

Aircraft Carrier Programs



Sea-Air-Space
16 May 2016

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PEO Carriers Portfolio



Mission:

Deliver Aircraft Carriers
on time, ready for tasking,
at an affordable cost

New
Construction



RCOH



Maintenance &
Modernization

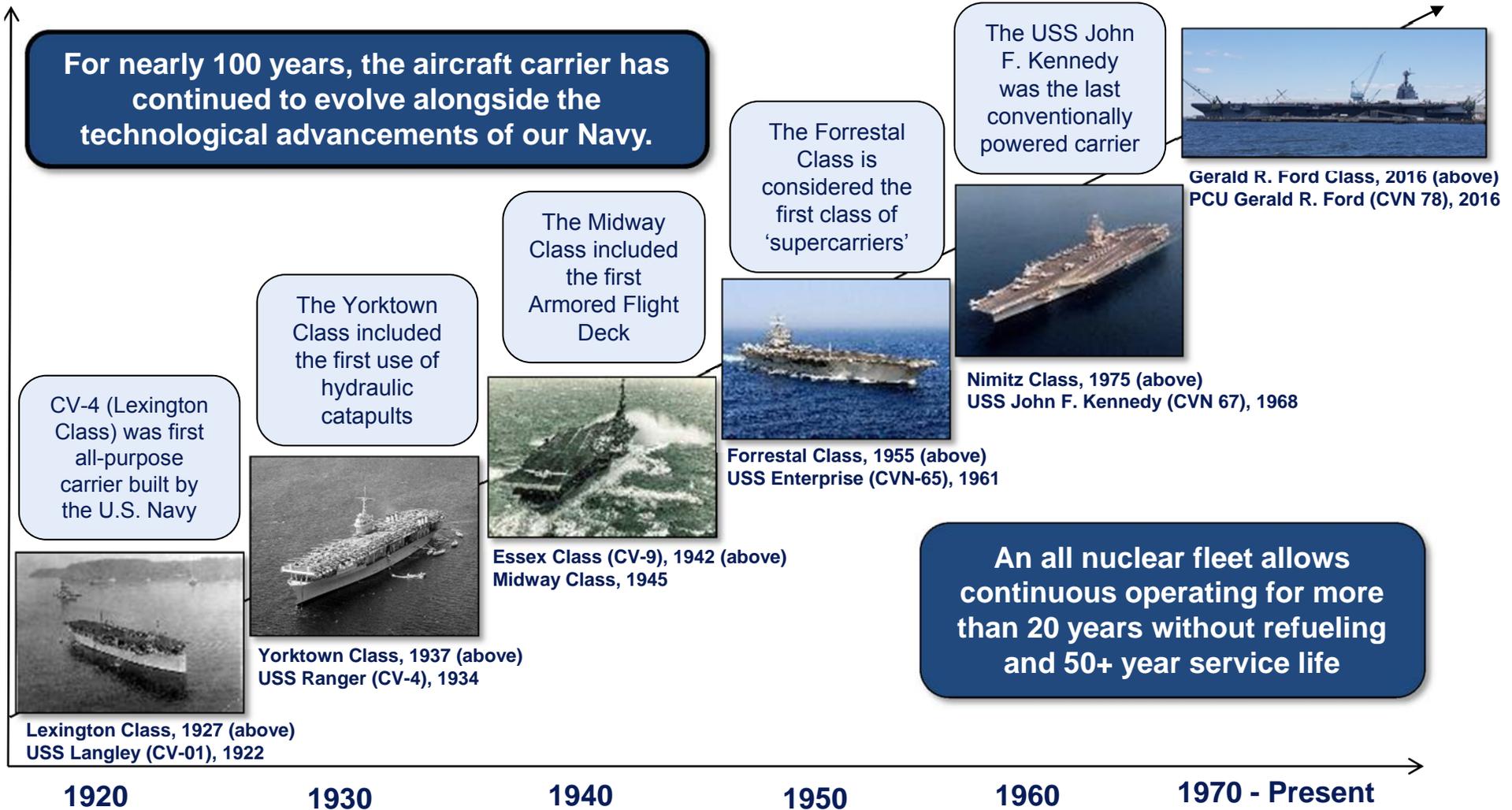


Inactivation





Carrier Evolution



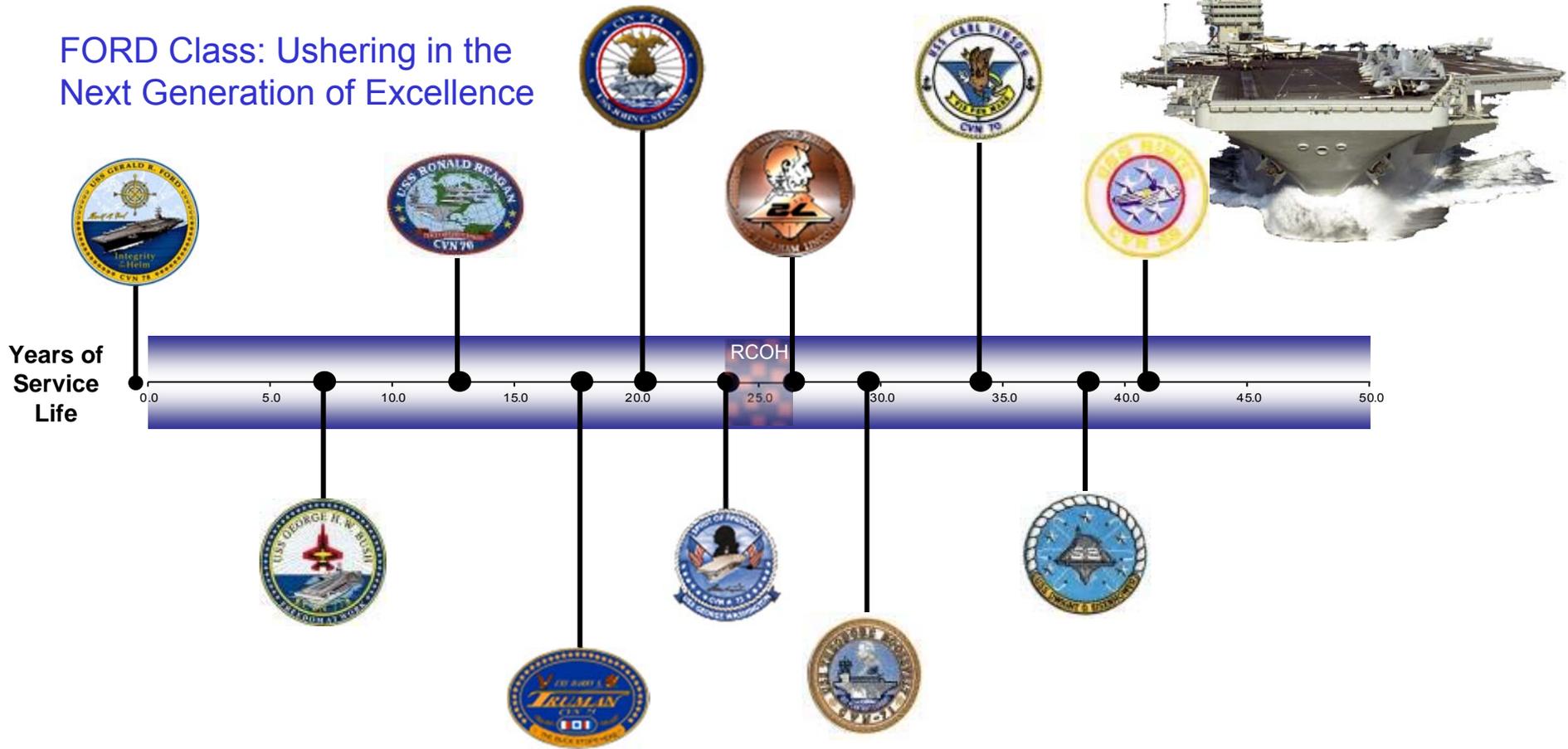


In-Service Aircraft Carriers Years of Service



NIMITZ Class: 500 total carrier-years,
serving over 84 years, from 1975 until 2059

FORD Class: Ushering in the
Next Generation of Excellence



Only 50% through the service life of the NIMITZ-Class → 248 carrier-years remaining.

(As of 21 Apr 2016)

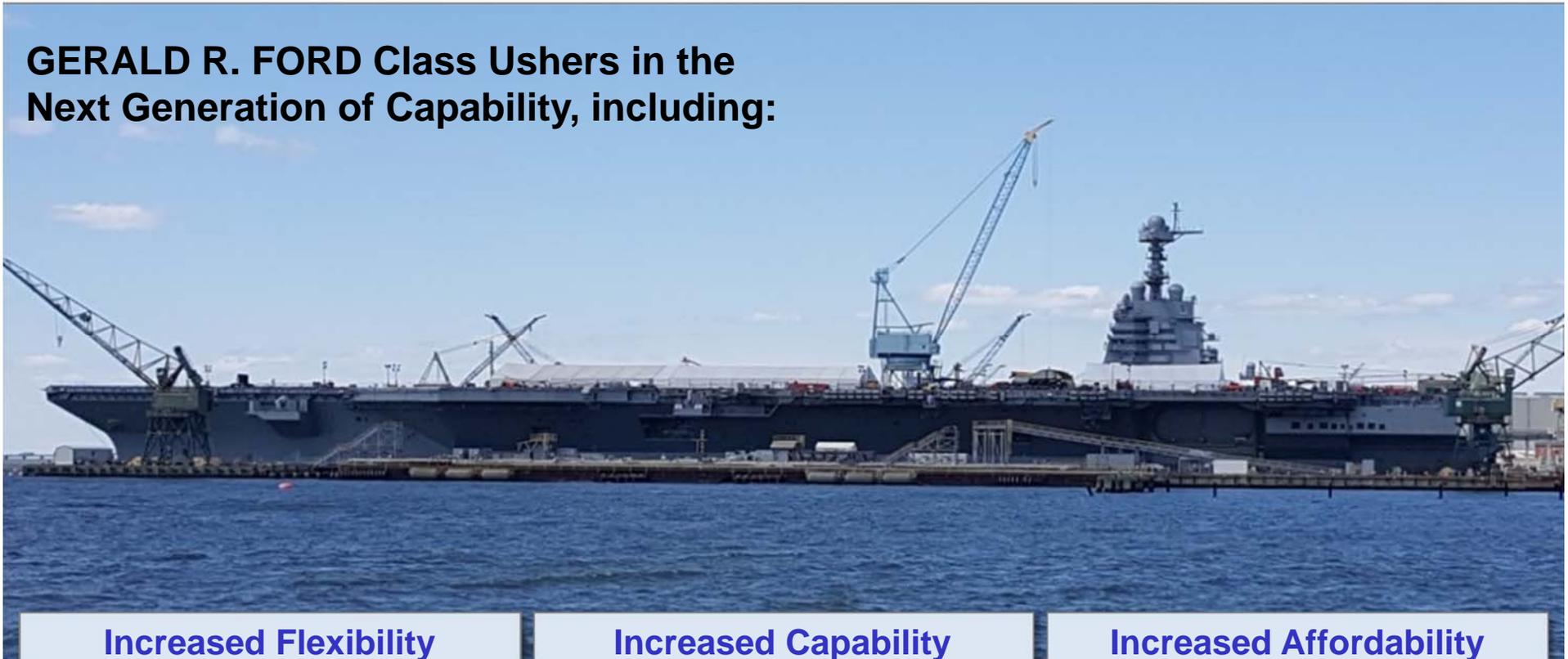


GERALD R. FORD Class

Focused Investment



GERALD R. FORD Class Ushers in the Next Generation of Capability, including:



Increased Flexibility

- Nearly 3 times the electric plant capacity
- Restored weight and stability service life allowances

Increased Capability

- 33% increase in Sortie Generation Rates
- Increased space for flight deck operations and aircraft maintenance

Increased Affordability

- Reduced manning and 20% reduction in maintenance costs
- Designed for 43-month maintenance cycle and 12-year docking intervals



GERALD R. FORD (CVN 78)

Status



Forward Focus

Finish Construction ♦ Complete the Test Program ♦
Deliver the Ship



Gerald R. Ford (CVN 78) is in the final months before delivery.

Current Status

- **98%** Overall ship completion
- **97%** Compartments turned over to crew (2,520 of 2,607)
- **74%** Systems turned over to crew (181 of 245)
- **88%** Hull, Mechanical and Electrical (HM&E) testing complete
- **78%** Electronics testing complete
- **90%** Crew reported onboard (2,357 of 2,628)

2016 Significant Events

- Feb** ✓ Multi-Function Radar (MFR) High Power Radiation
- Apr** ✓ Volume Search Radar (VSR) High Power Radiation
- Apr** ✓ Electromagnetic Aircraft Launch System (EMALS) Deadload testing complete (235 deadloads)
- May** ➤ First Advanced Weapons Elevator (AWE) turned over to crew
- Jun** ➤ Completion of combat system testing
- Aug** ➤ Sea Trials
- Sep** ➤ Delivery

(Photos courtesy of HII-NNS)



CVN 78 Progress – Crew Settled In



(Above) Ship's Sponsor Susan Ford Bales served food during the first meal aboard CVN 78 in Aug 2015. Since then, crew members have settled into life aboard the nearly complete ship.

(Clockwise from top middle):

- First Class Mess
- Ship's Store
- Gym
- Repair Lockers



(Photos courtesy of U.S. Navy and HII-NNS)



CVN 78 Progress – Crew Settled In



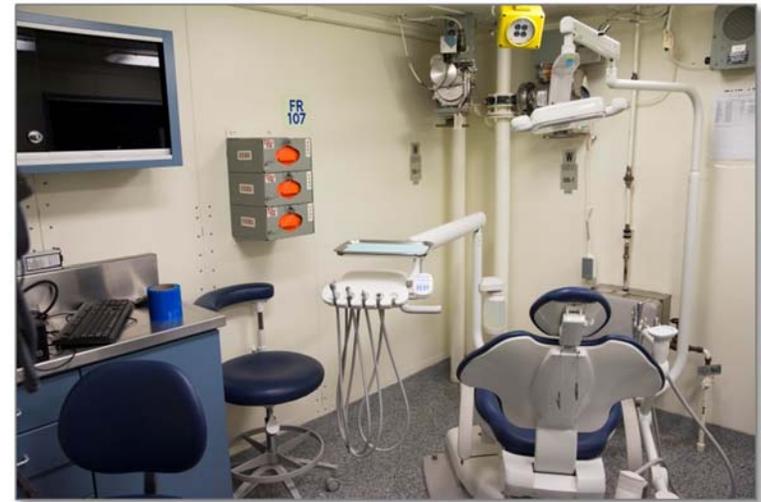
(Clockwise from top left):

- Berthing
- Staterooms (CAPT's Cabin)
- Heads/Showers

(Photos courtesy of HII-NNS)



CVN 78 Progress – Crew Settled In



(Photos courtesy of HII-NNS)

(Clockwise from top left):

- Laundry
- Barber
- Dental
- Medical

5/16/2016



CVN 78 - Training Ramps Up



Above (left to right):

- ❑ Medical teams conduct medical training during a General Quarters exercise.
- ❑ Sailors practice hose handling during general quarters in the hangar bay.
- ❑ Sailors from Combat Systems department practice loading an inert-dummy RIM-162 Evolved SeaSparrow Missile into the NATO Sea Sparrow Missile System launcher.

(Photos courtesy of U.S. Navy)



CVN 78 - Testing Takes Off



Electromagnetic Aircraft Launch System (EMALS)



EMALS uses electrically generated moving magnetic field to propel aircraft, which places less physical stress on aircraft and requires less maintenance as compared to steam catapults.

(Above): On 5 Jun 2015, CVN 78 catapulted an 16,000-lb orange sled - known as a "dead load" - into the James River at Newport News Shipbuilding. To date, more than 230 deadloads have been launched.

Advanced Arresting Gear (AAG)



AAG recovers current and future aircraft and contributes to reduced manning.

(Above): On 31 Mar 2016, the Navy reached a milestone with the first AAG recovery of a manned aircraft, an F/A-18E Super Hornet, at the Runway Arrested Landing Site (RALS) at Joint Base McGuire-Dix-Lakehurst in N.J.

Photos courtesy of HII-NNS and U.S. Navy.



JOHN F. KENNEDY (CVN 79)

Status



Significant Events

- ✓ Feb 2011 – CVN 79 Steel Cutting Ceremony
- ✓ Jun 2015 – DD&C Contract Awarded
- ✓ Aug 2015 – Keel Laying Ceremony
- Jun 2017 – 50% Erected
- Apr 2018 – 75% Erected
- May 2019 – Island Loaded
- Feb 2020 – Launch
- Jun 2022 – Delivery



(Photos courtesy of HII-NNS)

(Clockwise from top left):

- ❑ CVN 79 Steel Cutting Ceremony, 25 Feb 2011.
- ❑ CVN 79 Keel Laying, 22 Aug 2015. Joseph P. Kennedy III signs the keel unit before the ceremony.
- ❑ CVN 79's Aft Pump Room Being Set in Place – 60,000 More Hours of Pre-Outfitting than CVN 78.
- ❑ 965 Ton Aft Pump Room Superlift Being Moved to Dry-Dock.

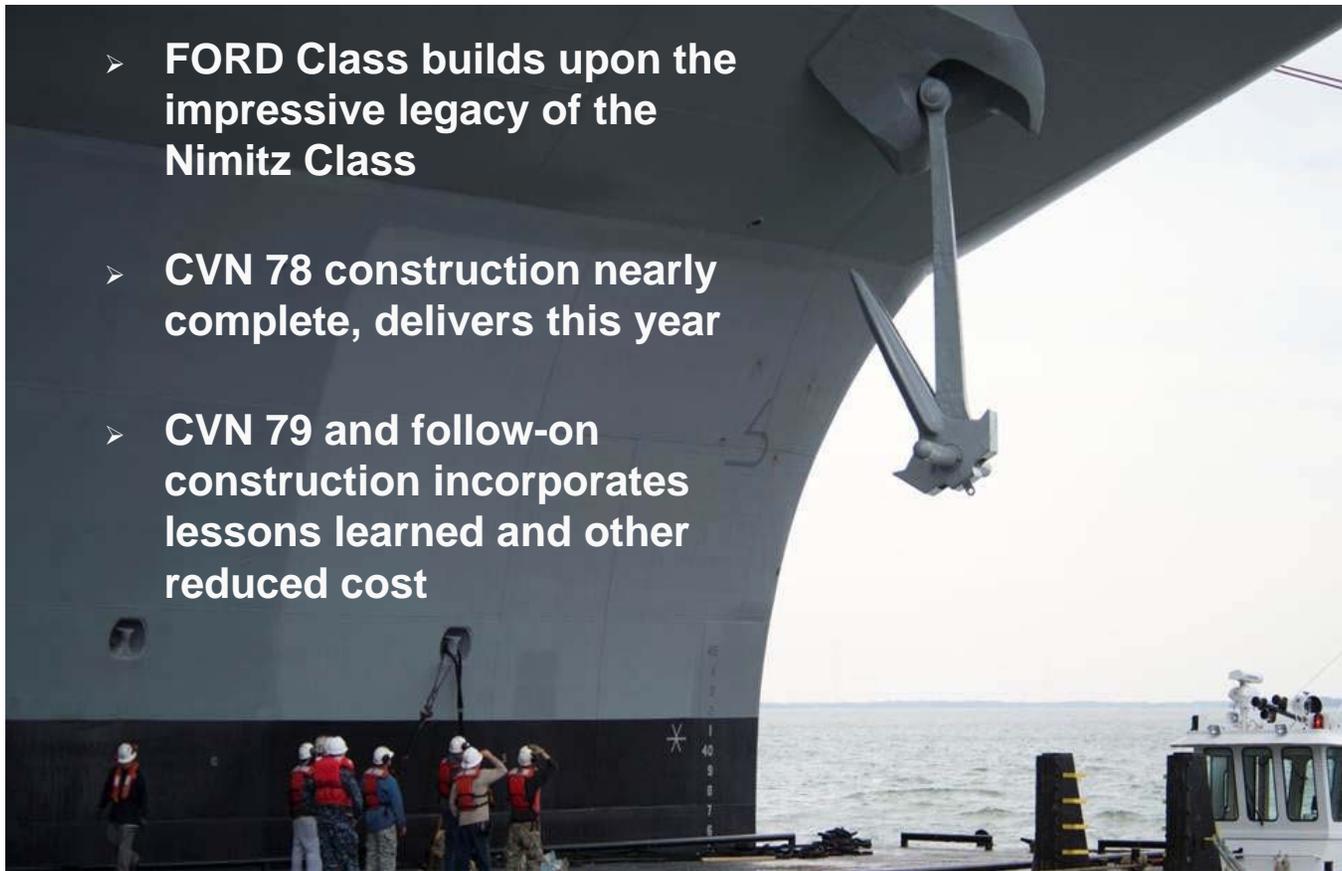


GERALD R. FORD Class

The Future is Now



- FORD Class builds upon the impressive legacy of the Nimitz Class
- CVN 78 construction nearly complete, delivers this year
- CVN 79 and follow-on construction incorporates lessons learned and other reduced cost



GERALD R. FORD Class



CVN 78 GERALD R. FORD
CVN 79 JOHN F. KENNEDY
CVN 80 ENTERPRISE



**No Fear.
No Limit.
No Equal.**