

Arrays of Vanua

For the LAGI Fiji 2025 competition, our proposal is grounded in the Fijian concept of **Vanua**. While Vanua literally translates to 'tribe', its meaning runs far deeper—it reflects the profound interconnectedness between people, knowledge, values, spirituality, and nature. This holistic view aligns seamlessly with LAGI's mission to inspire climate action through artistic innovation and community-driven design.

The LAGI Pavilion brings this philosophy to life by integrating traditional Fijian architectural forms with modern sustainable technologies. The pitched roof is oriented to maximize exposure for photovoltaic panels while also enabling efficient rainwater runoff. It is directed into an underground reservoir where to undergo filtration and pumped to storage tanks for distribution to the village. **Surplus water** is properly calculated and used for the pavilion. This water is then used for irrigation, passive cooling, and **seasonal transformation** of the landscape through a **shallow water feature** during the rainy season or a **green strip** during the dry season.

Constructed from readily available, local materials using a **modular** and **scalable** system, the design adapts to diverse terrains while remaining culturally rooted. It serves as an open village extension, offering a space for cultural participation, festivals, workshops, and shared learning—bridging environment, heritage, and future resilience.

Singular Module

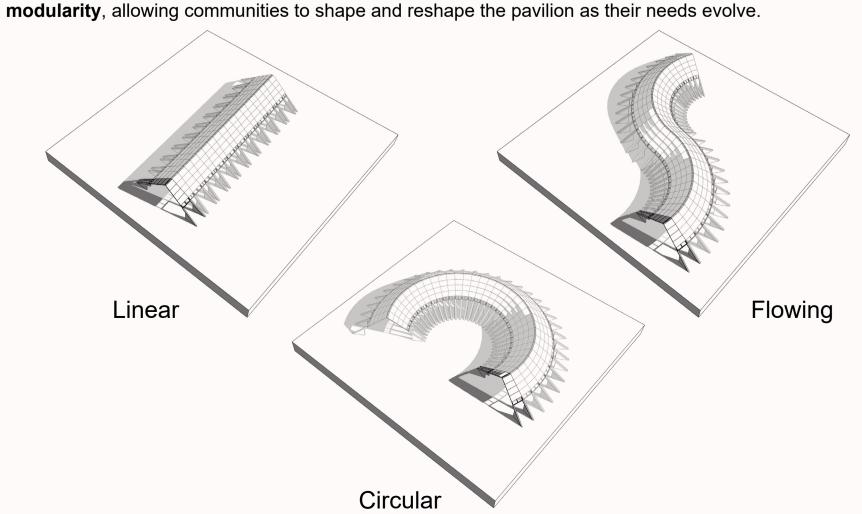
The design proposal envisions a pavilion built from a single modular unit that can be arranged in arrays to create a variety of structures, adaptable to the specific needs of the community. Each triangular module is scalable in size and composed of pre-cut elements that are assembled onsite once the reinforcement is securely cast in place. This modular approach ensures structural stability, resilience to typhoons, alignment with local construction techniques, and ease of repair—all while maintaining design flexibility.

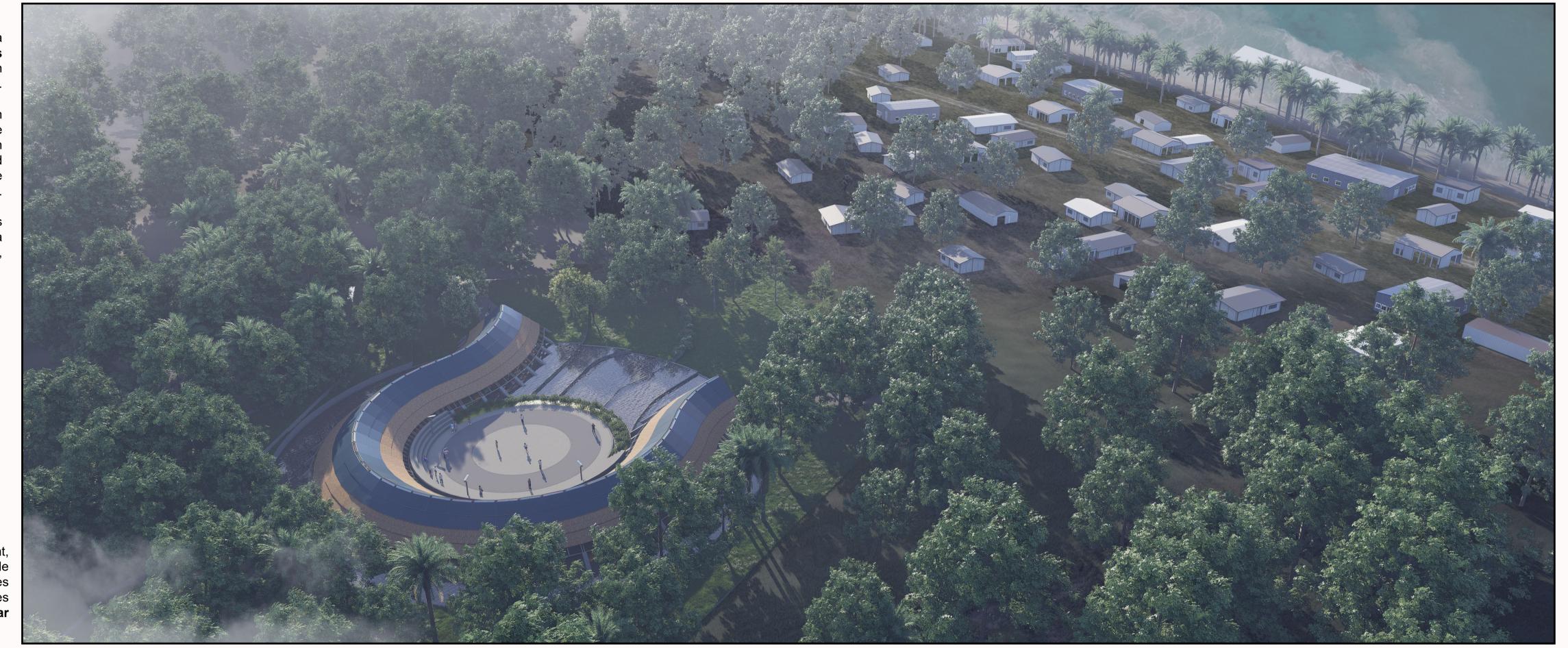
Modular Arrangements

Inspired by the dance formations in a Meke which varies from linear, wavy, and a circular arrangelemt, different structure shapes can be made. The **singular module** is designed to be arranged in multiple configurations that reflect togetherness and adaptability. When arrayed from a central point, the modules form a circular space, ideal for cultural dances and community gatherings. A meandering layout emerges when modules extend from alternating sides, creating covered paths through trees and landscapes. A linear formation, on the other hand, suits processional events or open communal activities.

Each module, simple and triangular in form, can be scaled in size and tailored in arrangement to respond to the needs of the community and the character of the site. From a single repeated element, a diverse range of spatial experiences can be generated.

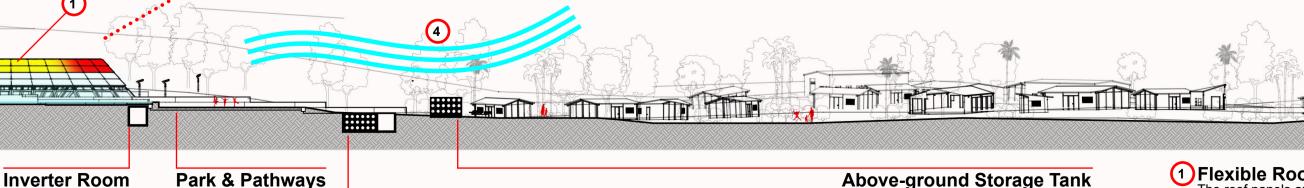
Much like Vanua, where each individual contributes to a greater whole, this system celebrates unity through





Site-Structure Interaction

Environmental consciousness is embedded in every aspect of LAGI. The pavilion is a lighttouch intervention on the existing landscape, raised on a skeletal foundation to preserve natural terrain, vegetation, and water flow. Durable, low-impact materials such as recycled concrete, locally sourced timber, and corrosion-resistant finishes ensure longevity in coastal conditions. The design uses minor grading to integrate with existing stormwater channels, allowing both roof and surface runoff to be collected in an underground reservoir. This feeds a shallow water feature that provides passive cooling and enhances micro-climate comfort. In dry seasons, the feature becomes a grassy green strip, maintaining usability and visual appeal. The pavilion's form also maximizes solar exposure, supporting energy collection with minimal environmental disruption.



Rainwater Catchment

Surface runoff is designed to collect both rainwater and redirect the water from the existing stormwater channels.

2

Shallow Water Feature Passive evaporative cooling is implemented, the shallow pond allows just enough shallow

surface to allow cooled air

Stromwater/Transient Tank, Filtration and Pump Room Underground GSR (Galvanized and Stainless Steel Plates Compound) as a modular and easy to install water tank that can be expanded depending on the villages increasing demand.

Above-ground Storage Tank

Elevated Water tanks are located closer to the village and use the natural terrain to provide enough water pressure to the village without relying on pumps.

1 Flexible Roof Design
The roof panels are modular and interchangeable, designed to accommodate either standard roofing with bamboo strips or photovoltaic (PV) panels

2 Open amphitheater open space in the middle is created as a destination and a shared space for tourism activities, community events, and various celebrations.

(3) Sea Breeze

A site-conscious approach allow the Pavilion to maximize natural air flow within the site to

create a comfortable space for tourists and locals.