

TRACKING NATURE: Sustainable Coastal Development with leisure experience

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BACKGROUND

Po Toi O is a picturesque coastal village renowned for its thriving seafood industry. However, the village's development appears to have stagnated over time. Worryingly, the water quality has deteriorated, even emitting an unpleasant odor. This paper explores potential coastal development strategies can purify the water and foster sustainable tourism growth according to the design strategic of expanding the advantage of the existing natural resources and historical culture by planting mangrove, setting up oyster and coral reef in specific area and extending the linkage of people and cultural infrastructure.

OBJECTIVES

1. Revitalizing the village through a holistic, environmentally conscious approach that addresses water quality issues
2. Increasing the accessibility and linking the nearby tourist spot to the village
3. Creating some facilities beside the village to enhance the ecological environment system and the comprehensive tourism experience

METHODOLOGY

LITERATURE REVIEW

Environmental
Impact Assessment
Report

Sewerage
Master
Plan

Marine
Report

Outline
Zoning Plan

QUALITATIVE DATA

News

Interview

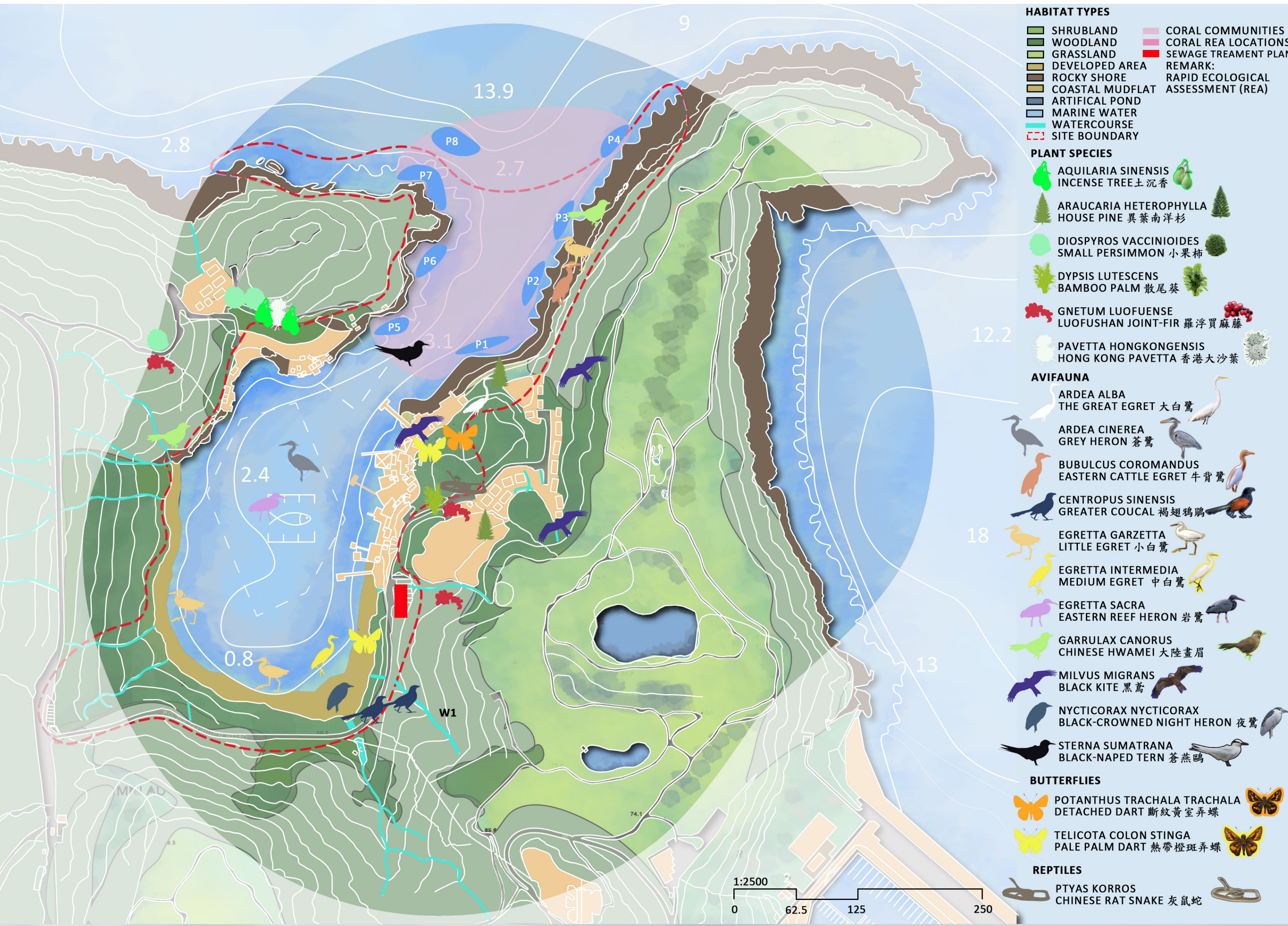
YouTube

Case Studies

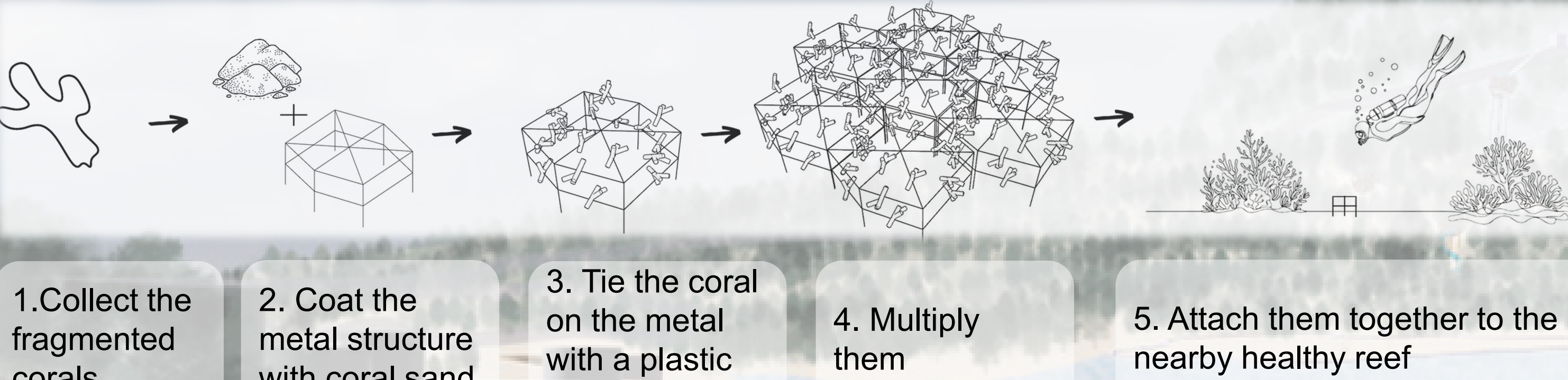
Elaborate on the local problem and come up a design solution

FINDINGS

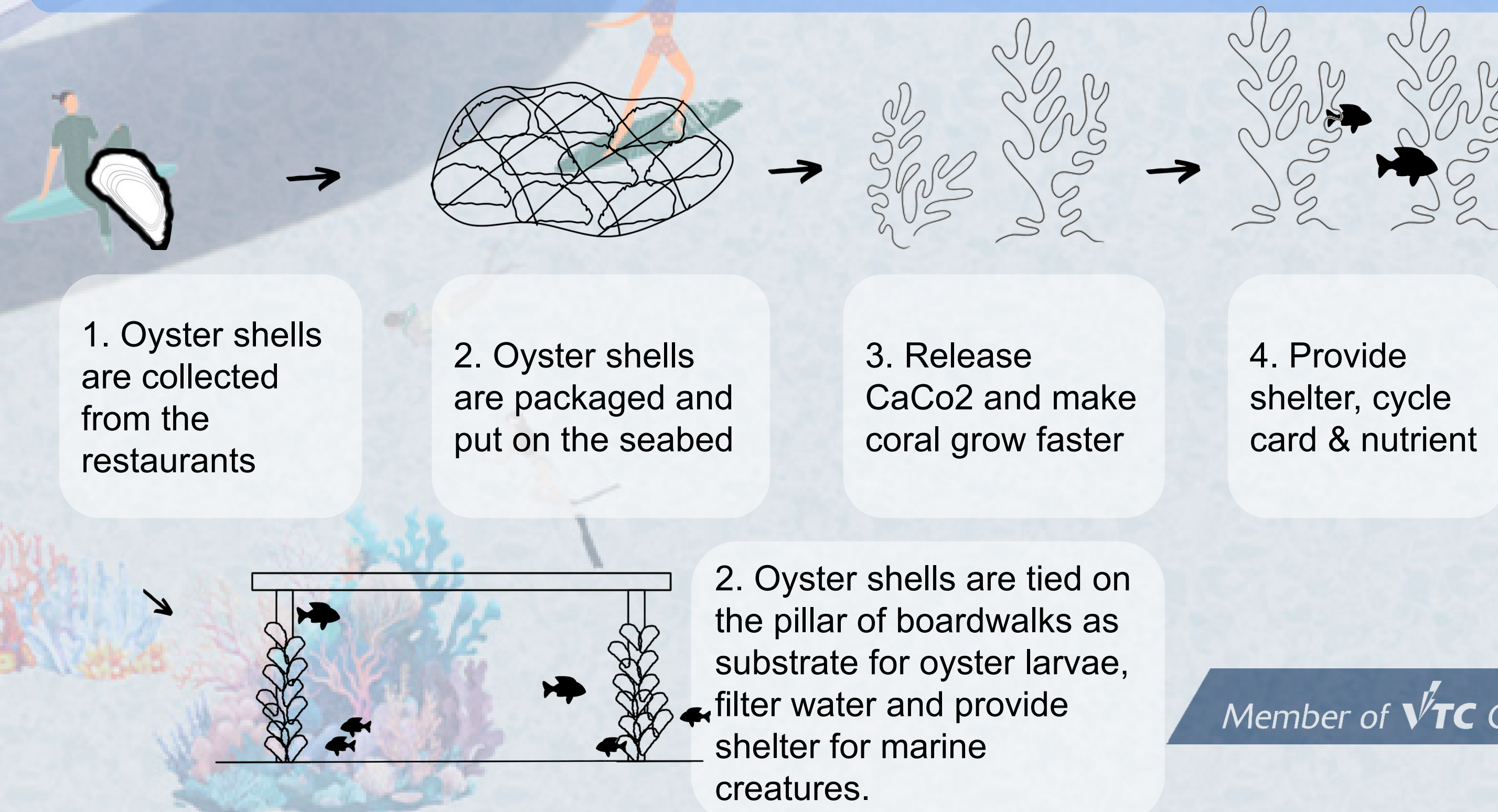
1. The fishing and marine cultural industry in Po Toi O village is experiencing a decline.
2. Although the village seeks to enhance tourism, poor water quality poses a major barrier.
3. Despite being close to several cultural attractions and the surrounding forest, the village is not leveraging these resources.



PROCESS OF BUILDING UP AN ARTIFICIAL CORAL REEF



PROCESS OF UPCYCLING THE OYSTER SHELL



CONCLUSION

1. Developing boardwalks to link all key locations would significantly enhance ecological and cultural tourism.
2. Upcycling local waste, including oyster shells and other debris from seafood restaurants, can provide a substrate for oyster and coral growth, thus improving water quality.
3. Offering a diverse range of cultural and ecological activities can foster a sense of community and increase environmental awareness.