

Preserving one country's
largest remaining tract of
mangrove forests.

You can too.

DHI are the first people you should call when you have a tough challenge to solve in a water environment – be it a river, a reservoir, an ocean, a coastline, within a city or a factory.

Our knowledge of water environments is second-to-none. It represents 50 years of dedicated research and real-life experience from more than 140 countries. We strive to make this knowledge globally accessible to clients and partners by channelling it through our local teams and unique software.

Our world is water. So whether you need to save water, share it fairly, improve its quality, quantify its impact or manage its flow, we can help. Our knowledge, combined with our team's expertise and the power of our technology, holds the key to unlocking the right solution.

The expert in **WATER ENVIRONMENTS**



Local solution

Since modern Singapore was founded, **mangroves have shrunk from 13% to 1% of the country's land area**. On Tekong Island lies the country's largest remaining tract of mangrove forests, hosting a rich biodiversity of plants and animals. Coastal erosion however, is putting it at risk. To protect the mangroves, Singapore's National Parks Board (through the Housing Development Board) implemented **coastal protection and restoration works** on Tekong Island.

To ensure that the works themselves did not harm the existing mangroves, we were asked to develop and implement an **Environmental Monitoring and Management Plan (EMMP)**. We modelled the shoreline, monitored the growth and survival of planted mangrove seedlings, and identified a large amount of natural regeneration.

By applying such a wide-ranging EMMP, we helped ensure that the coastal protection **measures were sustainable and would not negatively impact Tekong Island's marine environment**.

Global knowledge

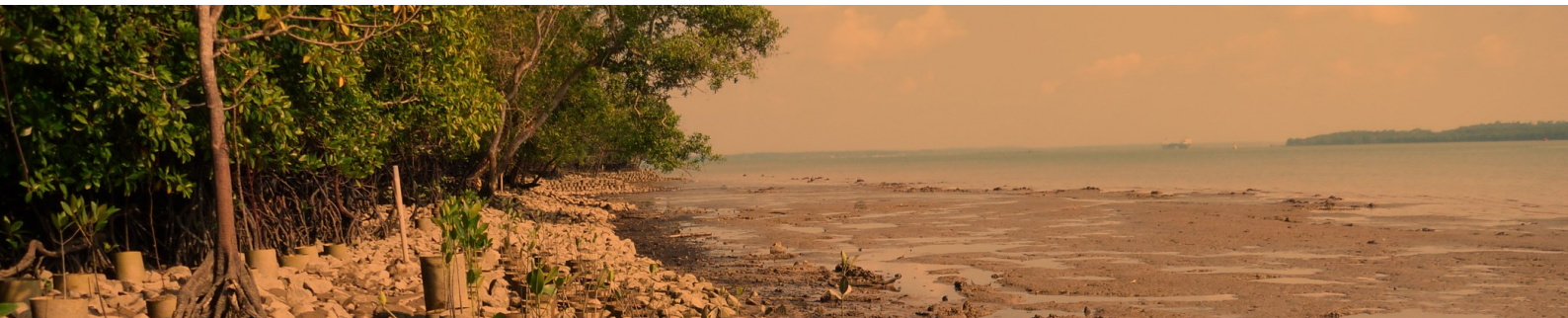
Our EMMP assisted Singapore in **furthering its knowledge of how to improve the design of coastal protection structures**. This helped ensure the long-term sustainability of Tekong's mangrove forests and marine environment.

With our extensive experience applying comprehensive coastal EMMPs around the world, **we can do the same for you**.



For more information on this solution, visit www.dhigroup.com/Publications/DHISignatureProjects/tekong

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