



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

CAPT Kevin Smith
January 11, 2022



Guided Missile Frigate (FFG 62) Program Description



Mission:

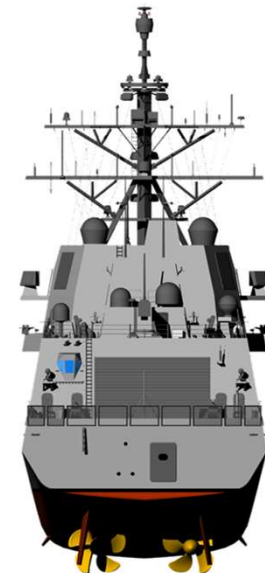
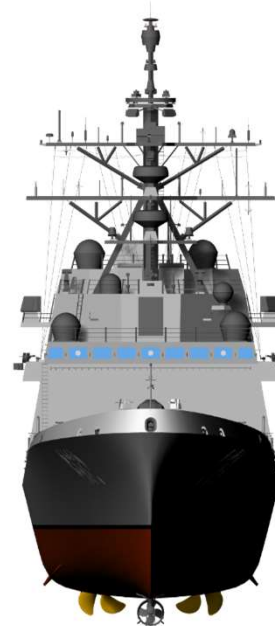
Anti-Submarine Warfare, Surface Warfare, Electromagnetic Maneuver Warfare, and Air Warfare

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

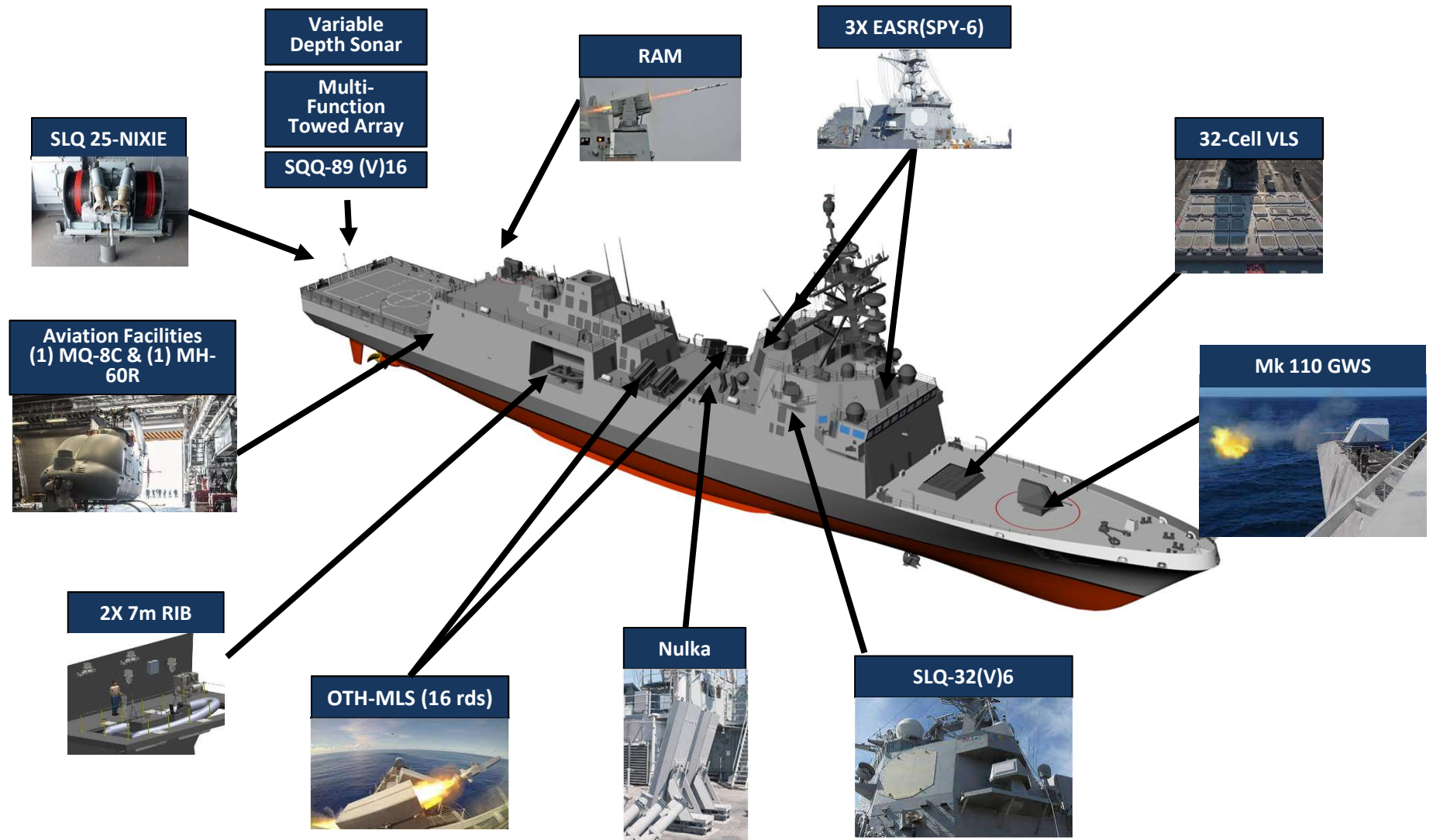
Hangar: One MH-60R, plus UAV

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



DISTRIBUTION STATEMENT A. Approved for public release. Distribution is unlimited



Acquisition Approach

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

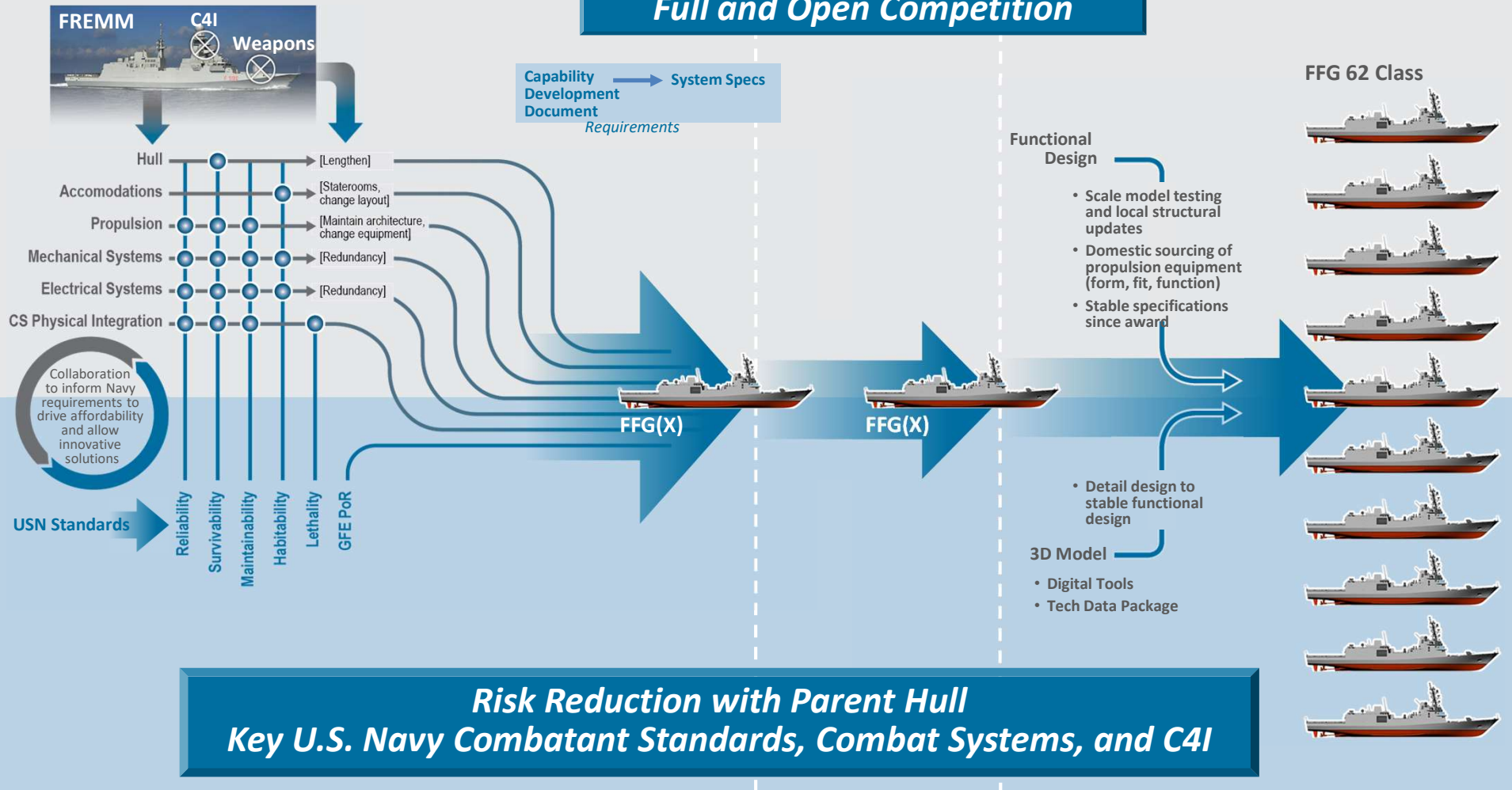
RFP

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

Award

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

Full and Open Competition

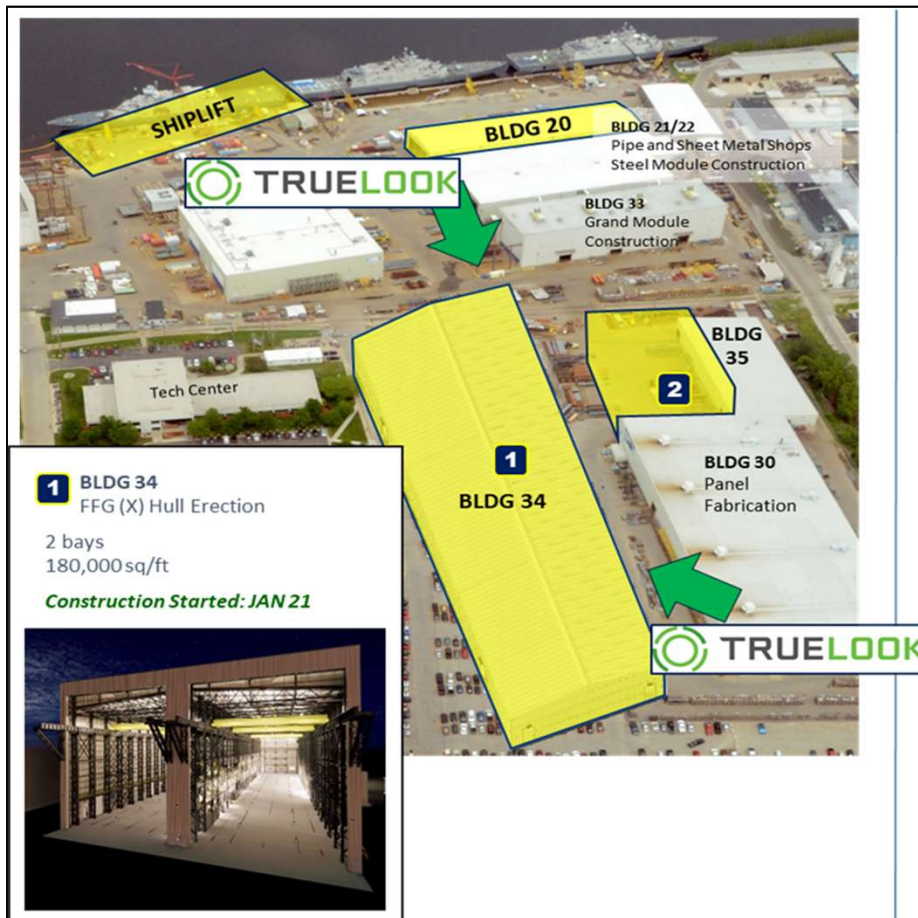




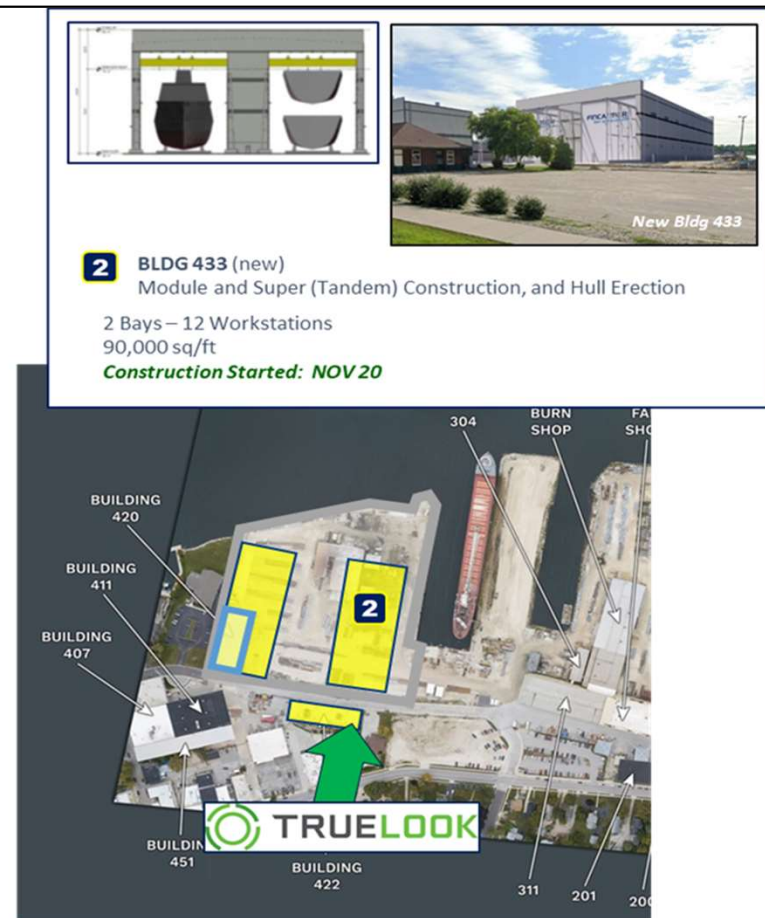
Fincantieri Marine Group (FMG) Shipyard Capital Improvements



- Major upgrades and expansions underway to support FFG 62 Class



Marinette WI



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?