- Coastal Reforestation Technology
- **+**Habitat Creation and Restoration
- **Sustainable Development**
- ***Green Funeral Living Memorial**







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MANGROVE AND CORAL REEF ECOSYSTEMS



Respect the Coral Reef

Coral reef and mangrove ecosystems function in a symbiotic relationship, which enhances tropical and subtropical coastal environments. The health and extent of coral reefs are largely dependent on coastal mangrove forests, which stabilize

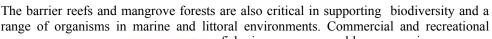


shorelines, remove pollutants, improve water quality, and provide nursery habitat that maintain fisheries. If fisheries are degraded due to the destruction or loss of mangrove habitat, then coral reefs will be adversely affected. Corals are correlated with the strength of fisheries and without viable fisheries, coral reef cannot survive.

Barrier reefs are coral reefs extending roughly parallel and in close proximity to

the shoreline. They function in reducing surf and shoreline energy. Together the coral reef and mangrove ecosystems form a barrier that protects shorelines from the destructive forces of wind, waves and driven debris. These living structures decrease the erosion and physical damage that can often impose significant economic and environmental costs on coastal communities. To a large extent, both help form and

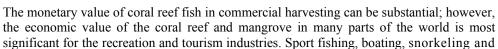
shape the shoreline. As essential components in shoreline protection and coastal resilience, they buffer entire regions against hydrological forces of the oceans and periodic inclement weather events, such as hurricanes and tropical storms.



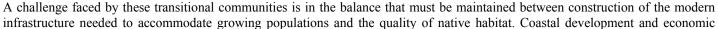


fisheries are renewable economic resources important to indigenous populations and coastal areas for livelihood. A recent study published in the journal Nature, confirmed that mangrove habitat provides critical nursery grounds for juvenile coral reef fish. It was also found that





scuba diving along with other water sports as-well-as ecotourism have had a significant impact on converting the economic base of fishing villages and towns into travel destinations and ecotourism centers with international appeal.





expansion can help build prosperity for local inhabitants but threaten the natural amenities that actually attract visitors. In order to maintain sustainable ecotourism in the economic base, there is a need for long-term vision in the conservation and restoration of surrounding ecosystems required to build resilience and preserve the social-ecological systems that compose coastal population centers.

The following diagram illustrates the mangrove as nursery grounds and critical habitat in the life cycle of coral reef fish.



