

Mangrove Center



The Mangrove Forest Learning Center, located within the Bang Nam Phueng Floating Market in Bang Krachao, is designed to educate both locals and visitors about the significance of mangrove ecosystems. Its primary objective is to provide knowledge on the various species of mangrove trees and the specific water conditions required for their growth. Additionally, as the COVID-19 pandemic led to a decline in tourism, the center aims to revitalize the area by serving as a meaningful and engaging attraction, encouraging people to revisit and reconnect with the community and its natural environment.

This architectural project draws inspiration from the Rubik's Cube, a classic toy known for its identical pieces, save for the corners. By deconstructing and creatively reassembling these pieces, the concept evolved through phases. Initially, the pieces were randomly stacked to create a bench and a library. These ideas were later integrated to form a learning space focused on mangrove ecosystems, given its location at the Bang Nam Phueng Floating Market in Bang Krachao—a region where mangroves play a vital role in environmental preservation. The design incorporates mangrove-inspired elements. The exterior features curved forms reflecting the outline of mangrove roots, while the interior stairs and pillars mimic the branching patterns of mangrove root systems. Surrounding the structure, a landscaped area is planted with mangrove trees, providing visitors an opportunity to learn about different species and their water requirements. Seating at varying heights allows users to observe various parts of the mangroves, enhancing the educational experience.

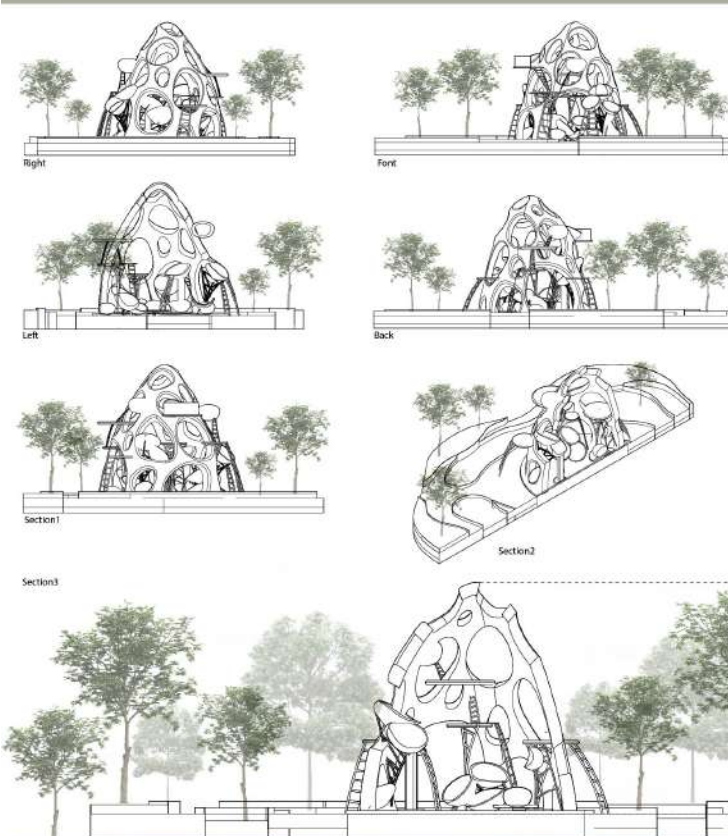
This project benefits the community by promoting environmental awareness, supporting biodiversity, and contributing to cleaner water, as mangroves naturally filter pollutants. It underscores the importance of preserving mangroves, which produce oxygen at higher rates than many other tree species and are crucial to sustaining the local ecosystem.



Mangrove Center

The Mangrove Forest Learning Center is a dedicated space designed to educate both locals and visitors about the critical role of mangrove ecosystems. Located next to the Bang Nam Phueng Market, a well-known community hub, this center provides an accessible opportunity for people to learn about the environmental, cultural, and economic significance of mangroves. By incorporating educational displays and interactive elements, the center offers visitors a chance to engage with the natural world while promoting the conservation of mangrove forests. The center's location allows individuals to learn simply by exploring the area, creating a seamless connection between education and community.

Elevation



Exterior



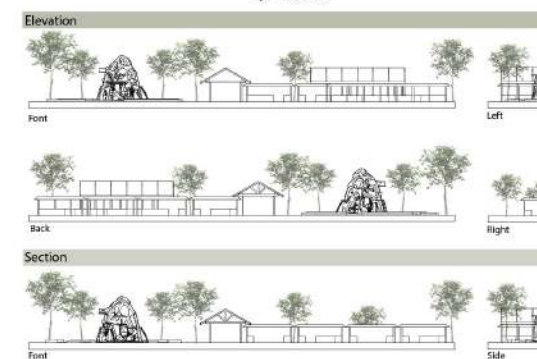
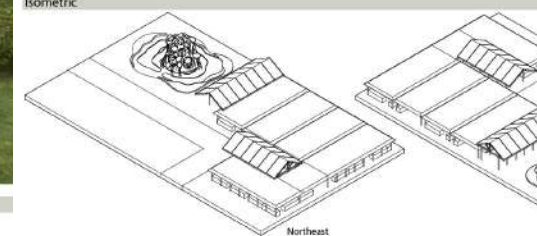
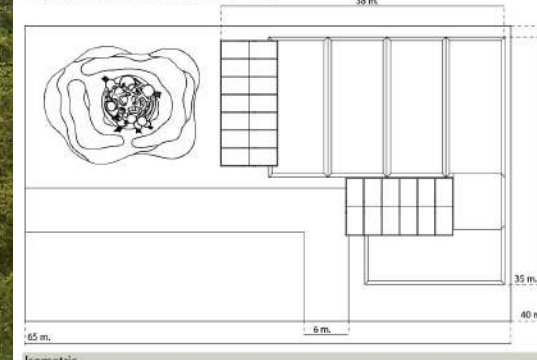
Interior



BangKrachao

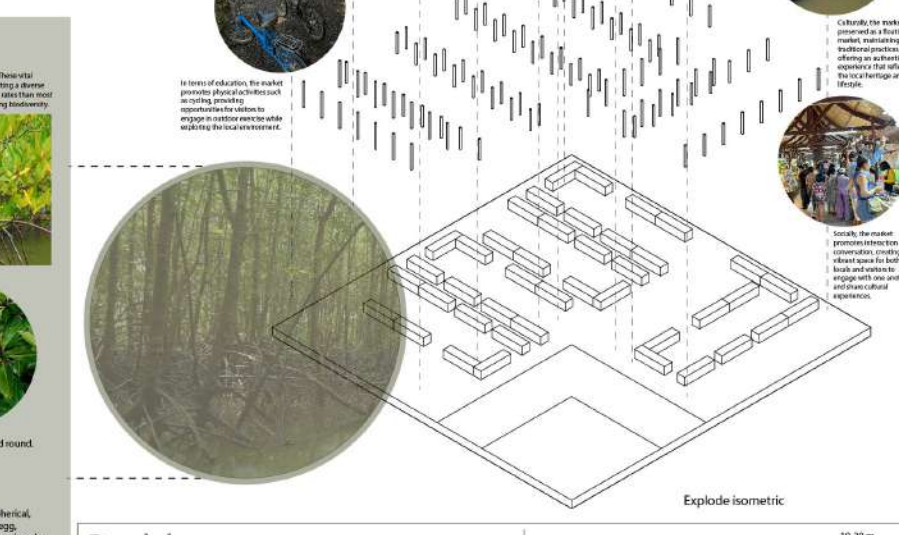
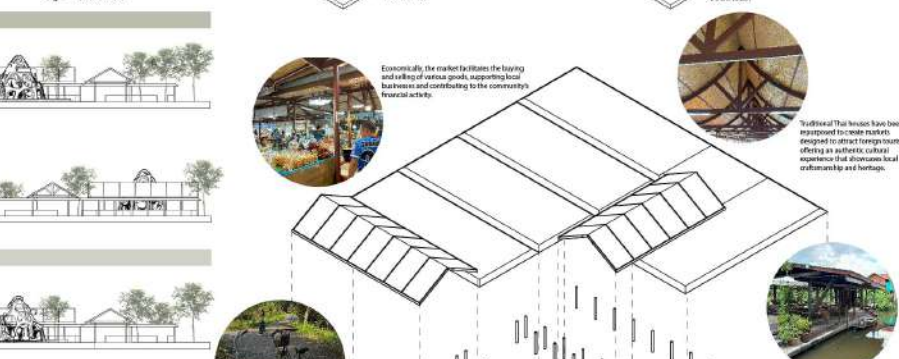
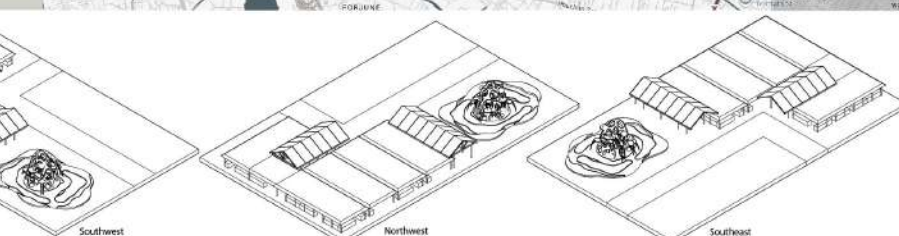
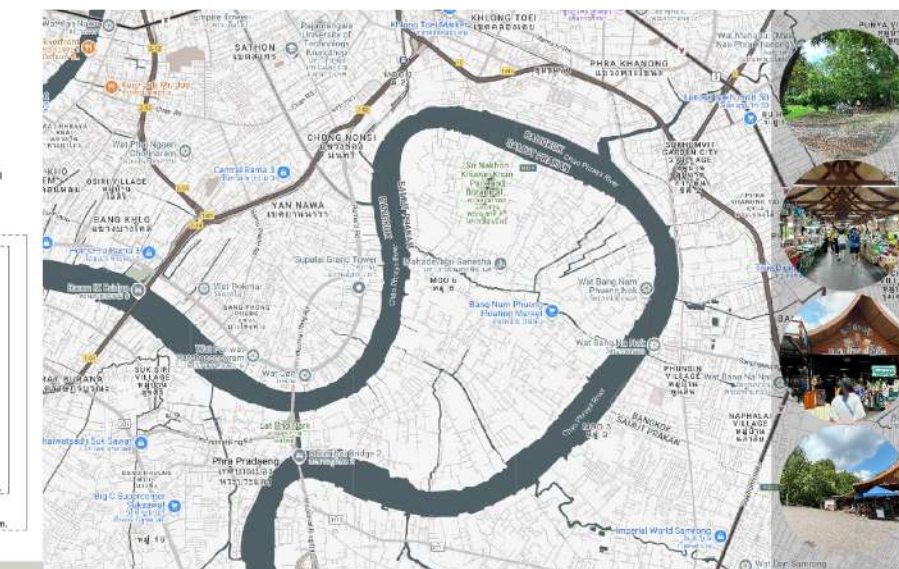
Bang Namphueng Floating market

Bang Nam Phueng Floating Market is located in Bang Krachao, often called the "Green Lung" of Bangkok. This quaint market offers local food, handmade crafts, and a relaxing, eco-friendly atmosphere. Unlike the more commercialized markets in Bangkok, it provides a quieter, more authentic experience. Visitors can enjoy fresh Thai street food, explore local goods, and witness life through the lush mangrove landscape. It's a popular spot for those seeking a peaceful and nature-filled escape close to the city.



Mangrove

Mangroves are coastal ecosystems characterized by salt-tolerant trees and shrubs that thrive in brackish water along shorelines, estuaries, and tidal areas. These vital ecosystems provide numerous ecological benefits, including carbon sequestration, water filtration, and habitat for diverse wildlife. Mangroves also play a crucial role in coastal protection, acting as natural barriers against higher waves and storm surges, thereby reducing the impact of flooding and erosion. Additionally, they improve water quality by filtering pollutants, helping maintain healthy coastal ecosystems. These functions make mangroves crucial for environmental health, climate change mitigation, and local communities.



Problem

