TAI LAKE BASIN

Keeping a lake that **36 million people** depend on, safe.

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**

DHI

Local solution

The Tai Lake Basin in Eastern China covers an area of more than 38,000 km^2. The third largest lake in the country, **36 million people live along or depend on its waters.** It is also home to several industrial factories and is a vital source of income for local fishermen. Rapid economic growth has taken its toll on the lake, with **pollution increasing exponentially in recent years.**

The Nanjing Institute of Environmental Sciences (NIES) - under the Ministry of Environmental Protection - asked us to **develop a water environment early warning system.** Using our MIKE 11, MIKE 21 and MIKE FLOOD software programmes, we developed a Decision Support System (DSS) to monitor water quality in Tai Lake. Our DSS integrates rainfall-runoff, hydrodynamic, water quality, eutrophication and oil spill models. This allows decision makers to **manage the daily water quality of Tai Lake.** And if pollution does occur, it allows them to respond quickly.

> " DHI has helped us a lot, not only in the modelling and setup of the DSS, but also in enhancing our overall know-how and expertise, which makes us excel among other peers. With this cooperation, we have built a mutual understanding and trust with DHI. "
>
> Mr. Liu Zhuang
> Nanjing Institute of Environmental Sciences

Global knowledge

Taking NIES's specific needs into account, we integrated forecast, database, data exchange, GIS, emergency management, and information system modules into our DSS. The result: **a system that improves water management capacity,** reducing the risk of pollution incidents, socio-economic losses and environmental damage.

A user-friendly system, our flexible DSS can also be used to examine key areas of Tai Lake for research. With our extensive experience developing software based systems, **we can develop a similar DSS to cater to your unique situation.**

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

Contact us **marketing@dhigroup.com**
Visit us **www.dhigroup.com**

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