

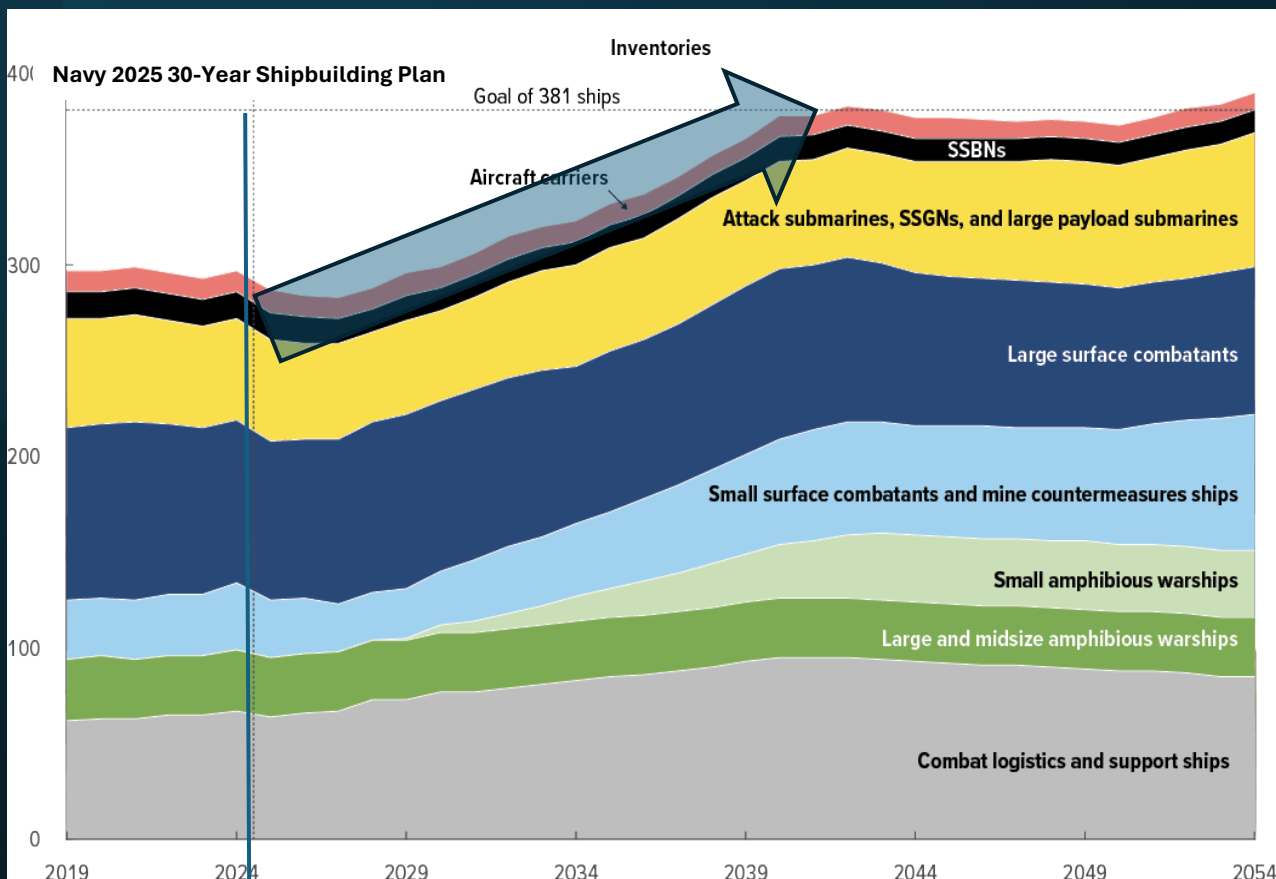
United States Navy Maritime Industrial Base Program Office NSRP 2025



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

January 2025

The Challenge



- Navy's 2023 Battle Force Ship Assessment and Requirement report calls for 381 Battle Force Ships
- U.S. Navy currently has 296 Battle Force Ships
- Over half of U.S. Navy ships are more than 20 years old
- The Navy's 45-Day Shipbuilding Study highlighted significant industrial base challenges in building ships
- The Navy's shipbuilding programs must accelerate to support U.S. Maritime Security objectives

Generational Demand on Maritime Industrial Base



DRPM-MIB Charter

Single, accountable Program Manager to assess, develop, integrate, and manage enterprise maritime industrial base efforts for the Department of the Navy



Tasking

- **Refine the Navy's approach to industrial base improvements in infrastructure, strategic outsourcing, supplier development, advanced manufacturing, and workforce development**
- **Accelerate the Navy's trajectory toward delivering submarines and surface ships in accordance with current and future Navy shipbuilding acquisition and sustainment plans**

DRPM-MIB

Lines of Effort

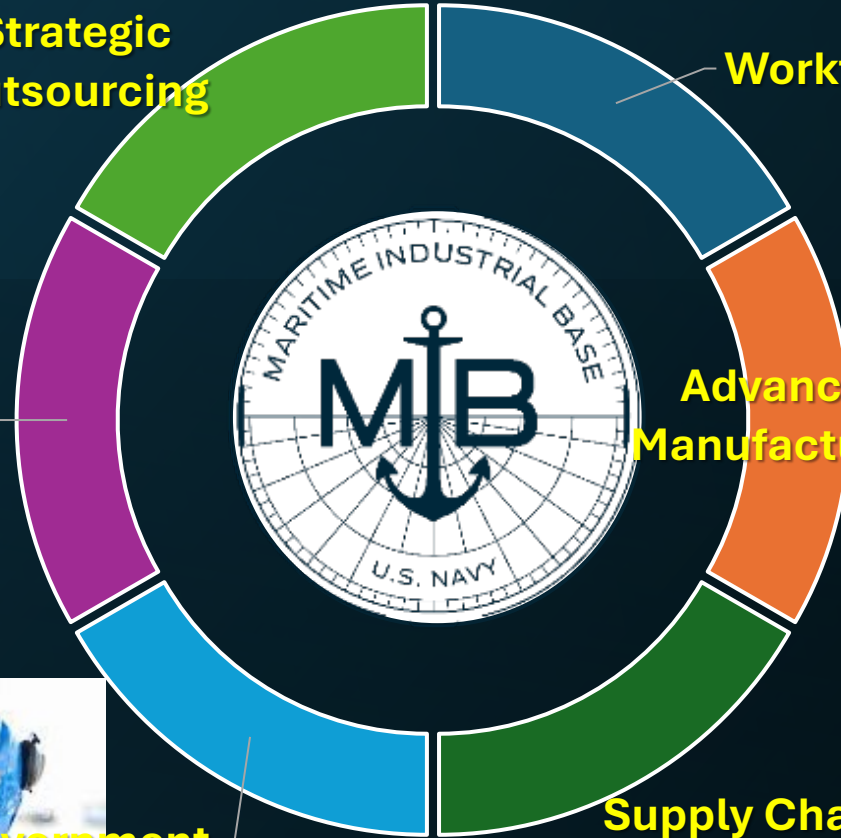
Strategic
Outsourcing

Workforce

Advanced
Manufacturing

Supply Chain

Government
Oversight

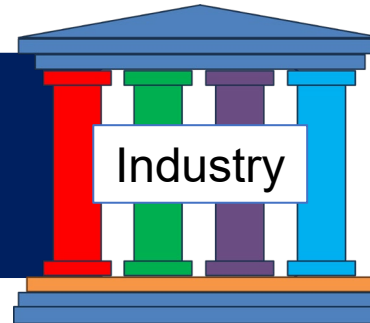


Infrastructure

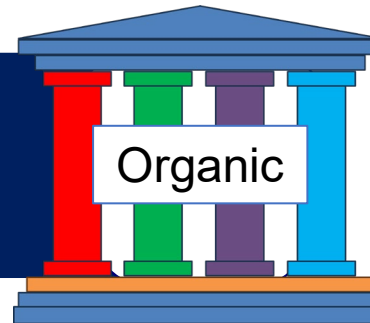
Department of the Navy Advanced Manufacturing (DoN AdvM) Strategy

3 Lines of Effort

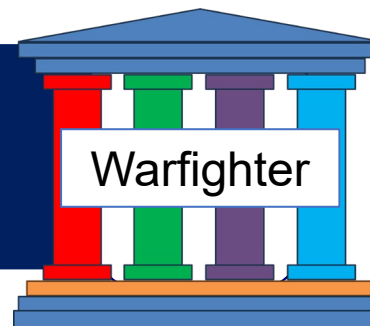
Harness Cutting-Edge Commercial Capabilities for Strategic Advancement



Modernize Organic Depots and Strengthen Intermediate Capabilities



Strengthen Warfighter Capacity and Self-Sufficiency for Mission Success



5 CROSS-CUTTING ENABLERS

Governance

Manufacturing Technology Maturity

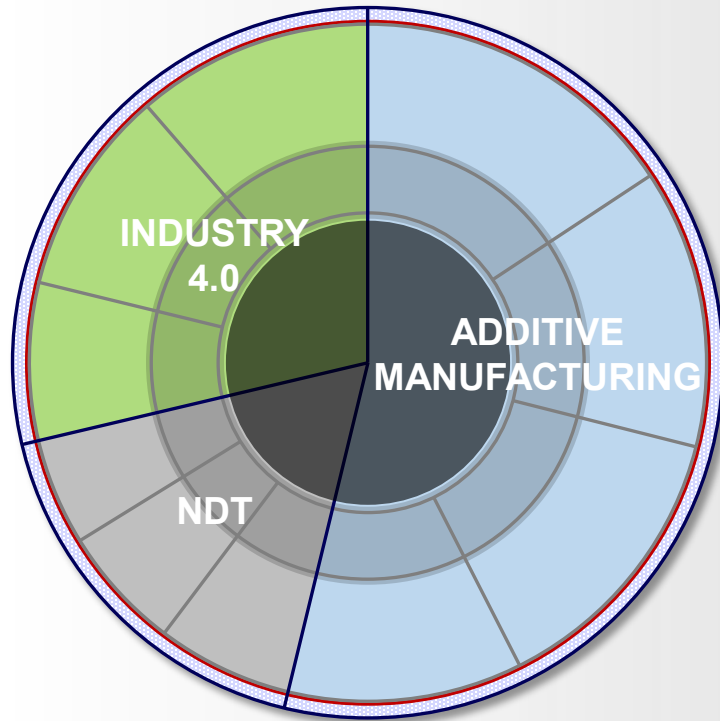
Standards

Digital Architecture

Workforce Development



Coordinated Approach – Operationalizing Advanced Manufacturing



Harness Cutting-Edge Commercial Capabilities for Strategic Advancement

INDUSTRY

Modernize Organic Depots and Strengthen Intermediate Capabilities

ORGANIC

Strengthen Warfighter Self-Sufficiency for Mission Success

WARFIGHTER

**Operationalize
Advanced
Manufacturing**

DRPM MIB Approach leverages Operational Enablers to Operationalize Advanced Manufacturing across all DON LOEs



DRPM-MIB

Our Partnerships



OSD and Navy Stakeholders



Federal, State and Local Govts



Industry/Industry Groups



Inter-Agency



International



Academia to include K-12





DRPM-MIB

Additive Manufacturing – Already Making an Impact!

Urgent Fleet Need



U.S. Navy Additive Manufacturing Center of Excellence Danville, VA



USS Halsey (DDG-97)
Heko Hanger Bracket



USS Michigan (SSGN 727)
Trim and Drain Valves



USS Wasp (LHD-1)
Aircraft Elevator High Pressure Air Reducing Manifold



- Printed 184+ submarine/ship parts
- Qualified Alloy and built modality combinations to scale AM across industrial base
- Qualified 4 x AM Industry Partners – scaling to qualify additional partners
- Leveraging new AM technology to produce “Moon shot” components for HSLA and HY steels
- Close coordination with Naval Reactors and NAVSA technical warrant holders to qualify parts for installation

Material properties have shown to meet or exceed casting/forging baseline

Supporting the Development of the Maritime Workforce

- MIB requires ~250K skilled maritime trades personnel over next decade
- To meet workforce demand, Navy MIB has:
 - Established a world class Accelerated Training in Defense Manufacturing Course of Instruction in Danville, VA
 - 16-Week COI focused on Welding, NDT, Additive MFG, Quality Control (Metrology), and CNC Machining
 - Partnering with Universities and Colleges to reinvigorate Naval Architecture and Manufacturing Engineering degrees
 - Established 7 Regional and 1 National Talent Pipeline Program
 - Collaboration with Industry, State/Local Governments, and Academia
 - Supporting National advertising campaign focused on attracting the next generation Maritime workforce



DRPM-MIB

How Can You Help Us?



Communicate Issues & Ideas

Engage with MIB to identify and resolve problems, discuss workload issues and opportunities, propose investments to add capability/capacity, and/or suggest improvements early on.

Collaborate through MIB programs

Participate in MIB's workforce development programs, send workers to ATDM to be upskilled, partner on additive manufacturing, pilot other manufacturing technology initiatives, illuminate supply chain concerns.

Retain workers through career paths, engagement, and trust

Offer competitive career opportunities, foster employee engagement, and build trust to help MIB accelerate the vital maritime industrial base.

By communicating, collaborating, and retaining a skilled workforce, manufacturers will play a crucial role in strengthening the submarine industrial base in the interest of our global stability.

Contact MIB Leadership at MIB-Inbox@us.navy.mil