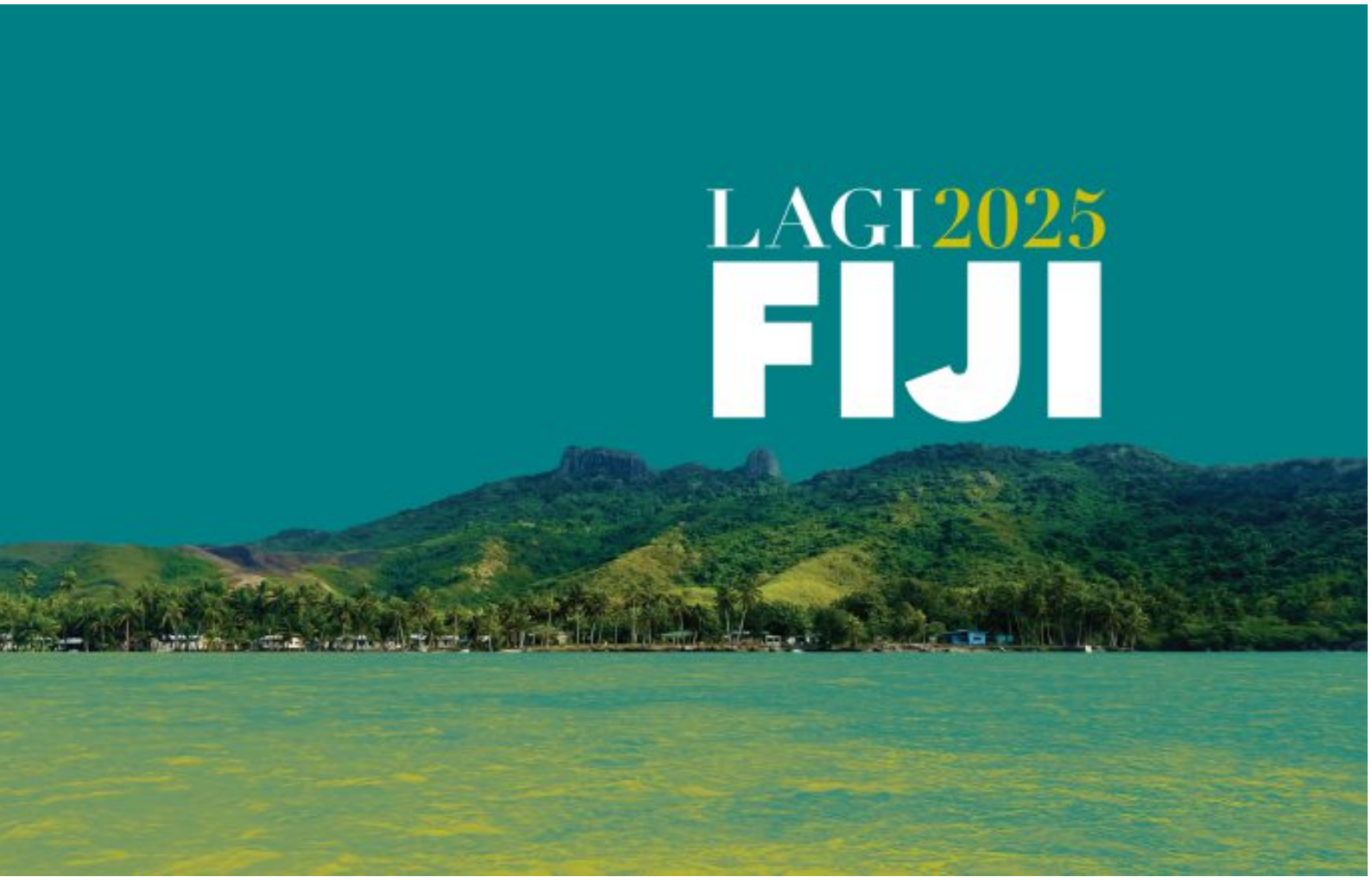
FEEL NAVITI



"NAVITI: A SENSORY JOURNEY THROUGH PARADISE"

Dawn at the Eco-Resort

Sight: You wake to golden light filtering through bamboo blinds, revealing an infinity pool that melts into the South Pacific. The resort's living roofs bloom with native orchids.
Sound: Distant waves and the chime of wind turbines shaped like Fijian war clubs (totokia).
Feeling: Your bare feet touch warm reclaimed-teak floors as you step toward breakfast—a whisper of "Ni sa yadra!" ("Good morning!") from staff.

Morning: The Artisan's Path

Touch: At the weaving workshop, your fingers trace damp pandanus leaves as a local craftswoman teaches you to braid a basket. The bamboo walls smell of fresh rain.
Taste: A sip of coconut water, chilled in solar-powered fridges, while children laugh nearby, chasing hermit crabs.
Emotion: Awe, watching 70-year-old masters carve canoes beside young apprentices installing solar panels—tradition and innovation dancing together.

Midday: Market Alive

Smell: The tang of salt-crusted mahi-mahi grilling over coconut husks, mingling with vanilla from dried beans.
Sound: Polyphonic harmonies—fishmongers calling prices, a ukulele strumming, the clink of artisans shaping pearl-shell jewelry.
Sight: Your eyes dart between hand-dyed masi cloths (sunlight glowing through their patterns) and a digital screen showing real-time energy production from the market's roof.

Afternoon: Spa of the Elements

Touch: Warm volcanic stones placed on your back during a bobo massage, while sea breeze drifts through open-air treatment rooms.
Taste: A post-spa ginger-and-turmeric tea, sweetened with wild honey from the resort's hives.
Feeling: Your muscles unwind as you hear rainwater cascading from rooftop gardens into reed-filtered pools—nature's lullaby.

Sunset at the Amphitheater

Sound: The deep thump of lali drums as dancers' firelit shadows leap against a backdrop of solar-paneled stage lights.
Smell: Earth after rain and the smoky sweetness of lovo (underground oven) feasts.
Emotion: Your heart swells as a elder whispers, "Vinaka for carrying our stories home." You're not a tourist—you've become part of Naviti's living story.

Night: Return to the Resort

Sight: Bioluminescent plankton sparkles in the private cove as you wade in, the resort's LED lanterns (charged by day's sun) glowing like low-hanging stars.
Sound: The hum of battery banks storing energy for tomorrow beneath your villa—a modern pulse beneath Fijian thatch.
Feeling: Gratitude. Naviti hasn't been "discovered." You've been invited.

INTRO

This project builds far more than structures—it weaves opportunity, heritage and innovation into the very fabric of Naviti. By fusing Balinese ancestral techniques with cutting-edge green technology, we create:

1. Work & Legacy
Locals will master sustainable trades—solar panel installation, treated bamboo construction, and water management—transforming skills into lifelong careers while preserving Fijian craftsmanship.

2. Living Culture
The complex becomes a sensory portal to Fiji's soul:

Hear waves harmonize with traditional meke songs

Smell frangipani blossoms and earth ovens (lovo)

Taste just-caught kokoda in the solar-powered bar

Touch hand-carved masi cloth and volcanic stone

See sunsets paint the thatched roofs gold

3. Community Resilience
Families will cut energy/water costs by 60% using replicable systems, shielding their paradise from climate threats while setting a global benchmark for sustainable development.

This is Naviti’s renaissance—where tradition powers progress, and every job planted grows a forest of possibilities.

DEVELOPMENT PROJECT ON A NAVITI ISLAND.

IntroductionThis project seeks the comprehensive development of a community on a **NAVITI in Fiji**, combining local training, sustainable tourism, and income generation.

It is structured in **three stages**, prioritizing first the training of residents so they can participate in the **construction and management of the project**, followed by the implementation of tourism infrastructure, and finally, a luxury resort that guarantees economic sustainability.2.

Project Stages

STAGE 1:
TRAINING AND SELF-CONSTRUCTION

(Community-Based)

Objective: To empower the local population through training workshops and multifunctional spaces.Proposed

Structures:Trade Workshops:Carpentry: Construction with local wood (traditional bures, furniture).Blacksmithing:

Manufacturing of lightweight and ornamental structures.Basic Installations: Solar electricity, water and sanitation systems.Gastronomic and Cultural

Center:Communal Kitchen: Fijian cuisine workshops (e.g., Lovo, Kokoda).Dance and Music Workshop: Space for traditional teachings (Meke).Arts and Crafts Market: Sale of local products (wood carvings, masi fabrics).Materials: Coconut wood, bamboo, thatched roofs (sustainable and indigenous).

STAGE 2:
CULTURAL AND RECREATIONAL TOURISM

(Intermediate Economic Axis)Objective:

Attract responsible tourism, generating employment and preserving cultural identity.Interventions:Bar and Restaurant Area: Fusion cuisine (traditional and international) with outdoor terraces.Natural Spas: Treatments with coconut oil and

Pacific salts.Arts and Crafts Shops: Expansion of the initial market with a contemporary design.Tourist Corridor:

Elevated walkway (to protect vegetation) connecting to the beach.Covered amphitheater:Wood and natural fiber structure, capacity for 200 people.Use: Evening shows, open-air cinema, ceremonies.

STAGE 3:
LUXURY RESORT

(Financial Sustainability)
Objective: Attract high-net-worth tourism, reinvesting profits in the community.Features:Eco-friendly villas: On stilts, with private pools and solar energy.Gourmet restaurant: Seafood and high-end local produce.Premium spa: Incorporating

Fijian techniques and thalassotherapy.Exclusive access: Boat transportation from the amphitheater to the circuit.3. Key StrategiesSelf-management: Locals trained in Stage 1 will be hired in subsequent phases.Sustainability:Use of renewable materials and rainwater harvesting systems.Reef protection and plastic ban.Connection with nature:

Interpretive trail with endemic flora and viewpoints.4. ConclusionThe project will transform the island into a model of community-based tourism and sustainable luxury, where residents own their development.
Each stage will be financed with mixed funds (government, NGOs, and ethical investors), ensuring that growth benefits the local po

. Narrative Concept
"Learning by Building, Building by Learning”
A living space where:

Architecture becomes a classroom: Each building (amphitheater, workshops, market) will be built by local apprentices under expert mentorship, fusing Balinese techniques with Fijian innovation.

Tourism is symbiotic: Visitors participate in daily workshops ("Building Holidays"), leaving their literal mark on signed structures.

Culture is tangible: From meke dances in the student amphitheater to tastings at the bar built with the wood of shipwrecks.

2. Technical Narrative
Key Systems:

Structures:

Treated bamboo (anti-termite) + coconut wood (beams assembled without nails).

Hybrid roofs: Flexible solar panels (Trina Solar, 450W) on corrugated sheet metal (Bluescope Zincalume).

Water/Autonomy:

Rainfall harvesting (150,000L in Bushman tanks) + UV filters (5,000L/day).

BYD batteries (96kWh) for 2 days of autonomy.

Local Innovation:

Handmade solar roof tiles (recycled glass + PV cells) manufactured in the workshops.

Key Data:

Average cost:

£355/m²

£140/m² (water).

30% local materials (bamboo, volcanic rock).

3. Prototyping and Pilot Implementation
Phase Zero (6 months):

"Vanua Dome" prototype:

8m diameter structure built by 20 apprentices.

Tests for:

Wind resistance >120 km/h (cyclone simulator).

Energy efficiency (≥85% self-consumption).

Success Metrics:

90% of materials approved by Fiji Green Building Council standards.

40 locals trained in construction first aid.

4. Operations and Maintenance
"Process Owners" Model:

Operating Community:

12 local technicians certified in:

Solar panel cleaning (every 3 months).

Tank maintenance (annually).

"Naviti Sustain" app for real-time fault reporting.

Financing:

15% of tourism revenue allocated to the maintenance fund.

FijiCare insurance against climate damage.

5. Environmental Impact Assessment
Key Indicators:

Target Area Year 1 Measurement Tool
Energy: 90% renewable. Real-time monitoring (SolarEdge).
Water: 70% rainwater. Flow sensors in tanks.
Biodiversity: 0 native trees felled. Reports from local biologists.
Waste: 95% recycled. Partnership with the Fiji Recycling Initiative.
Offset:

For every kg of CO_2 emitted during construction: 10 coral reefs planted (project with the Mamanuca Environment Society).

Conclusion
This project is not limited to erecting buildings, but rather weaves an ecosystem where:

The technical (panels, bamboo) merges with the human (artisans, stories).

Every screw tightened is a job, a lesson, and a step toward self-sufficiency.

Naviti becomes a global benchmark for regenerative tourism.

"We don't build for people. We build with people, and that changes everything."

Do you need to adjust KPIs or delve deeper into a subsystem? ✨

Description of the Sustainable Complex Buildings

A. Workshops (900 m²)
Design:

High ceilings (5-6 m) with solar skylights to maximize natural light.
Treated coconut wood and laminated bamboo structure on stilts for ventilation.

Features and Technology:
Workbenches with solar-powered USB outlets (powered by integrated flexible panels).

Recycled water system for pottery studios (filtered and reused).

Cross ventilation + solar-powered ceiling fans.

B. Cultural Building (300 m²)
Design:
Open floor plan with carved columns inspired by Fijian art.

Folding wood and glass walls to integrate indoor/outdoor spaces.
Features and Technology:
Coconut fiber acoustic panels and woven curtains for sound control.
Smart LED lighting (dimmable by motion and daylight sensors).
Raised floor with event storage.

C. Bar (180 m²)
Design:
Recycled wood central bar with turquoise resin inlays (inspired by the ocean).
Terrace planted with Jasminum multipartitum vines (native to Fiji) for natural shade.
Features and Technology:
Solar Cooling: Efficient refrigerators + nighttime ice system (freezers that use battery power).
Bioclimatic fabric on roofs to reduce heat.

Filtered rainwater for drinks.

D. Local Market (600 m²)
Design:

Modular stalls with removable canvas roofs (UV-resistant).
Lightweight structure in bamboo and recycled steel.
Features and Technology:
Solar refrigerators with insulated thermopanels for fish and fruit.
Communal composter with biogas digester (uses waste for cooking).
Permeable floor for rapid drainage during rainfall.

Hybrid System: Solar Panels + Rainwater Harvesting on a Corrugated Metal Roof
Objective: Maximize energy and water efficiency in a tropical climate while maintaining a Balinese aesthetic.

1. **Roof Design**
A. Main Structure
Material: Galvanized steel sheet or stainless steel (resistant to saltwater corrosion).

Pitch: Minimum 20° for rapid water runoff.
Solar panels mounted on elevated rails, with 5-10 cm separation between the sheet and the panels.
B. Advantages of the Mixed System
Ventilated space: Prevents panels from overheating (increasing their efficiency).

Water flows below: Rainwater runs off the sheet without interfering with the panels.

2. Rainwater Harvesting
A. Key Components
Gutters:
Located at the edges of the roof.

Formulas :
Number of Panels:Panels = (Daily Consumption) ÷ (Panel Power × Peak Sun Hours)

Example (Workshops): 250 kWh ÷ (0.45 kW × 5 h) = 112 panelsBattery Capacity:Estimated for 1-2 days of autonomy (depending on the criticality of the building).
Key AssumptionsSystem Efficiency: 85% (losses due to inverters, cables, etc.).

Adjusted Consumption: Typical values for tropical climates (ventilation > heating).

Available Roofs: Only 60% of the roofed area is used for panels (the remaining 40% is for water harvesting and structure).Additional

RecommendationsPanel Orientation: Toward geographic north (in Fiji) with a 15-20° tilt.

Cost Comparison by Building Type

Building	Area (m²)	PV System (Total)	Water System (Total)	Total Cost/m²
Workshops	600	$213,000	$84,000	$495/m²
Bar	180	$44,100	$21,600	$365/m²
Market	600	$213,000	$84,000	$495/m²

Cost Table for Photovoltaic and Rainwater Harvesting Systems

USD costs for Implementation In FIJI)

System	Equipment (Brand/Model)	Capacity	Units	Unit Cost	Total Cost	Performance
PHOTOVOLTAIC SYSTEMS						
Workshops (600m²)	Canadian Solar HiKu7 550W	55 kW	100	$220	$22,000	164,250 kWh/year
Cultural Building (300m²)	SunPower Maxeon 3 400W	32 kW	80	$280	$22,400	82,125 kWh/year
Bar (180m²)	LG Neon R 375W	15 kW	40	$190	$7,600	49,275 kWh/year
Market (600m²)	Trina Solar Vertex S+ 450W	54 kW		$210	$25,200	164,250 kWh/year
V Subtotal	156 kW				$77,200	460,900 kWh/year total

Employment Generation per Phase:

Local vs. International Expertise

PHASE 1: COMMUNITY HEART (Years 1-2)
Total Jobs: 50-60 positions

Locals (85%):

Construction laborers (bamboo/stone workers): 20

Solar panel & rainwater system installers (trained on-site): 10

Artisans (weavers, ceramicists): 10

Market vendors & cultural performers: 8

Foreign Specialists (15%):

Sustainable architects (Balinese/Fijian fusion design): 3

Renewable energy engineers (training locals): 4

Project managers: 2

Focus: Upskilling locals in green technologies.

PHASE 2: COMMERCIAL

STREET & SOCIAL HUB (Years 3-4)
Total Jobs: 100-120 positions

Locals (80%):

Shop owners (clothing, crafts): 30

Food stall operators & chefs: 25

Amphitheater staff (events, security): 15

Tour guides (cultural/eco-tours): 10

Foreign Specialists (20%):

Hospitality trainers (sustainable tourism): 5

PHASE 3: LUXURY ECO-RESORT (Years 5-6)
Total Jobs: 200-220 positions

Locals (70%):

Resort staff (housekeeping, gardeners): 80

Chefs & waitstaff (local cuisine specialists): 40

Boat crew & maintenance (solar-powered vessels): 20

Spa therapists (traditional Fijian techniques): 15

Foreign Specialists (30%):

Executive chefs (fusion cuisine): 5

Hospitality managers (5-star experience): 10

Marine biologists (coral reef restoration): 3

Pilots/heliport operators: 4

Focus: High-value jobs with knowledge transfer.

Summary Table

Phase	Local Jobs	Int'l Jobs	
1: Community	45-51	9-12	Builders,
2: Commerce	80-90	20-24	Entrepreneurs, event managers
3: Resort	140-154	60-66	Chefs, marine guides, VIP managers

Legacy Impact:

90% of leadership roles (Phase 3) filled by trained locals.

Foreign experts contractually required to mentor successors.