

Empower coastal resilience planning through modelling

Coastal Resilience

Do you want to investigate natural coastal protection solutions?

Would you like to ensure realistic coastal design schemes during early planning?

Do you want to restore seagrass and other important coastal habitats?

Many of us have chosen to live in low-elevation coastal zones putting ourselves at risk for the effects of flooding and coastal erosion. Despite the well-known challenges related to climate change, coastal cities continue to grow at a rapid pace. While coastal hazards are lurking in the horizon, the devastating impact of these disasters can be prevented. Soft and hard coastal protection acts as a line of defense. As such, continuous and innovative upgrades are necessary to respond to rising challenges.

Services & solutions

Proper coastal resilience adaptation planning is vital to improve long-term sustainability and protect against loss of lives and properties. Partner with DHI and de-risk the challenges of living in coastal areas. Through advanced software technology, we strive to share our understanding of complex physics to serve coastal communities worldwide. We can help you develop a digital twin that represents your local shoreline morphology to support the mitigation of coastline instability and flooding.

- **Natural coastal protection scheme investigation**
- **Early planning support to avoid nature-defying solutions**
- **Creation of a shoreline morphology digital twin**
- **Online planning of flood protection and emergency response**
- **Re-establishment of important coastal habitats**
- **Development of synergies between coastal and environmental protection**

Technology to empower decision making

Assess design ideas for artificial beaches and beach nourishments with the **Coastal Screener** web application

Simulate long-term shoreline morphological response in complex environments with **MIKE 21 Shoreline Morphology (SM)** 2D software

Test climate scenarios, evaluate mitigation measures and quantify consequences with the web application, **FloodRisk**

Assess hydrographic conditions to support the planning of coastal structures with **MIKE 3** software

Predict and analyse wind-waves with **MIKE 21 Spectral Waves** software

Use **MIKE ECO Lab** software to investigate water quality concerns and their potential environmental impact



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