

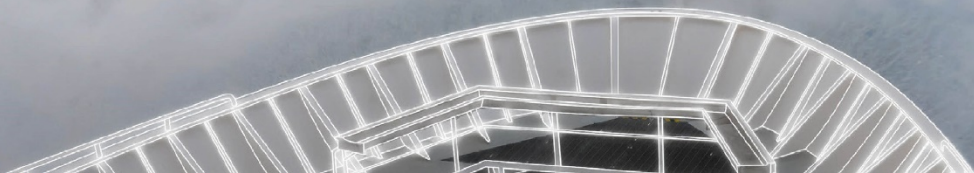


BETTER SHIPS BLUE OCEANS

Beyond the horizon

MARIN STRATEGY PLAN 2022-2025

Clean, safe and smart shipping,
sustainable use of the seas



Better Ships, Blue Oceans

Safe shipping



Future (floating) infrastructure



Renewable energy and food



autonomous ships



Ships for safety and security at sea



Zero emission ships



Zero Emission Shipping challenges:

- **Combination of techniques**
- **Multi-disciplinary**, proper integration becomes critical
- **Higher risks** because also **lower TRL** involved
- **Safety rules and regulations** not all up to date and applicable
- **Fuel availability**, green energy availability

Solutions found in:

- Risk based, MBSE based design: structure designs and determine commonalities
- *No one size fits all versus every ship is unique*
- Modularity, standardisation and upscaling?
- Reduce energy consumption in the entire chain, including end-users (us)