



# AIRCRAFT CARRIER INDUSTRIAL BASE COALITION



The Aircraft Carrier Industrial Base Coalition (ACIBC) represents businesses that supply parts, equipment, and services for the construction and maintenance of U.S. Navy aircraft carriers. Established in 2004, ACIBC seeks to preserve the strength of the aircraft carrier force and promote the value of the aircraft carrier industrial base as a vital part of the nation's overall defense structure.

ACIBC businesses provide all the valves, wiring, steel, motors, and thousands of other parts that make these ships the preeminent expression of U.S. military power—capable of delivering overwhelming warfighting force around the globe.

# IT TAKES A NATION TO BUILD NUCLEAR-POWERED AIRCRAFT CARRIERS!

Today's U.S. Navy nuclear-powered aircraft carriers are the stunning result of over 2,000 companies in 46 states performing \$5.6 billion worth of work. This nationwide industrial base continually invests in new equipment, technology, and a workforce of over 60,000 to design and build ships that evolve with national security strategy.

## CONSTRUCTION AND MAINTENANCE REQUIRES A NATION OF SKILLED LABOR

**2,000+**  
COMPANIES

**288**  
CONGRESSIONAL DISTRICTS

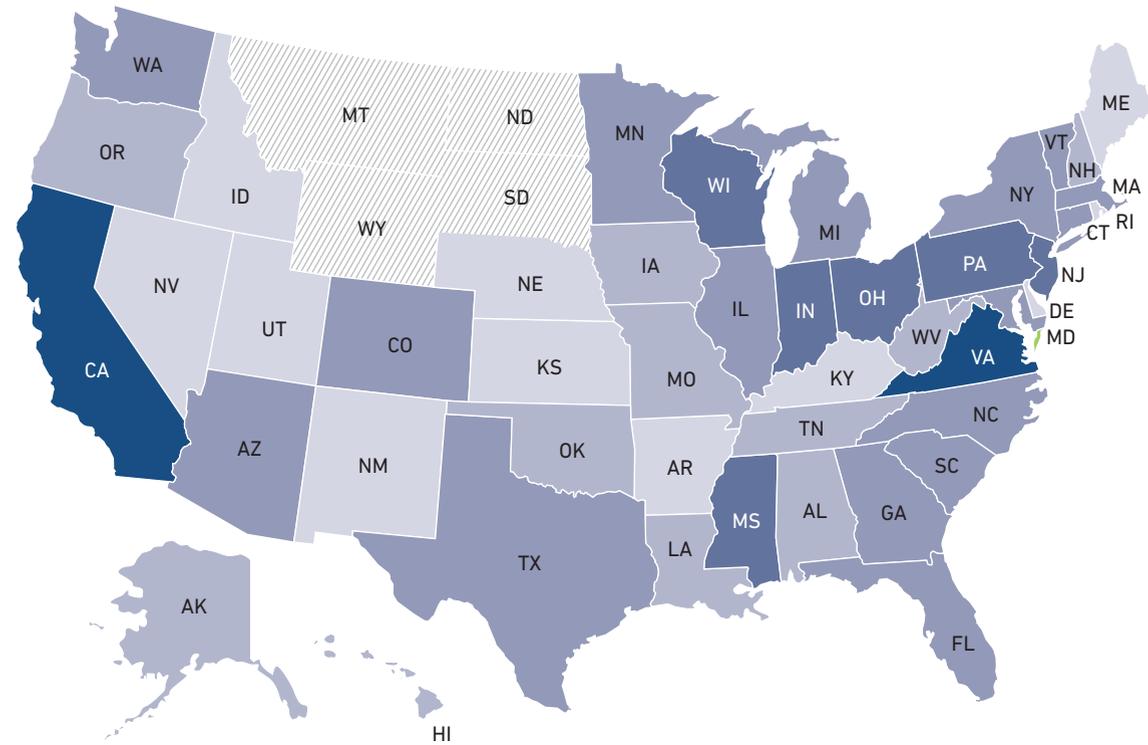
**46**  
STATES

**\$5.6**  
BILLION WORTH OF WORK\*

**60,000**  
JOBS

\*Source: Spending numbers for equipment and material purchases over the past five years (2015-2019)

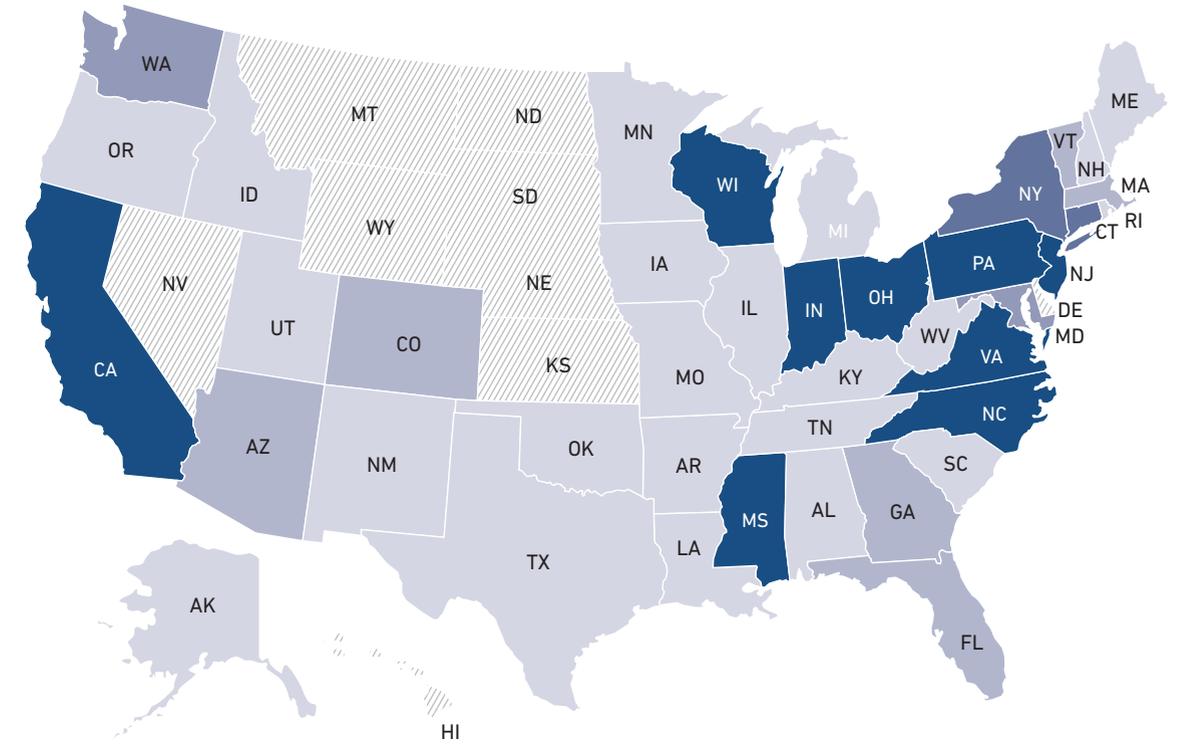
## ECONOMIC IMPACT 2015-2019



### DOLLARS SPENT



## SUPPLY CHAIN JOBS



### DIRECT JOBS PER STATE



# TAKE ACTION



**As a constituent and representative of the Aircraft Carrier Industrial Base Coalition (ACIBC), I respectfully request that you:**

**Support the President's Budget request for the Carrier Replacement Program by authorizing and appropriating \$998 million for construction of *Enterprise* (CVN 80); \$1,646 million for construction of *USS Doris Miller* (CVN 81); \$155 million for outfitting of *USS Gerald R. Ford* (CVN 78) and *John F. Kennedy* (CVN 79); and, \$71 million for completion of CVN 79 in FY 2021**

The best approach to continue reducing the cost of the *Ford*-class is to employ a multi-ship procurement strategy with ship construction commencing on four-year intervals. This approach will maximize the material procurement savings benefit through economic order quantity (EOQ) procurement of material and supplies, improve industrial base stability and efficiency and provide labor stability and associated efficiencies.

# TAKE ACTION



**As a constituent and representative of the Aircraft Carrier Industrial Base Coalition (ACIBC), I respectfully request that you:**

**Support the President's Budget request for Aircraft Carrier Research and Development (R&D) by authorizing and appropriating \$108 million funding for the *Ford*-class aircraft carrier program (CVN 78-80); \$23 million funding for *Enterprise's* (CVN 80) Total Ship Integration; and, \$15 million funding for *John F. Kennedy's* (CVN 79) Total Ship Integration**

This funding is used to develop aircraft carrier specific technologies with emphasis toward significant improvements in *Ford*-class affordability, reduced manpower, enhanced survivability and greater operational capability. This is accomplished through engineering support, programmatic support, logistics support, modeling and simulation, test and evaluation, manpower and related studies, and development of design support systems such as Integrated Digital Environment (IDE).

# TAKE ACTION



**As a constituent and representative of the Aircraft Carrier Industrial Base Coalition (ACIBC), I respectfully request that you:**

**Support the President's Budget request for the Refueling and Complex Overhaul (RCOH) Program by authorizing and appropriating \$17 million for Advance Procurement for USS *Harry S. Truman's* (CVN 75) RCOH; \$1,878 million for the RCOH of USS *John C. Stennis* (CVN 74); and, \$198 million for the RCOH completion for USS *George Washington* (CVN 73)**

The RCOH program produces a re-capitalized carrier capable of continued operations for the remaining 23-plus years of ship life. Continued and steady multi-year funding is a proven cost-efficient acquisition approach for the RCOH program. The serial nature of the aircraft carrier RCOH program provides workforce and industrial base stability that generates efficiencies that contribute to strong, on-budget program performance.

# SUPPLIERS IN ACTION

Representing more than 2,000 companies in 46 states in 288 congressional districts, last year ACIBC members were very active in telling the Coalition's story. ACIBC members held congressional facility tours, participated in Aircraft Carrier Month, wrote to their Members of Congress, and engaged with the media about the christening of *John F. Kennedy* (CVN 79). Here are some highlights.

## RECORD-BREAKING NUMBER OF CONGRESSIONAL FACILITY TOURS HELD

The collage features several social media posts and photos:

- Rep. Bobby Scott (@BobbyScott)**: "Had a great tour yesterday of Siemens PLM in Newport News. Got to try out some new tech that is transforming how we build and design ships." (Aug 30, 2019)
- Rep. Elaine Luria (@RepElaineLuria)**: "Thanks to Fairbanks Morse in Norfolk for hosting me today and showing me how they are making our Navy stronger every day. Protecting American businesses that support our maritime forces and trade is a national security imperative." (Dec 16, 2019)
- Rep. Andy Kim (@RepAndyKimNJ)**: "I spent time today with the working men and women at DC Fabricators in Florence Township. They make critical parts for our national defense, and I'm proud to have them in our community." (Aug 28, 2019)
- Chryssy Houlahan (@RepHoulahan)**: "I had the pleasure of touring Hillman in Honey Brook, PA where I got to see their new facility and meet with workers who contribute to the creation of our aircraft carriers. As a USAF Veteran, I'm grateful for the work of the PA companies that support our war fighters. #ACIBC" (Dec 3, 2019)
- Dante Valve (@DanteValve)**: "Two Dante Valve executives recently had the great honor of participating in Distinguished Visitor Embark (DVE) flight excursions to aircraft carriers off the U.S. coasts: President Lisa Dante Papini and General Manager of East Coast Operations Charlie Smith." (Aug 2, 2019)
- Ward Leonard (@WardLeonard5)**: "On Friday, @RepJahanaHayes visited to discuss motors, controls & components which are installed virtually every aircraft carrier in the @USNavy. grateful for the support of Rep. Hayes and we showcase our facility on behalf of @ACIBC #AircraftCarrierMonth" (Nov 12, 2019)
- PaR Systems, LLC (@PaRSystemsLLC)**: "@PaRSystemsLLC is honored to co-celebrate @USNavy's #CVN79 that was christened this weekend, as well as supporting the women of our U.S. Navy and the proud members of our community. Read more about our contributions [jacksonville.com/business/20191111-pars-systems-llc-celebrates-cv79-christening](http://jacksonville.com/business/20191111-pars-systems-llc-celebrates-cv79-christening)" (Nov 11, 2019)
- Huntington Ingalls Industries (@HIIndustries)**: "Newport News Shipbuilding christened the @USN aircraft carrier John F. Kennedy (#CVN79) today. [newsroom.huntingtoningalls.com/releases/aircr...](http://newsroom.huntingtoningalls.com/releases/aircr...)" (Dec 11, 2019)
- Trident Maritime Systems (@TridentMaritime)**: "In honor of National U.S. Navy #AircraftCarrierMonth we want to recognize our employees who have served on the creation of John F. Kennedy (CVN 79) and look forward to the ship's christening on her future years of service at sea. #ACIBC" (Nov 15, 2019)
- RIX Industries (@RIXIndustries)**: "November is National U.S. Navy #AircraftCarrierMonth which honors the contributions of our employees aboard carriers as well as all who help build them. Today, we celebrate our employees and all @ACIBC companies who are vital in creating and sustaining our nation's carriers." (Nov 11, 2019)

Other photos include a group of men in suits, a man in a VR headset, a man speaking at a podium, and various scenes from shipbuilding facilities.

# SUPPLIERS IN ACTION

## SUPPLIERS IN THE NEWS

### Daily Press

Moment in the sun: Aircraft carrier John F. Kennedy christened at Newport News Shipbuilding

STARS AND STRIPES.  
Aircraft carriers built  
and manned by the best

### The Florida Times-Union jacksonville.com

Brunswick company PaR Marine contributes  
to Navy's new aircraft carrier

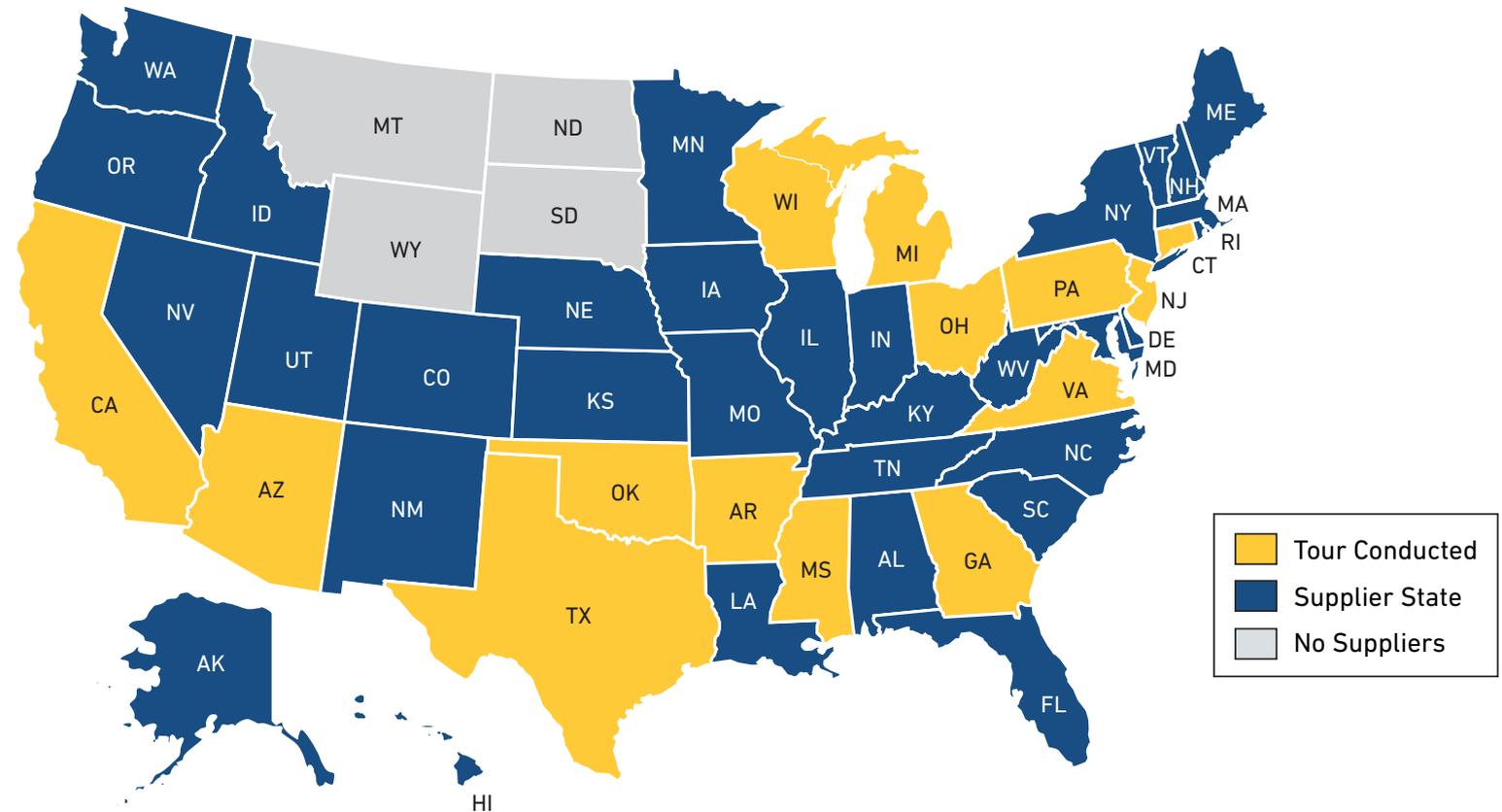
The Virginian-Pilot  
Lisa Papini: Helping build  
carriers is an honor

### 13 WOWK

New Navy Aircraft Carrier has WV ties

## HOSTING CONGRESSIONAL FACILITY TOURS

Last year 35 congressional facility tours were held at ACIBC companies in 14 states



# AIRCRAFT CARRIER KEY FACTS



## TALKING POINTS

### The Two-Ship CVN Buy Saves Taxpayers \$4 Billion & Stimulates Local Economies across the Country

My company is grateful for the congressional support of the two-ship nuclear-powered aircraft carrier purchase of *Enterprise* (CVN 80) and *Doris Miller* (CVN 81). In January 2019, former Secretary of the Navy Richard Spencer said, “[t]his contract award delivers significant savings to the government – exceeding \$4 billion when compared to the Navy’s original cost estimates to procure these CVNs separately.”

The steady demand of the two-ship CVN buy gives the aircraft carrier industrial base, which is more than 2,000 suppliers across 46 states, stability and a hot production line by providing economic order quantity purchases, leveraging cost savings and capitalizing on manufacturing efficiencies.

Newport News Shipbuilding and the supply chain stand ready to work with the Navy to find ways to more efficiently acquire and maintain the aircraft carrier fleet. The two-ship CVN buy is just one example of a more efficient acquisition practice. More must be done to harness the buying power across programs and throughout the shipbuilding and repair enterprise. Commonality and flexible streamlined supply-chain purchases are key to maximizing savings.

## A 50-Year Value

- ★ Halfway through a nuclear-powered aircraft carrier’s 50-year service, it undergoes mid-life refueling and complex overhaul (RCOH).
- ★ A steady and predictable maintenance schedule avoids wasteful early retirement of a much-needed asset and:
  - Maintains the highest standard of Navy ships;
  - Upgrades the ship’s warfighting capabilities, refuels the nuclear-reactor, and overhauls most machinery; and,
  - Creates stability and efficiencies in the industrial base resulting in the highest quality of work and on-time delivery.
- ★ Investing only one-tenth of one percent of the federal budget for a carrier’s refueling and complex overhaul (RCOH) ensures the ship a successful 50-year service life.

## The Value Proposition of an Aircraft Carrier

In times of tight economies, the nation’s leaders must make hard choices, while also preserving our national security. The *Gerald R. Ford*-class of aircraft carriers is a significant investment for the nation and one that provides tremendous return on that investment over the ship’s 50-year lifespan. With unmatched capability—aircraft carriers provide sovereign, mobile US territory and are a visible symbol of US power. Incredibly, the cost of building and operating aircraft carriers and their aircraft is less than one percent of the federal budget.



Newport News Shipbuilding and the supply chain stand ready to work with the Navy to find ways to more efficiently acquire and maintain the aircraft carrier fleet.



## RECENT DEVELOPMENTS IN AIRCRAFT CARRIER CONSTRUCTION AND MAINTENANCE

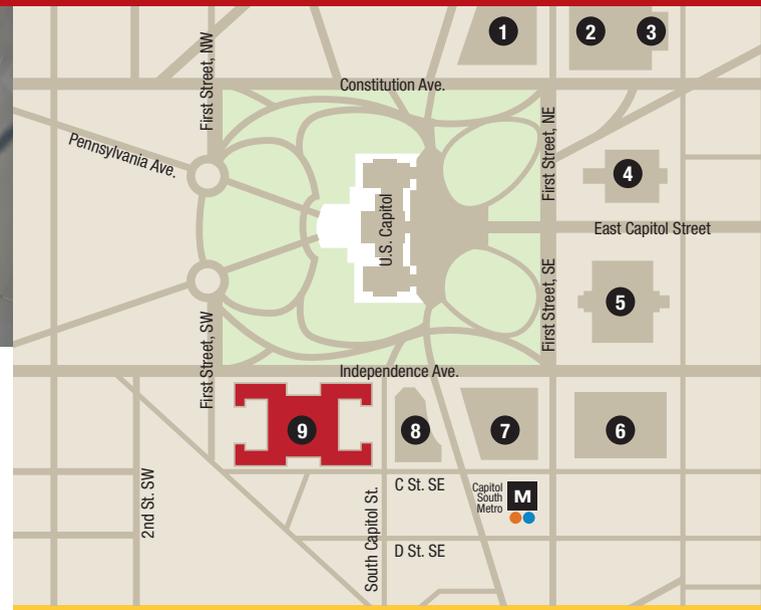
**CVN 78:** The first-in-class aircraft carrier, USS *Gerald R. Ford*, commissioned in July 2017, completed compatibility testing with five different airframes over the course of a 16-day trial sailing. The testing phase included underway catapult launches and arrested landings for the T-45 Goshawk, E/A-18G Growler, E-2D Advanced Hawkeye and C-2A Greyhound. Crews also tested F/A-18F Super Hornets, which had conducted an earlier round of compatibility tests on board *Ford* in 2017.

**CVN 79:** Christened in December 2019, *John F. Kennedy* (CVN 79) is 100% structurally complete; more than 70% complete overall. The Navy is reviewing the current two-phased delivery strategy to make the ship available for operations at the earliest time while incorporating Joint Strike Fighter upgrades and other systems with increased warfighting capabilities.

**CVN 80 & 81:** *Enterprise* (CVN 80) and the recently named *Doris Miller* (CVN 81) were part of a two-ship purchase by the Navy under a single contract with a four-year construction interval. According to the U.S. Navy, this approach will yield more than \$4 billion in savings when compared to the cost to purchase the ships on separate contracts with five-year construction intervals.

As part of the Navy's two-ship purchase along with CVN 81, CVN 80 is set to keel in 2022, with an expected launch date of 2026.

The recently-named *Doris Miller* (CVN 81) is the second ship in the Navy's two-ship purchase, done under a single contract with a four-year construction interval. The *Doris Miller* was officially announced in January during a ceremony in Pearl Harbor, Hawaii by Acting Navy Secretary Thomas Modly. Miller is widely recognized as one of the first U.S. heroes of World War II and his legacy has been a touchstone for African American sailors in the service.



- |   |   |
|---|---|
| 1. Russell Senate Office Building         | 6. Madison Building Library of Congress |
| 2. Dirksen Senate Office Building         | 7. Cannon House Office Building         |
| 3. Hart Senate Office Building            | 8. Longworth House Office Building      |
| 4. U.S. Supreme Court                     | 9. Rayburn House Office Building*       |
| 5. Jefferson Building Library of Congress |   |

\*Breakfast Located in Rayburn House Office Building Banquet Rooms, RHOB 2043-2045

### SENATE SIDE OFFICE NUMBERING SYSTEM

**Building Prefixes:** Russell (SR), Dirksen (SD), Hart (SH)

All rooms are three digits, the first digit including floor number and a prefix indicating office building. **Example:** Office, SH 522, is located on the fifth floor of the Hart building.

### HOUSE SIDE OFFICE NUMBERING SYSTEM

**Building Prefixes:** Rayburn (RHOB), Longworth (LHOB), Cannon (CHOB)

**RAYBURN:** All rooms are four digits; the first is always 2, the second indicates floor. **Example:** Office 2404 RHOB, is on the fourth floor of Rayburn.

**LONGWORTH:** All rooms are four digits; the first is always 1, the second indicates floor. **Example:** Office 1233 LHOB, is on the second floor of Longworth.

**CANNON:** All rooms are three digits; the first indicates floor. **Example:** Office 233 CHOB, is on the second floor of Cannon.



## TELL YOUR COMPANY'S STORY

We are proud of the work that our company does to support the construction and maintenance of U.S. Navy aircraft carriers. Steady funding at the level requested is essential for us to maximize resources, capitalize on manufacturing efficiencies, and ensure necessary product quality for building these great ships.

Please provide specifics on the local impact of congressional funding below:

\_\_\_\_\_ people are employed by your company.

\_\_\_\_\_ % of your company's business in recent years is related to the manufacturing of parts and services for aircraft carriers.

\_\_\_\_\_ % of your company's business in recent years is related to the manufacturing of parts and services for the defense industry.

\_\_\_\_\_ supplier companies in your district support our work relating to carriers.

\$ \_\_\_\_\_ is spent in your district/locality on carrier work.



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★ instagram.com/usnavyaircraftcarriers

★ linkedin.com/company/ACIBC

# AMERICA'S AIRCRAFT CARRIERS



# STRATEGIC REQUIREMENT: EVOLVE TO MEET CHANGING THREATS

The *Ford*-class aircraft carriers are the result of roughly 100 years of thoughtful, science-based evolution. The aircraft carrier, air wing, and weapons system have evolved together, using the latest technologies to counter the ever-changing threat environment. This class has the capability to continue this evolution for the next 50 years—and beyond.

## AIRCRAFT CARRIER EVOLUTION IS DRIVEN BY STRATEGY

National Security Strategy



National Defense Strategy



National Military Strategy



Navy Design for Maintaining Maritime Superiority, 2.0

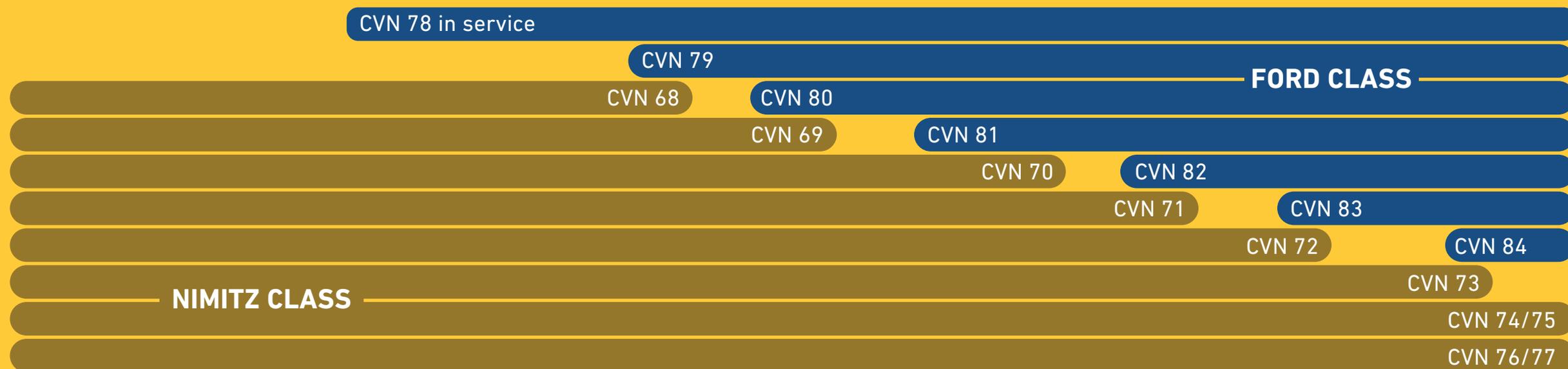


Aircraft Carrier Evolution

## AIRCRAFT CARRIER SERVICE SCHEDULE

2010

2050



# EVOLUTION: TO 2050 AND BEYOND

*"No other weapons system or combination of lesser systems in existence or on the drawing board is as lethal, agile and resilient as a full-sized nuclear-powered aircraft carrier and its air wing."*

—Rear Adm. Roy Kelley, Commander, Naval Air Force Atlantic

## PRESENT AIRCRAFT CARRIER AND AIR WING CAPABILITIES

The **Ford-class aircraft carriers** incorporate new systems that enable launch, recovery and maintenance of aircraft with greater speed and to better detect, track and neutralize airborne and seaborne threats.

The **air wing** carries a wide array of weapons to counter adversaries in a broad spectrum of tactical situations. Distributed forces are supported by airwing electronic warfare and command and control capabilities.

## 2050 AND BEYOND

**Future capabilities of aircraft carriers** could include the addition of hypersonic missiles, directed energy weapons, unmanned surface and underwater vehicles, ship systems utilizing artificial intelligence, advanced communications and datalinks, Advanced Missile Defense Radar variant and pulsed energy systems.

**Future upgrades to the air wing weapons suite** could include electromagnetic pulse bombs, directed energy weapons and hypersonic missiles.

## PRESENT CARRIER BASED AIRCRAFT

## 2050 AND BEYOND

### CVW PRESENT

Air Wing Size: 67  
Unmanned: 0

### CVW 2021

Air Wing Size: 70  
Unmanned: 0

### CVW 2025

Air Wing Size: 75  
Unmanned: 5

### CVW 2030

Air Wing Size: 75  
Unmanned: 5

### CVW 2035\*

Air Wing Size: 75+  
Unmanned: 10+

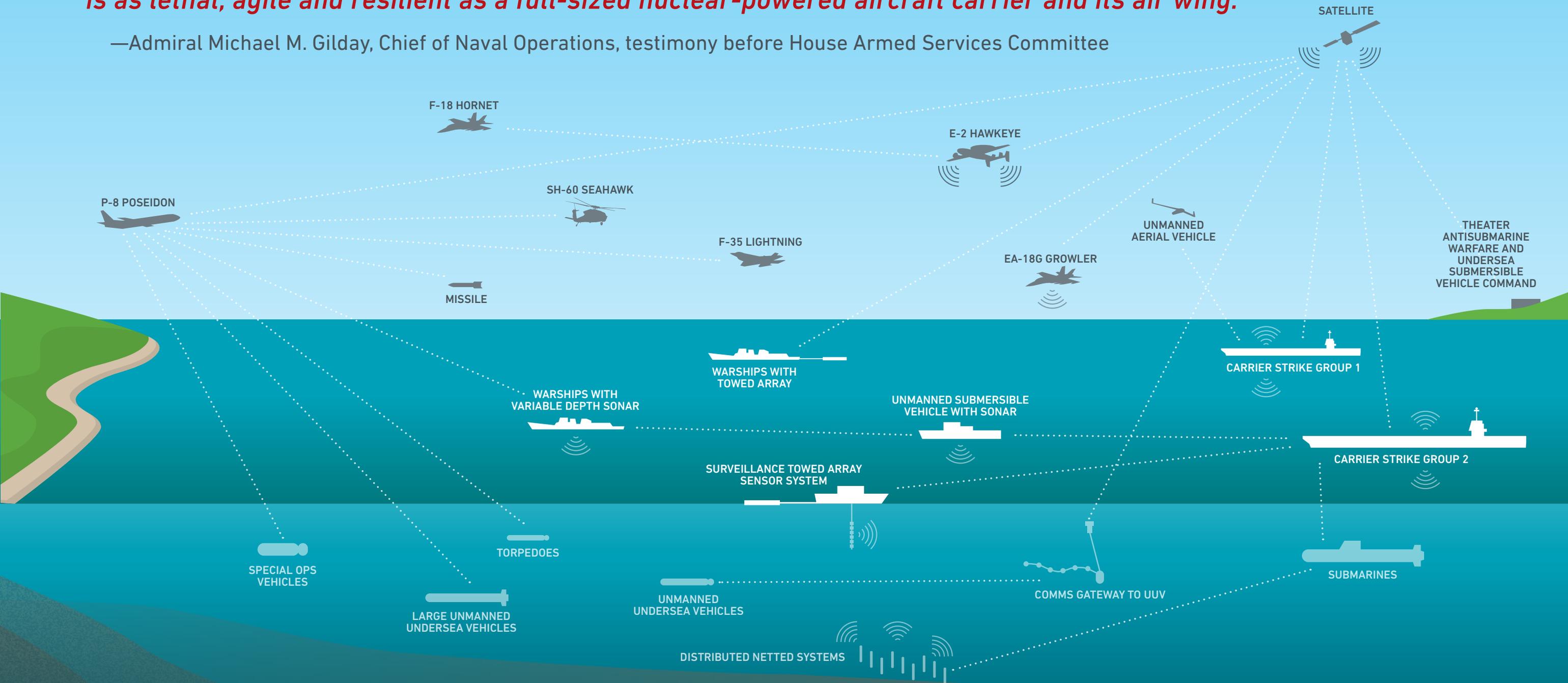
### CVW 2040\*

Air Wing Size: 75+  
Unmanned: 15+

# FUTURE OF SEAPOWER & POWER PROJECTION

*“The CVN and embarked CVW are vital to the Distributed Maritime Operations (DMO) operating concept, is as lethal, agile and resilient as a full-sized nuclear-powered aircraft carrier and its air wing.”*

—Admiral Michael M. Gilday, Chief of Naval Operations, testimony before House Armed Services Committee





# MULTI-SHIP BUY REDUCES SHIP COST, STABILIZES INDUSTRIAL BASE

## THE TWO-SHIP CVN BUY ALLOWS COMPANIES TO:

- ★ Hire, train and retain skilled workers
- ★ Invest in new equipment and technology
- ★ Maximize the material procurement savings benefit through economic order quantity (EOQ) procurement of material and supplies,

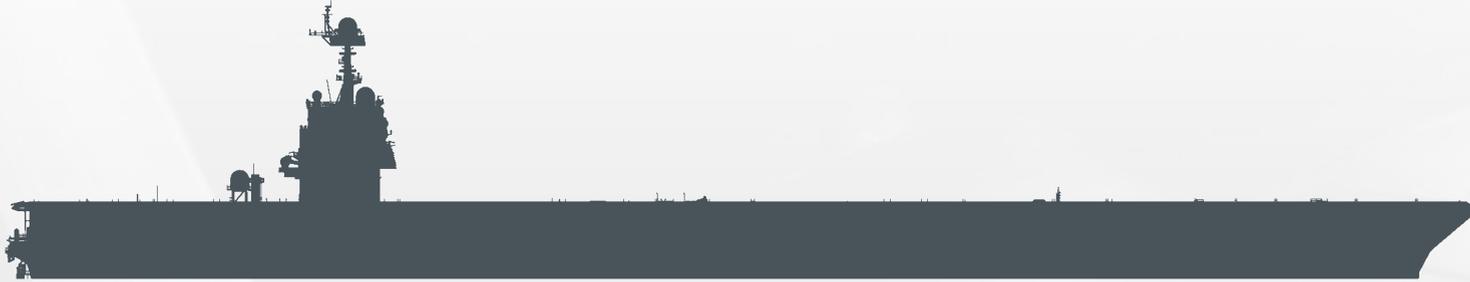
THE BEST APPROACH TO CONTINUE REDUCING THE COST OF THE *FORD*-CLASS IS TO EMPLOY A **MULTI-SHIP PROCUREMENT STRATEGY WITH SHIP CONSTRUCTION COMMENCING ON FOUR-YEAR INTERVALS.**

# A 50-YEAR VALUE

Halfway through a nuclear-powered aircraft carrier's 50-year service, it undergoes mid-life **REFUELING AND COMPLEX OVERHAUL (RCOH)**, which includes refueling of nuclear reactors; overhauling most machinery and modernizing warfare systems.

## **RESULTS:**

IMPROVED CAPABILITIES NEEDED FOR SUCCESS IN REMAINING 23+ YEARS OF A SHIP'S LIFE.



**CONTINUED AND STEADY RCOH MULTI-YEAR FUNDING** PROVIDES THE AIRCRAFT-CARRIER WORKFORCE AND INDUSTRIAL BASE STABILITY THAT GENERATES EFFICIENCIES CONTRIBUTING TO STRONG, ON-BUDGET PROGRAM PERFORMANCE.



**THANK YOU  
FOR YOUR SUPPORT**