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# Guided Missile Frigate (FFG 62) Update National Symposium – Surface Navy Association

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January 11, 2022



# Guided Missile Frigate (FFG 62) Program Description



## Mission:

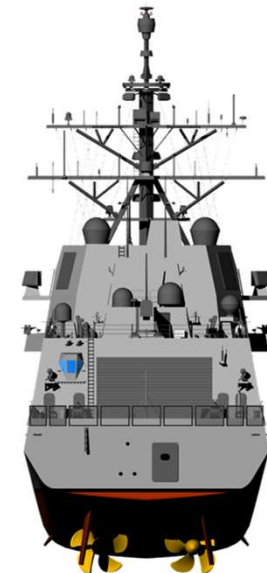
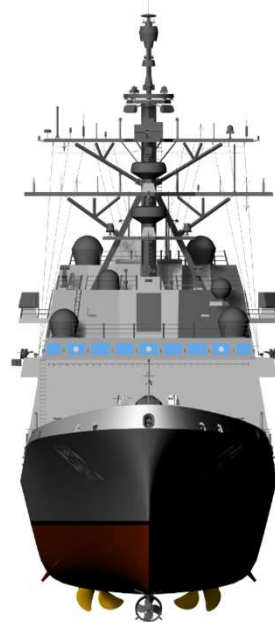
Anti-Submarine Warfare, Surface Warfare, Electromagnetic Maneuver Warfare, and Air Warfare

## Description:

FFG 62 is an agile, multi-mission platform designed for operation in littoral and blue water environments

## Employment:

Operate independently or integrated with a Task Force to conduct offensive and defensive Surface, Anti-Submarine, and Air Warfare





# Program Status

- **Program Successes Since Contract Award:**

- Completing Frigate Class Functional Engineering and transitioning to Detail Design
- Established Combat System requirements and initiated equipment procurement
- Navy certified the Frigate Build Specification
- Completed Ship Scale Model testing at NSWC Carderock Seakeeping & Maneuvering Basin
- SECNAV Announced:
  - Ship 1: USS CONSTELLATION (FFG 62)
  - Ship 2: USS CONGRESS (FFG 63)
  - Ship 3: USS CHESAPEAKE (FFG 64)

- **FY22 Focus Areas:**

- Completing Frigate Class Detail Design:
  - Critical Design Review (CDR) 2QFY22
- Start Lead Ship (FFG 62) Construction:
  - Production Readiness Review (PRR) 3QFY22
- Continue AEGIS Combat System Development and Integration efforts
- Complete Fincantieri Capital Improvement Projects at Marinette and Sturgeon Bay
- Continue Propulsion Land Based Engineering Site (LBES) Development at NSWC Philadelphia





# CONSTELLATION Class Frigate (FFG 62)



## Principal Characteristics

LOA	496.1 ft
LBP	462.2 ft
Beam Overall	64.6 ft
Design Draft	18.0 ft
Installed Power	48,679 hp
Service Life	25 yrs

## Weight Estimate      WT (lt)

LS Displacement	6,016
FL Displacement	7,291

## Machinery and Auxiliary Systems

Combined Diesel-Electric and Gas (CODLAG) Propulsion Plant  
(1) Gas Turbine  
(2) Electric Propulsion Motors  
(4) Ship Service Diesel Generators  
(1) Auxiliary Propulsion Unit

## Mission

Combat System: AEGIS B/L 10; AN/SPY-6(V)3;  
AN/SQQ-89(V)16; MK 48 GWS

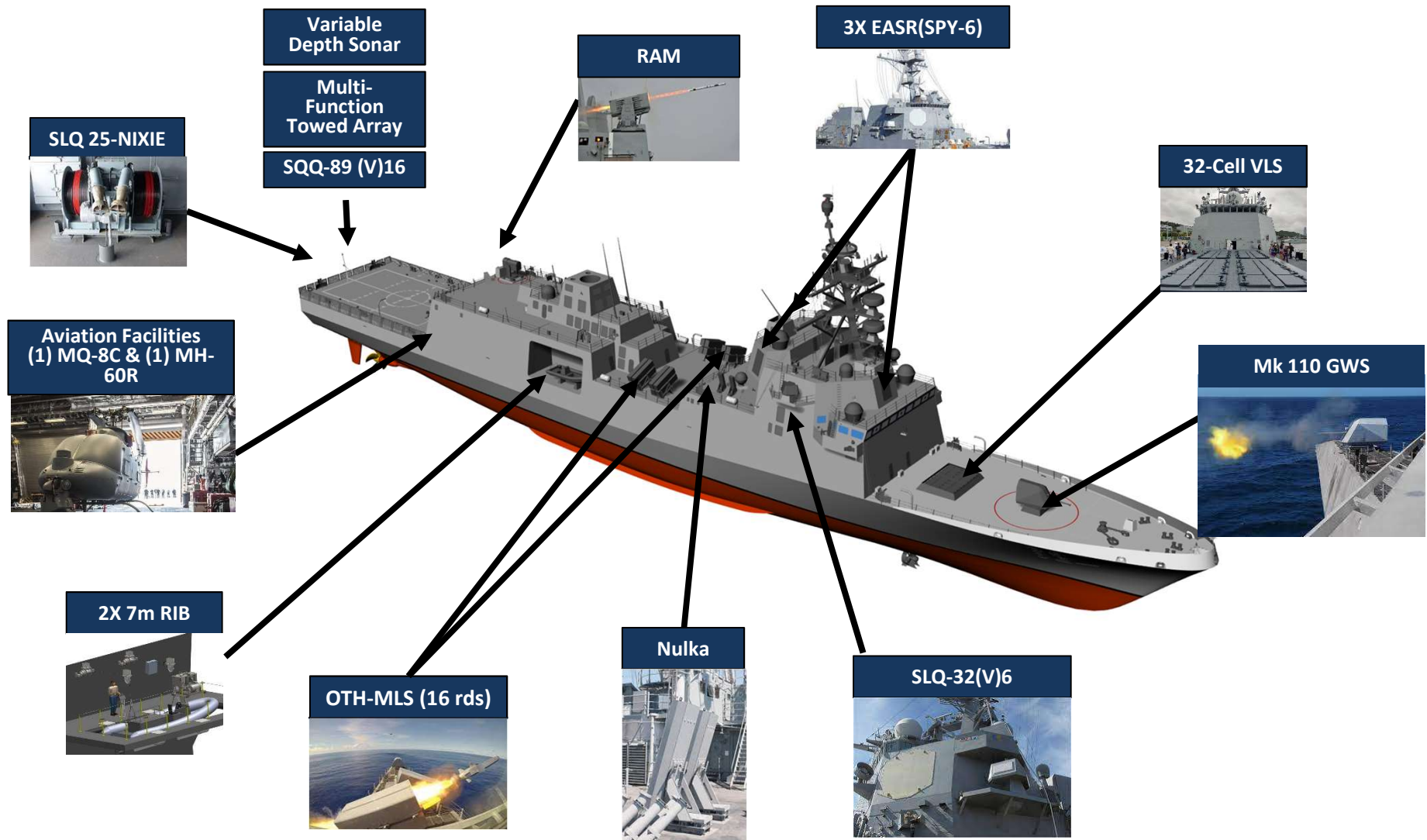
Hangar: One MH-60R, plus UAV

Armament & qty.:

- (1) MK 110 57mm Gun
- (32) MK41 VLS
- (16) NSM Weapon System
- (1) MK 49 RAM
- (4) MK 53 MOD 9 DLS
- (2) AN-SLQ-32(V)6 CM (SEWIP) BLK II



# CONSTELLATION Class Mission Capabilities





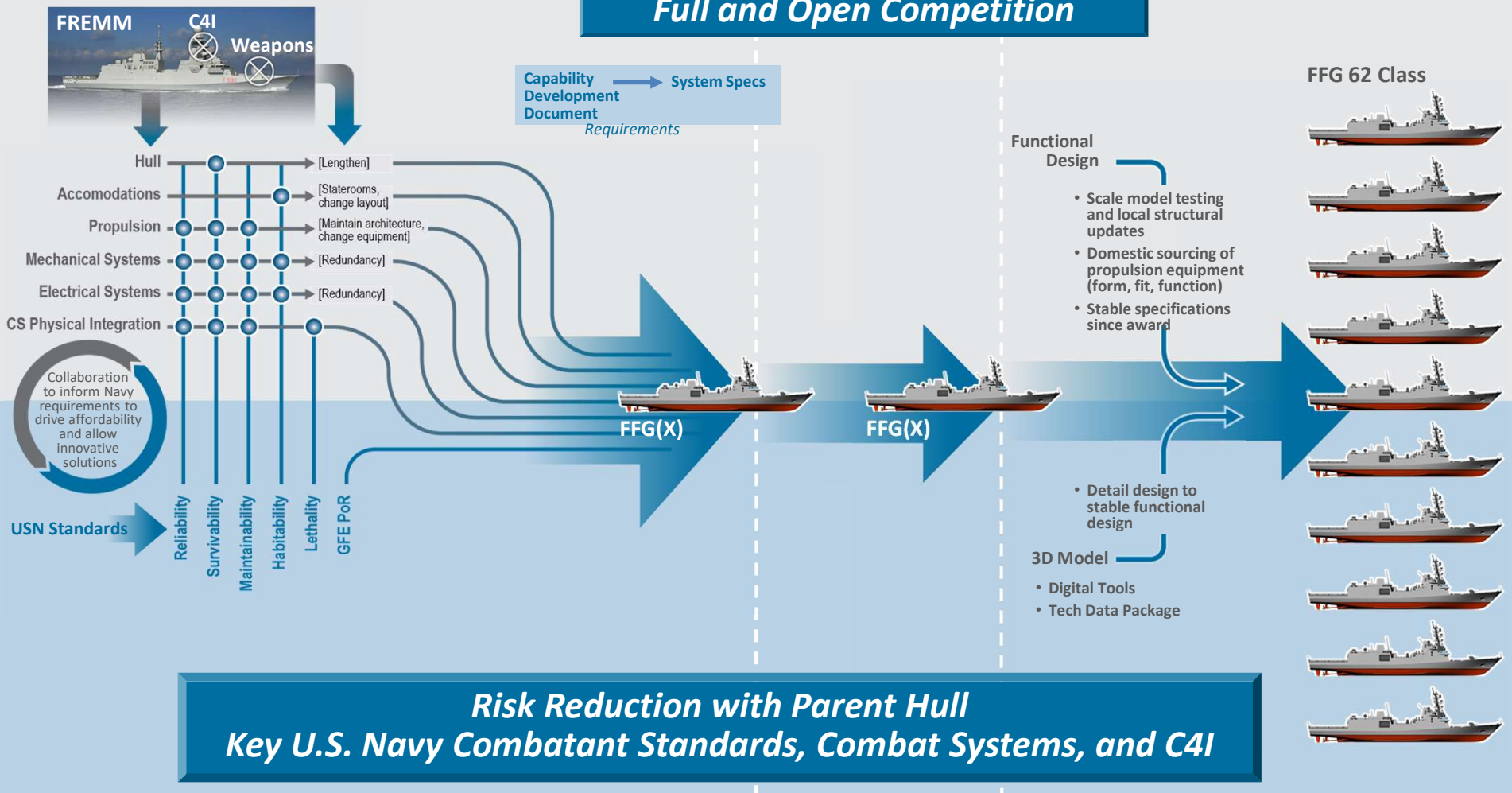
# Acquisition Approach

**Conceptual Design**  
Collaboratively incorporate U.S. Navy requirements into parent design

**Source Selection -**  
Evaluate Best Value of proposed FFG(X)  
RFP Award

**Detail Design & Construction**  
Validate FFG 62 meets requirements, develop production packages, build

## Full and Open Competition



**Risk Reduction with Parent Hull**  
Key U.S. Navy Combatant Standards, Combat Systems, and C4I



# Fincantieri Marine Group (FMG) Shipyard Capital Improvements



- Major upgrades and expansions underway to support FFG 62 Class

**1** BLDG 34  
FFG (X) Hull Erection  
2 bays  
180,000 sq/ft  
*Construction Started: JAN 21*

**2** BLDG 35  
BLDG 30 Panel Fabrication

BLDG 20  
BLDG 21/22 Pipe and Sheet Metal Shops Steel Module Construction  
BLDG 33 Grand Module Construction

SHIFLIFT

Tech Center

**TRUELOOK**

**Marinette WI**

**2** BLDG 433 (new)  
Module and Super (Tandem) Construction, and Hull Erection  
2 Bays – 12 Workstations  
90,000 sq/ft  
*Construction Started: NOV 20*

New Bldg 433

BUILDING 420  
BUILDING 411  
BUILDING 407  
BUILDING 451  
BUILDING 422  
304  
BURN SHOP  
FA SHO  
311  
201  
200

**TRUELOOK**

**Sturgeon Bay WI**



# Land Based Engineering Site

- **Background**

- FY21 NDAA directed SECNAV to report on the plan to establish a Land Based Engineering and Test Site (LBES)
- PB22 budget supports development of equipment specifications, site preparation, and test planning
- LBES aids in the risk reduction of propulsion architecture, and operation and control

- **Status**

- LBES requirements have been developed and are in final stages of Frigate PMO approval
- LBES site planning, plant design, and equipment specifications are being developed by Navy Installation, and approved by Frigate PMO – process is currently underway
- FFG 62 LBES activities began in FY2021 in order to support planned initial operational capability (IOC) for the class in FY2029
- Navy is on target to begin procurement of long lead time plant components and test equipment Q2 FY2022





# Questions?