



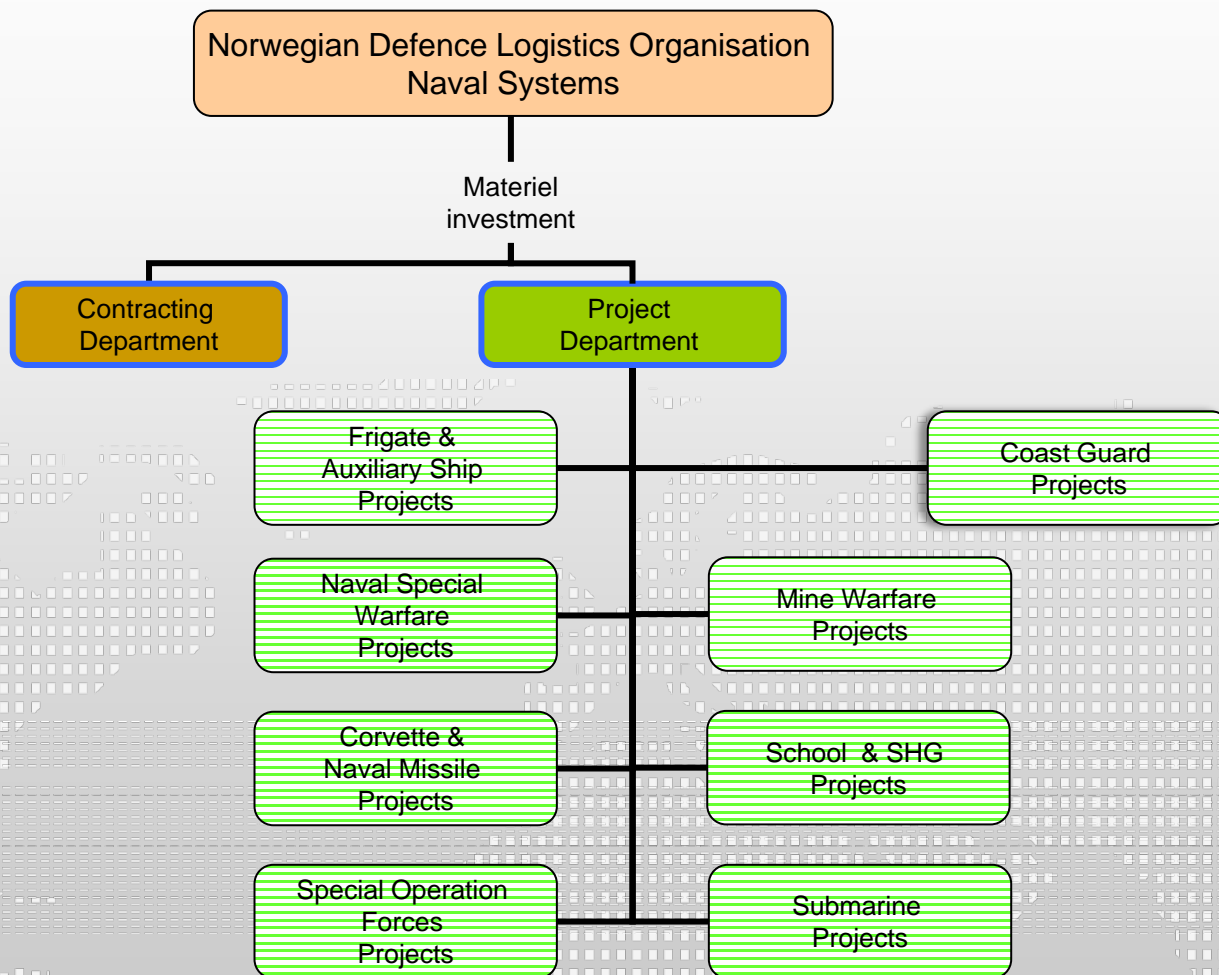
NORWEGIAN ARMED FORCES

Norwegian Defence Logistics Organisation Naval Systems

Coast Guard Program New Vessels Status and plans



Odd Magne Nilsen
Commander
NDLO NS
Coast Guard Projects





- Coast Guard fleet today
- Plans for HC carrying vessels
- New vessels



Owned Coast Guard Vessels

HC carrying vessels

KV Svalbard



Icebreaker

In service since 2002

Nordkapp class



***KV Nordkapp
KV Senja
KV Andenes***

In service since 1981

KV Harstad



In service since 2005

Nornen- class



***KV Nornen
KV Tor
KV Njord
KV Farm
KV Heimdal***

In service since 2007



Leased Coast Guard Vessels

Barentshav class



**KV Barentshav
KV Bergen
KV Sortland**

In service 2005-2008

Contract until 2025 - 2028

KV Ålesund



contract until 2016

Reine class

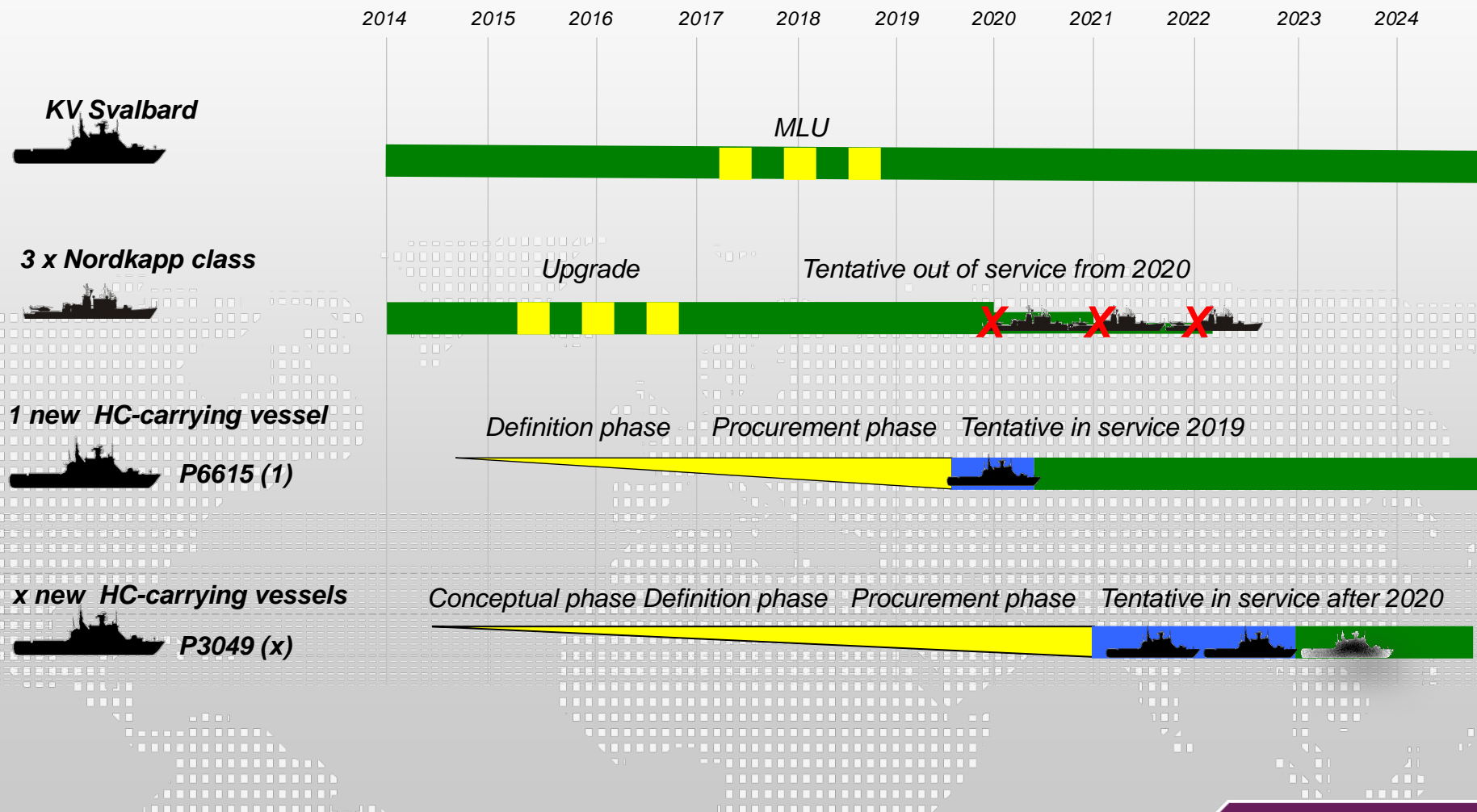


KV Magnus Lagabøte

In CG service since 2012



HC-carrying vessels





P6615 New Coast Guard Vessel

- Purpose

Acquiring a new helicopter-carrying vessel with ice capability in order to maintain the Coast Guard's capability with regard to organic helicopters.

The vessel shall be able to perform all operations in a safe manner up to and including sea state 5

- Pending executive order (GO) from MoD



Platform Capability requirements

- Speed 22 knots
- Ice strengthened
- Sea-keeping (safe operations in SS5)
- Diesel electric propulsion
- Endurance 8 weeks (economic speed)
- Accommodation for maximum 100 persons
- Collective CBRN protection
- Container capacity on deck
- Towing capability
- FRB (Sea Bear MK III)
- Facilitate 2 boats for special purposes



Platform Capability requirements

- Helicopter capability
 - Landing aid for both day and night operations
 - Deck (strength / space for AW101 size)
 - Hangar (2 NH90)
 - Service and maintenance facilities
- Hospital facilities
- Operation rooms arranged to support both military and civilian operations
- Oil pollution prevention capability
 - Equipment for oil pollution prevention
 - Oil spill storage capacity
 - Assistance to Norwegian Coastal Administration



Military Capability requirements

- Command Control and Information system (C2I)
 - Including HC control
 - Picture compiler
 - Interface for Network based Defence (NbD)
- Military communication systems (classified and unclassified)
 - Radio systems
 - SATCOM systems
 - Link systems



Military Capability requirements

- Armament
 - Gun
 - Gun fire support (all weather)
 - Machine guns
- Sonar
- Echo sounder
- Storage support for armed HC (torpedos and mines)



General regulations

- Naval Ship Code (ANEP-77)
 - ch IV, VI, VII og X
- IMO/MARPOL 73/78
 - Air pollution prevention
 - Sea pollution prevention
- NRAR:
 - Structure
 - Electrical systems
 - Pre-treatment and painting
 - Helicopter integration
 - Habitability



Class notations (DNV GL)

- ⚓1A1
- NAVAL SUPPORT (stab)
- NBC-2
- HELDK-SHF(CAA-N)
- ICE 1A*F
- RPS+
- NAUT-AW(ICS)
- DYNPOS-AUTR
- WINTERIZED POLAR(-30°)
- DEICE
- E0
- COMF V1C1
- FIFI 1
- OILREC
- BWM-T
- CLEAN-DESIGN



P6615 Pre-procurement activities

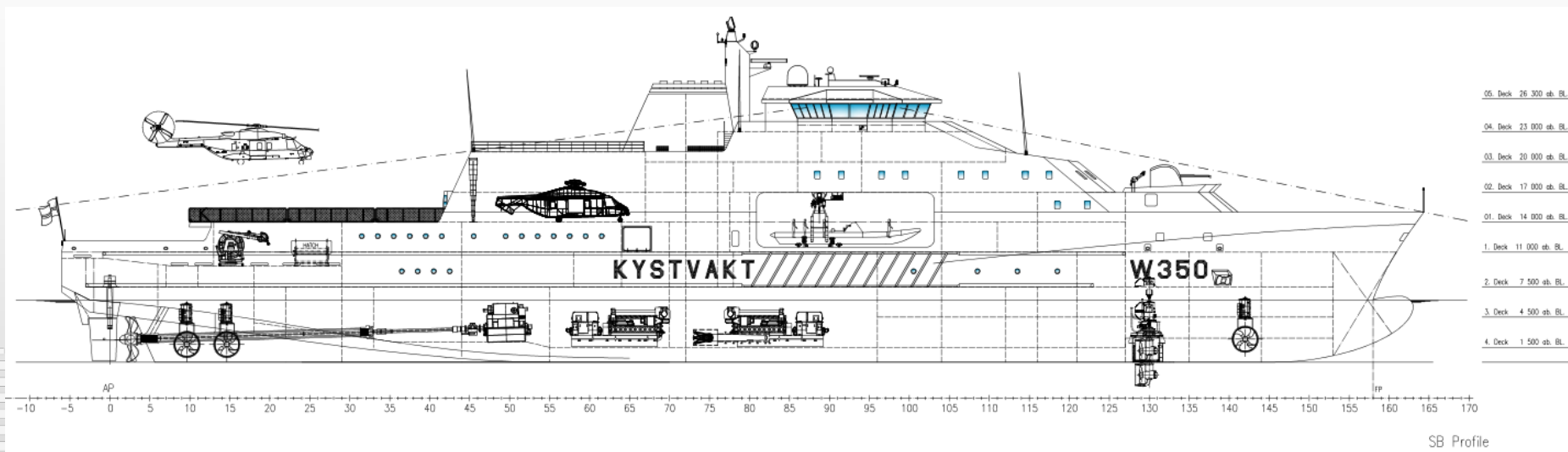
- Basic design
- Model tests
- Weight calculation
- Technical specification
- Station keeping analysis
- Operability analysis
- Armament analysis



Basic Design

- General arrangement (GA)
- Design support activities
 - Weight estimation
 - Preliminary stability analysis
 - Internal watertight integrity plan
 - Speed-power estimation
 - Profile and plan drawings
 - Line plan
 - Tank plan
 - Mid-ship section
 - Electrical load analysis
 - Propulsion arrangement analysis

Main dimensions

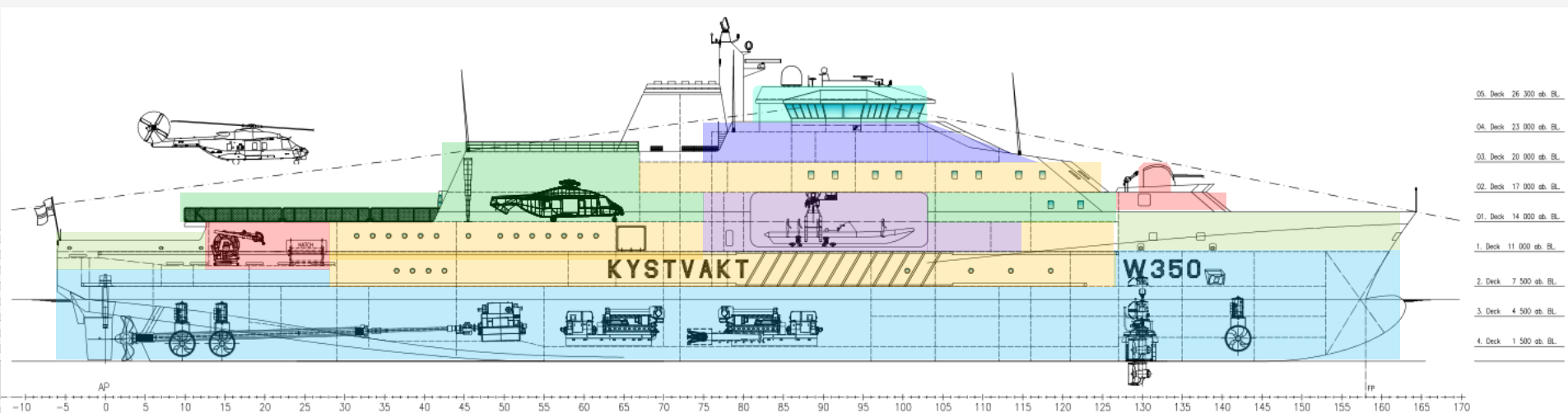


- Length over all(LOA): 136,40 m
- Length betw. Perp.(LPP): 126,40 m
- Breadth Moulded: 19,00 m
- Draught at DWL: 6,20 m
- Depth to 1. deck: 11,00 m
- Light ship weight: 7.300 t
- Dead Weight: 2.500 t
- Displacement: 9.800 t
- Steel Weight: 4.500 t



NORWEGIAN ARMED FORCES

Norwegian Defence Logistics Organisation Naval Systems



SB Profile



Model tests at MARINTEK

- Performance test
- Sea keeping test



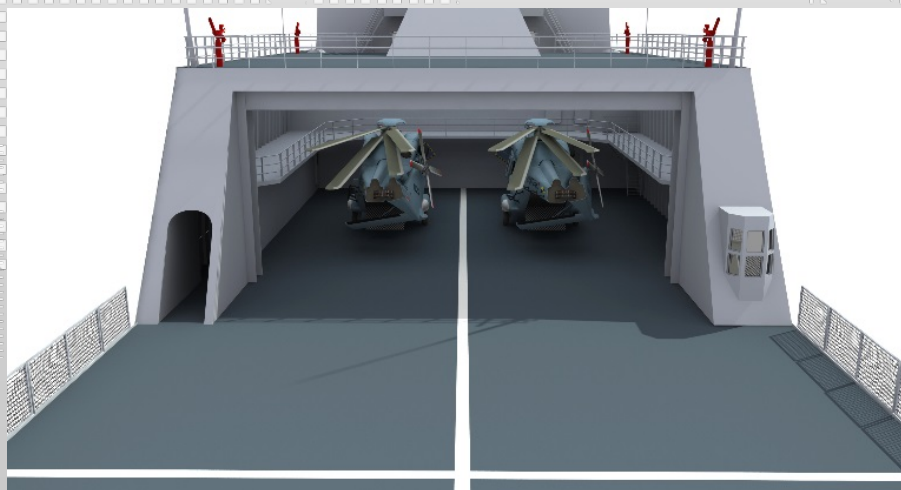


Tentative schedule

- Executive order from MoD Q4 - 2014
- Pre-qualification Q2 - 2015
- Invitation to tender Q3 - 2015
- Negotiation Q1 - 2016
- Yard contract Q4 - 2016
- Production completed Q3 - 2019
- Tests

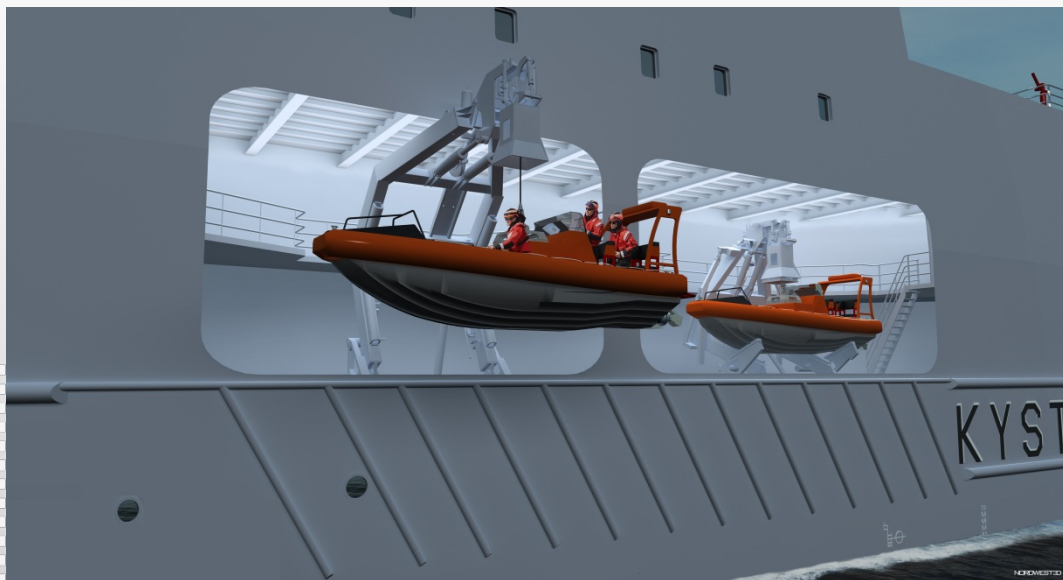


Helicopter facilities





Boat facilities





Environment pollution prevention



Equipment delivered by Norwegian Coastal Administration



NORWEGIAN ARMED FORCES

Norwegian Defence Logistics Organisation Naval Systems





NORWEGIAN ARMED FORCES
Norwegian Defence Logistics Organisation Naval Systems







NORWEGIAN ARMED FORCES

Norwegian Defence Logistics Organisation Naval Systems

