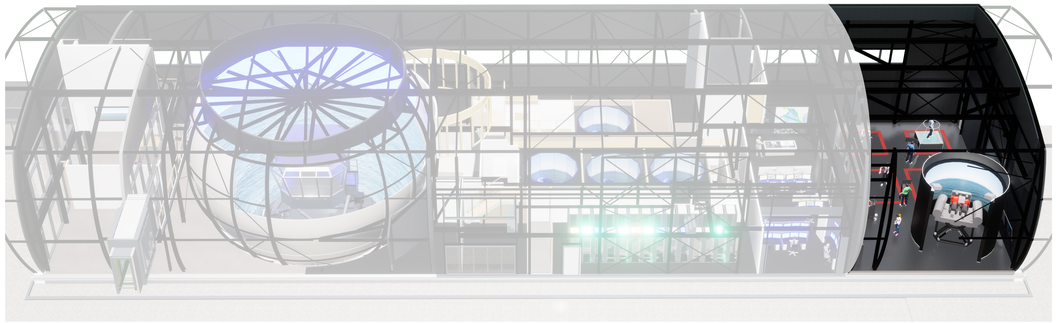
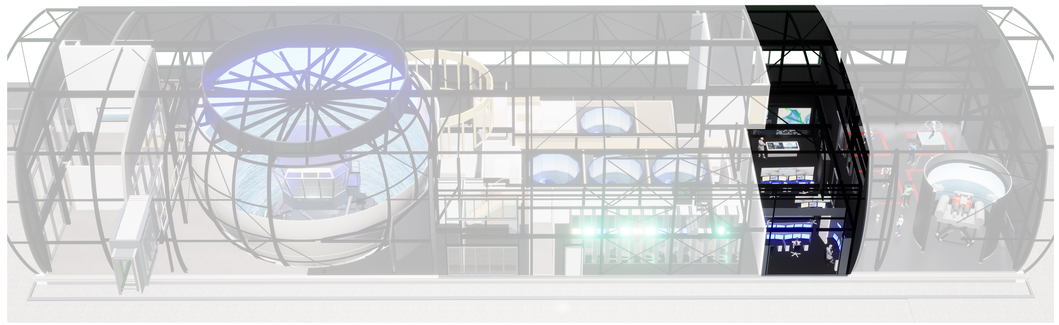
Maritime eXperience Lab

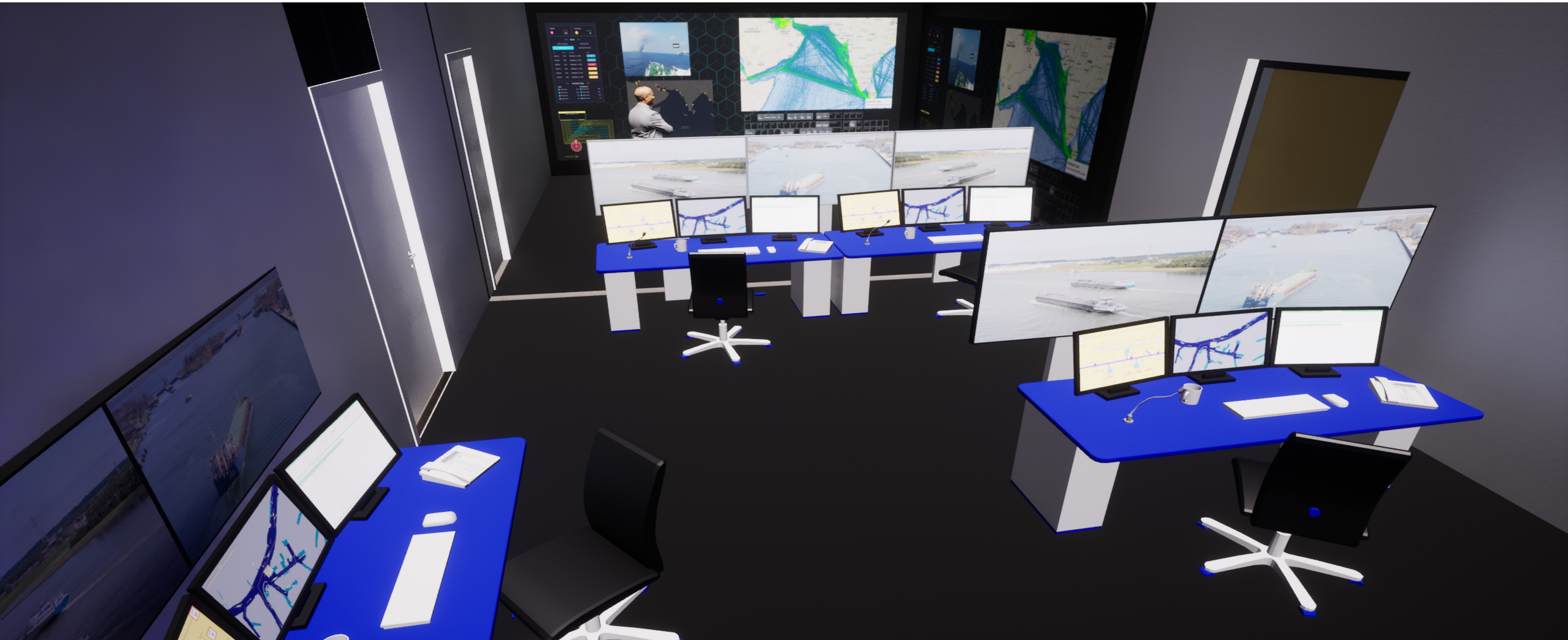
For advanced Virtual, Augmented and Mixed Reality applications, including the Fast Small Ship Simulator (FSSS), smaller motion platforms, treadmills, motion capturing and a cable robot. With the 8 cables of the cable robot moving objects (such as a crane hook) can be simulated above a moving platform or the FSSS for advanced interactive Mixed Reality simulations, both above and below water.



Vessel Traffic Management / Shore Control Centre

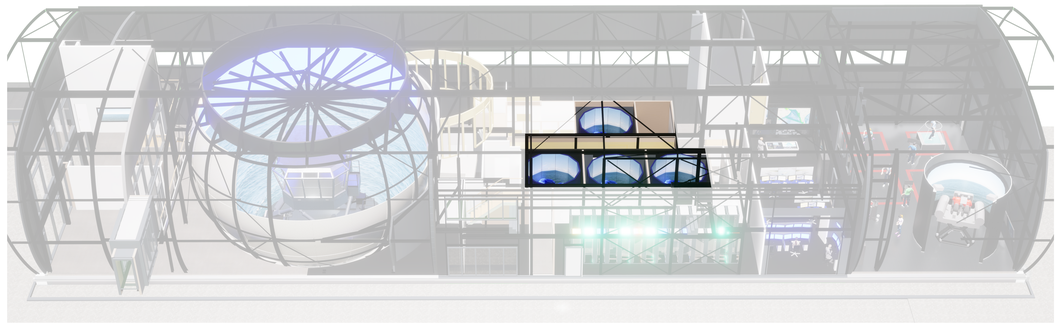
Multi-purpose and flexible control room with projection on three walls to simulate control or command centres on board or ashore, coupled to the other simulators and the MX Lab.

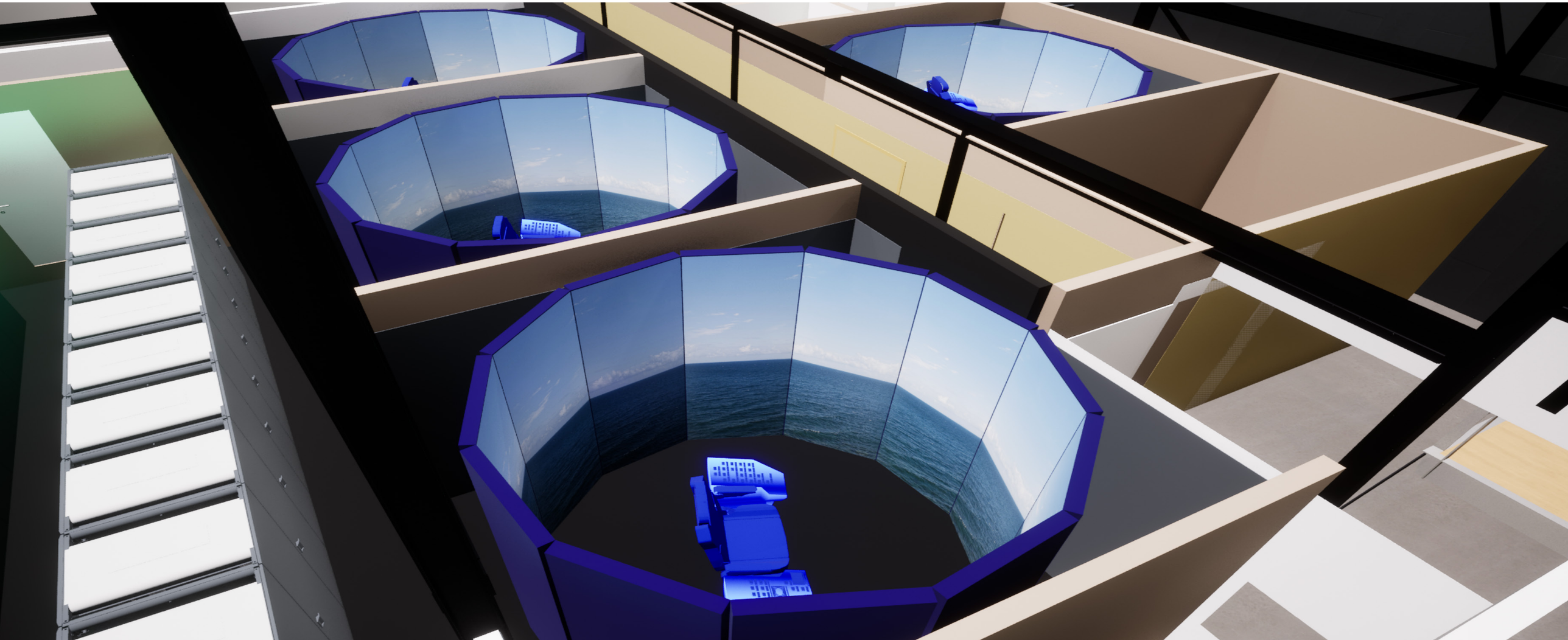




Multi-Purpose Simulators

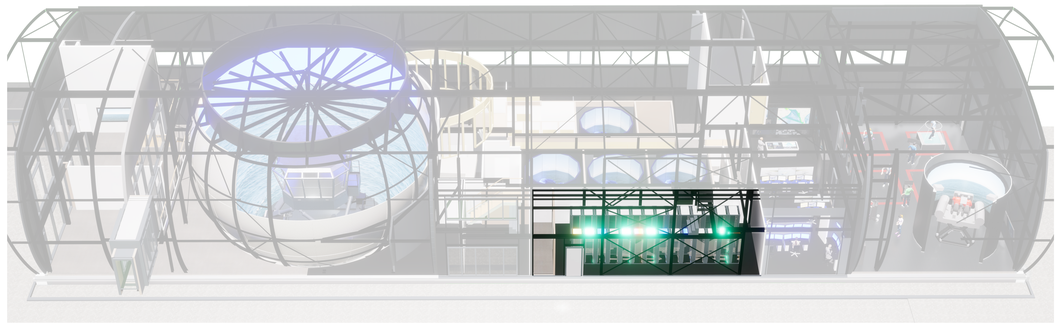
Four simulators with 360 degrees projection for coupled tug or crane simulations.

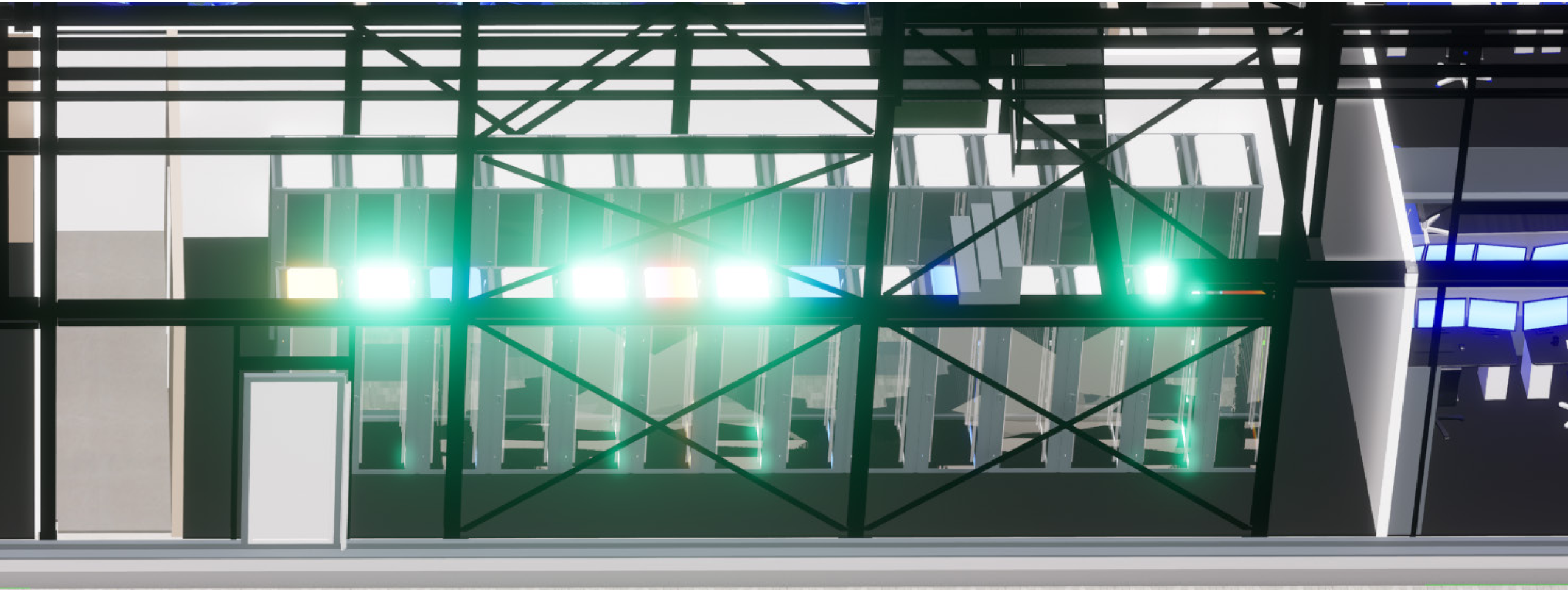




High Performance Computing

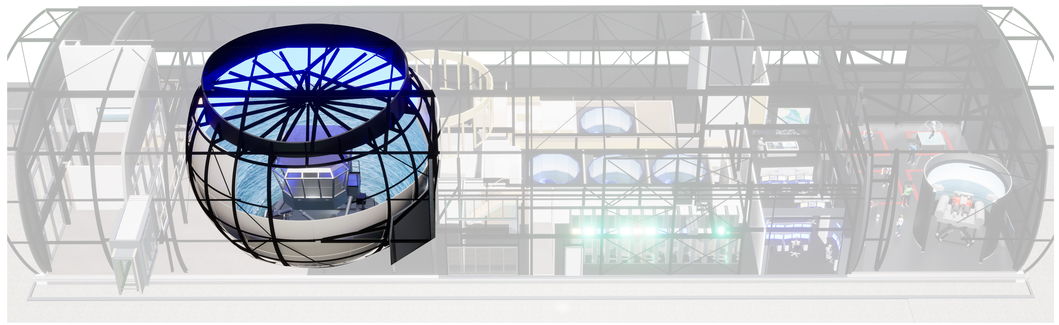
Extra calculation power consisting of a combination of Central Processing Units and Graphics Processing Units for optimum real-time hydrodynamic modelling. These make it possible to include highly complex hydrodynamic features such as interactive wave fields.





Large Motion Simulator

A six degrees of freedom motion-based bridge of 4 x 5 m on a hexapod with a payload of 14,000 kg and 360 degrees projection in a large spherical dome with a diameter of 16 m.



Full Mission Bridge

A 16 m wide bridge with a forward or backward view on a cylindrical screen (240 degrees horizontally and 42 degrees vertically). Both bridge wings have 6 m diameter domes to allow forward, backward, downward and upward views during port and other complex operations.