



# COLUMBIA Class Submarine Program

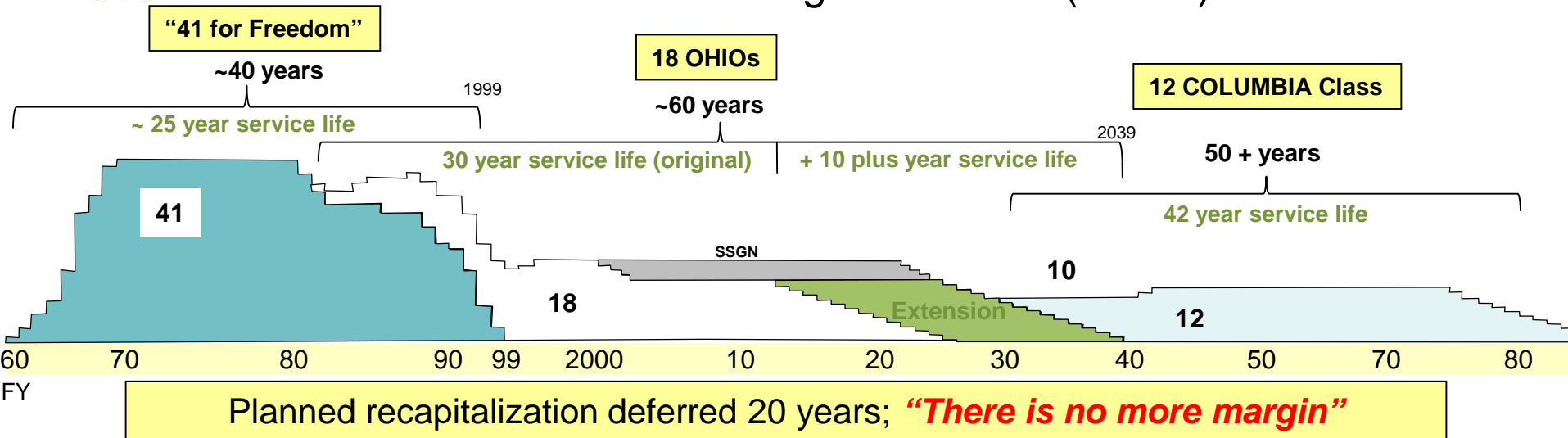
## Sea Air Space 2019

CAPT Jon Rucker  
Program Manager  
6 May 2019



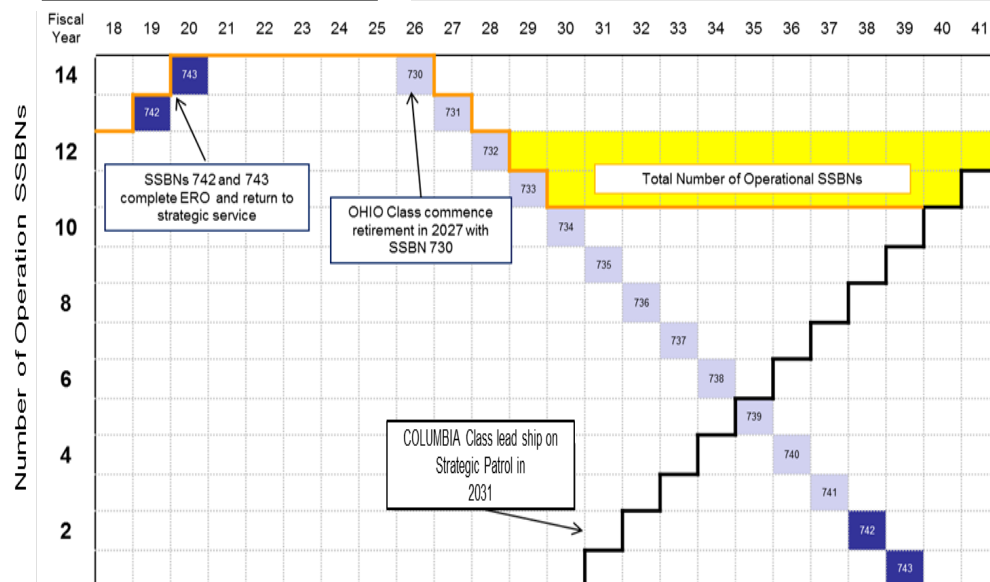
# Critical Need for Recapitalization

## Historical Sea Based Strategic Deterrent (SBS) Force Structure



- Current OHIO Class is reaching the end of its operational life**
  - Designed in 1970, commissioned between 1984 and 1997, and will begin to retire in 2027
  - Operational life already extended from 30 years to an unprecedented 42 years
- Lead ship COLUMBIA construction must commence in 2021 with rest of class (2-12) to follow**
  - Maintains fleet of 10 operational SSBNs through transition with moderate risk

### SSBN Force Structure:





# COLUMBIA Class Submarine Program

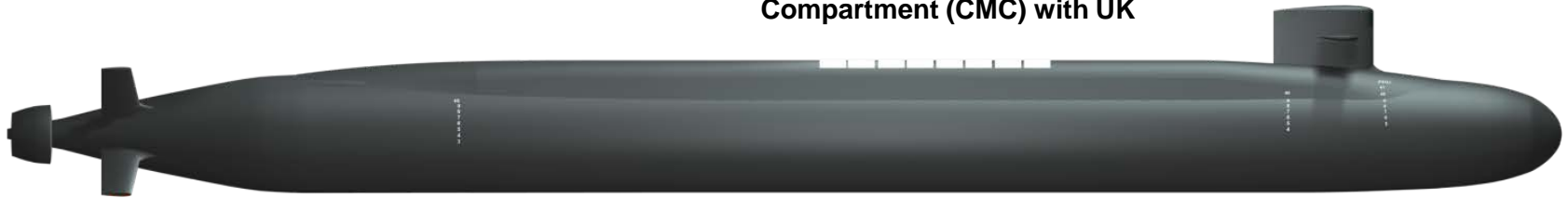
**Electric Drive**

**40+ year Reactor**

**16 Missile Tubes**

**Modular Construction**

**Common Missile  
Compartment (CMC) with UK**



### **Specifications:**

- **Length: 560 feet**
- **2 crews: 155 each**
- **42 year Service Life**
- **Armament:**
  - **D-5 Missile; MK48 Torpedo**

### ▪ **Builder:**

- **General Dynamics – Electric Boat, Groton, CT (Lead)**
- **Newport News Shipbuilding, Newport News, VA**
- **Construction work split**
  - Only nuclear capable U.S. Shipyards**
- **United Kingdom Partnership – CMC build**

### **Cost (FY 17)**

- **Average Procurement Unit Cost: \$7.18B (CY17\$)**
- **Total Program 1 to 2% of DoD budget**  
*(consistent with historical investment)*

**Today**

**2021**

**2028**

**2031**

**42 Year Service Life**

**Prototyping & Design**

**Construction**

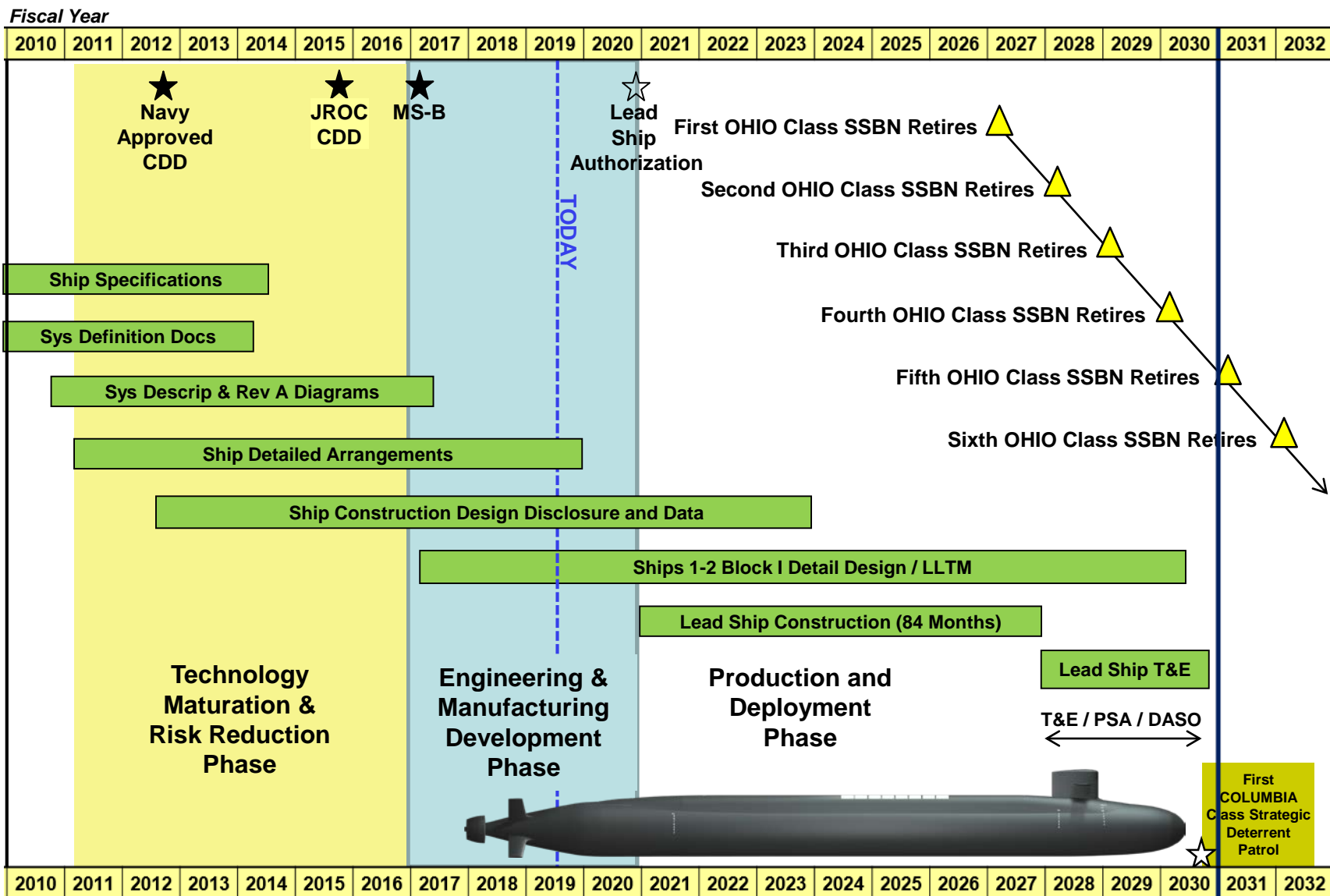
**Sea Trials**

**Operational**

**The Navy's #1 Priority requires industry support into the 2080s**



# COLUMBIA Class Schedule



# COLUMBIA Vision & Mission

## VISION

**12 by 42 with 70: Strategic Deterrence to Protect the Nation.**

## MISSION

**Design, build, test, and sustain the Nation's high quality, sea-based strategic deterrent on schedule within budget.**

