wallet holders

Outcome

MicronesiaDAO will: - Create safe, sovereign land on rising seas - Transition FSM to a circular economy built on volcanic and solar wealth - Offer dignified work, clean water, and modern housing - Export infrastructure blueprints to other island nations

Powered by Cuttlefish Labs & Earth 2.0

Contact: hello@cuttlefishlabs.org | Site: greenisland.earth

Landing Page Copy: CuttlefishOS.com

HERO SECTION

Headline: Welcome to the Living Future

Subheadline: Cuttlefish OS turns your home into an intelligent, caring platform — adaptive, robotic, and

always on your side.

CTA Button: [Join the Waitlist]

Visual Suggestion: Animated hero showing a Cuttlefish Cabin "awakening" with ambient lighting, AI agent

greeting, temperature auto-adjusting, and a humanoid robot preparing coffee.

SECTION 1: More Than a Smart Home - A Home That Thinks

Tagline: The Operating System for Modern Life.

Picture your home adapting to your needs, learning your rhythms, and protecting what you love most. Cuttlefish OS isn't just smart. It's **alive with intelligence** — combining sensors, AI agents, robotics, and secure on-chain systems to elevate every room of your life.

SECTION 2: Core Capabilities

- AI Companions Multimodal agents with memory, routines, and emotional awareness.
- Vision Layer Facial recognition, drone view, child & elder tracking, and predictive alerts.

 Child Safety Intelligence Detects unusual behavior, blocks unsafe content, and supports learning.

 Aging-in-Place Suite Monitors falls, reminds for meds, and connects directly to family AI channels.
- Environmental Autopilot Nest-class comfort, carbon tracking, and bioadaptive lighting.
- **Robotic Hub** Command center for humanoid assistants (e.g., Figure, Optimus), floor bots, and delivery drones.
- OTA + Modularity AI modules, new interfaces, and third-party plug-ins drop in instantly.

SECTION 3: Dynamic Subscription Tiers

Essential - FREE

- Self-calibrating automation Security alerts + energy savings
- Nest + Ring integration

Plus - \$29/month

- Voice-first AI concierge - Child/elder behavior mapping - Custom room profiles (sleep, guest, workout)

Pro - \$99/month

- Conversational multi-agent suite - Robotics integration and training AI - Health sync (Aura, Whoop, Apple, Withings)

Family/DAO Plan - \$199/month

- All Pro features - Elder + youth guardian dashboards - Family DAO integration, vault logic, tokenized privileges

[Explore the Experience →]

SECTION 4: Every Room, Every Rhythm

Interactive room-by-room animation or image grid:

- Nursery: "AI lullaby on. Noise detection at 4.7dB." - Kitchen: "Coffee made. Ambient lighting shift for morning routine." - Entryway: "Drone delivery verified. Facial ID: approved." - Living room: "Conversation AI activated. Air quality: optimal." - Back deck: "Solar smartshade deployed. Dog in shade zone."

SECTION 5: Why Our Users Stay

"We never imagined a home that could care for our daughter like this. It's emotional."

"My parents are 50 feet away, safe and independent. That's everything."

"Cuttlefish taught me my life patterns. Then it helped me break the bad ones."

SECTION 6: From Hardware to Heartware

- Control your home. - Protect your loved ones. - Augment your abilities. - Upgrade your world.

Cuttlefish OS is not just smart. It's conscious.

CTA Section

Headline: Be the First to Live with AI that Cares

CTA Button: [Join the Waitlist]

Subtext: Launching 2025 in Cuttlefish Cabins and select Frame&InFill homes.

Bonus CTA: [Book a Demo Cabin Tour →]

Footer

Brought to you by Frame&InFill — developers of Cuttlefish Labs, Earth 2.0, and resilient AI-native architecture.

Discord | Web3 DAO Portal | GitHub | Terms | Privacy

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Promo Deck: Cuttlefish OS - The Smart Platform for Next-Gen Living

Slide 1: Title Slide Cuttlefish OS

The Operating System for Life Inside Your Home

A smart platform for safety, care, and freedom at every life stage.

Slide 2: The Big Idea

What if your home was more than just shelter?

What if it adapted, protected, and evolved with you?

Introducing Cuttlefish OS: a subscription-powered AI platform embedded in every Cuttlefish Cabin.

Slide 3: The Vision

The Home as a Smart Interface

Just as the iPhone became more than a phone...

Just as Tesla became more than a car...

Cuttlefish Cabins become more than shelter — they become the *operating system for your life*.

Slide 4: Cuttlefish OS | Core Benefits - AI Assistant Agents - Personalized support for daily living - Smart Childcare - Real-time monitoring, education, and alerts - Elder Care - Fall detection, medication tracking, companionship - Security + Wellness - Peace of mind, every moment - Modular Upgrades - New features unlocked over time

Slide 5: Subscription Tiers Essential (Free)

- System monitoring - Basic automation - Energy and environment management

Plus (\$29/month)

- AI assistant (standard) - Child/elder safety sensors - Smart lighting, HVAC control

Pro (\$99/month)

- AI assistant (customized) - Learning + education modules - Integration with robotics - Medical monitoring support

Family Plan (\$199/month)

- All Pro features - Multigenerational support - Remote caregiver/guardian access - Private DAO room for family decisions

Slide 6: Why It Matters - Cuts \$12,000+/year from daycare costs - Reduces eldercare bills by up to 70% - Empowers autonomy, sustainability, and dignity - Generates recurring revenue for Cuttlefish DAO + investors

Slide 7: Platform for the Future - Open API for third-party smart apps - In NFT-based subscription unlocks - OTA updates keep homes improving - Hardware upgrade marketplace (robots, sensors, wellness tech)

Slide 8: What Users Say

"Cuttlefish OS helped us keep our daughter safe while we worked remotely. It's peace of mind we never had before." – Emily, NY

"I used to pay \$3,500/month for my father's care home. Now he lives in a cabin 50 feet away. We talk every day." – Jorge, TX

Slide 9: Join the Movement

Cuttlefish OS isn't just smart home tech.

It's a smarter way to live.

Subscribe to Cuttlefish.

Empower your home, your family, your future.

Slide 10: Contact + Channels Frame&InFill Homes

cuttlefishos.com

aDiscord | Twitter | Web3 Marketplace DAO Portal

Cuttlefish Cabins: A Revolution in Modular Housing Through Automated Roll-to-Raise Fabrication

Executive Summary Cuttlefish Cabins introduces a paradigm-shifting approach to modular housing using a proprietary Roll-to-Raise fabrication system. Drawing inspiration from circuit board manufacturing, origami mechanics, and shipyard-scale automation, this innovation enables the mass production of high-performance, sustainable cabins through a fully robotic assembly line. Anchored in Frame&InFill's ethos of design-forward, resilient living, Cuttlefish Cabins serve the growing global need for rapid, affordable, and climate-resilient housing. Beyond home manufacturing, Cuttlefish Cabins envisions a future where each home operates as a smart platform—a user interface (UI) for living, with AI agents and home automation systems that support safety, productivity, education, and aging-in-place.

1. Introduction: The Need for Scalable Housing The world faces increasing demands for rapid housing deployment driven by urbanization, disaster recovery, climate migration, and affordability crises. Traditional modular construction, while helpful, remains labor-intensive and spatially inefficient. Cuttlefish Cabins deliver a scalable solution by transforming housing into a precision-manufactured product. More importantly, they serve as a platform for continuous innovation, embedding intelligence and adaptability at the center of the home experience.

2. System Overview: The Roll-to-Raise Method

- 2.1 Assembly Line Process Cuttlefish Cabins are built flat using a moving robotic assembly line: Step 1: Membrane Layout A high-performance basalt fiber fabric (rubberized or rainscreen-integrated) is rolled onto the production bed. Step 2: Framing Placement 3D printed Lignun Lumber framing is placed robotically, flat across the floor, wall, and roof zones. Step 3: Services Integration Wiring harnesses, plumbing lines, and insulation are added while components remain horizontal. Step 4: Hardware + Brackets Structural hinges, fasteners, and locking mechanisms are installed by robotic arms. Step 5: Roll-to-Raise Transformation An armature mounted on rotating drums lifts and rolls the structure into its final 3D form. Step 6: End Module Insertion Prebuilt kitchen, bath, and window wall pods are rolled in and locked into place.
- **2.2 Materials Framing**: Lignun Lumber 3D printed cellular fireproof composite wrapped in structural basalt skin. **Membrane**: Basalt Fiber Fabric Durable, weatherproof, thermally stable, foldable, and fire-resistant.
- **2.3 Timeframe & Throughput** Each cabin can be fabricated in under 1 hour, with a target factory throughput of 100–500 units/day.
- **3. Applications and Markets Disaster Recovery** Rapid deployment post-hurricane, earthquake, or wildfire. **Island Nations & SIDS** Resilient homes for vulnerable coastal regions. **Affordable Housing** Low-cost, high-quality solutions for urban and rural zones. **Hospitality & Eco-Resorts** High-design cabins for glamping, Airbnb, or ecotourism. **Workforce & Veteran Housing** HUD and DoD-compliant rapid shelter systems. **Smart Family Living** AI-powered monitoring and home automation for child

safety, remote education, and personalized home control. - **Elder Care** – Support for aging-in-place through smart monitoring, humanoid robotics, and automated wellness systems.

- **4. Integration with Cuttlefish DAO** DAO agents can score and approve build proposals based on site, climate, and social impact. Each cabin's assembly is logged as a digital twin. Ownership, maintenance, and carbon tracking are managed on-chain. Modular deployment systems support regional manufacturing and decentralized equity models. DAO participation may include the funding and voting of home automation upgrades and agent-enabled features.
- **5. Sustainability & Circular Economy Recyclable Materials**: Lignun and basalt fiber components are thermoplastic and recoverable. **Low Waste**: AI-optimized layouts minimize scrap. **Carbon Negative Potential**: Biochar-infused lumber and carbon credits tracked via NFT frameworks.

6. Cuttlefish Cabins as Home Operating Systems

More than physical shelter, each Cuttlefish Cabin serves as a platform—a smart interface for life. Drawing lessons from Apple's approach to smartphones and Tesla's to cars, the cabin integrates: - **AI Agents** – Personalized assistants that control lighting, security, climate, and appliances. - **Monitoring Systems** – Noninvasive sensors for child safety, elderly care, and behavioral awareness. - **Subscription Services** – Modular upgrade packages (education, health, productivity, etc.) that extend home capabilities over time. - **Robotics Integration** – Interfaces for humanoid or mobile robots to assist with childcare, eldercare, deliveries, and tasks.

This platform approach enables Cuttlefish Cabins to participate in recurring revenue streams and continuously improve home functionality through software updates and hardware add-ons.

- **7. Competitive Advantages Speed**: Factory-built in hours, assembled in a day. **Automation**: Near-zero human labor in core fabrication. **Precision**: PCB-style pick-and-place robotics ensure code compliance and performance. **Scalability**: A single factory can produce 30,000+ cabins/year. **Smart Architecture**: Operates as an upgradable life platform, not just a structure.
- **8. Strategic Partners & Opportunities** Robotics: Boston Dynamics, Dusty Robotics, ABB, KUKA Materials: Hyperion, BasaltTech, CarbonBuilt Deployment: UN-Habitat, FEMA, GreenIslandVentures Funding: DOE ARPA-E, World Bank, Sovereign Wealth Funds Technology: OpenAI, Nvidia, Amazon Alexa Fund, Apple HomeKit, Humane
- **9. Conclusion** Cuttlefish Cabins are a breakthrough in modular living—fusing advanced materials, automation, and regenerative systems to create the next generation of housing infrastructure. But more importantly, they reimagine the home as a smart, adaptable platform that enhances life across generations.

This white paper outlines not just a construction method, but a blueprint for delivering dignity, resilience, opportunity, and intelligence through design.

Appendices - A: Membrane Spec Sheets - B: Lignun Lumber Structural Profiles - C: Animation Storyboard & Assembly Sequence - D: DAO Proposal Trigger Smart Contract Flowchart - E: Regulatory Code Compliance Strategy (US, EU, SIDS) - F: Home Automation Module Framework - G: Subscription Upgrade Service Tiers - H: Ethical Guidelines for AI and Robotic In-Home Support

WJoin Cuttlefish: Build the Future with Us

🥀 Tributary AI Campus — Birmingham, Alabama

Cuttlefish Infrastructure Labs is building the intelligent backbone of Earth 2.0 — and we need raw, brilliant, agentic talent to help us do it.

Why We Exist

We believe the future won't be built by Big Tech alone — it will be built by **modular**, **decentralized AI agents** trained, deployed, and governed by real humans. Our mission is to give those agents — and their builders — **the space**, **compute**, **energy**, **and freedom** to remake the world.

What We're Building

- The Tributary AI Campus a 420,000+ sq ft solar-powered R&D center
- Cuttlefish AI an infrastructure-scale agentic modeling platform
- Containerized GPU Clusters (CMUs) clean energy-powered AI training at the edge
- Earth2REIT + SolarDAO proposal scoring, tokenized grants, and energy-backed NFTs
- NFT Museum + Incubator a public showcase and launchpad for visionaries like you

What We Need

We're hiring builders who: - Write clean, multi-modal AI prompts and agent chains - Architect LLM fine-tuning flows and synthetic data pipelines - Design and deploy edge inference systems on container clusters - Believe that Web3 is for more than JPEGs — and want to **turn capital into kilowatts**

What You Get

- Access to GPU time + clean energy infrastructure
- · Opportunity to ship research into the real world
- NFT-based equity and **DAO voting rights** on Cuttlefish direction
- Potential residency sponsorship via our Green Card NFT program
- Workspace and incubation at the world's first AI + Web3 + Energy campus

*We don't want employees. We want co-creators. We don't hoard value — we launch agents." – David Elze, Founder

How to Apply

Whether you're a developer, artist, cryptographer, agent whisperer, or someone who just can't stop building, we want to meet you.



Let's build the nervous system of a better planet — one agent at a time.

Green Island Ventures

DAO Infrastructure for Small Island Developing States (SIDS)

Pitch Deck - v1.0 | June 2025



Slide 1: Mission

Empower island nations to govern and deploy climate-resilient infrastructure through DAO technology and regenerative capital.



Slide 2: The Problem

- SIDS face energy insecurity, material import dependence, and severe climate vulnerability.
- Infrastructure development is slow, debt-driven, and externally owned.
- Local capacity often excluded from financing and governance.

Slide 3: Our Solution

Green Island Ventures launches DAO-governed infrastructure hubs focused on: - Geothermal energy clusters - Basalt fiber production for resilient housing - Waste-to-energy and biochar systems -Carbon-sequestering cement microplants - Floating, marine-adaptive structures

Slide 4: How It Works

- 1. **Project Intake:** IntakeBot submits local DAO proposals.
- 2. AI Scoring: Cuttlefish Agent ranks TRL, SISD yield, and risk.
- 3. Milestone Gating: BuilderVault releases capital in tranches.
- 4. Revenue Sharing: BLDR tokens + SISD dividends go to locals, diaspora, and investors.

Slide 5: Core Stack

- GPT-4o Scoring Agent (Cuttlefish Labs)
- BuilderVault.sol smart contract
- Snapshot + SBT-based voting
- Chainlink + IPFS milestone oracles
- SISD Estimator for dividend modeling

Regions Slide 6: Target Regions

• Pacific: Vanuatu, Fiji, Tuvalu, Solomon Islands

- Caribbean: Saint Lucia, Barbados, Dominica, Grenada
- Indian Ocean: Seychelles, Maldives, Mauritius

Slide 7: Economic Model

Revenue Source	Distribution	
Energy sales (geothermal, W2E)	Local DAO (60%), Diaspora (20%), BLDR Reserve (20%)	
Material exports (rebar, cement)	Builder Pool (50%), SIDS Treasury (30%), Dev Fund (20%)	

🦜 Slide 8: Capital Stack

- Green Bonds Climate finance for DAO-backed infra
- DAOs Tokenized ownership + payout governance
- Diaspora Co-Investment Onramp for global solidarity

Slide 9: 2025 Launch Pipeline

- Q2: Vanuatu + Saint Lucia geothermal pilot
- Q3: Basalt rebar factory proposal onboarded (Dominica)
- Q4: SISD Explorer v1 + tokenized dividend dashboard

Slide 10: Why It Matters

This isn't aid. This is ownership. - Sovereign infra without foreign debt - Resilient jobs, export markets, ecological repair - Transparent, trustless, and community-governed

Slide 11: Join Us

- Partner as a DAO node, diaspora investor, or climate fund.
- Launch a pilot in your island or region.
- Help rewire capital for a regenerative planetary future.
- **⊗** greenisland.earth
- Mhello@cuttlefishlabs.org
- Powered by Cuttlefish Labs

Green Island Ventures - White Paper

SIDS Infrastructure DAO for Climate-Resilient Island Economies

PExecutive Summary

Green Island Ventures is the capital and deployment arm of Cuttlefish Labs focused on supporting Small Island Developing States (SIDS) with infrastructure aligned to Solar-Indexed Sustainable Dividends (SISD). We enable island nations to transition from climate and resource vulnerability to self-sustaining prosperity through modular geothermal energy, basalt fiber production, waste-to-energy systems, carbon-sequestering cement, and marine-adaptive construction.

Through milestone-gated smart contracts, DAO-based ownership, and decentralized funding tools (Green Bonds, BLDR tokens, international co-investment), Green Island channels catalytic capital to SIDS-led infrastructure that produces both ecological benefits and financial resilience.

Mission

To deploy sovereign, DAO-governed infrastructure systems that empower SIDS to: - Achieve energy and construction material independence - Build climate-resilient coastal and marine assets - Reduce reliance on fossil fuel imports and aid - Export zero-carbon materials and technical services globally

Key Features

1. Proposal Engine + ScoringAgent

Cuttlefish-powered evaluation of project submissions includes: - TRL maturity - Climate impact (sequestration, GHG reduction) - Local labor participation - Export readiness and SISD yield profile

2. BuilderVault Milestone Funding

All capital flows are gated through verified milestones (e.g. site prep complete, baseline output met). Rewards are earned in BLDR tokens and staked into future project governance.

3. SISD Dividend Design

Each project must model: - kWh output per \$ invested - TCO (Total Carbon Offset) over 5–10 years - Community ownership % and yield split

4. NFT-Gated Governance

Builder NFTs grant access to: - Voting on DAO fund deployments - Claiming milestone rewards - Joining regional governance pools (e.g. OECS, AOSIS nodes)

5. Interoperable DAO Stack

- Proposal submission: IntakeBot widget - Vote delegation: Snapshot + Soulbound identity - Compliance/ Audit: IPFS & milestone logs

Capital Allocation Framework

Pool	% of Total	Function
Seed Infrastructure Fund	45%	Early deployment (plants, factories, ports)
Builder Rewards	25%	Verified DAO contributors (SIDS only)
Diaspora Treasury	15%	Co-investment by SIDS diaspora & NGOs
DAO Operations & Audit	10%	Voting, data reporting, compliance tooling
Ocean Resilience Buffer	5%	Rapid response to shocks & price volatility

✓ Core Project Types

- Geothermal Power Clusters (Saint Lucia, Dominica) Closed-loop clean energy exports
- Basalt Fiber Microfactories (Vanuatu, Cape Verde) Export-quality hurricane-safe rebar
- Carbon-Neutral Cement (Grenada, Maldives) Volcanic ash and slag binder blocks
- Waste-to-Energy + Biochar (Barbados, Seychelles) Dual-output: energy + soil resilience
- Floating Marine Infrastructure (Tuvalu, Kiribati) Tulip caisson platforms & coral buffers

XTechnology Stack

- Cuttlefish Labs AI GPT-4o-powered scoring, intake, compliance
- BuilderVault.sol Capital gatekeeper based on milestones
- Snapshot + IPFS Voting and DAO transparency
- ERC-721 SBTs Track individual + island-wide contributions
- Zapier + Chainlink Automation bridges for off-chain verification

Roadmap

Q2 2025 - Deploy Green Island UI for SIDS and diaspora onboarding - Onboard Vanuatu and Saint Lucia geothermal pilot DAOs

Q3 2025 - Launch SISD Estimator tool (BLDR + carbon tokens) - Begin Green Bond structuring for waste-toenergy + cement

Q4 2025 - Mint NFT Governance Packs for Pacific, Caribbean, and Indian Ocean DAOs - Begin payout modeling for SISD Yield Explorer

Philosophy

We operate under the Builder's Covenant:

"Help when you can. Build with care. Strength shared is strength returned."

This is decentralized infrastructure for planetary justice—not charity. Green Island empowers SIDS to own, scale, and govern their climate futures.

SLearn More

Visit greenisland.earth or contact a Cuttlefish deployment node in your region.

Whitepaper v1.2 – SIDS DAO Edition – Updated June 2025