## **2024 Combined Naval Event**

### **Dominating in the Undersea Domain**



VADM Rob Gaucher Commander, U.S. Submarine Forces Commander, Allied Submarine Command





**Common Challenges** 



- Submarines are hard to find
- Mines are hard to detect and neutralize
- The ocean environment can make or break an operation
- We rely on our seabed infrastructure...and it's hard to defend
- Building submarines is expensive and takes a healthy industrial base
- Maintaining submarines is difficult and expensive
- Command and Control of multinational forces is hard
- GPS may not be there when we need it
- Autonomy isn't easy, and it relies on good sensing
- We have to be able to rescue submarines in distress



# **Commander's Priorities**

Warfighting and Warfighters

Safety

### **Warfighting**





- Get Ships out of Maintenance
- Increase Weapon Production
- Combat System Upgrades
- Maintain Undersea Overmatch

- Recruit and Keep Best Talent
- Provide World Class Training
- Care for Sailors and Families
- Improve Sailor Quality of Life & Service

- Improved Navigation System
- Better Periscope Sensors
- Restore Sub Rescue Systems
- Prevent:
  - Collision & Grounding
    Avail/Shipyard Hazards



# Sub Shipyards, AUKUS, & Posture for the Future

Foundation

#### **Posture for the Future**



- Unmanned deployments
- Defend the Seabed
- Attack the Seabed
- More exercises & development

- **Additive Manufacturing**
- In use today
- Clear Requirements
- Build repository of component models

#### AI/ML

- Auto-detection Algorithm
- Data Strategy
- Reduce admin with Large Language Models

#### Cross Domain C2

- Project Overmatch
- Buoys and Gliders
- Expand Underwater **Communications**

"We must think, act, and operate differently, leveraging wargaming and experimentation to integrate conventional capability with hybrid, unmanned, and disruptive technologies." – ADM Franchetti, CNO

**Commander, Submarine Forces** 

**UNCLASSIFIED** 



## Questions

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### **Apex Predators!**

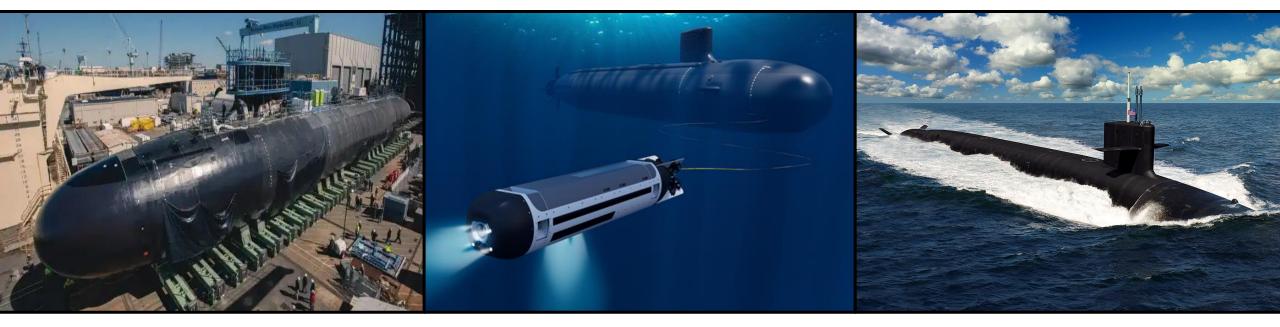


# **Priorities Around the World**

### **Availability**

#### **Unmanned/Hybrid**

### **Future Capability**



- Increasing Players on the Field
- Challenges of Submarine Industrial Base
- Looking at Industry for additional improvements

- Deliver on time and on cost
- Continuously Deploy UUVs
- Increase payload options and effectors

- COLUMBIA Class and SSN(X)
- AUKUS
- VPM
- Mines



# Submarine (SSN/SSGN) Force Overview



Commander, Submarine Forces



# **AUKUS** Overview

