

State of the Panel Sustainment Panel

Kirsten Walkup, Panel Chair

General Dynamics-Bath Iron Works

Mission

“The Sustainment Panel has the mission of reducing the cost of ship logistics and sustainment activities to include repair, maintenance and modernization while increasing operational availability for manned and unmanned vessels. Panel focus will be placed on advancing technologies, materials, processes and procedures that realize greater efficiencies in lifecycle sustainment. The Panel also includes researching and evaluating opportunities for implementation of digital tools, new technology, and processes to increase operational availability.”

Focus

- Explore opportunities to leverage artificial intelligence/machine learning (AI/ML), and emerging technology for shipyard planning, operations, and execution.
- Incorporate sustainment considerations in the design phase of manned and unmanned vessels and components to support ship maintenance and modernization.
- Implement new inspection and maintenance processes to support minimal time in availabilities.
- Explore, develop, and implement processes to address supply chain limitations.
- Improve early condition assessments and prognostic monitoring tools to support condition-based maintenance and structural health.
- Develop and implement life cycle cost modeling for flexible, adaptable manned and unmanned systems as compared to traditional shipbuilding practices.

Benefits

- Chief among the benefits of Sustainment Panel's focus is reducing cost and schedule impacts on maintenance and modernization availabilities.
- The Panel seeks to leverage advancing technologies against increasingly complex schedule, cost, materials, and logistical challenges faced by the waterfront.
- Together with current panel projects, the Sustainment Panel will pursue and promote impactful initiatives with strong benefit demonstrated through reduced costs and schedule, and increased capability.

Sustainment Panel Projects

2023 Panel Projects

- Alternate Blocking Materials – DM Consulting
 - Team Members: Austal USA, Naval Station San Diego
- Equipment Sight/Site Validation Tool – HII, Ingalls Shipbuilding
 - Team Members: General Dynamics – Bath Iron Works
- MELD Additive Manufacturing– Hepburn & Sons
 - Team Members: HII – Ingalls Shipbuilding, NSWC Carderock, NSWC Philadelphia

2024 Panel Projects

- Enhanced 3D Mapping & High-Bandwidth Mesh Radio Projects – Cleo Robotics
 - Team Members: GD – Bath Iron Works
- Fire Protection Shipboard/Intumescent Coatings – Hepburn & Sons
 - Team Members: Hepburn and Sons, Fincantieri Marinette Marine, STI, NSWC Carderock, Southwest Research Institute
- Body Cooling Technology Study – HII, Ingalls Shipbuilding
 - Team Members: HII - Newport News, GD – Bath Iron Works

FY25 Panel Projects, Deadlines

8/26/2024

- *Deadline for Offerors to submit White Papers to BIDS*

9/27/2024

- Deadline for Panel Chairs to submit up to three White Papers and one joint White Paper to ATI

10/2/2024

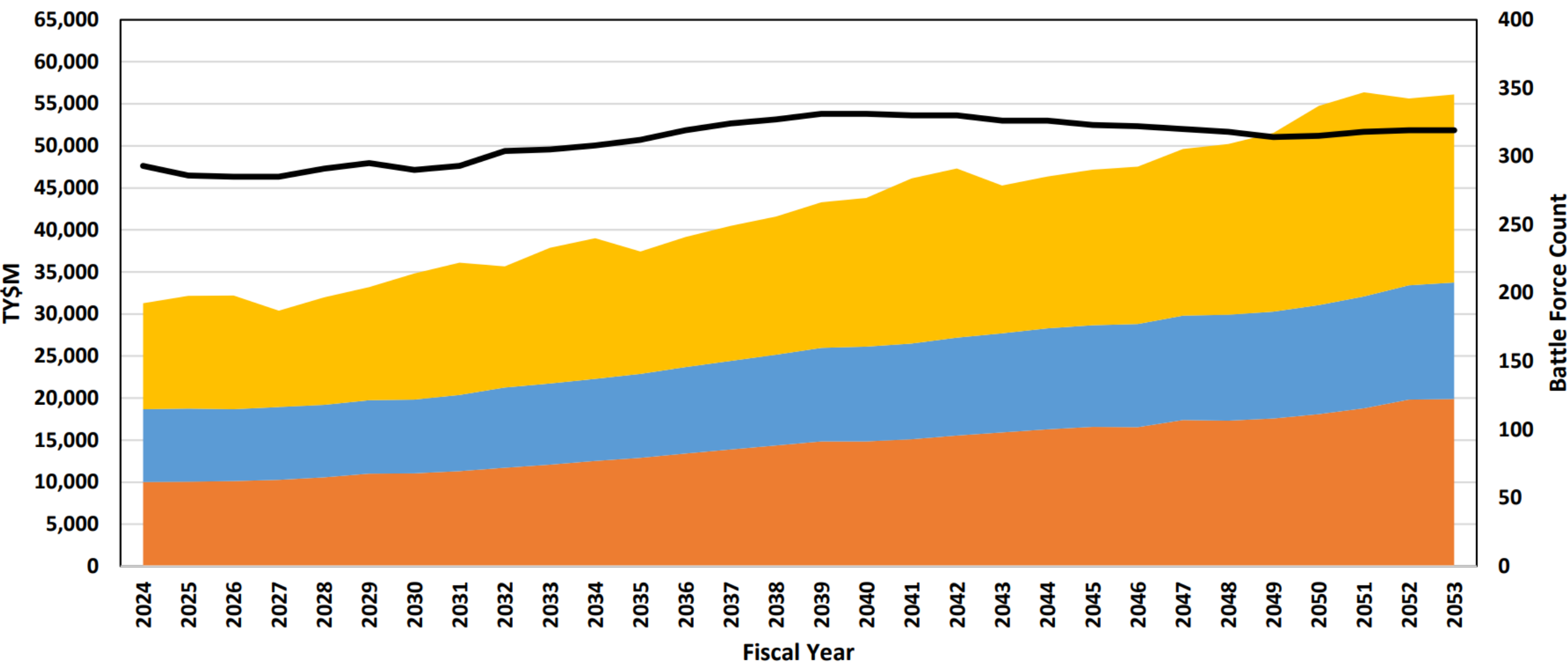
- Any Offeror whose White Paper is one submitted by a Panel Chair for ECB consideration must submit to ATI the Supporting Cost Data Table

Questions?



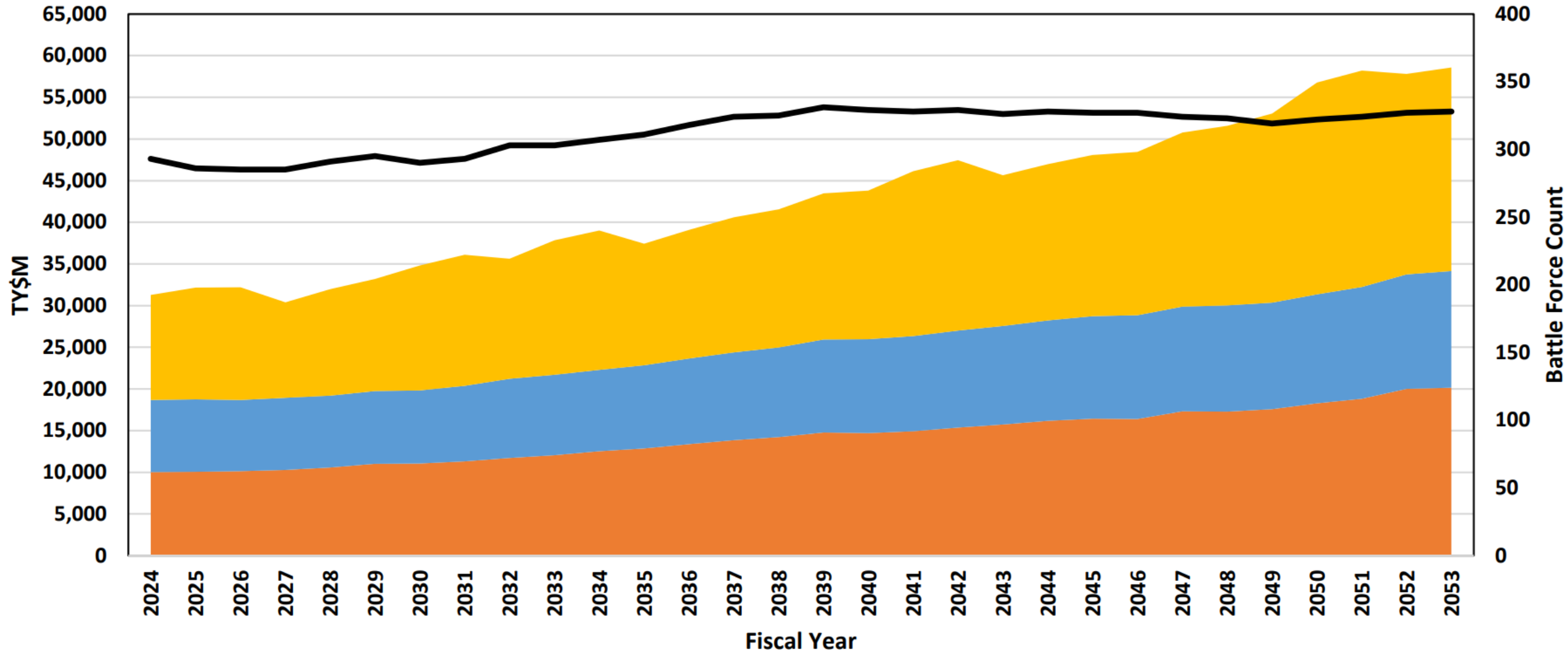
Backup

Figure A3-1. PB2024 Annual Funding for Sustainment (FY2024-2053)¹



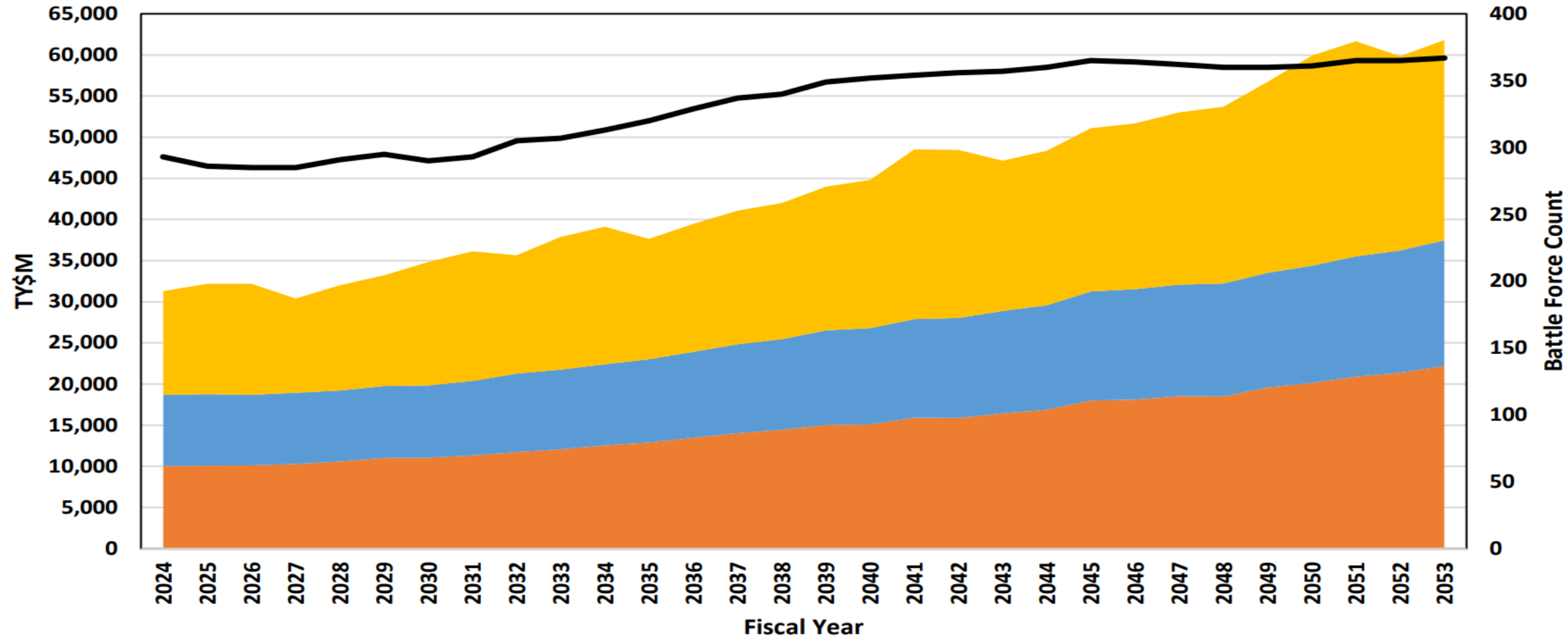
■ Manpower
 ■ Operations
 ■ Ship Maintenance
 — Total Naval Force Inventory

Figure AS-2. Alternative 2 Annual Funding for Sustainment (FY 2024-2053)



■ Manpower
 ■ Operations
 ■ Ship Maintenance
 — Total Naval Force Inventory

Figure A3-3. Alternative 3 Annual Funding for Sustainment (FY2024-2053)¹



■ Manpower
 ■ Operations
 ■ Ship Maintenance
 — Total Naval Force Inventory