

# Work with nature and adapt human activities to ensure environmentally sustainable projects

## Protection of Life Below Water

Do you want to better understand complex ecological problems?

Would you like to predict the consequences of impacts?

What if there's a way to replace the loss of valuable natural resources?

## Opportunities and challenges

Our oceans cover more than 70% of the earth's surface and serve as the most diverse and important ecosystem. However, biodiversity and global food security is threatened by over-extraction and pollution. To address these threats, DHI is an advocate for Sustainable Development Goal #14- Life Below Water, developed by The United Nations to 'conserve and sustainably use our oceans, seas, and marine resources for sustainable development'.

## How DHI can help

DHI is your partner for sustainable marine and coastal development, resource exploration, ecological restoration and conservation. Our ecosystem-based approach addresses biological, spatial and organisational relationships backed by advanced modelling technology and monitoring data including satellite imagery. This experience enables us to bridge science and policy by facilitating communication between government bodies, your business and stakeholders.

## Integrated solutions

- **Protect biodiversity in ocean and coastal habitats with compensatory mitigation**
- **Secure regulatory clearance, permit and licensing with trusted EIA support**
- **Rely on development and monitoring support for marine strategies and policies**
- **Ensure regulatory compliance with Environmental Monitoring and Management Planning (EMMP)**
- **Secure a sustainable and healthy sea food production**
- **Power your ocean water decisions using state-of-the-art ecological tools**

## Core technology

### MIKE ECO Lab

Investigate water quality concerns and their potential ecological impact

### ABM Lab

Simulate the dynamic behaviour of aquatic life and their interactions with the environment

### MIKE 21/3 Oil Spill

Quantify and visualise the risks and potential impact of an oil spill on the environment

### MIKE 21/3 Mud and Sand Transport

Simulate erosion, transport, settling and deposition of mud or sand



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