



## Experience your ship in waves, before it's built

Motion behaviour of ships is traditionally investigated through model tests. Operations are traditionally trained on fixed simulator bridges, in which the bridge team is not affected by motions. The motions aspect plays a particularly important role in certain types of vessels such as cruise ships (comfort), naval vessels, yachts and offshore vessels (OSV, PSV, AHTS, escort Tug).



The currently used quantitative methods for motion criteria give no insight into how the operator will experience these motions or how the movements affect the operation.

- How will an operator or customer experience new vessel motions?
- How comfortable are the motions at different locations on the vessel during several stages of the voyage?
- Are the intended stabilizing systems effective and are they working optimal when they are operational?

To answer these questions MARIN integrates its in-house services consisting of model testing, simulation and experiencing. This integration translates the motions from model tests, via MARIN's simulation software into an experience of the motions on MARIN's motion base simulator. The simulator offers different viewpoints and its exterior can be adapted.

It enables and offers customers a wide range of opportunities during the design as well as during the operation of the vessel.

## A new service!

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MARIN's mission is bridging the gap between engineering and operations. This is why we now offer experiencing motions on a motion based simulator as an add-on to the traditional design services. It enables operational feedback from captains during the design process.

It opens up various new possibilities such as:

- Compare stabilising systems, DP, different hull shapes and arrangements;
- Experience the ship under operational conditions - How does it actually feel?
- Familiarize and train bridge teams.

