

# MIKE 21/3 Sand Transport

## Full spectrum sand transport modelling

### Why MIKE 21/3 Sand Transport?

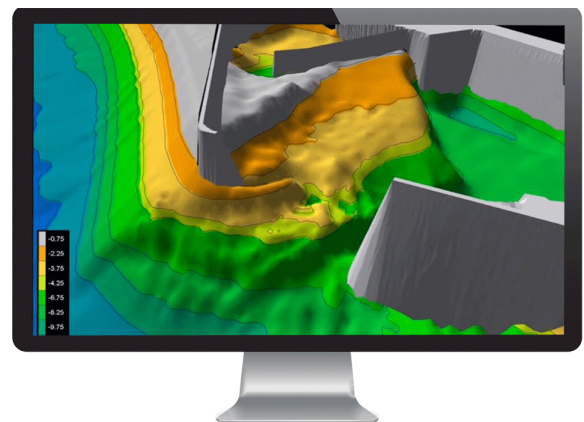
This specialised software provides port, offshore energy, dredging and coastal engineering professionals the knowledge required to assess the impact of sedimentation on coastal and estuarine infrastructure. Having a deeper understanding of erosion, transport and deposition of non-cohesive sediment due to currents and waves empowers you to provide instrumental support for planning and design.

With this information, you can devise strategies to mitigate the impact of erosion over buried (subsea) pipelines or demonstrate the potential effects of sedimentation from a planned offshore energy development to support an EIA. Better inform the design of sediment management strategies in ports and even determine the amount of dredging required in a navigation channel to maintain a certain depth - all with one tool.

- **Uniquely calculate sand transport due to pure currents or combined waves and currents**
- **Model complex sediment transport processes and shoreline morphology with ease**
- **Make long-term predictions of shoreline morphology and better understand the impact of sedimentation on complex coastal structures**
- **Analyse sediment transport patterns around structures or near tidal inlets when coupled with MIKE 21/3 Hydrodynamics and MIKE 21 Spectral Waves**

### Additional features & capabilities

- Analyse the optimal configuration of a new beach for coastal protection or recreational use
- Gather insight on sedimentation as a basis for Environmental Impact Assessments
- Identify the best solutions to mitigate the impact of erosion
- Quantify sand transport capacity on all scales - from the river to the coastal zone
- Calculate dune erosion during storm conditions with the built-in Dune Erosion Model
- Simulate the effects of nourishments or maintenance dredging on morphology



🌐 To learn more about MIKE 21/3 Sand Transport, visit: [www.mikepoweredbydhi.com/products/mike-21/sediments/sand-transport](http://www.mikepoweredbydhi.com/products/mike-21/sediments/sand-transport)