

AVEVA PI WORLD

Driving Sustainability in the maritime industry

Presented By: Marius Blom

AVEVA



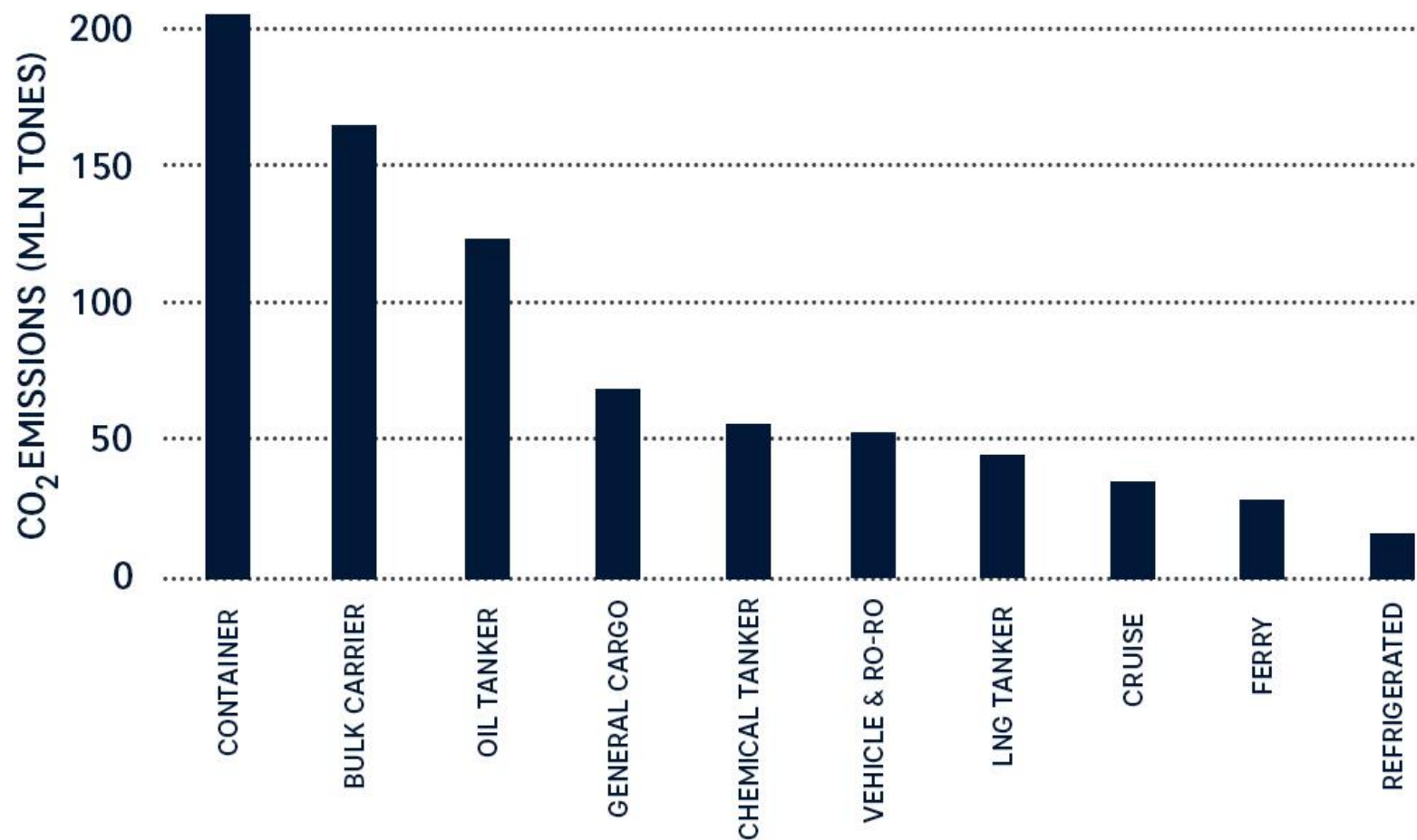
BLOM Maritime
Marine | Offshore | Power

ENGINEERING MADE TO FIT

Partnering with you to design and deliver
the engineering solutions

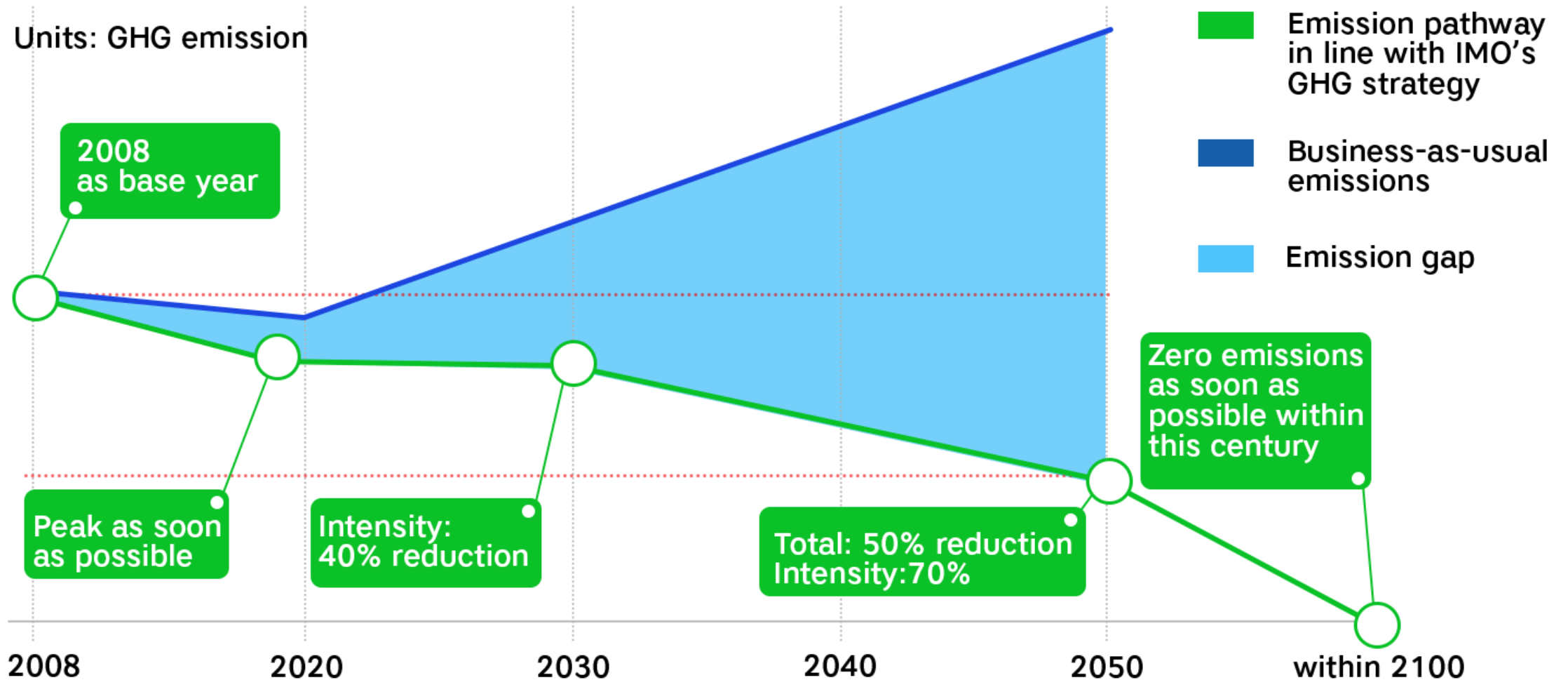


CO2 Emissions from international shipping by ship type

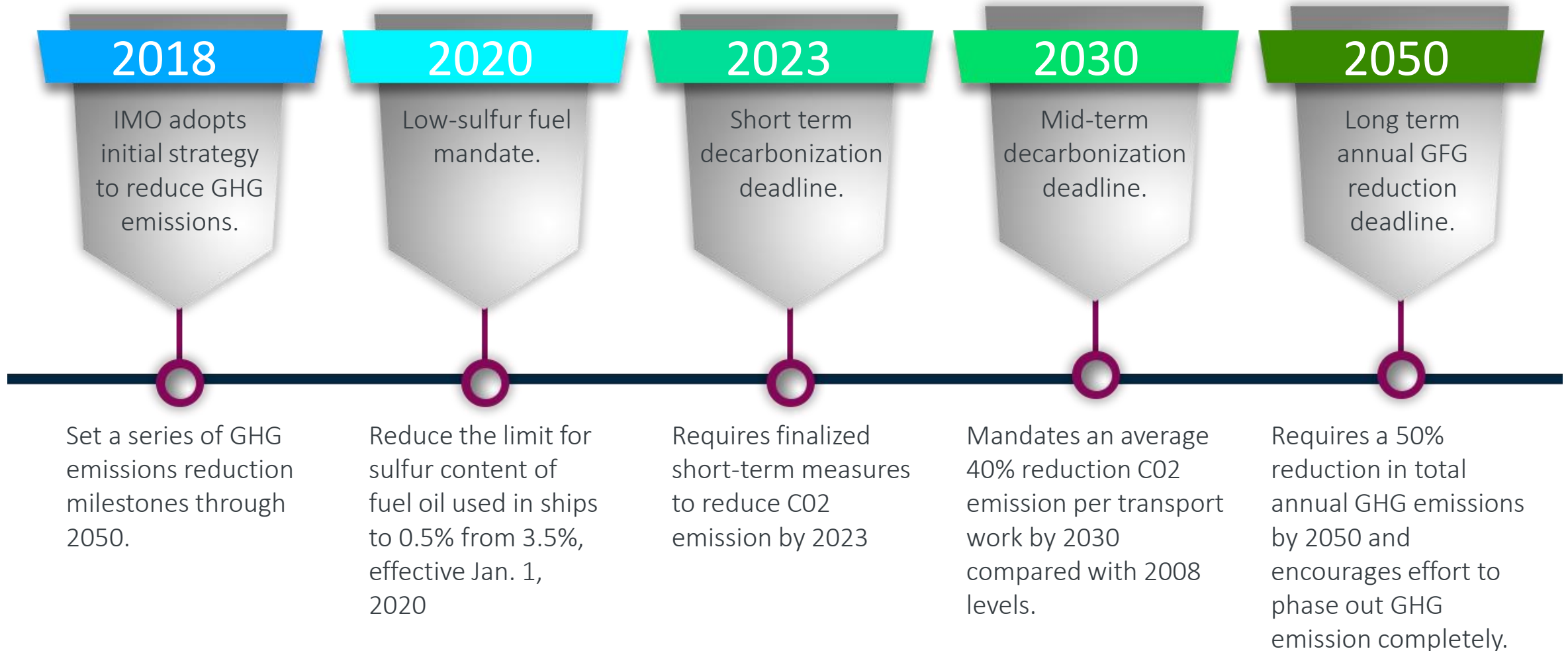


Source: Reserchgate.net - Decarbonising Ships, Planes and Trucks: An Analysis of Suitable Low- Carbon Fuels for the Maritime, Aviation and Haulage Sectors.

GHG emission gap between IMO GHG strategy and BAU emissions (DNV-GL 2019)

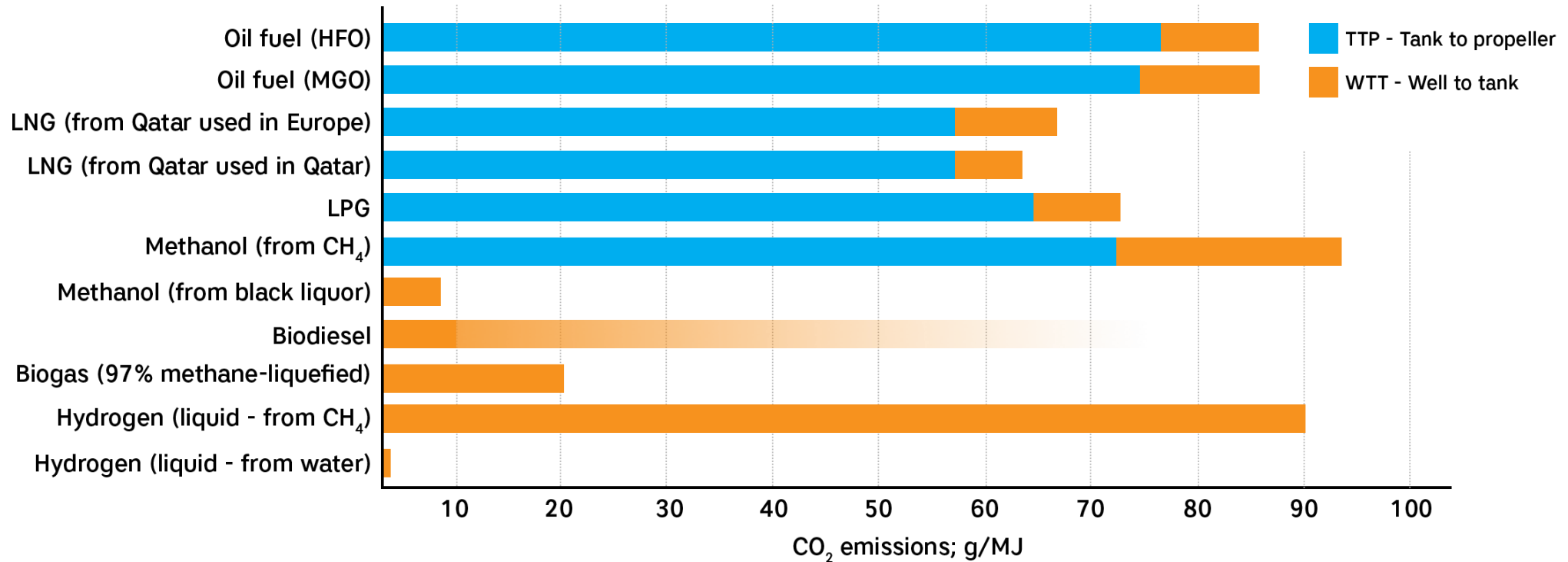


IMO 2050 schedule



What is solution

CO2 EMISSIONS OF FUEL ALTERNATIVES IN SHIPPING



Source: DNV-GL "Alternative fuels and technologies for greener shipping", 2019

Driving Sustainability in the maritime industry



Challenge

Reduce emission, decarbonize and keep warming below 1.5 degrees Celsius in relation to ship industries.

Solution

Develop new technology, like fuel cells running on hydrogen, and piston engines converted to run on biofuel and ammonia, which are all zero-emission by using smarter engineering and advanced technology.

Benefits

Minimizing the material used, more efficient assembly the number of working hours and the use of clean energy sources will ensure the sustainable development of the shipping industry.



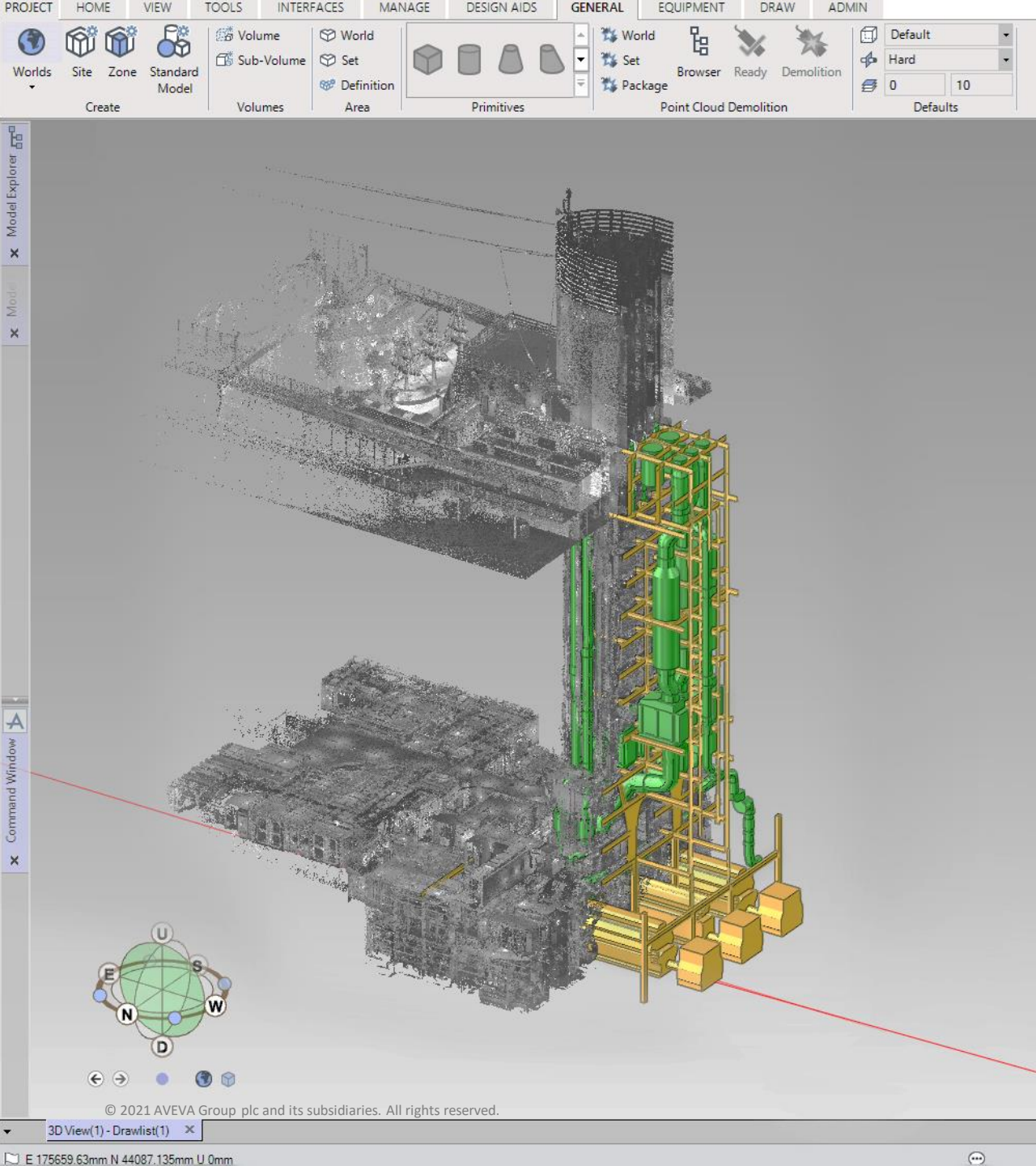
3D Scanning shipyard

Inventory of the ship during construction or modification allows for ongoing control of the installed elements, quick response in the event of necessary modifications and provides full and up-to-date 3D documentation of the ship.



Funnel installation

Designing according to the current state of the installation as well as the supporting elements by working in a point-cloud obtained from 3D scanning, allows for precise execution of elements, trouble-free fitting, minimizing the use of materials and working time of employees and equipment.



Smart engineering

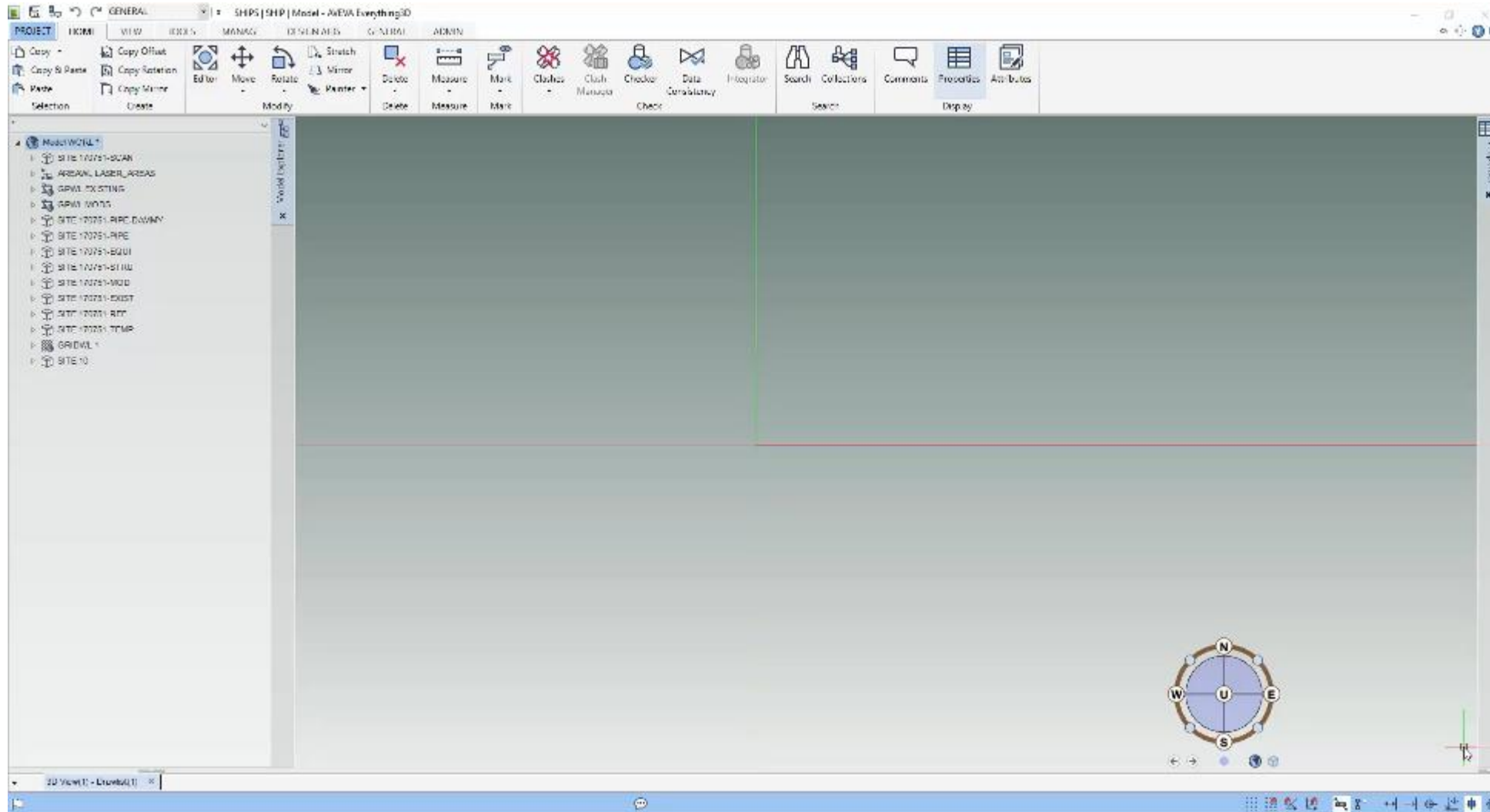
Smart engineering and advanced technology can lead to more sustainable solutions, both for newbuilds and for existing ships, and these solutions can help to reduce the environmental and climate impacts of the maritime industry.



Cooperation

The key to success is correct communication that allows you to clearly define expectations, requirements and time for each stage of project implementation. Cooperating continuously, we can minimize the risks of project delays due to external factors

AVEVA E3D Design Video





Marius Blom

CEO & Managing Partner

- BLOM Maritime
- marius.blom@blommaritime.com

This presentation may include predictions, estimates, intentions, beliefs and other statements that are or may be construed as being forward-looking. While these forward-looking statements represent our current judgment on what the future holds, they are subject to risks and uncertainties that could result in actual outcomes differing materially from those projected in these statements. No statement contained herein constitutes a commitment by AVEVA to perform any particular action or to deliver any particular product or product features. Readers are cautioned not to place undue reliance on these forward-looking statements, which reflect our opinions only as of the date of this presentation.

The Company shall not be obliged to disclose any revision to these forward-looking statements to reflect events or circumstances occurring after the date on which they are made or to reflect the occurrence of future events.

 linkedin.com/company/aveva

 [@avevagroup](https://twitter.com/avevagroup)

ABOUT AVEVA

AVEVA, a global leader in industrial software, drives digital transformation for industrial organizations managing complex operational processes. Through Performance Intelligence, AVEVA connects the power of information and artificial intelligence (AI) with human insight, to enable faster and more precise decision making, helping industries to boost operational delivery and sustainability. Our cloud-enabled data platform, combined with software that spans design, engineering and operations, asset performance, monitoring and control solutions delivers proven business value and outcomes to over 20,000 customers worldwide, supported by the largest industrial software ecosystem, including 5,500 partners and 5,700 certified developers. AVEVA is headquartered in Cambridge, UK, with over 6,000 employees at 90 locations in more than 40 countries. For more details visit: www.aveva.com