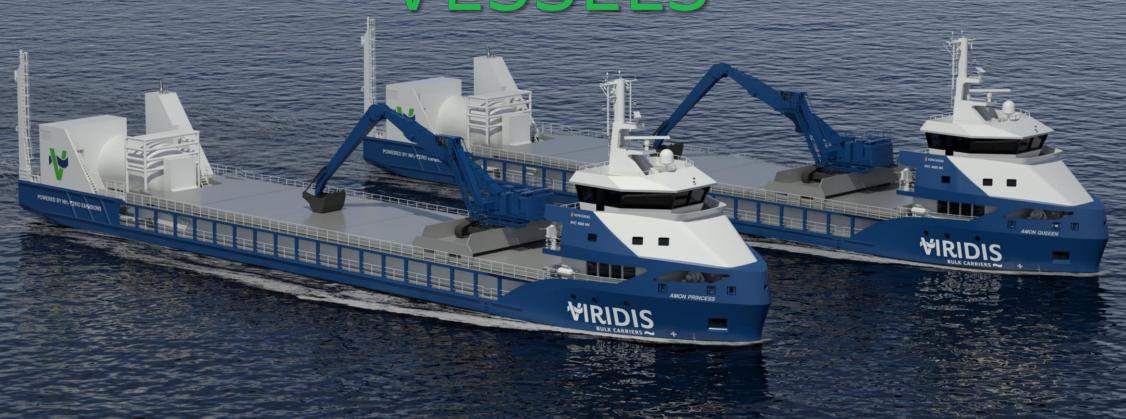


152 MNOK ENOWA GRANT 2 x







WHY AMMONIA?



Energy-rich

45-50% higher energy density than liquid hydrogen



Carbon free

Inherently carbon free when produced from renewable energy



Handling

Easier to produce, distribute and store than hydrogen



Well-established

Globally traded commodity with 130+ ports having ammonia import/export infrastructure in place



Abundant

Comprised of Nitrogen and Hydrogen, among the earth's most plentiful resources



Versatile

Demand stretches far beyond shipping fuel (e.g. fertilisers, power generation, hydrogen carrier), incentivising significant investments





VIRIDIS BULK CARRIERS

Background & Strategy

- Pioneering ammonia as fuel
- Develop, build, own and operate zero carbon bulk carriers without sacrificing operational capabilities like range/endurance
- Optimal joint venture structure from ship concept to operations
- Collaboration with strong industry/technology partners
- Strategy to build the leading bulk operator in Europe through the implementation of ETS in shipping
- Supported by Norwegian Pilot-e grant from development to investment





33,3% 33,3% 33,3%

Commercial lead, nautical / cargo technical lead



- Founded 1966
- Owns, operates and manages 15 short sea bulk carriers in the North Sea region, offering a complete logistical solution

Project manager and technical lead

dllon MARITIME

- Founded 2019
- Ammonia fuel pioneers shipping and technology group
- Global leader multiple first technical achievements

Finance lead



- Founded 1910
- Ownership in 22 deepsea ships
- Part of family owned Glastad
 Holding

Working partners

























DEVELOPMENT SINCE 2020

NEXT GENERATION ZERO CARBON SHORT SEA VESSEL











2020 - Viridis Bulk Carriers established / **Concept development**







- Navigare Logistics, Amon Maritime and Mosvolds Rederi forms Viridis Bulk Carriers AS to develop, build, own and operate zero carbon bulk carriers, drawing on the expertise, networks and capabilities of each of the joint venture partners
- Started developing design concept and establishing close collaboration with key technology partners

2021-2022 - Partnerships established / Public funding granted / R&D phase

- Established consortium with 8 charterers and technology partners - "Flexbulk - NH3 Power"
- Together developing an efficient zero emission freight network based on Viridis' ships and cargo volumes from each Client Partner
- Viridis Bulk Carriers and consortium partners awarded NOK 13.75 million in development funding from the Norwegian Pilot-E program to realize a carbon free short sea bulk transportation service comprising cargo, ships- and fuel logistics in the project "FlexBulk - NH3 Power"

2023 - Ready for construction

- Main ship design completed
- Approval in principle from BV and DNV class
- Preliminary assessment by the NMA
- Cargo routes map & logistics optimization, corresponding fuel logistics requirements
- Getting ready for ship construction
- Getting ready for fuel terminal construction
- Granted 152 MNOK from ENOVA

















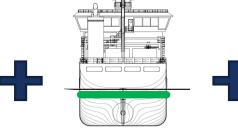


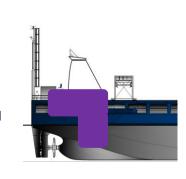


DESIGN CHALLENGE

SHIP PARTICULARS COMPROMISE

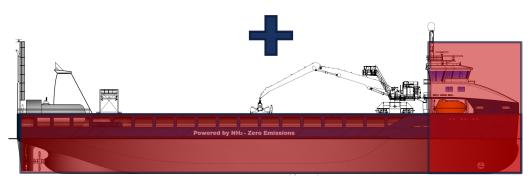


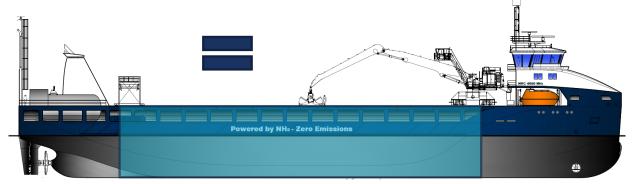










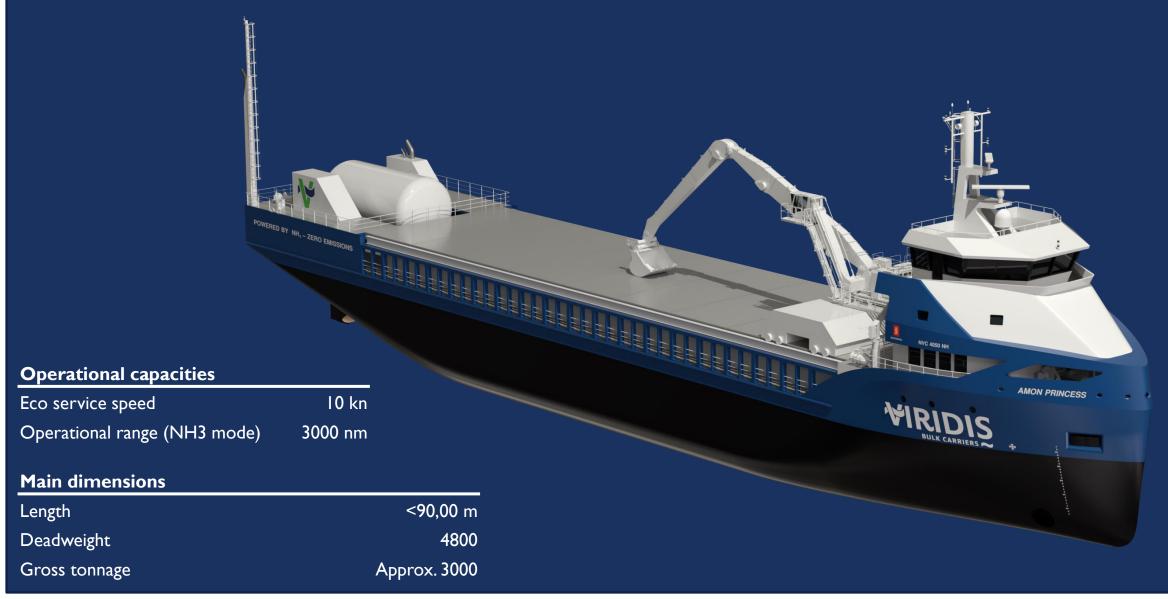


GT = < 3000

DWTCC = ~4500 tonnes



VBC 4800 - NH3 powered, self-discharging, short sea dry bulk carrier





RECEIVED APPROVAL IN PRINCIPLE AND PRELIMINARY ASSESMENT

WORLD'S FIRST OF ITS KIND

- The design has been deemed acceptable in principle by the class and the NMA according to the applicable rules
- No major showstoppers has been identified, reducing the risks of delays and costly design changes later in the project
- Thorough assessment of the design ensuring the safety and security of the vessel, crew and cargo
- Validates the technical work and development within the project and paves the way for a newbuilding contract







PROPERTY OF VIRIDIS BULK CARRIERS AS - CONFIDENTIAL









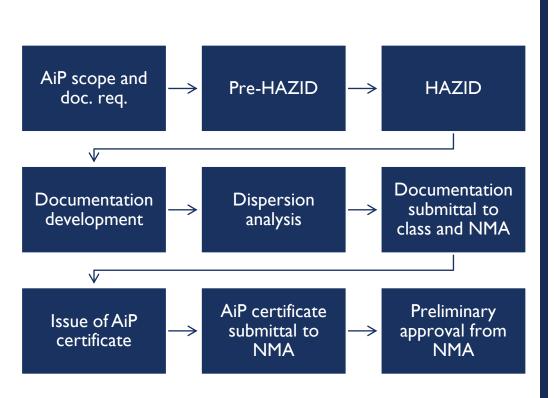


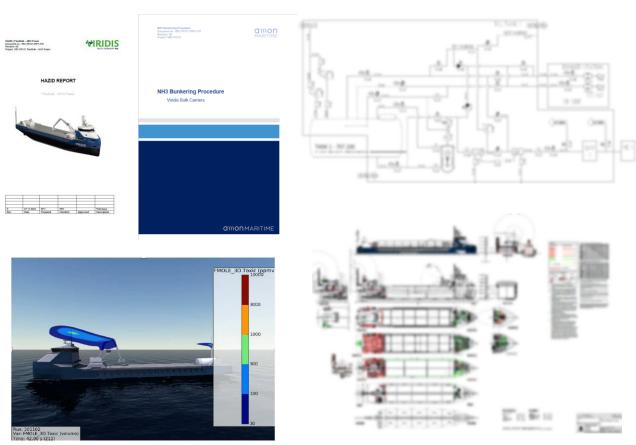






PRE-CONSTRUCTION APPROVAL PROCESS

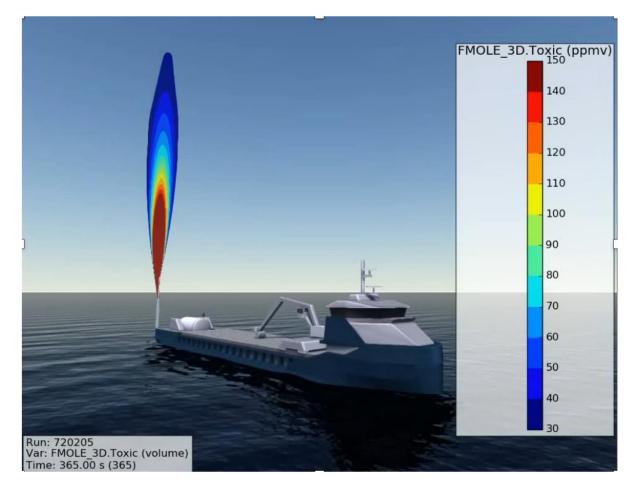


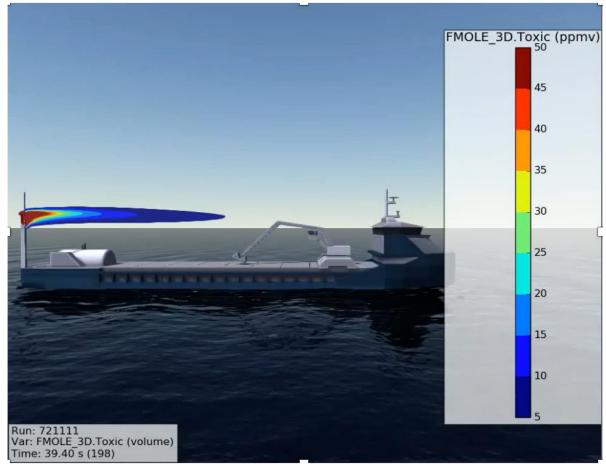


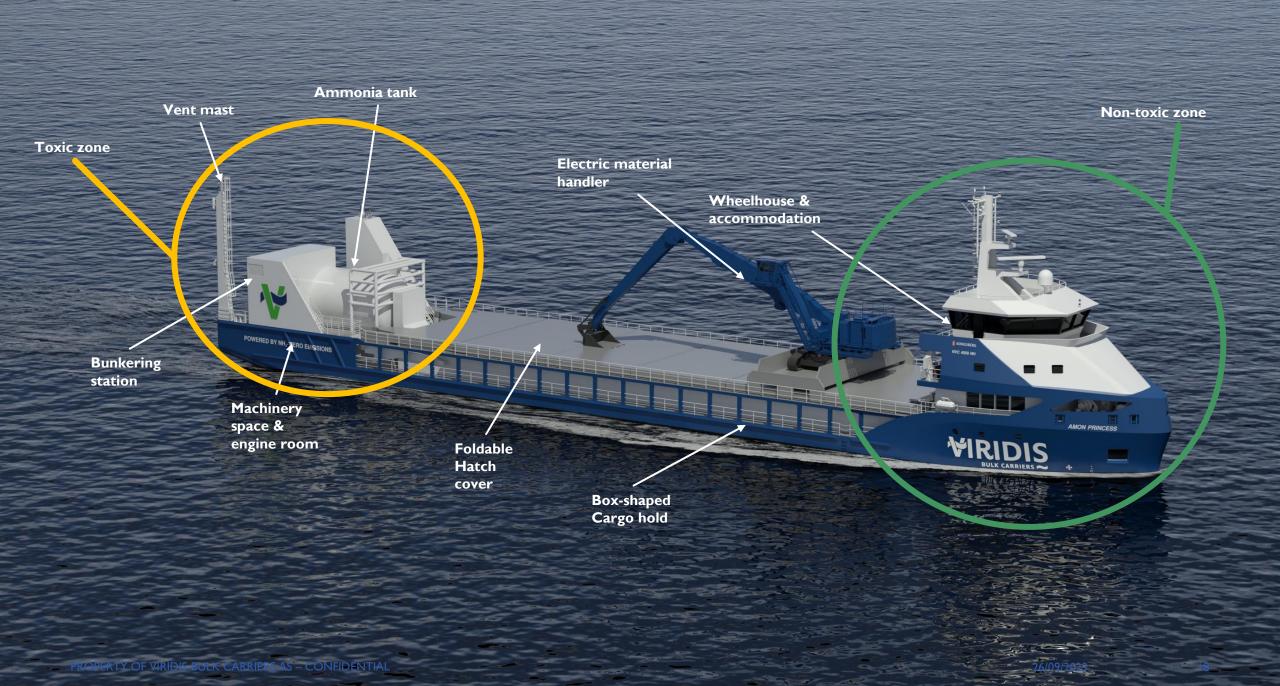
Purging in 2 m/s wind

PROPERTY OF AMON MARITIME AS – CONFIDENTIAL 9/26/2023 16











VIRIDIS BULK CARRIERS

PARTNER STRUCTURE SOLVING THE "CHICKEN & EGG" DILEMMA







