

Garden Fleet							26 Risks - All Classifications - Risks with no Action Plan at 09/04/2025										Risk Register Extract							
ID Concern [reg.]	Category / Element	Risk Short Title	Description	Desired Outcome	Current Situation	Proposed Strategy	Risk (three-part) Statement			Current Risk			Response	Mitigating Action / Response					Manageability	Residual Risk	Risk Owner	Target Review Date	Close Date	Last Review Date Notes
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C00001	R1 Environment / Weather	Operational Downtime from Extreme Weather	Typhoons and tropical storms in the Philippines can shut down operations for days or weeks at a time.	Resilient operations with weather response plans <div>Could Go Wrong?</div> Downtime leads to missed ESG milestones	Climate risks noted; no detailed fleet weather SOP	Integrate real-time weather alerts into PHC, include storm downtime buffers	Operating in high-risk weather zones	Storms halt fleet and cleanup	Delay in deliverables and reporting	1	1 H-1 C-1 Q-1 S-1	1	Mitigate						5	1	Jones, James		Open	
C00006	T1 Project Scope	Scope Expansion Risk Due to ESG Service Demand	The scope may expand rapidly beyond initial targets due to heightened interest from governments and ESG-driven corporations.	Maintain scalable and manageable rollout phases. <div>Could Go Wrong?</div> Overextension may dilute quality and overwhelm fleet.	ESG interest is increasing as regional partners seek impact delivery beyond Palawan.	Phase project expansions by region, guided by PHC metrics and partner readiness.	Escalating demand for ESG proof-of-impact services	Fleet expansion decisions outpace operational capacity	Operational inefficiencies and brand reputation risk	1	1 H-1 C-1 Q-1 S-1	1	Mitigate						5	1	Winter, David		Open	
C00008	T3 Technical Processes	NFT Impact Verification Delays	The issuance of Ocean and Mangrove Guardian NFTs is key to transparency, but syncing blockchain logs with physical verification may lag.	Ensure real-time, verifiable NFT issuance after each cleanup/reforestation on event. <div>Could Go Wrong?</div> Stakeholders lose trust if impact data isn't promptly verified	NFT generation pipeline is partially automated but not yet stress-tested at scale	Create a buffer protocol that ensures field verification completes before NFT minting	Delay in syncing on-ground data with blockchain systems	NFT issuance misaligned with actual work completion	ESG audit delays and reputational damage	1	1 H-1 C-1 Q-1 S-1	1	Mitigate						5	1	Khan, Tahira		Open	Relates to C00005 - Risk of greenwashing accusations if blockchain data isn't properly maintained
C00009	T4 Construction	Port and Processing Center Delays	The initial port and CubeSpawn facility in Palawan must be completed to launch full operations	On-time, on-budget construction of essential infrastructure <div>Could Go Wrong?</div> Delays would stall both cleanup and revenue-generation	Site planning is underway, but construction permits and logistics are pending	Use local contractors and build in contingency buffers in the PHC schedule	Local regulatory and procurement delays	Construction overruns initial 2025 timeline	Revenue and ESG delivery targets missed	1	1 H-1 C-1 Q-1 S-1	1	Mitigate						5	1	Jones, James		Open	
C00010	T5 Startup	Initial Token Launch Vulnerabilities	The GF token launch (ICO) will fund operations but also exposes the project to cyber risk and volatility	Secure and successful ICO and wallet infrastructure deployment <div>Could Go Wrong?</div> Breach or poor uptake could jeopardize funding	Tokenomics and smart contracts are written and await audit	Commission third-party audit and simulate live testnet environments	Unverified smart contracts go live under public load	Token instability or breach undermines funding	Project credibility and liquidity impacted	1	1 H-1 C-1 Q-1 S-1	1	Mitigate						5	1	Honkanen, Kari		Open	Refers to C00003 - Funding gaps or delays in IEO / NFT sales
C00011	T6 Logistics / Warehouse	Fleet Supply Chain Risk from Island Geography	Operating in archipelagic regions like Palawan poses unique logistics challenges	Reliable, consistent supply chain for fuel, parts, and waste transport <div>Could Go Wrong?</div> Delays in parts or fuel affect mission cadence	No centralized supply hubs established yet	Partner with local suppliers and maintain minimum stock levels onboard	Distributed, remote coastal operation model	Supply interruption to active fleet	Downtime, lost ESG output, cost overruns	1	1 H-1 C-1 Q-1 S-1	1	Mitigate						5	1	Harakat, Abu Bakr		Open	
C00012	C1 Feasibility/Business Case	ESG Token-Based Model Validation Risk	The feasibility of a self-sustaining ESG business model anchored in blockchain tokenomics is unproven at scale.	A validated, scalable business model supporting long-term ESG contracts <div>Could Go Wrong?</div> Token uptake fails, undermining revenue base	Business case is compelling on paper, but market-tested examples are scarce	Phase deployment with traditional contracts while piloting token-based ESG packages	Novelty of ESG tokens in real-world service delivery	Market fails to adopt or value the token model	Funding dries up, contracts unfulfilled	1	1 H-1 C-1 Q-1 S-1	1	Mitigate						5	1	Goswami, Gyotrimoy		Open	
C00013	C2 Market/Product	Misalignment Between ESG Client Expectations and GF Deliverables	ESG clients may expect broader impact services than GF is positioned to deliver (e.g., carbon credits, biodiversity services).	Clear match between GF service scope and client expectations <div>Could Go Wrong?</div> Reputational damage or loss of contracts from unmet ESG outcomes	Service scope defined, but market signals broader desires	Align packages to service core (cleanup + reforestation), refer out optional extras	Broad and varied interpretations of ESG compliance	Client dissatisfaction with narrow scope	Churn, negative reporting, brand erosion	1	1 H-1 C-1 Q-1 S-1	1	Mitigate						5	1	Dizon, Alona		Open	
C00015	C4 Estimate Uncertainties	Unit Cost Overruns from Regional Variability	Cost estimates for fleet ops, fuel, and infrastructure may vary widely between deployment zones	Contingency-inclusive financial estimates <div>Could Go Wrong?</div> Unplanned costs undermine viability in new regions	Philippine costs mapped, future sites not	PHC tracking of per-unit cost in Palawan and adjust estimates per region	Local inflation, tariffs, logistics complexity	Cost per cleanup/km² exceeds target	Negative ROI on expansion	1	1 H-1 C-1 Q-1 S-1	1	Mitigate						1	1	Winter, David		Open	
C00016	C5 Suppliers / Vendors	Dependence on Limited Coastal Tech Vendors	Specialized equipment and CubeSpawn modules may have limited supply chain depth	Reliable multi-source supply of core systems <div>Could Go Wrong?</div> Supplier delays stall operations	CubeSpawn is the preferred vendor; backups not secured	Qualify secondary vendors and modular alternatives	Niche, early-stage technology	Equipment not delivered or maintained	Processing bottlenecks and cleanup delay	1	1 H-1 C-1 Q-1 S-1	1	Mitigate						1	1	Knight, Tony		Open	

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C00017	C6 Legal / Contract Terms	Cross-Jurisdiction ESG Service Contracts	Legal variations across countries may complicate ESG service delivery contracts	Legally robust, flexible ESG contracts <div>Could Go Wrong?</div> Enforcement or tax status varies by country	Initial contracts scoped for the Philippines	Legal template library per country, reviewed by local counsel	ESG legal treatment is evolving	Contract terms invalid or hard to enforce	Loss of revenue or regulatory risk	1	1 H-1 C-1 Q-1 S-1	1	Mitigate							1	1	Khan, Tahira		Open	Relates to C00002 - Regulatory shifts (ESG reporting, crypto laws, maritime codes)	
C00018	C7 Currency/Inflation	FX Risk on Local Ops and Global ESG Sales	Operations in peso zones and token trading in USD/Celo introduce currency risk	Currency buffer and flexible pricing structure <div>Could Go Wrong?</div> FX shifts undermine real-world purchasing power	No FX hedge mechanism in place	Build FX tracker into PHC finance reports and apply token stabilization logic	Split operational and funding currencies	GF Token weakens against local cost base	Ops cost inflation, wage and procurement stress	1	1 H-1 C-1 Q-1 S-1	1	Mitigate							1	1	Jones, James		Open		
C00019	C8 Tax/Tariff	Unclear Tax Status of Impact NFTs	NFT rewards for impact may face inconsistent tax treatment across jurisdictions	Clear, compliant tax guidance for NFT issuance and receipt <div>Could Go Wrong?</div> Recipients may face unexpected tax burdens	Token/NFT tax advice varies by country	Create jurisdiction-specific NFT tax guides for stakeholders	Rapidly evolving global NFT/tax laws	Legal challenge or fine due to incorrect tax handling	Loss of trust, legal liability	1	1 H-1 C-1 Q-1 S-1	1	Mitigate							1	1	Honkanen, Kari		Open		
C00020	M1 Project Management	Complexity of Multinational PHC Governance	Coordinating projects across countries with varying stakeholder expectations, PHC dashboards, and ESG metrics adds complexity to project governance.	Unified and responsive PHC project management framework <div>Could Go Wrong?</div> Misaligned or duplicated reporting, gaps in accountability	Initial deployment limited to Palawan, with global expansion planned	Standardize PHC training and dashboards before international rollout	Inconsistent governance practices across sites	Projects managed inconsistently or ineffectively	Missed targets, audit failures, reputational risk	1	1 H-1 C-1 Q-1 S-1	1	Mitigate							1	1	Harakat, Abu Bakr		Open		
C00021	M2 Project Organisation	Undefined Chain of Command in Hybrid DAO/Board Ecosystem	Confusion may arise over who makes final decisions—Board, DAO, Steering Committee, or field teams.	Clear, documented authority structure <div>Could Go Wrong?</div> Delays and tension from unclear roles	Governance model spans DAO, Board, and partners	Publish and distribute visual decision tree and role maps	Overlapping authority domains	Conflict over decisions or responsibilities	Inefficiencies, delays, stakeholder friction	1	1 H-1 C-1 Q-1 S-1	1	Mitigate							1	1	Goswami, Gyotrimoy		Open		
C00022	M3 Communication	Cultural and Language Barriers in Coastal Communities	Communication with local partners and workers may be hindered by language, literacy, or cultural disconnects.	Inclusive, culturally aware project communications <div>Could Go Wrong?</div> Misunderstanding of roles or safety procedures	Engagement is mostly informal with limited translation	Deploy multilingual community liaisons and translate all PHC materials	Local-linguistic diversity unaccounted for	Instructions misunderstood or ignored	Safety risk, loss of trust, lower participation	1	1 H-1 C-1 Q-1 S-1	1	Mitigate							1	1	Dizon, Alona		Open	Relates to C00004 - Community engagement sustainability over multi-year deployments	
C00023	M4 Project Resourcing	Crew Fatigue Risk from Lean Startup Staffing	Understaffing at the pilot phase may result in overworked teams and reduced morale.	Balanced, motivated crew operations <div>Could Go Wrong?</div> Burnout leads to safety issues or high turnover	Crew plan calls for 11 personnel per fleet, no spares	Build flexible on-call pool and monitor crew hours via PHC Timechunks	Insufficient personnel buffer	Team members overworked	Staff retention issues and lower productivity	1	1 H-1 C-1 Q-1 S-1	1	Mitigate							1	1	Almeida, Gustavo		Open		
C00024	M5 Operations / People	Delays in Permitting and Local Hiring Approvals	Permits for port construction and crew onboarding may face bureaucratic delays	Timely clearance of all project permits and local workforce integration <div>Could Go Wrong?</div> Delays disrupt fleet operations and timelines	Permits under review; hiring frameworks vary	Use PHC permit tracker and assign local liaison for government coordination	Government process misalignment	Port or project start blocked	Cost overruns and missed commitments	1	1 H-1 C-1 Q-1 S-1	1	Mitigate							1	1	Winter, David		Open		
C00025	M8 Project Quality	Inconsistent Cleanup and Tree Planting Standards	Varying local contractor quality may lead to ESG metric failures	Standardized quality benchmarks applied across locations <div>Could Go Wrong?</div> Cleanups fail ESG verification; mangrove mortality rates spike	Early crews trained; no global QA system	Implement PHC-linked QA checklist and assign quality auditors	Lack of quality enforcement protocol	Projects fall short of verification thresholds	Lost trust from investors and clients	1	1 H-1 C-1 Q-1 S-1	1	Mitigate							1	1	Knight, Tony		Open	Relates to C00004 - Community engagement sustainability over multi-year deployments	
C00026	M9 Health / Safety / Environment	Inadequate PPE and Safety Training in Early Deployment	First wave of fleet deployment may cut corners on safety protocols due to time or cost pressures	Fully compliant HSE procedures from Day 1 <div>Could Go Wrong?</div> Injuries or environmental violations	PFT and PPE protocols exist, but onboarding incomplete	No-go rule for untrained personnel; PHC HSE log for every operation	Rushed deployment without safeguards	Safety incident or environmental damage	Reputational damage and regulatory setback	1	1 H-1 C-1 Q-1 S-1	1	Mitigate							1	1	Khan, Tahira		Open		
C00027	R2 Security / Language	Security Gaps for Remote Worksites and Equipment	Remote islands and floating units may face theft or vandalism due to limited patrol presence.	Secure operations with minimal loss risk <div>Could Go Wrong?</div> Equipment stolen or damaged	No dedicated security personnel for floating assets	Partner with local barangay officials; add mobile asset tracking	Unmonitored equipment in isolated areas	Loss of tools or fleet gear	Mission interruption and replacement cost	1	1 H-1 C-1 Q-1 S-1	1	Mitigate							1	1	Honkanen, Kari		Open		

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C00028	R3 Regulations	Risk of Non-Alignment with LGU Environmental Ordinances	Local government units (LGUs) may have varying environmental policies that conflict with standard GF practices.	Full LGU alignment and policy sync <div>Could Go Wrong?</div> Regulatory conflict blocks operations	Initial LGU outreach underway in Palawan	Create regional legal matrix and hold LGU compliance workshops	Policy mismatch between GF and LGUs	Permits or activities disallowed	Legal/PR damage, site relocation	1	1 H-1 C-1 Q-1 S-1	1	Mitigate						1	1	Harakat, Abu Bakr		Open	
C00030	R5 Utilities	Inconsistent Power and Water Access	Limited or unstable electricity and water at coastal bases may affect fleet, crew, and processing ops.	Uninterrupted power and clean water for daily operations <div>Could Go Wrong?</div> Operations pause due to lack of fuel, power, or hydration	No redundancy or off-grid systems yet installed	Deploy solar and rain-catch systems with battery reserves	Poor municipal infrastructure	Utility outage mid-operation	Environmental safety risk or task failure	1	1 H-1 C-1 Q-1 S-1	1	Mitigate						1	1	Dizon, Alona		Open	
C00031	R6 Approvals / Permits / Licenses	Delay in DENR and MARINA Clearances	Fleet operations and shoreline interventions require approvals from national environmental and maritime agencies.	Timely clearance before each new site launch <div>Could Go Wrong?</div> Missed launch dates due to agency delay	DENR/MARINA processes not yet fully navigated	Establish permit timelines in PHC and appoint agency liaison	Procedural complexity or backlog	Site remains unauthorized for weeks	Project idle time and reputational risk	1	1 H-1 C-1 Q-1 S-1	1	Mitigate						1	1	Winter, David		Open	
C00032	R7 Workforce Availability / Capability	Skill Gaps in Coastal Clean-Up and Reforestation	Local labor may not have experience in marine recovery or eco-planting methods	Skilled, trained workforce embedded in local communities <div>Could Go Wrong?</div> Low-quality outcomes from untrained crews	Volunteer enthusiasm high, but technical skills vary	PHC-linked training logs and modular field courses	New field, little local training available	Mangrove die-off or missed cleanup targets	ESG score fails third-party audit	1	1 H-1 C-1 Q-1 S-1	1	Mitigate						1	1	Knight, Tony		Open	
C00033	R8 Political / Government	Risk of Local Political Interference or Project Favoritism	Local officials may attempt to influence recruitment, subcontracting, or site selection.	Transparent, non-political project rollout <div>Could Go Wrong?</div> Cronyism or conflict affects reputation	Some informal interest from local leaders	Public-facing PHC tracking of hiring and contracts	Lack of formal barrier to undue influence	Leadership pressures skew project execution	Loss of impartiality and donor confidence	1	1 H-1 C-1 Q-1 S-1	1	Mitigate						1	1	Khan, Tahira		Open	