



October 22, 2019

The Navy's Amphibious Warfare Force: Change Under Fiscal Constraints

National Defense Industrial Association
24th Annual Expeditionary Warfare Conference

Dr. Eric J. Labs

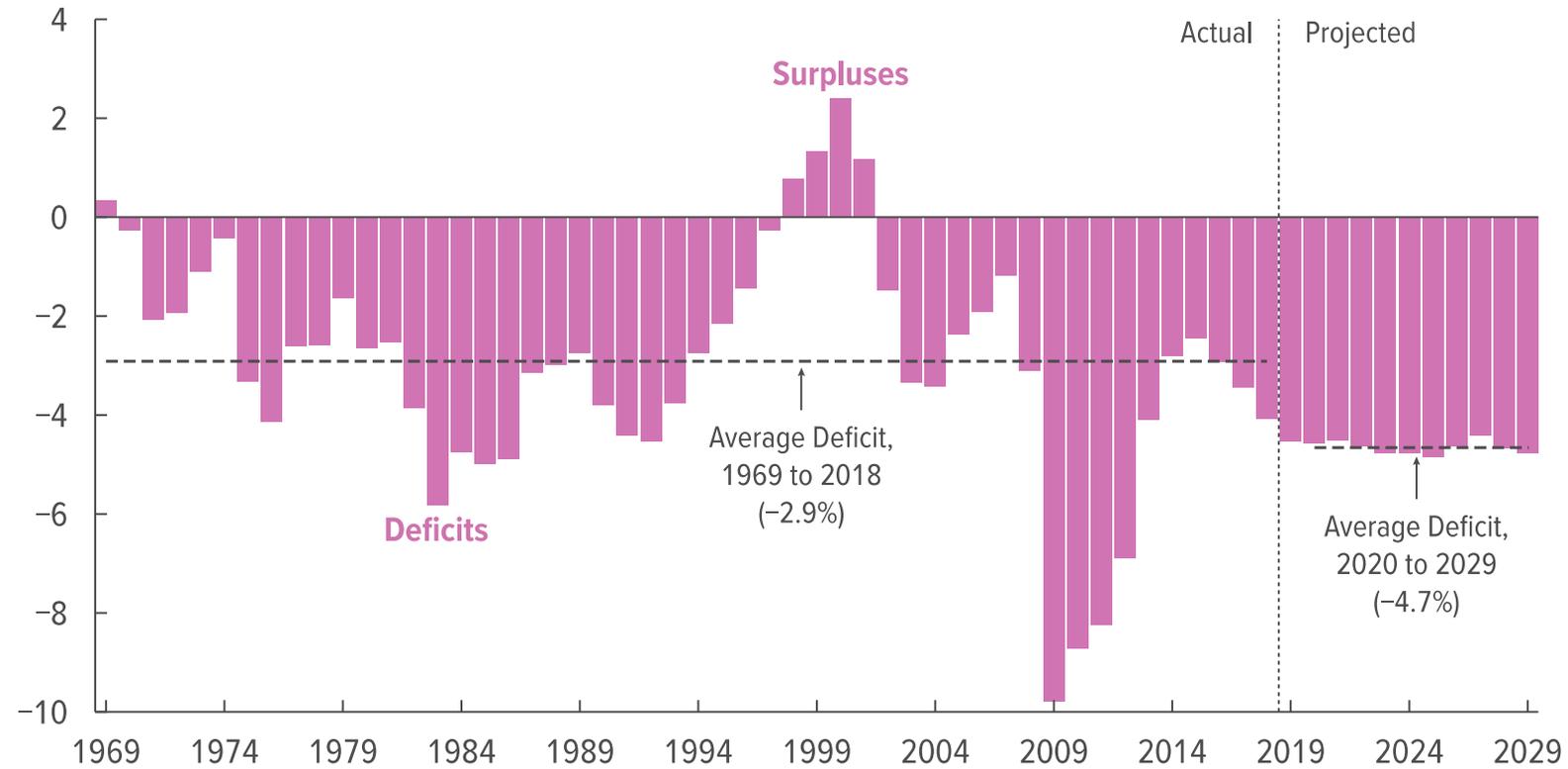
Senior Analyst for Naval Forces and Weapons

Outline

- **The fiscal environment**
- The Navy's 2020 shipbuilding plan
- Planning guidance from the commandant of the Marine Corps
- Alternatives for the future

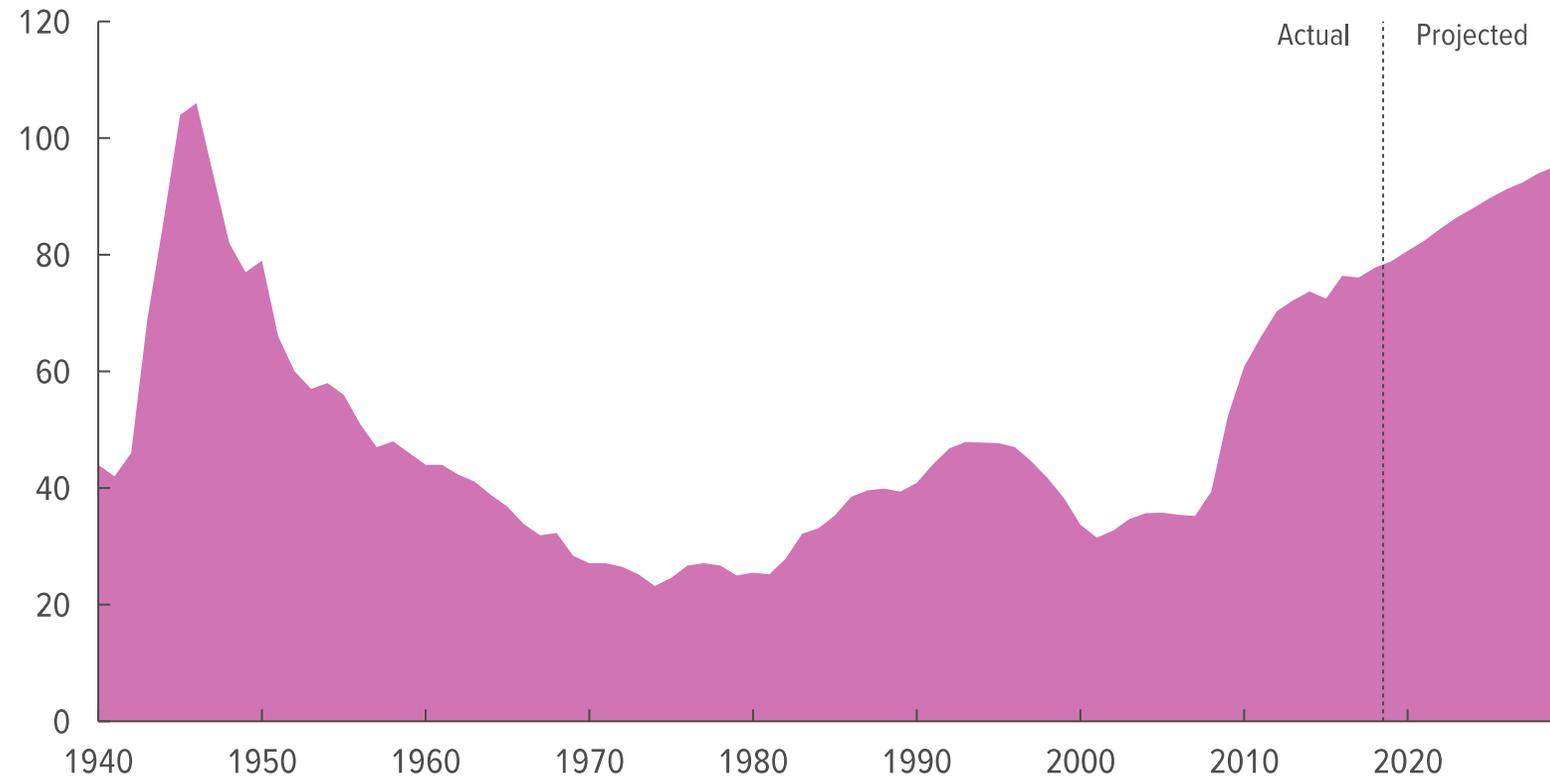
Total Deficits and Surpluses

Percentage of Gross Domestic Product



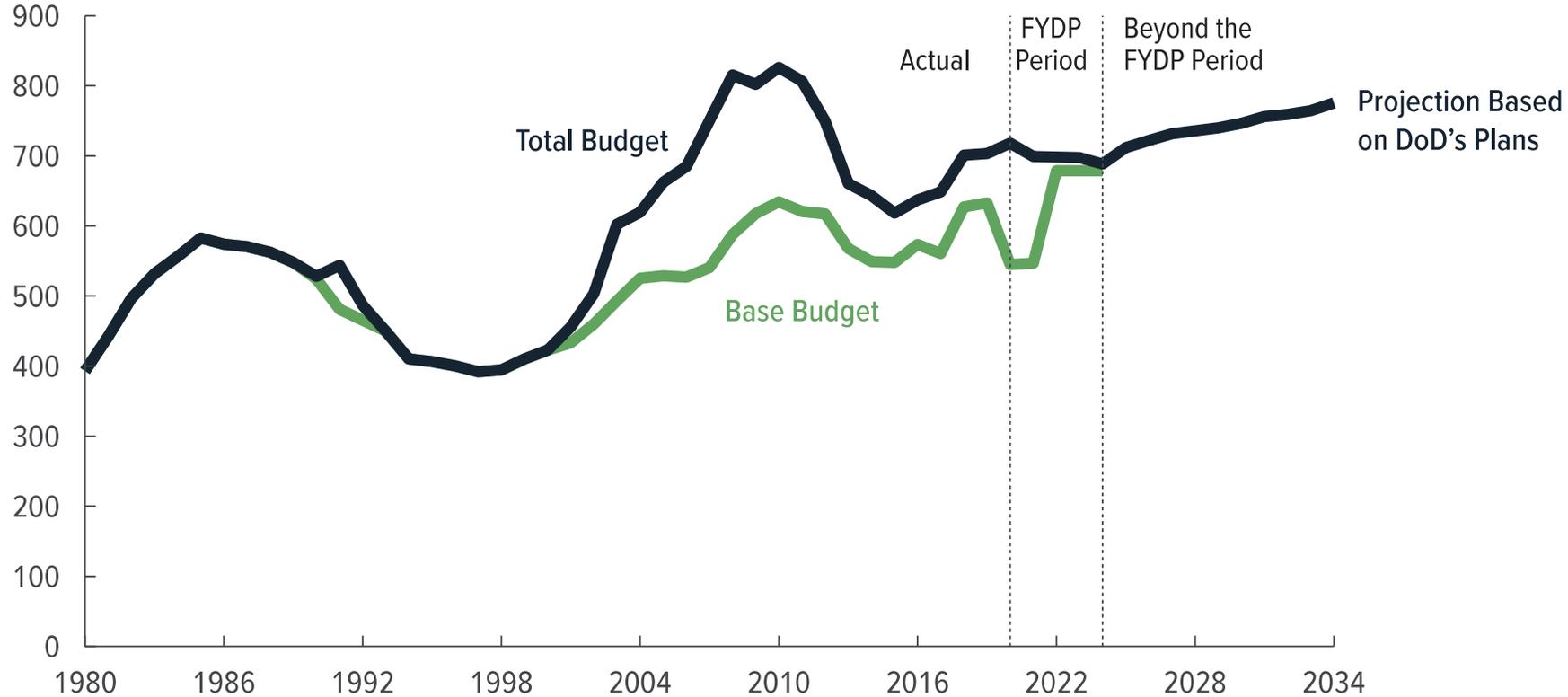
Federal Debt Held by the Public

Percentage of Gross Domestic Product



Funding for the Department of Defense, 1980 to 2034

Billions of 2020 Dollars



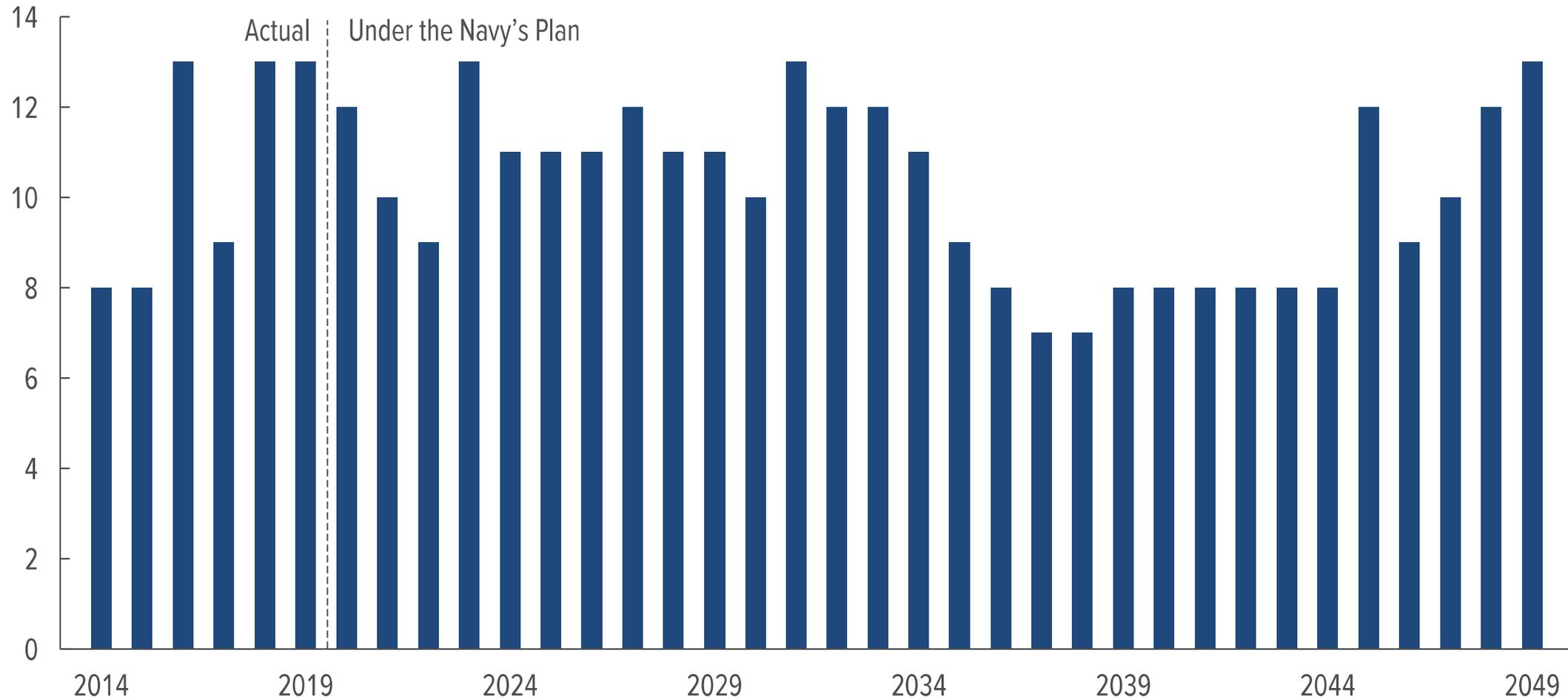
The projection shown is the Congressional Budget Office's.

DoD = Department of Defense; FYDP = Future Years Defense Program.

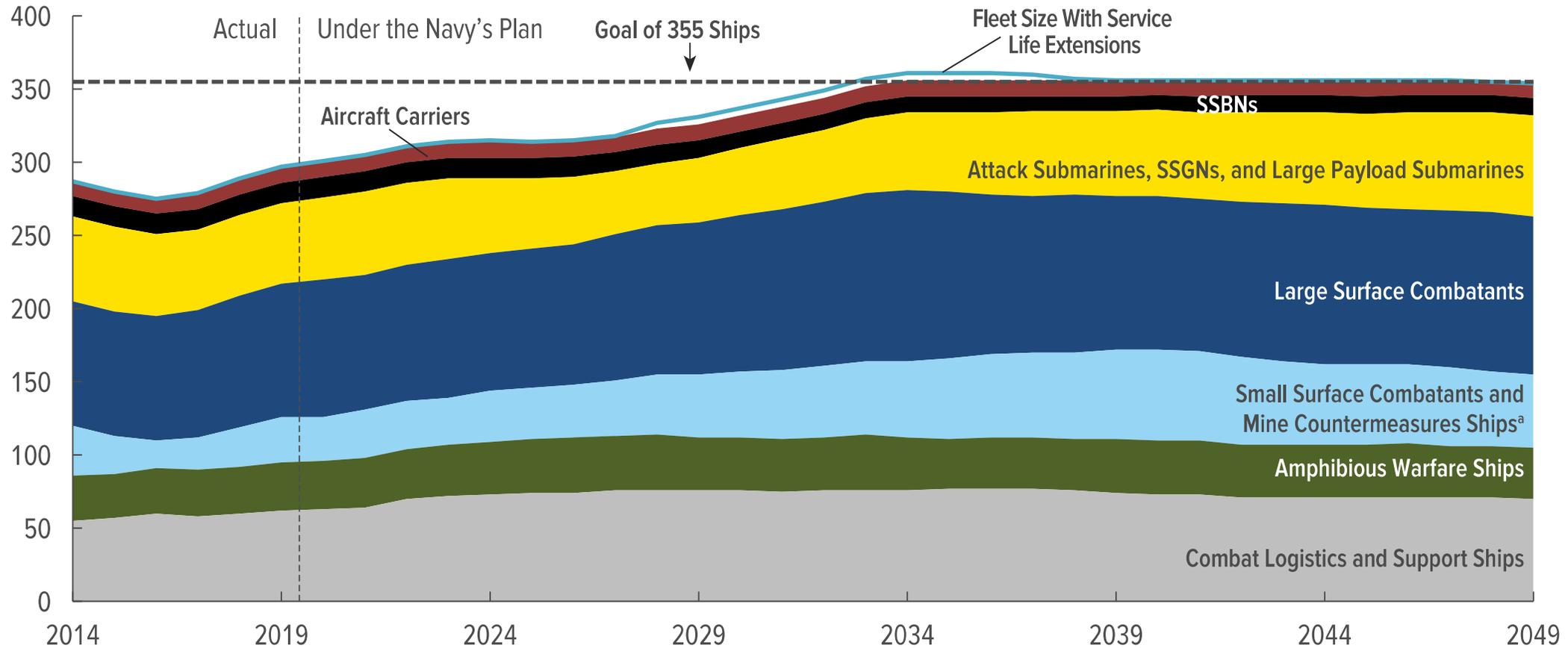
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Ship Purchases Under the Navy's 2020 Plan



Fleet Inventory Under the Navy's 2020 Plan

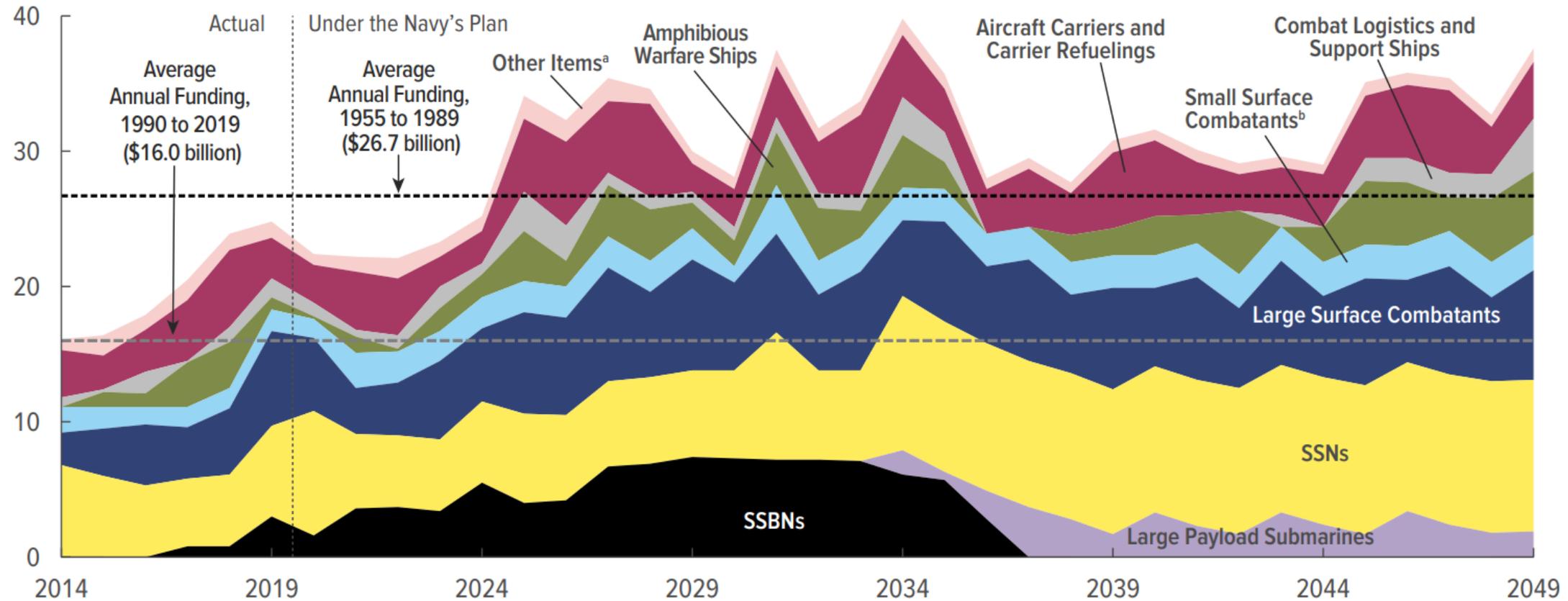


SSBNs = ballistic missile submarines; SSGNs = guided missile submarines.

a. Includes littoral combat ships, Oliver Hazard Perry FFG-7 guided missile frigates, new frigates, new small surface combatants, and Avenger class mine countermeasures ships.

Shipbuilding Costs Under the Navy's 2020 Plan

Billions of 2019 Dollars



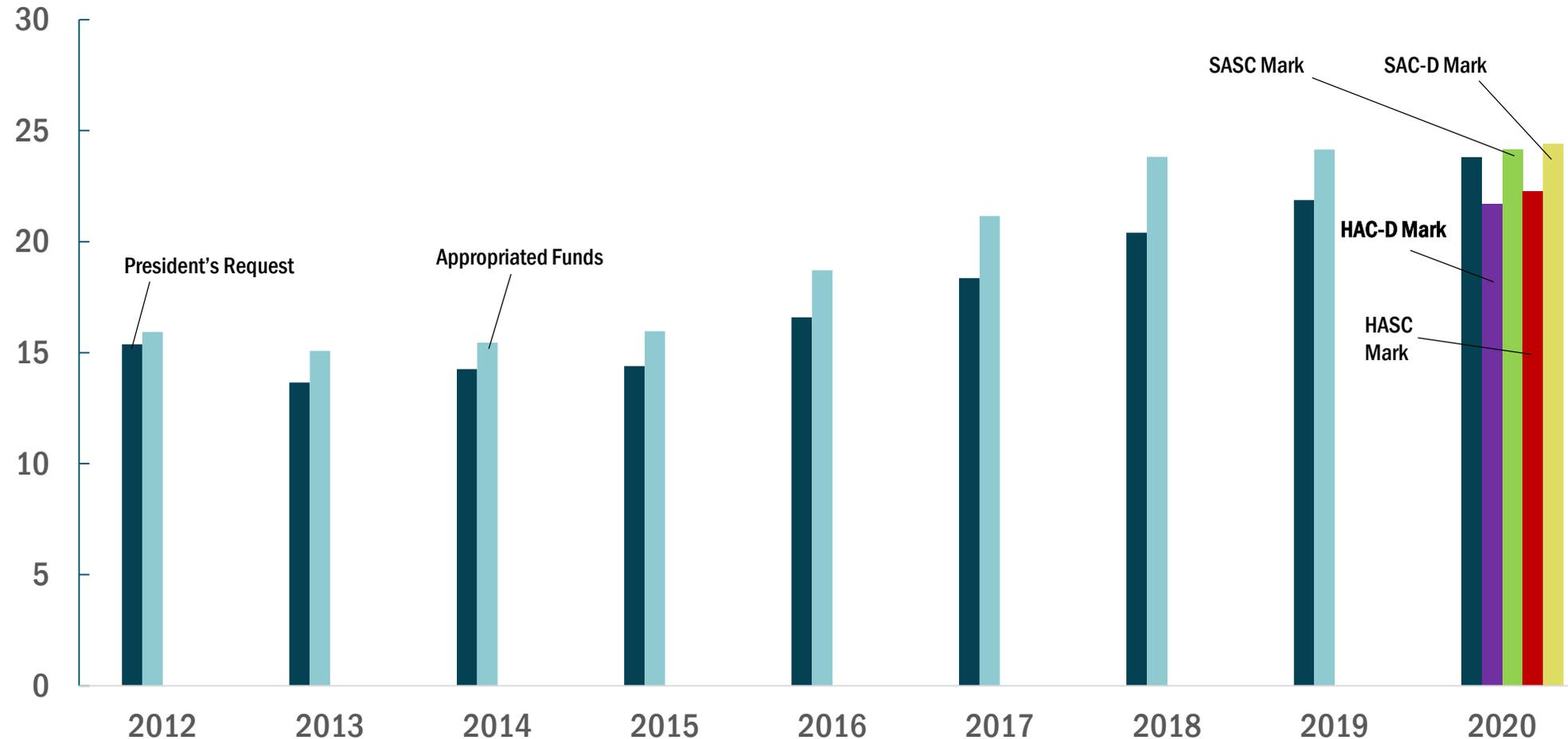
SSBNs = ballistic missile submarines; SSNs = attack submarines.

a. Includes ship conversions, ships that are not part of the Navy's battle force and training ships, outfitting and postdelivery activities, and smaller items.

b. The costs of the mission packages for littoral combat ships, which are not funded in the Navy's shipbuilding accounts, are not included.

Requested and Appropriated Shipbuilding Budgets, 2012 to 2020

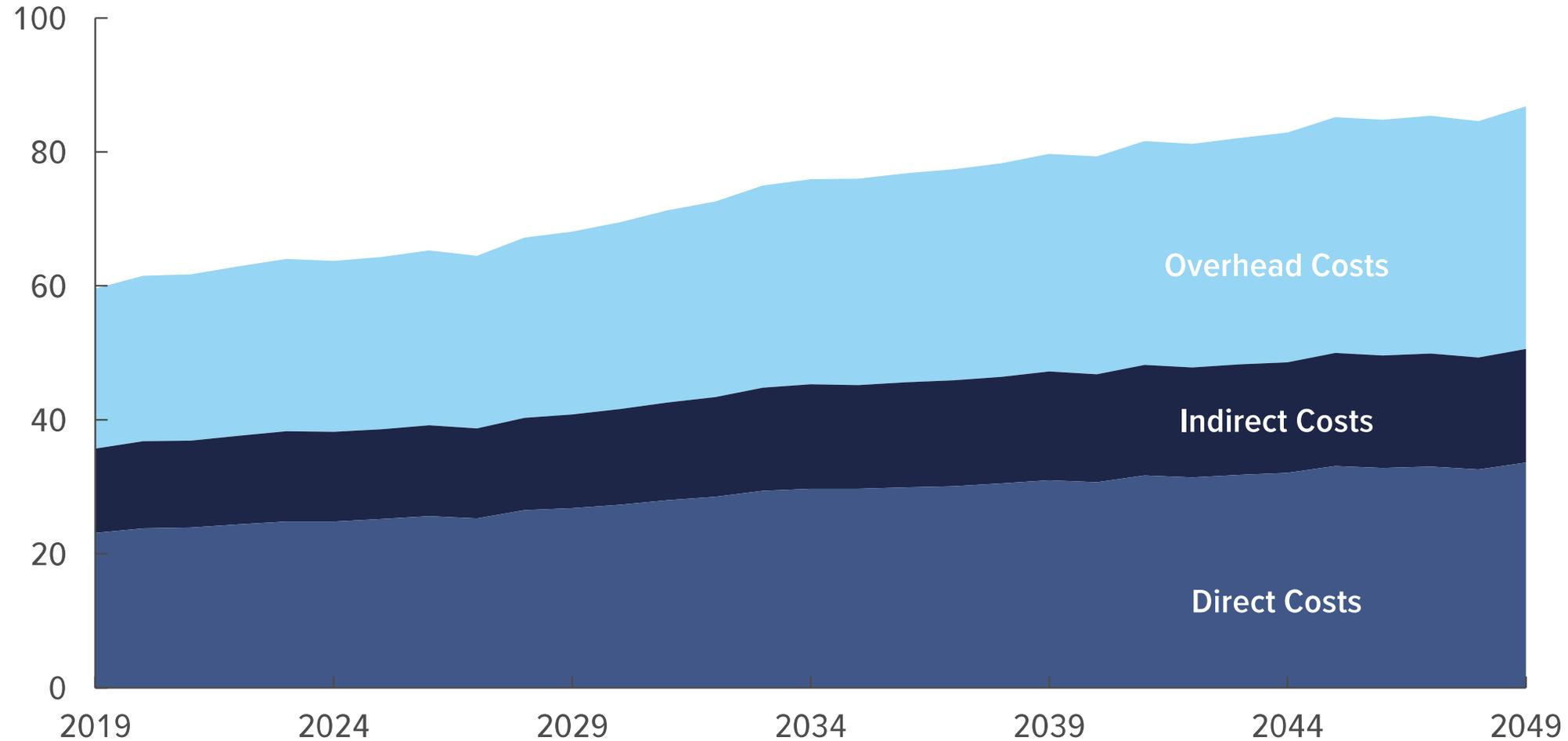
Billions of Dollars



HAC-D = House Appropriations Committee, Defense Subcommittee; HASC = House Armed Services Committee; SAC-D = Senate Appropriations Committee, Defense Subcommittee; SASC = Senate Armed Services Committee.

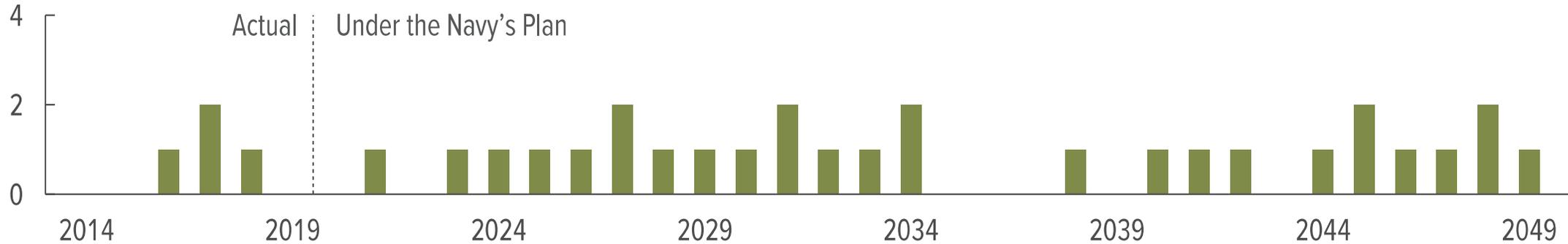
Operation and Support Costs for a 355-Ship Fleet, 2019 to 2049

Billions of 2019 Dollars

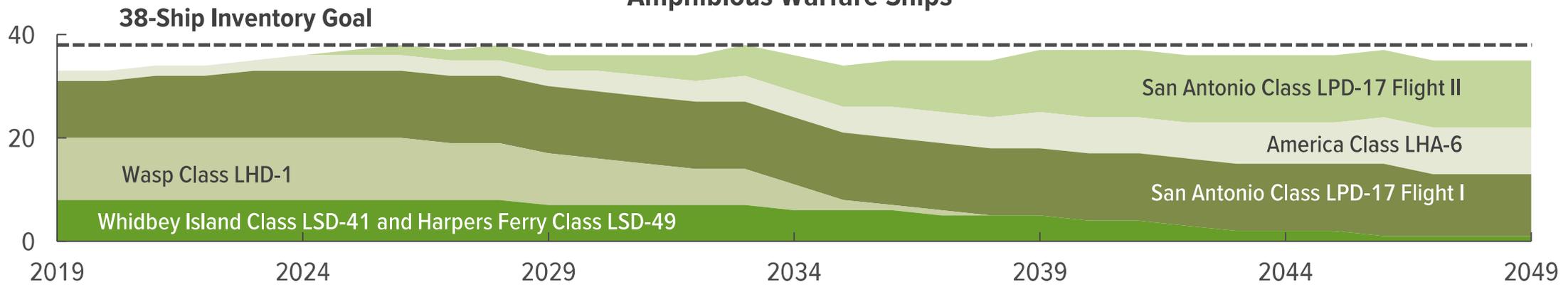


Amphibious Ship Purchases and Inventory Under the Navy's 2020 Plan

Amphibious Warfare Ships

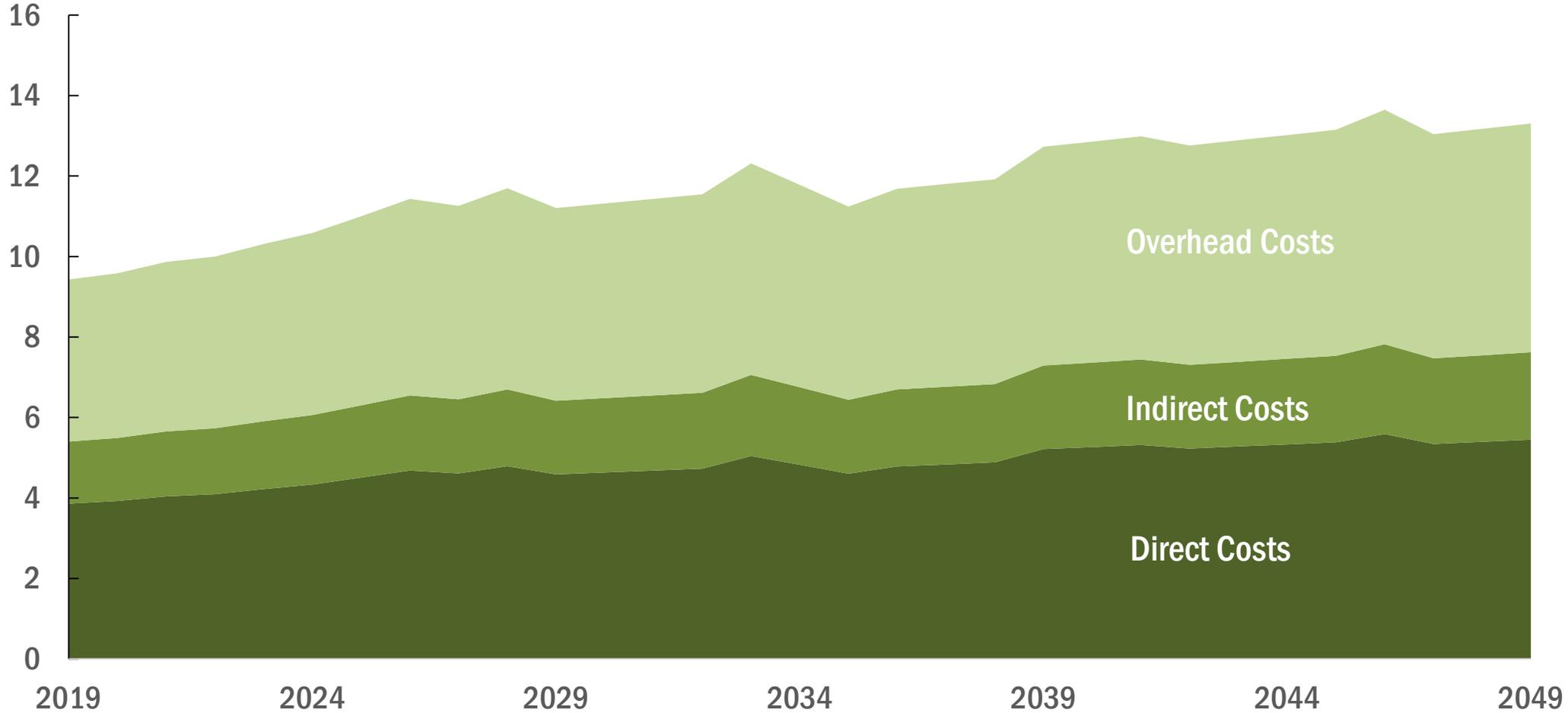


Amphibious Warfare Ships



Operating Costs for the Amphibious Fleet Under the 2020 Plan, 2019 to 2049

Billions of 2019 Dollars



Outline

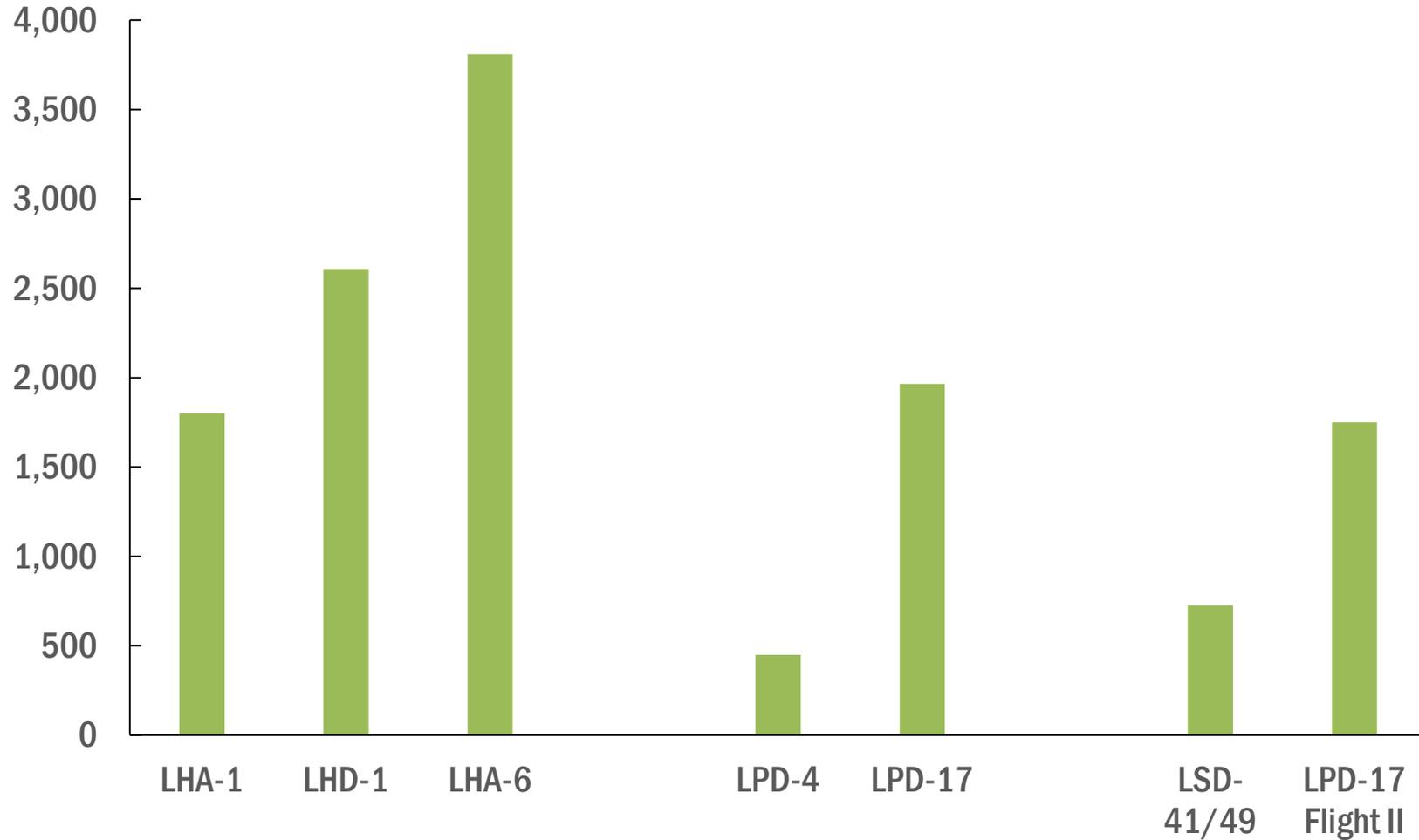
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- Alternatives for the future

Commandant's Planning Guidance

- “Force design is my number one priority.”
- “If provided the opportunity to secure additional modernization dollars in exchange for force structure, I am prepared to do so.”
- “We must continue to seek the affordable and plentiful at the expense of the exquisite and few when conceiving of the future amphibious portion of the fleet.”

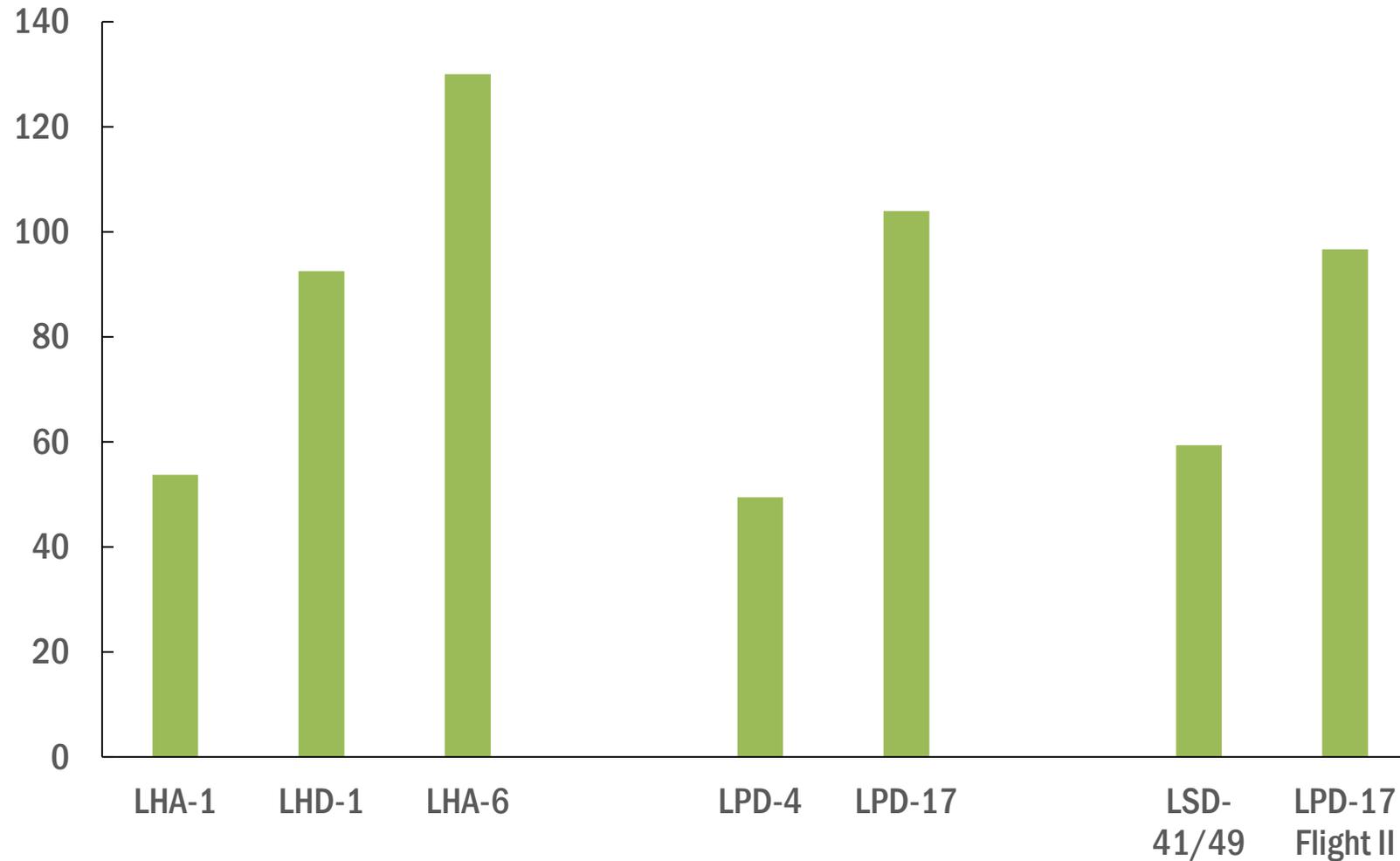
Amphibious Warfare Ships, Average Cost by Class

Millions of 2019 Dollars



Amphibious Warfare Ships, Cost per Thousand Tons by Class Average

Millions of 2019 Dollars



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Illustrative Alternatives to Current Amphibious Ship Programs

- Variant of the Navy's expeditionary fast transport
- New scaled-down design for a tank-landing ship
- Commercial design
- What can be bought for \$600 million apiece? How many?