

SURFACE FLEET MODERNIZATION PLAN

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INTRODUCTION – CORE OBJECTIVES

The HN aims at a surface FLEET Modernization with the following core Objectives:

- > FLEET MODERNISATION for 2030+
- > MAXIMIZE COMMONALITIES
- MISSION MODULARITY
- > SUSTAIN AVAILABILITY



OVERVIEW

- > FDI FRIGATES
- **▶** CORVETES
- > FFFG(62) CONSTELLATION CLASS FRIGATES
- MEKO FRIGATES MODERNIZATION / UPGRADE
- > FAST ATTACK CRAFTS
- > PATROLS BOATS
- > SPECIAL OPERATIONS CRAFT
- > QUESTIONS







On March 30th 2022, Greece signed contracts for the construction of 3 (+1 option) frigates FDI HN (Defense and Intervention Frigates) with Naval Group SA, France and MBDA.





The PROGRAM is divided in three separate contracts:

- ➤ 016B/21 for the construction of the Frigates.
- > 018B/21 for the acquisition of the Guided missiles
- ➤ 017B/21 for the Follow-On Support of the frigates.





HELLENIC NAVY ARMAMENTS DIRECTORATE FDI HN PROGRAM SHIP'S GENERAL DATA

Length overall: 121.6 m

Beam overall: 17.7 m

Displacement: 4550 tons at full load.

Maximum continuous speed: 27 kts

Range: 5000 NM at 15 kts

Crew + Passengers: up to 153 personnel

Propulsion: CODAD

Helicopter: S70-B or MH-60R





Upon program completion, FDI HN frigates will be equipped with:

- ➤ STIR Mk2
- ASTER 30 + EXOCET B3
- > 76/62 SR MF main gun
- LEONARDO Lionfish 20mm
- RAM Mk49 Mod5 GMLS
- Torpedoes MU-90 (EUROTORP)

- Sea Fire Radar with fixed AESA panels
- RESM Sentinel + CESM Altesse-H
- ➤ VDS CAPTAS 4 + Sonar KINGKLIP Mk2
- Asymmetric Warfare Management System (PASEO, NLE)
- ➤ UAS S-100 (SCHIEBEL) (fitted for)



The FDI HN frigate is equally capable of conducting all types of Warfare





General Program Schedule

As per contract the delivery dates of the 3 FDI HN frigates are the following:

- Frigate FDI HN1 is scheduled to be delivered in March 2025.
- Frigate FDI HN2 is scheduled to be delivered in October 2025.
- Frigate FDI HN3 is scheduled to be delivered in October 2026.



HELLENIC NAVY ARMAMENTS DIRECTORATE CORVETTES PROGRAM

- The Hellenic Navy in the context of its fleet modernization is also considering the acquisition of 3+1 corvettes, in the near future.
- Several types of corvettes are being considered.
- Furthermore, Greece is full member of the PESCO project for the European Patrol Corvette.





HELLENIC NAVY ARMAMENTS DIRECTORATE CORVETTES PROGRAM









HELLENIC NAVY ARMAMENTS DIRECTORATE CONSTELLATION CLASS

- The HN has expressed its long-term goal in pursuing the FFG-62 Frigates, as part of the HN's surface combatant modernization plan.
- Co-production and Procurement of F/G CONSTELLATION FFG-62 Class by the HN.
- ➤ To this extend, the HN is Developing an FMS Planning Case.





HELLENIC NAVY ARMAMENTS DIRECTORATE CONSTELLATION CLASS

- This is one of the greatest procurement challenges the HN has undertaken in its recent history.
- Once successfully completed, it will produce highly capable ships, which will constitute the bulk of HN's modern high-end warfare capabilities.



HELLENIC NAVY ARMAMENTS DIRECTORATE 4 MEKO FRIGATES MODERNIZATION / UPGRADE

















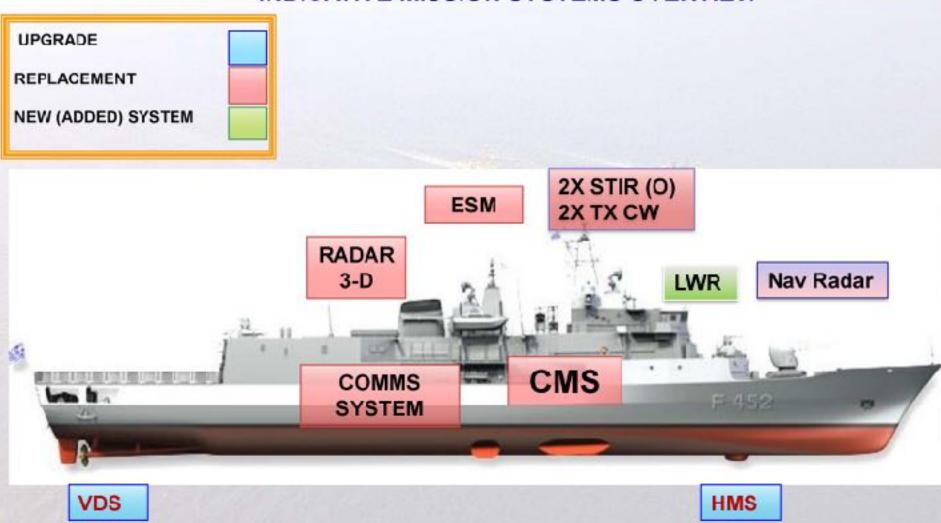
HELLENIC NAVY ARMAMENTS DIRECTORATE 4 MEKO FRIGATES MODERNIZATION / UPGRADE

PURPOSE OF THE PROGRAM

- Service Life Extension (+ 15 years)
- Midlife Upgrade (all domains of naval operations + new)
 - + New Sensors
- Systems' Upgrade (no obsolescence)

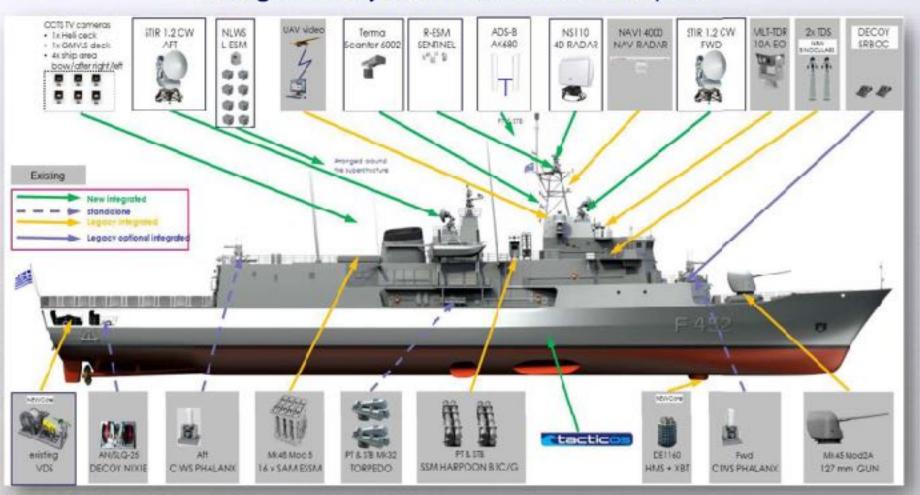


INDICATIVE MISSION SYSTEMS OVERVIEW



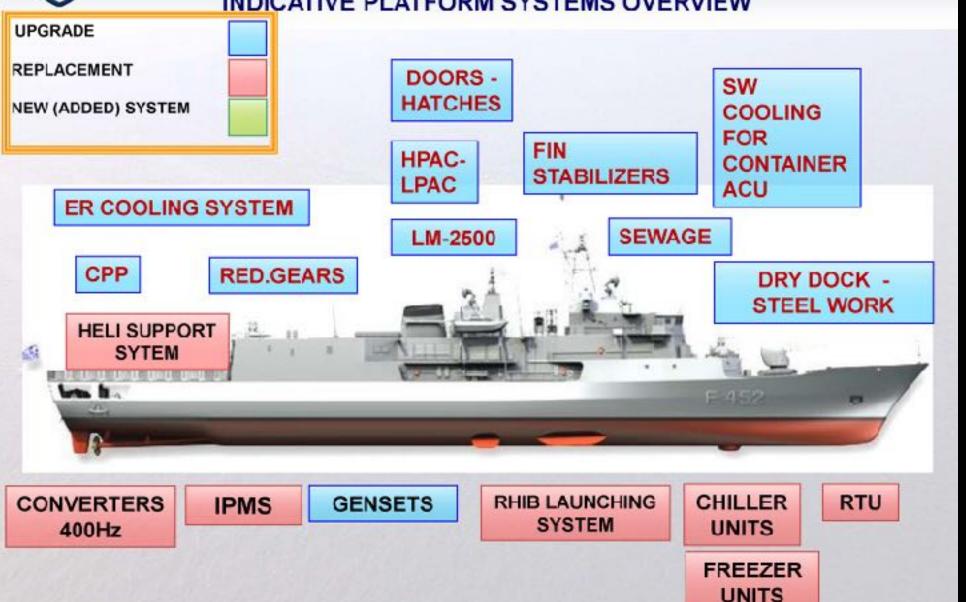


Mission System Layout for the Hydra Class - Indicative above deck arrangement layout of Sensors and Weapons



HELLENIC NAVY

ARMAMENTS DIRECTORATE INDICATIVE PLATFORM SYSTEMS OVERVIEW







MLU Project

- First ship commissioned in 2005 but also equipped with systems designed in the 90s.
- The MLU Study for the ROYSSEN Class FACs is under approval

Expected End-State After the MLU Project

- > Equip ships with state of the art Sensors / Systems
- HN's ROYSSEN Class FACs have highest operational capability until their decommissioning.
- Address obsolescence issues



New Fast Attack Crafts (FACs) Project

- The Operational Requirements Study for the New FACs has been approved
- Scope of project: 9 New FACs



New Patrol Ships Project

- An FMS case is in the execution phase and 4 Island Class Patrol Ships are already under repair and upgrade.
- FMS cases for the procurement of 3 Protector class and 2 more Island Class Patrol Ships are under development.

Expected End-State After the New Patrol Ships Project

- HN to operate no less than 8 Patrol Ships by mid 2020s, of which:
- 6 type ISLAND class
- 3 type Protector class







General Characteristics:

- Displacement: ≤ 170 tons ISLAND Class
- Displacement: ≤ 92 tons PROTECTOR Class

Propulsion System:

- Two (2) Diesel Main Engines (Paxman Valletta) ISLAND
- Two (2) Diesel Main Engines (MTU) PROTECTOR

Weapon System:

- 1 stabilized Lionfish Leonardo (20mm) Main Gun for ISLAND Class
- 1 stabilized SigSauer (12,7mm) for PROTECTOR Class

Communication System:

L3 Harris Transceivers

Ships' Sensors will be upgraded accordingly, including E/O Devices



HELLENIC NAVY ARMAMENTS DIRECTORATE SPECIAL OPERATIONS CRAFT

AGENOR SOC

Designed and Constructed in Greece, According to HN Specifications



MISSIONS

 Primary: Insertion and Extraction of SOF

Secondary: Interdiction/VBSS,
 Coastal Patrol, SAR







HELLENIC NAVY ARMAMENTS DIRECTORATE SPECIAL OPERATIONS CRAFT

General Characteristics:

Displacement: ≤ 22,5 tons

Useful load: ≤ 5 tons

 Survivability: One compartment Damaged

Length overall: 17,93 m

Breadth overall: 4,50 m

Draft: 0,95 m

Propulsion Systems

Two (2) Main Engines 2X1.200
 HP: MAN 8V 882 kW

Propulsion : Surface Propellers

· Fuel Capacity: 2.700 It

Speed (cruising): 35 knots
 Speed (max): 52,5 knots

 Endurance : 350 nautical miles at 35 knots



QUESTIONS?