

# **Perspectives on the Navy's 2025 Shipbuilding Plan**

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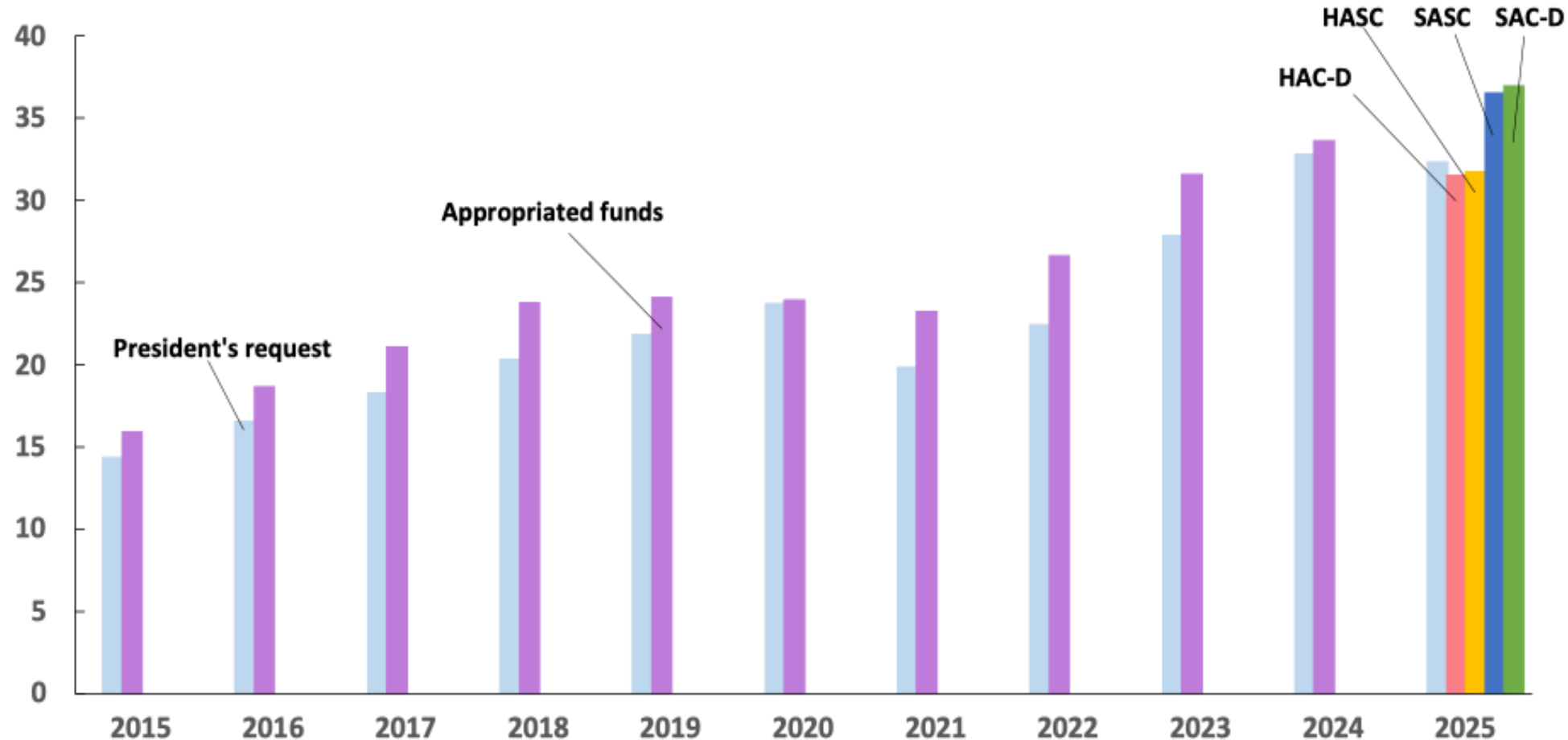
# Topics Covered in This Presentation

- Congressional support for shipbuilding (Slides 2–5)
- The Navy’s new force structure goal (Slides 6–7)
- The Navy’s 2025 shipbuilding plan (Slides 8–16)
  - Purchases and their effects on inventory
  - Costs
  - Measures of capability
- Challenges for the shipbuilding industrial base (Slides 17–18)
- Possible approaches to building a more lethal, more distributed fleet (Slides 19–21)

# **Congressional Support for Shipbuilding**

# Shipbuilding Requests and Appropriations, 2015 to 2025

Billions of dollars



The Congress has consistently appropriated more funds for shipbuilding than Administrations have requested.

# Congressional Action on Shipbuilding for 2025

	President's request	HASC	SASC	HAC-D	SAC-D
<b>Ship purchases</b>					
Destroyers	2	2	3	2	3
Submarines	1	2	2	1	1
Frigates	1	0	1	0	1
Amphibious ships	2	2	2	1	2
Logistics and support ships	<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>
<b>Total</b>	<b>6</b>	<b>6</b>	<b>8</b>	<b>4</b>	<b>7</b>
<b>Shipbuilding budgets (billions of dollars)</b>					
New combat ships	28.4	27.8	32.3	26.9	31.1
New logistics and support ships	0	0	0.5	0.4	0
Other	<u>4.0</u>	<u>4.0</u>	<u>3.8</u>	<u>4.4</u>	<u>6.0</u>
<b>Total</b>	<b>32.4</b>	<b>31.8</b>	<b>36.6</b>	<b>31.6</b>	<b>37.0</b>
Difference from President's request		-0.6	4.2	-0.8	4.6
Percentage change from amount appropriated in 2024	-1%	-2%	5%	-4%	11%



# The Navy's Estimate for Program Cost Overruns Under the 2024 and 2025 Budget Requests

Millions of 2024 dollars

	Funding for 2024 to 2028: 2024 budget	Funding for 2024 to 2028: 2025 budget	Funding for 2029: 2025 budget
Ford class CVN-78 aircraft carrier	599	861	0
Nimitz class nuclear refueling and overhaul	200	944	0
Virginia class SSN-774 attack submarine	889	3,114	849
Arleigh Burke class DDG-51 guided missile destroyer	721	2,629	113
Freedom class LCS-1 littoral combat ship	22	71	0
Constellation class FFG-62 frigate	0	43	0
San Antonio class LPD-17 amphibious transport dock	57	126	0
America class LHA-6 amphibious assault ship	68	129	0
John Lewis class T-AO-205 oiler	160	373	0
Navajo T-ATS-6 towing, salvage, and rescue ship	35	52	0
T-AGOS ocean surveillance ship	340	355	0
Ship-to-shore connector	101	107	0
T-AGS oceanographic survey ship	<u>11</u>	<u>23</u>	<u>0</u>
<b>Total</b>	<b>3,202</b>	<b>8,827</b>	<b>962</b>



# **The Navy's New Force Structure Goal**



# The Navy's Inventory Goals

	2016 FSA	2023 BFSAR	Difference	Today's fleet
Battle force ships				
Aircraft carriers	12	12	0	11
Ballistic missile submarines	12	12	0	14
Guided missile/large payload submarines	0	0	0	5
Attack submarines	66	66	0	50
Large surface combatants	104	87	-17	87
Small surface combatants	52	73	21	32
Large and midsize amphibious ships	38	31	-7	31
Small amphibious ships	0	18	18	0
Combat logistics and support ships	<u>71</u>	<u>82</u>	<u>11</u>	<u>66</u>
<b>Subtotal</b>	<b>355</b>	<b>381</b>	<b>26</b>	<b>296</b>
Unmanned surface and undersea vessels	<u>n.a.</u>	<u>134</u>	<u>134</u>	<u>0</u>
<b>Total</b>	<b>355</b>	<b>515</b>	<b>160</b>	<b>296</b>



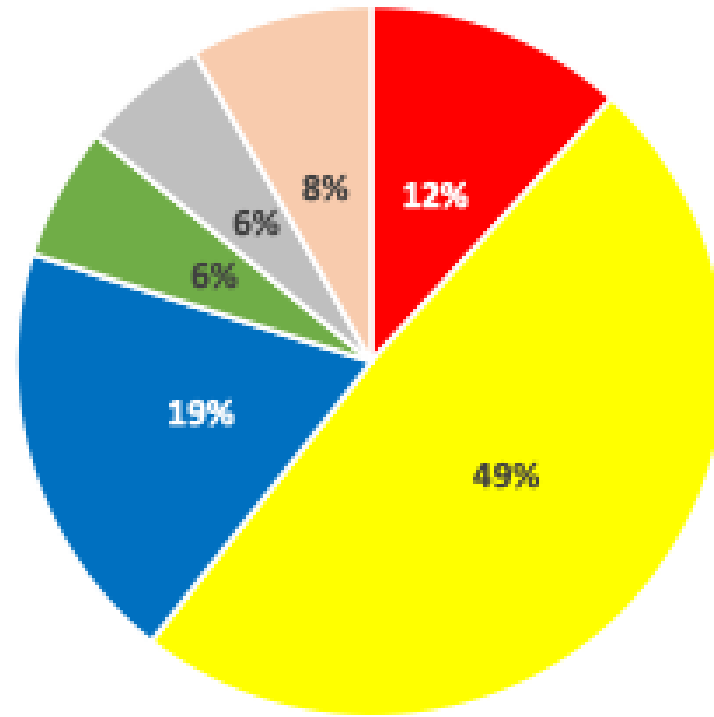


# **The Navy's 2025 Shipbuilding Plan**

# The Navy's Five-Year Shipbuilding Plan, 2025 to 2029

	2025	2026	2027	2028	2029	Total
Battle force ships						
Columbia class ballistic missile submarines	0	1	1	1	1	4
Virginia class attack submarines	1	2	2	2	2	9
Arleigh Burke class destroyers	2	2	2	2	2	10
Constellation class guided missile frigates	1	2	1	2	1	7
America class amphibious assault ships	0	0	1	0	0	1
San Antonio class amphibious transport docks	1	0	1	0	1	3
Medium landing ships	1	1	2	2	2	8
Combat logistics and support ships	<u>0</u>	<u>3</u>	<u>3</u>	<u>4</u>	<u>4</u>	<u>15</u>
<b>Total</b>	<b>6</b>	<b>11</b>	<b>14</b>	<b>13</b>	<b>13</b>	<b>57</b>
T-ARC cable laying ships	0	0	1	0	1	2
Used sealift ships	0	0	1	0	1	2
Large unmanned systems	0	0	1	2	3	6
<b>Total shipbuilding costs (billions of dollars)</b>	<b>32.4</b>	<b>37.1</b>	<b>43.7</b>	<b>38.0</b>	<b>37.8</b>	<b>189.0</b>

# Breakdown of the Navy's Shipbuilding Budget, by Ship Type, 2025 to 2029



Under its 2025 plan, the Navy would spend \$190 billion on shipbuilding over the next five years. Half of that amount would go to submarines.

- Aircraft carriers
- Submarines
- Surface combatants
- Amphibious warfare ships
- Combat logistics and support
- Other

“Other” includes outfitting and postdelivery costs for new ships, ship-to-shore connectors, lighters (barges), service craft, and the completion of prior-year shipbuilding (funding for cost overruns for ships appropriated in earlier budgets).

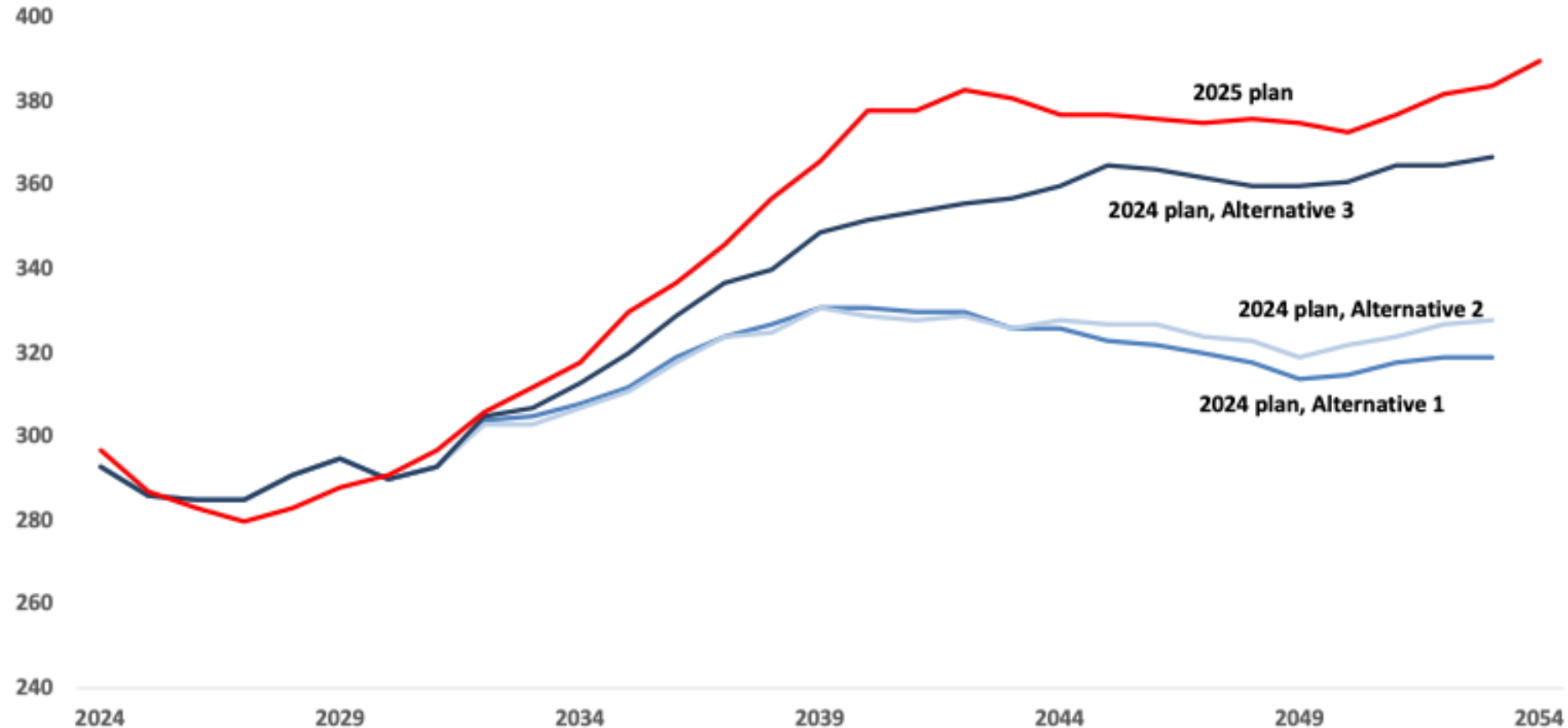
# Ship Purchases Under the Navy's 2024 and 2025 Plans

	2024 plan			2025 plan
	Alternative 1	Alternative 2	Alternative 3	
Aircraft carriers	6	6	7	6
Ballistic missile and large payload submarines	15	17	15	16
Virginia class attack submarines with VPMs	11	11	11	9
Virginia class attack submarines without VPMs	10	37	12	36
SSN(X) next-generation attack submarines	33	18	35	14
DDG-51 Flight III class guided missile destroyers	18	20	18	23
DDG(X) next-generation destroyers	38	30	46	28
FFG-62 Constellation class guided missile frigates (Flights I and II)	53	56	58	81
Large and midsize amphibious warfare ships	11	12	14	25
Medium landing ships	42	36	51	55
Combat logistics and support ships	<u>53</u>	<u>56</u>	<u>73</u>	<u>71</u>
<b>Total</b>	<b>290</b>	<b>299</b>	<b>340</b>	<b>364</b>



# Battle Force Ship Inventory Under the Navy's 2024 and 2025 Plans

Number of battle force ships



The Navy's 2025 plan would result in a larger battle force than any of the alternatives in the 2024 plan.



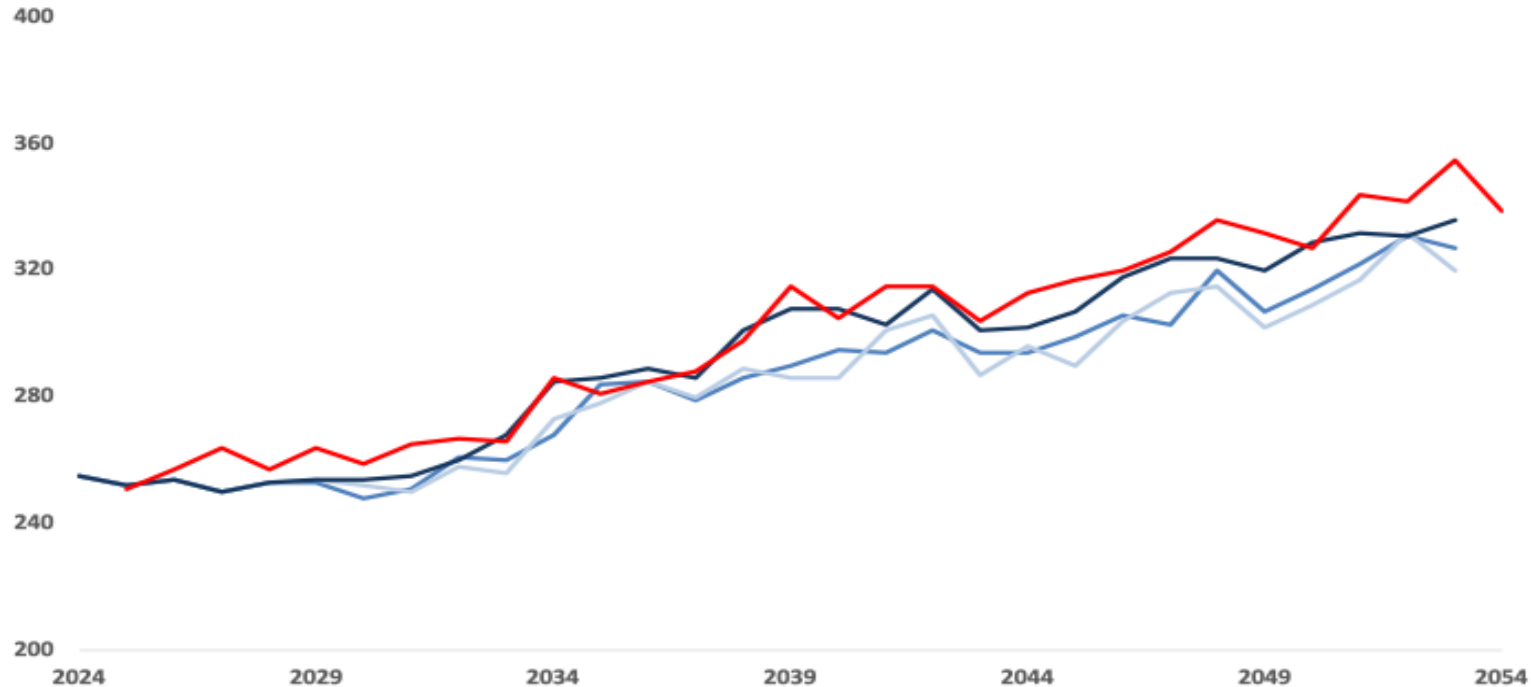
# The Navy's Cost Estimates Under the 2024 and 2025 Plans

Billions of 2024 dollars

	2024 plan			2025 plan
	Alternative 1	Alternative 2	Alternative 3	
Average annual cost for new ship construction				
Navy's estimate	26.6	27.0	28.7	30.1
CBO's estimate	31.0	30.9	33.4	n.a.
Average cost per ship				
Navy's estimate	2.7	2.7	2.5	2.5
CBO's estimate	3.2	3.1	2.9	n.a.
Average annual SCN				
Navy's estimate	29.8	30.3	32.1	34.3
CBO's estimate	34.5	34.4	37.0	n.a.

# CBO's Estimate of the Navy's Total Budget Under Its 2024 and 2025 Plans

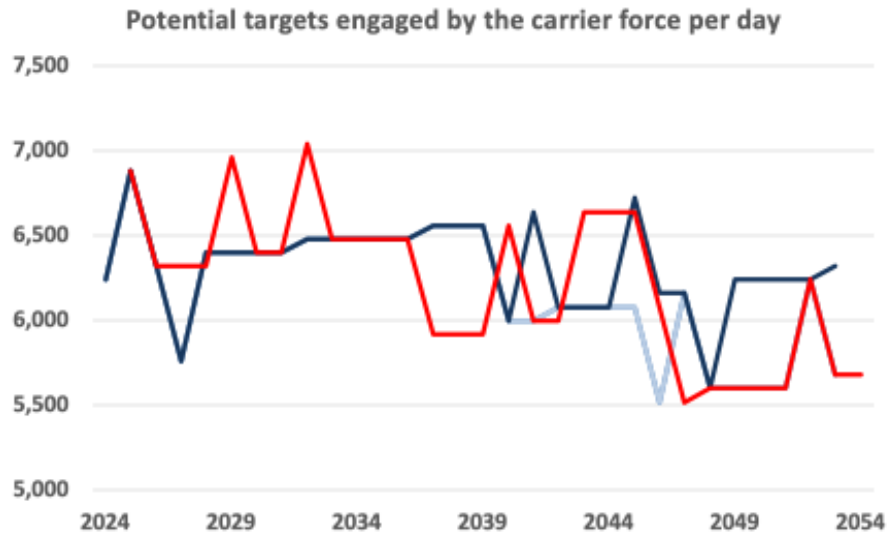
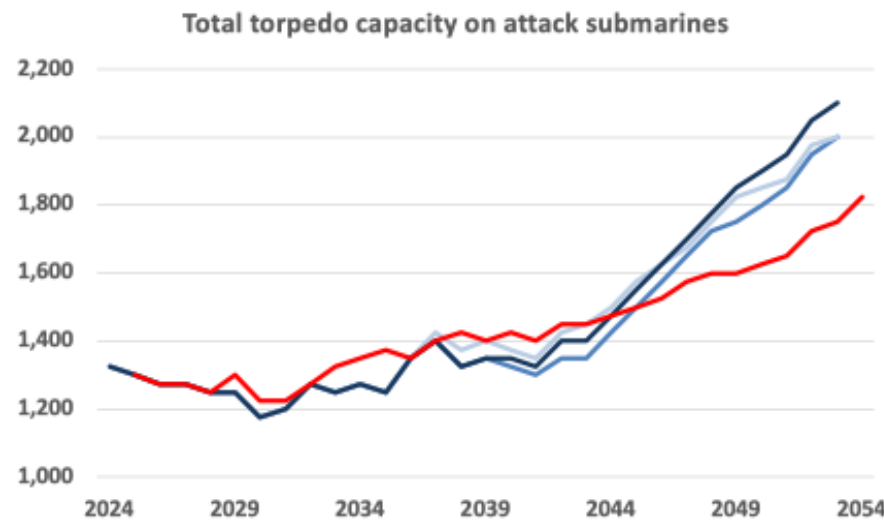
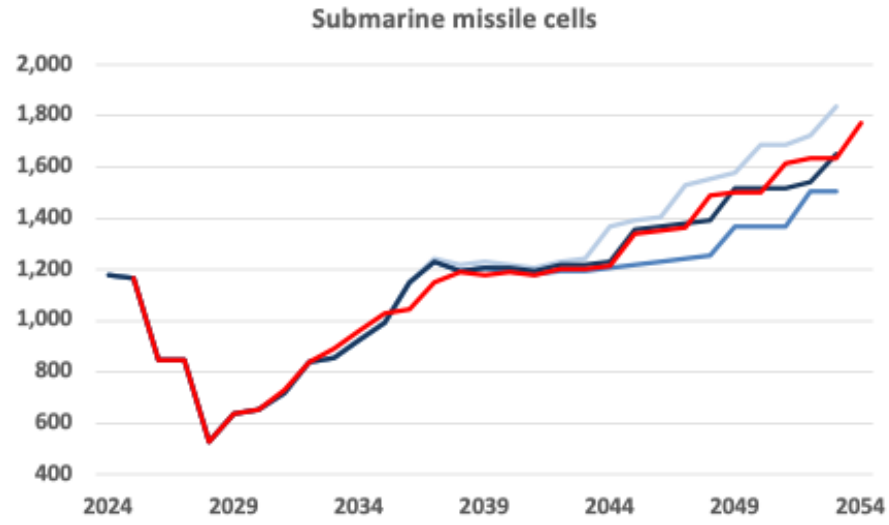
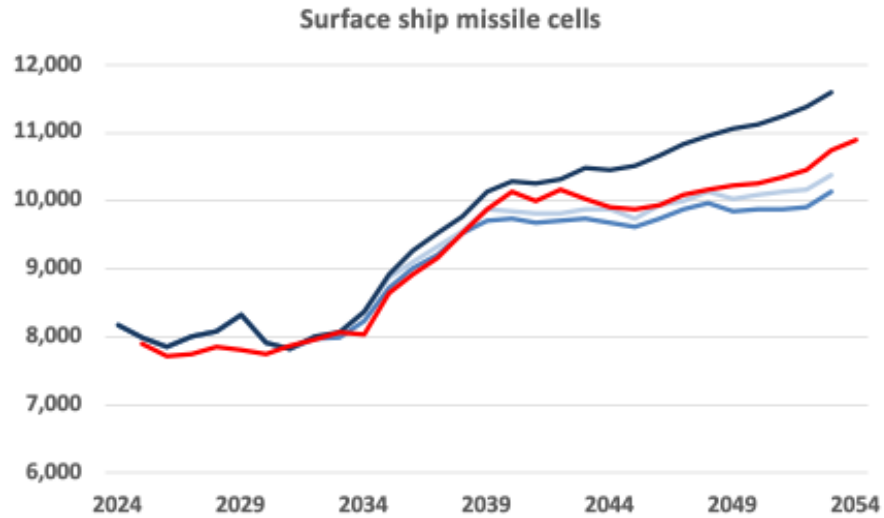
Billions of 2024 dollars



The Navy's budget would need to grow significantly in real terms for the service to buy, sustain, and operate a larger fleet.

■ 2024 plan, Alternative 1    ■ 2024 plan, Alternative 2    ■ 2024 plan, Alternative 3    ■ 2025 plan

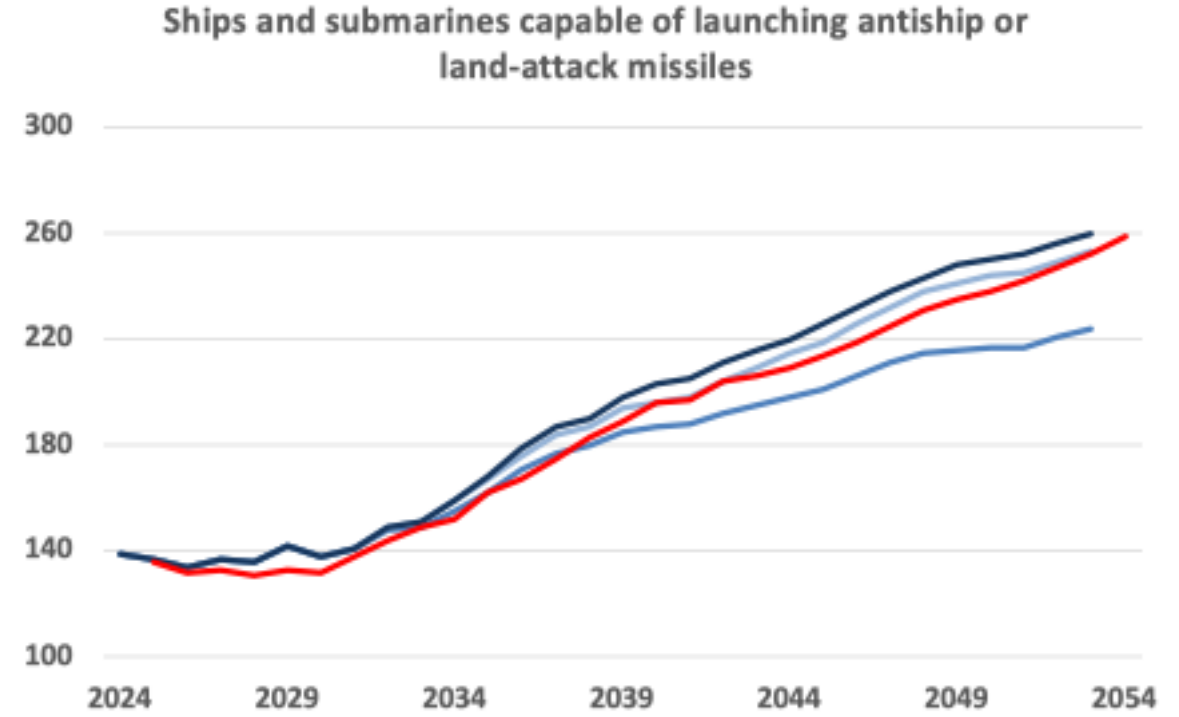
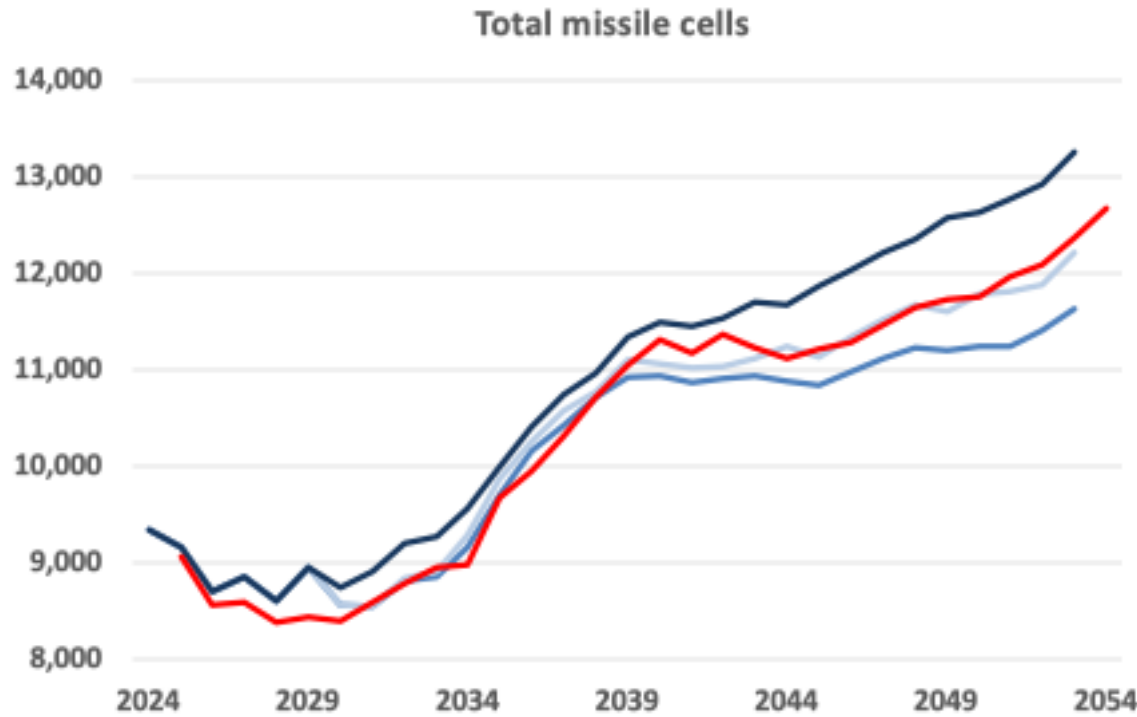
# Measures of Lethality in the Navy's 2025 Plan



- 2024 plan, Alternative 1
- 2024 plan, Alternative 2
- 2024 plan, Alternative 3
- 2025 plan



# Broad Measures of Lethality *and* Distribution of Firepower Under the Navy's 2025 Plan



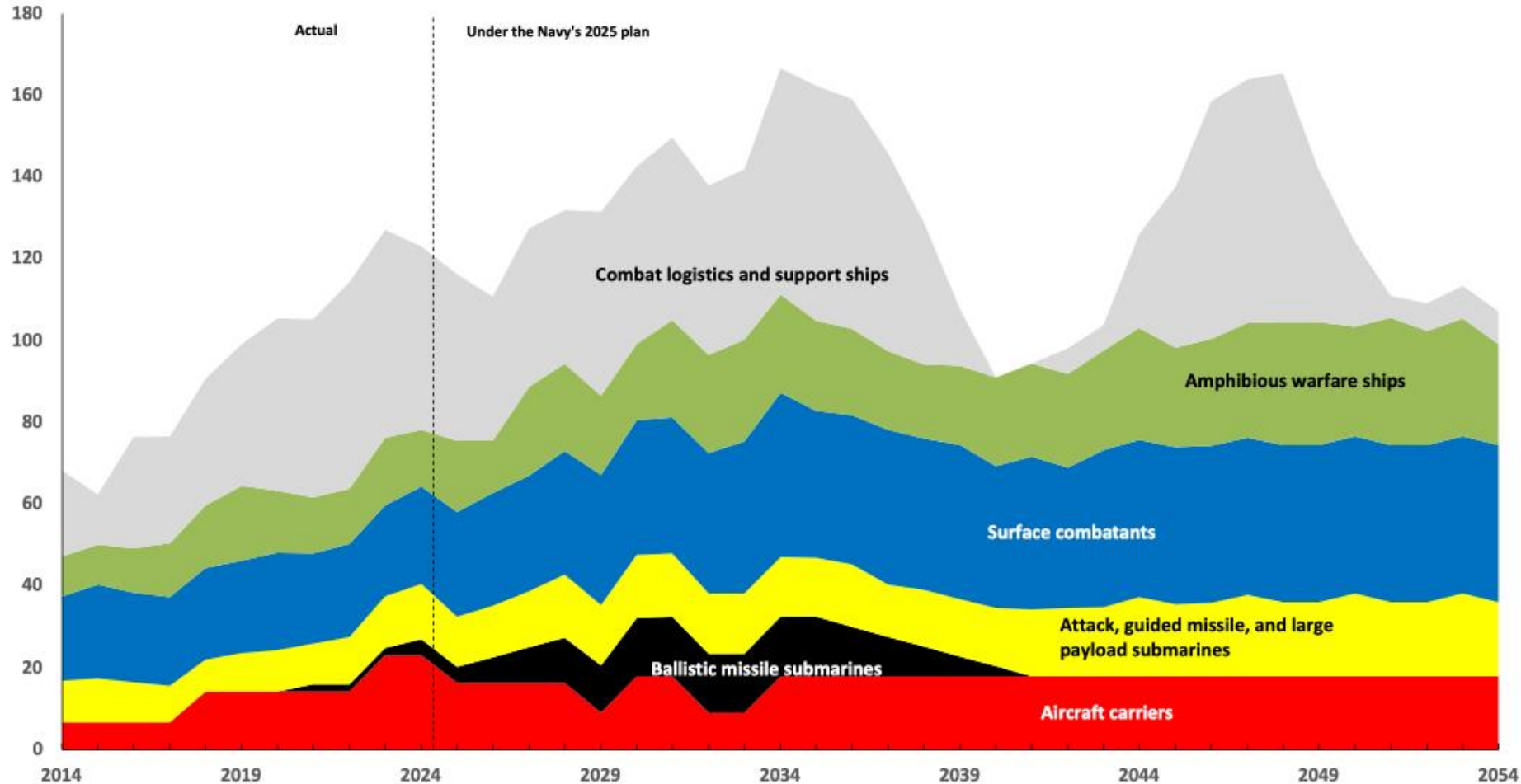
■ 2024 plan, Alternative 1   ■ 2024 plan, Alternative 2   ■ 2024 plan, Alternative 3   ■ 2025 plan

Although the Navy's 2025 plan calls for buying more ships and costs more than the alternatives in the 2024 plan, the capability that it would provide is in the middle of the range of the capabilities that would result from those alternatives.

# **Challenges for the Shipbuilding Industrial Base**

# Amount of Tonnage That Would Be Constructed Under the Navy's 2025 Plan

Thousands of tons



The demands that the 2025 plan would place on the nation's shipyards would be greater than those they have faced over the past decade.

# **Possible Approaches to Building a More Lethal, More Distributed Fleet**

# Possible Approaches to Building a More Lethal and More Distributed Fleet Under Current Industry Conditions

Build a small surface combatant—a missile corvette (DDC)—that could be built in shipyards not currently building naval warships, which would allow the service to focus on providing additional missile capability to the fleet.

- Pros: Would bring more shipyards to naval shipbuilding; ships would be less expensive to build than current ships under construction
- Cons: Would require a new design; smaller yards would have a steep learning curve building military ships

Retrofit missile cells—VLS or canister—onto existing battle force ships.

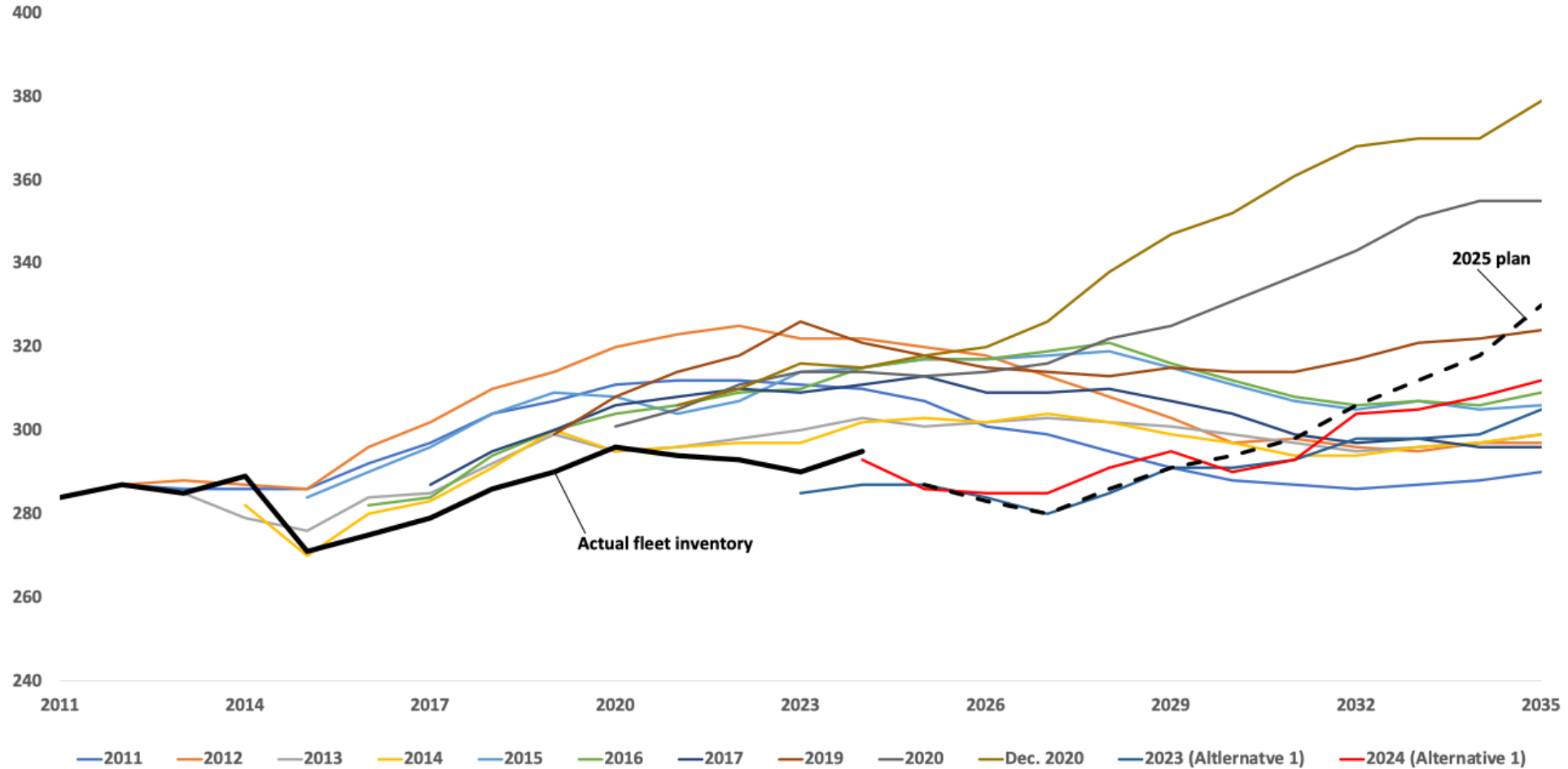
- Pros: Would make a larger portion of the fleet into missile shooters; would be relatively low-cost and faster to carry out than buying new combatants
- Cons: Would complicate fleet operations; would require Navy crews to operate the ships

Buy used small merchant ships and equip them with missile canisters or VLS cells.

- Pros: Low-cost option; ships would need only small crews; could be accomplished quickly, in 1 to 2 years
- Cons: Commercial ships are more vulnerable than military ships; would need Navy crews to implement

# The Navy's Projections of Its Fleet Under the Past 13 Shipbuilding Plans and Its Actual Inventory

Number of battle force ships



The Navy's fleet has not met its aspirations for a larger battle force.