



## **NAWCAD Science & Technology**

**25 October 2023** 

NAWCAD Industry Day







## **NAWCAD S&T AT-A-GLANCE**



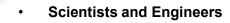
### "A Commitment to Deliver"

NAWCAD CTSO VISION: "... advancing superior technological alternatives to enhance warfighter capabilities ..."

> NAWCAD CTSO MISSION: "... to deliver emergent disruptive capabilities for sustained readiness and future warfighting capabilities ..."

> > CTSO = Chief Technology and Strategic Operations

**Enable technological superiority** 





- **Training, Upskilling, Education** 
  - Pipeline recruitment & development

Accelerate technology development & delivery









- Patuxent River & Webster Field, Lakehurst, and Orlando ~ State-of-the Art R&D Labs
- **Rapid Prototyping & Experimentation Venues** (Ground/Air Labs, ANTX, and FLEX)
- **Digital Range (LVC, JSE)**



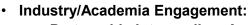


*Infrastructure* 



S&T

Workforce



- Partnership Intermediary Agreements (PIAs)
- **Educ. Partnership Agreements (EPAs)**
- **Cooperative Research and Development Agreements**
- Other Transaction Agreements (OTAs)
- **DoD Ecosystem**
- Strategic Rotations (e.g. Nat Labs, ONRG)
  - **Fleet Experiments**



**Transformational Technologies** 

**Current & Future Readiness** 



**Partnerships** 

- **Enabling Technologies**
- Near, mid, and far term warfighting capabilities







## **NAWCAD's Strategic Plan**



**READINESS** 

**CAPABILITIES** 

CAPACITY

**SAILORS** 

Date-Venior: 2023-07-05/00



NAWC enables <u>Integrated</u> <u>Warfighting Capabilities...</u>

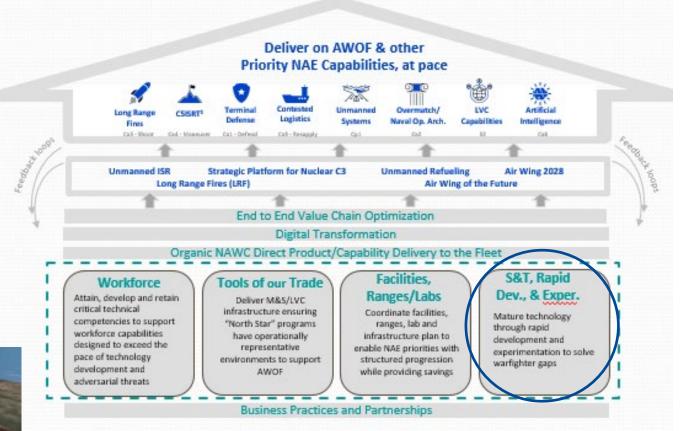
Informed by the NIF 4+4

...& North Star Program objectives...

...which will require NAWC to transform our business...

...and to mature key enabling capabilities...





S&T, Rapid Development, & Experimentation "Room"

Accelerate Technology
Development And
Deliver Capability

Keep pace with rapid technological advancement

To maintain

Enduring Advantage

## **Navy Priorities and Alignment**

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- Strategic Alignment
- Prioritization
- Maximize Collaboration & Partnerships



 Future Fight: Accelerate discovery, development and delivery of relevant S&T



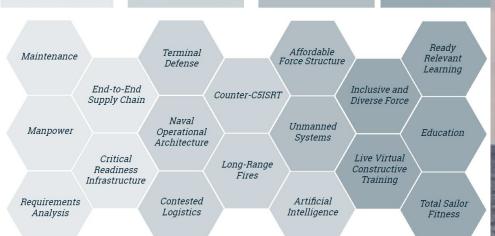
### **NAVIGATION PLAN PRIORITIES AND OBJECTIVES**

**READINESS** 

**CAPABILITIES** 

CAPACITY

SAILORS



#### **READINESS & SUSTAINMENT**

Counter-C5ISRT
RESILIENT COMMS &
NFTWORKS
LONG RANGE FIRES

CONTESTED LOGISTICS

ANTI-SUBMARINE WAFARE





# NAWCAD S&T Strategic Initiative Portfolios



#### **NAWCAD S&T Focus Area**

Emergent
Technologies
to Enable
Transformational
Capabilities

- Intelligent Autonomous
   Systems & Trusted Al
- SecureCommunications &Future Networks
- Cyber
- Ouantum
- Hypersonic Air Systems

Advanced
Mission
Capability
Improvement
Areas



- Readiness & Sustainment
- Contested Logistics

Capability
Enhancements
in Domain
Technology
Areas

- Human Systems & Integration
- Avionics, Sensors, and Electronic Warfare
- Air Vehicle
- Propulsion & Power
- Air Ship Integration
- Advanced Training Systems

Other Enabler Initiatives

- Process Enablers
- Rapid Prototyping and Experimentation
- Air Traffic Control & Combat Systems
- Live Virtual Constructive























