## Logistics Support Vessel HNoMS Maud

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NORWEGIAN ARMED FORCES



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### **THE LSV Delivery Team**

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#### NDLO CUSTOMER CONTRACT AUTHORITY

Operational Need Operational Environment Engineering Experience

#### DSME SHIPBUILDER PRIME CONTRACTOR

Design Overall Project Management Production Efficiency Test & Trial Delivery Warranty ILS

UK MARS Experience BMT BASIC DESIGN SUB CONTRACTOR

Auxiliary, Warship and Submarine Design and Through-Life Support

ILS Safety Management Systems Engineering

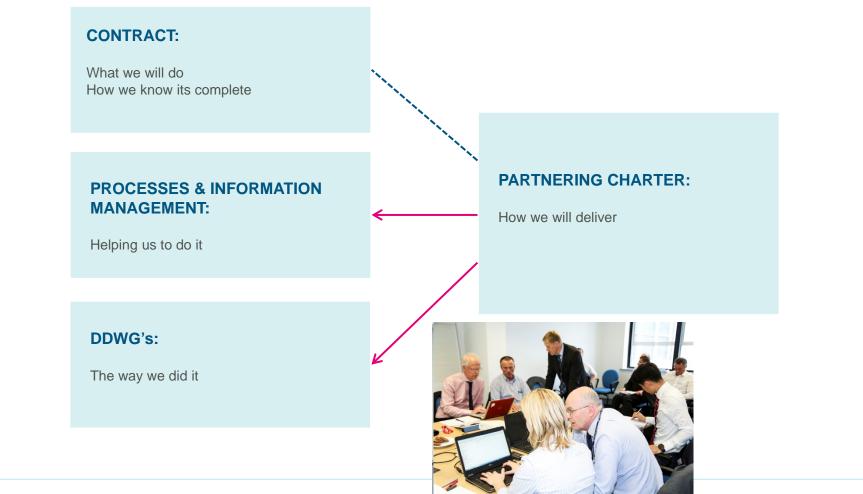


**Commercial in Confidence** 



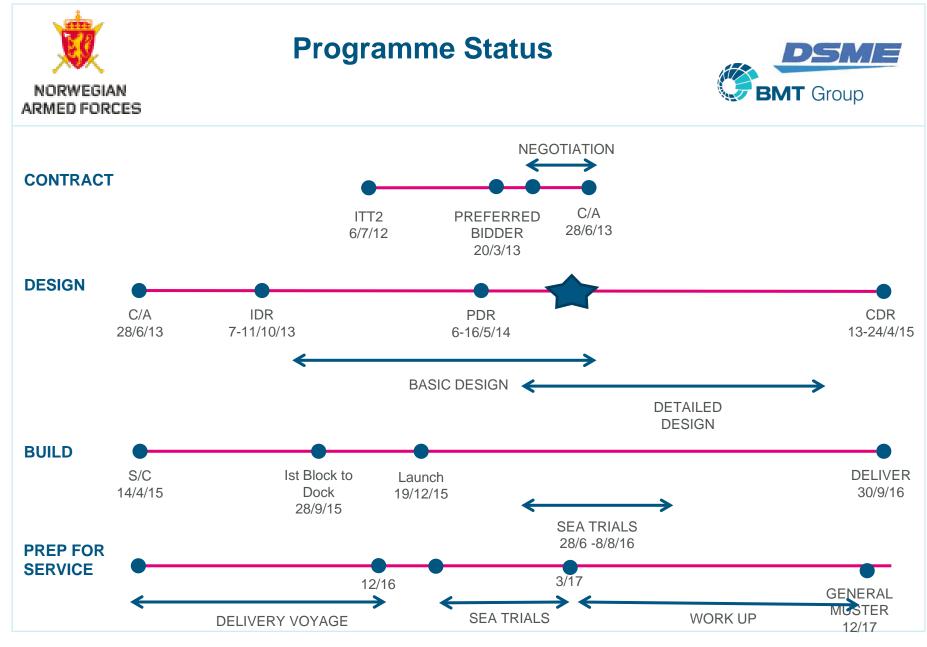
### HOW WE WORK TOGETHER







**Commercial in Confidence** 





### **LSV Capabilities and Particulars**

#### **Highly Flexible Multirole Vessel**

- Replenishment at Sea: DFM F76, AVCAT • F44, Fresh Water, Stores, Ammunition,
- Support Ship for Norwegian Task Force: Nansen class frigate, Skjold-class corvettes, Mine countermeasure vessels, Ula-class submarine, Small craft (CB-90)
- Humanitarian Relief: hospital, containers •
- **Helicopter Operations**
- **Command Platform** •
- **Military Support**

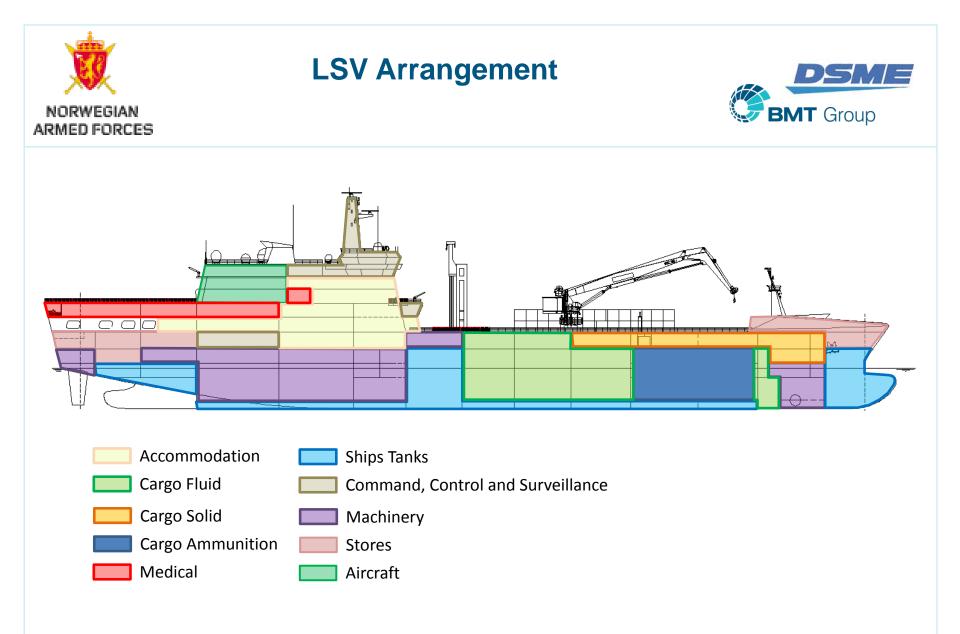
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Length overall	180.7 m
Beam:	25.9 m
Design draught	8.6 m
Speed	18 knots

**Primary fluid cargo capacities:** DFM F76: 7000 te / AVCAT F44: 300 te

Primary solid cargo capacities: 40x TEU / 200 te ammunition or a mix of vehicles and boats.

**Dual abeam RAS rigs and stern reel** 25 tonne SWL deck crane Side ramp Flight deck and hangar for organic NH90 (stowage for 2 x NH90) Large medical complex

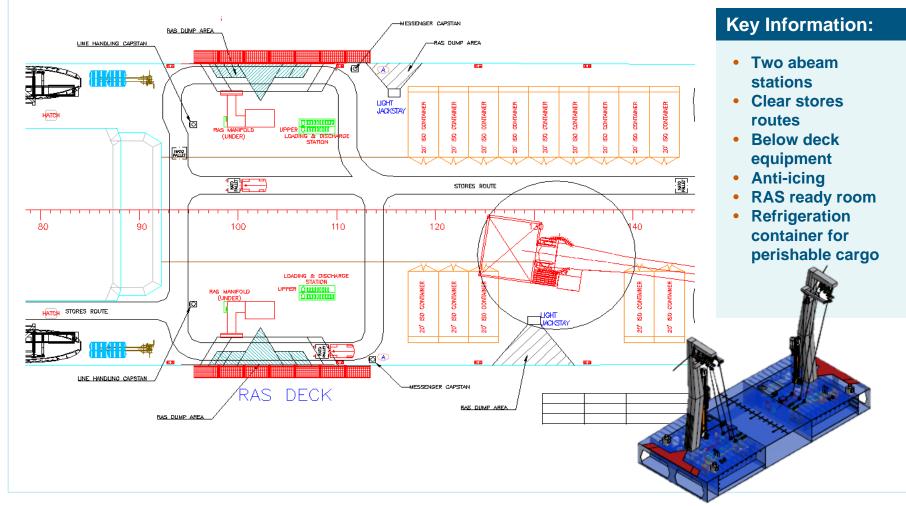




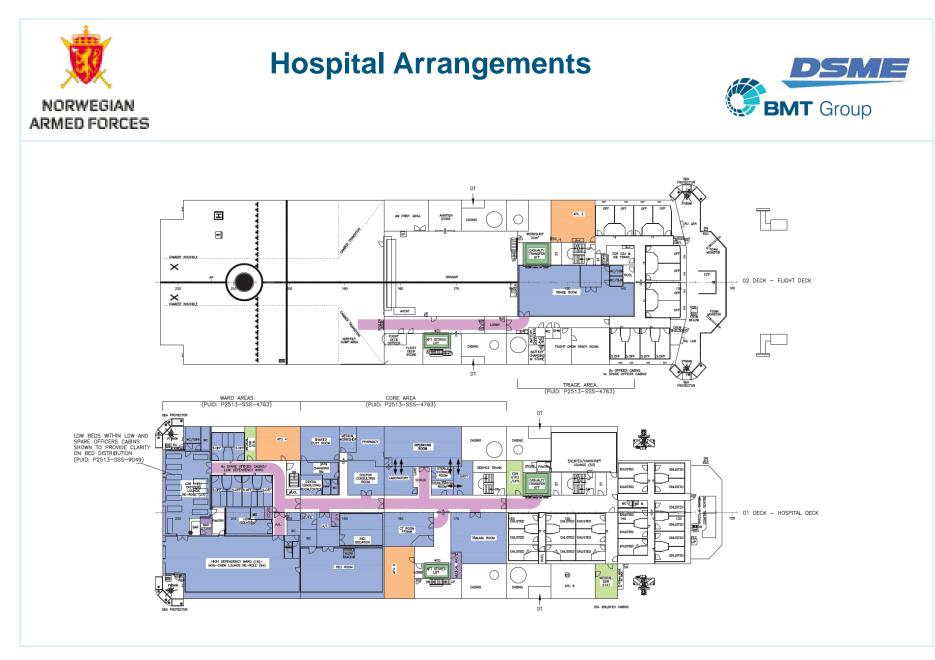
### **RAS Arrangement & Cargo Handling**

Stroup







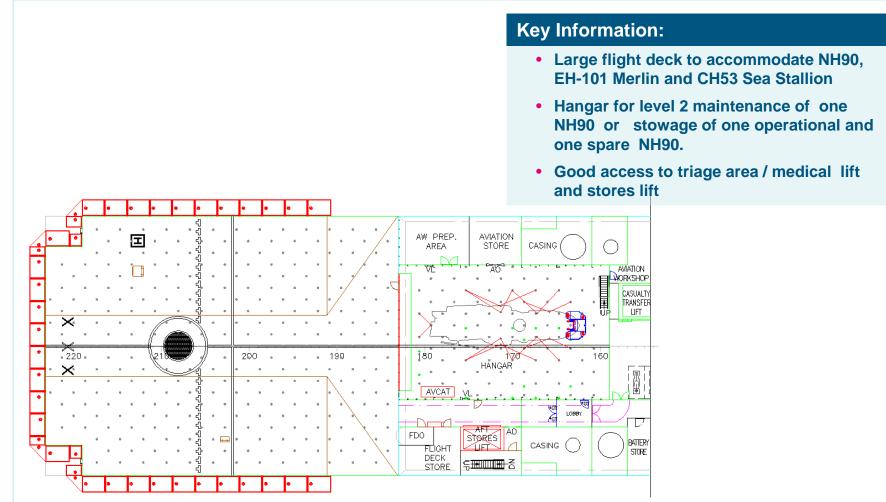






### **Aviation**









### **Mother Ship**



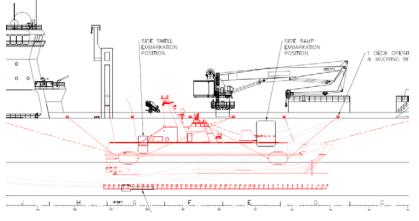
#### **Key Information:**

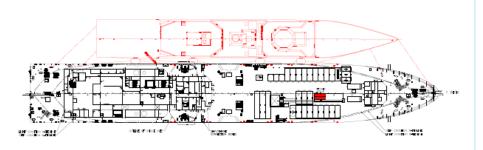
- Mooring for vessels and submarines
- alongside

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- Side Access Doors
- Support cranes for replenishment
- Hose and Power Connections
- Support for Crews inc. Catering, Gym and Sauna











### **Integrated Weapon System**



#### **Key Information:**

#### Navigation – Integrated Bridge (IBS)

- Full suite
- **Command & Control Systems** 
  - ECDIS / AIS
  - Autopilot

#### Sensors

- Radars X/S Band and IFF
- Optical Bearing Device (OBD)
- Infra Red Camera
- Log

#### Integrated Communications System (ICS)

- External Communications
  - Strategic HF & MILSAT
  - Tactical V/UHF
  - Civil GMDSS
  - Security
- Internal Communications
- Information Systems





#### Operations Room Helicopter Control

- Helo Approach Radar
- Landing Aids

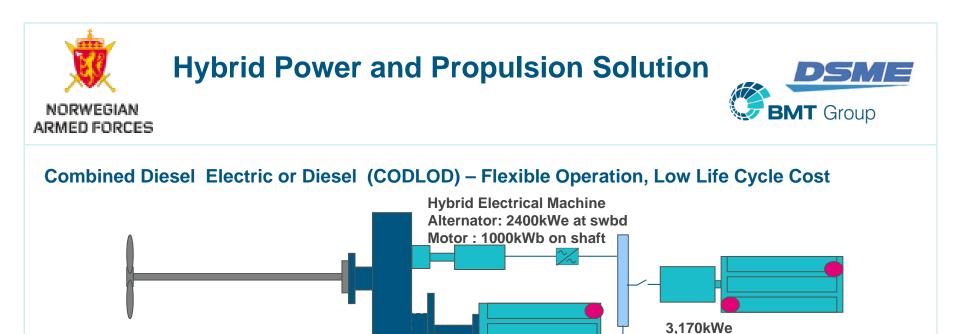
#### Weapons & Countermeasures

- 4 x Sea Protector (Future Installation)
- Small Arms

#### Integrated Platform Management System (IPMS)

• Damage Control





**Main Diesel Engine** 

Main Diesel Engine

Hybrid Electrical Machine Alternator: 2,400kWe at

Motor : 1,000kWb on shaft

swbd

7,500kWb

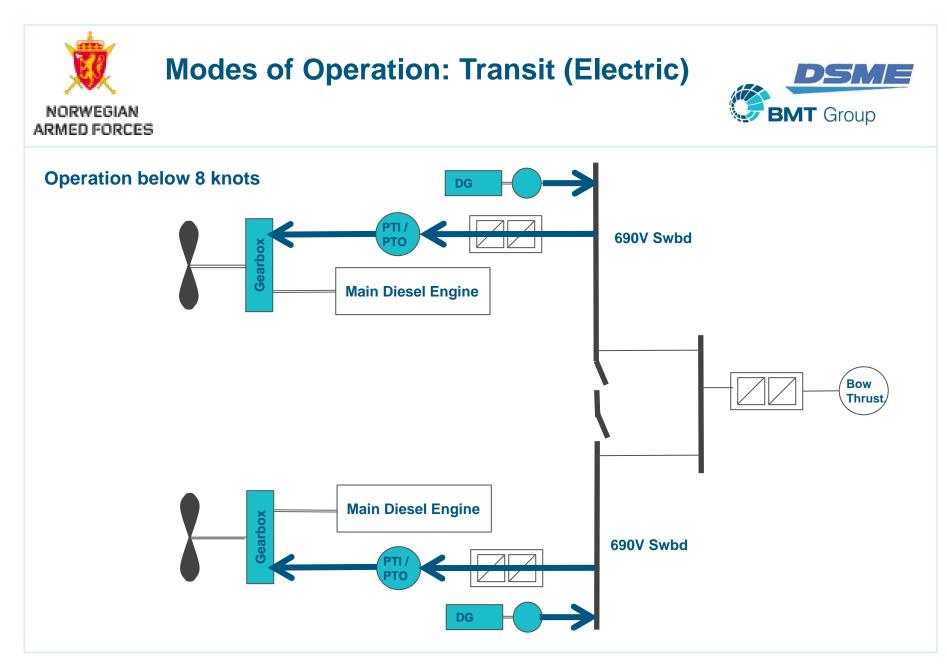
7,500kWb

Gearbox

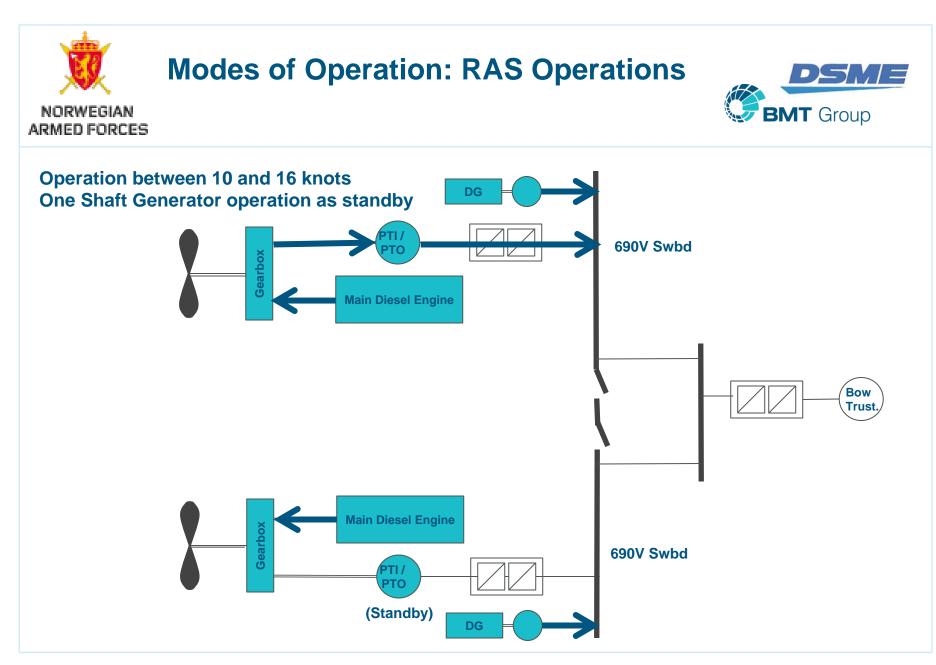
Genset

3,170kWe Genset

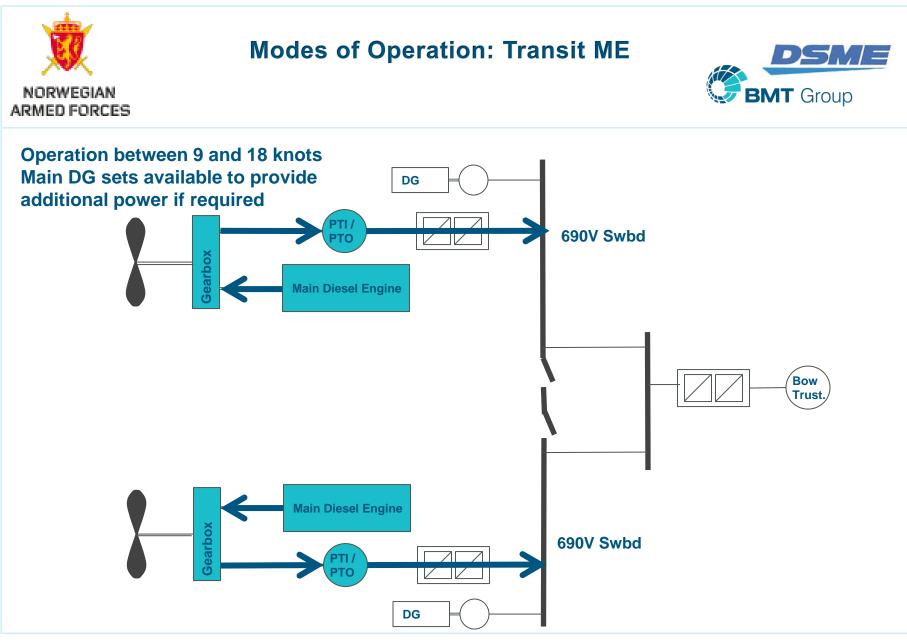


















### What Next for LSV?



- Detailed Design
- Build
- Inspection, Tests and Trials
- Delivery
- Warranty With Support
- In Service Technical Support
  - Design Management
  - Equipment Management
  - Maintenance Management
  - Spares Management
  - Safety Analysis







### What Next for DSME



- Modified Design for Australia
- New Zealand
- Other Countries
- Combatant and Non-combatant Ships
- Submarines
- In Service Support



Patrol Vessel – BMT design



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### Thank you !!



