



HVIDE SANDE

Improving Hvide Sande's  
harbour **to protect jobs.**

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

Located on Denmark's exposed North Sea coast, Hvide Sande's **3,000 inhabitants** depend on fishing and its associated industries. In recent years, ships have increased in size, with the largest requiring a minimum navigation depth of 6 m. The navigation depth in front of Hvide Sande's harbour, however, was only 4.5 m. Sediment build-up in the access channel also hampered the safe passage of ships. These dual problems made it difficult for newer, larger ships to call at Hvide Sande's port.

We developed a tailor-made solution that **maximises the natural bypass** of the harbour using capital and maintenance dredging and streamlined breakwaters. The breakwaters **reduced sedimentation** near the mouth of the harbour. This allowed port authorities to maintain the new navigation depth without having to increase maintenance dredging.

“ Activities provided by DHI were on a very good professional and organisational level and we recommend this company as a credible partner. ”

Erik Clausen,  
Port Director, Hvide Sande Harbour

# Global knowledge

Fishing and shipping remain the lifeblood of Hvide Sande's economy. The new harbour layout – tested and optimised using our modelling software – ensured that the city could **continue to host vessels** in the years to come, thereby **protecting the jobs** of its residents.

Port cities around the world face problems similar to those of Hvide Sande. As vessels grow in size, harbours must adapt to changing shipping needs. With our advanced morphological modelling tools, we can help you do just that.



More information on this solution,  
[www.dhigroup.com/Publications/DHISignatureProjects/HvideSande.aspx](http://www.dhigroup.com/Publications/DHISignatureProjects/HvideSande.aspx)



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