

KevlarCatch - [grabbing the future, holding back the storm]

Our project is a modular, half-reclined conoid-shaped building, inspired in the beginning by the traditional Fijian Saqamoli clay pot form. Our goal is to create a community space that respects local traditions while incorporating modern sustainable technology.

Fiji's climate is extremely harsh, with frequent storms, high humidity, and intense sunlight. Therefore, material selection prioritized resilience. The outer shell is made of pomelo-yellow Kevlar mesh, which is highly durable (commonly used in military applications) and color-coordinates with Fijian cultural aesthetics.

Water is collected using a special FogCatcher net, harvesting moisture from both the air and rainfall, and channeling it via pipes into a purification system. Solar panels are installed on the north-facing side, woven into the Kevlar mesh, which also protects them from environmental damage.

Visitors are invited to participate in ceramic workshops, honoring Fiji's centuries-old pottery tradition, enriching their cultural understanding and supporting local livelihoods. This way they can take home some culture with themselves and support the locals as well, with some income and working opportunities.

The structure's frame is constructed from bamboo, shaped using hot water bending techniques. Instead of building a foundation, we use soil screws, which are easy to install without extensive earthworks.

