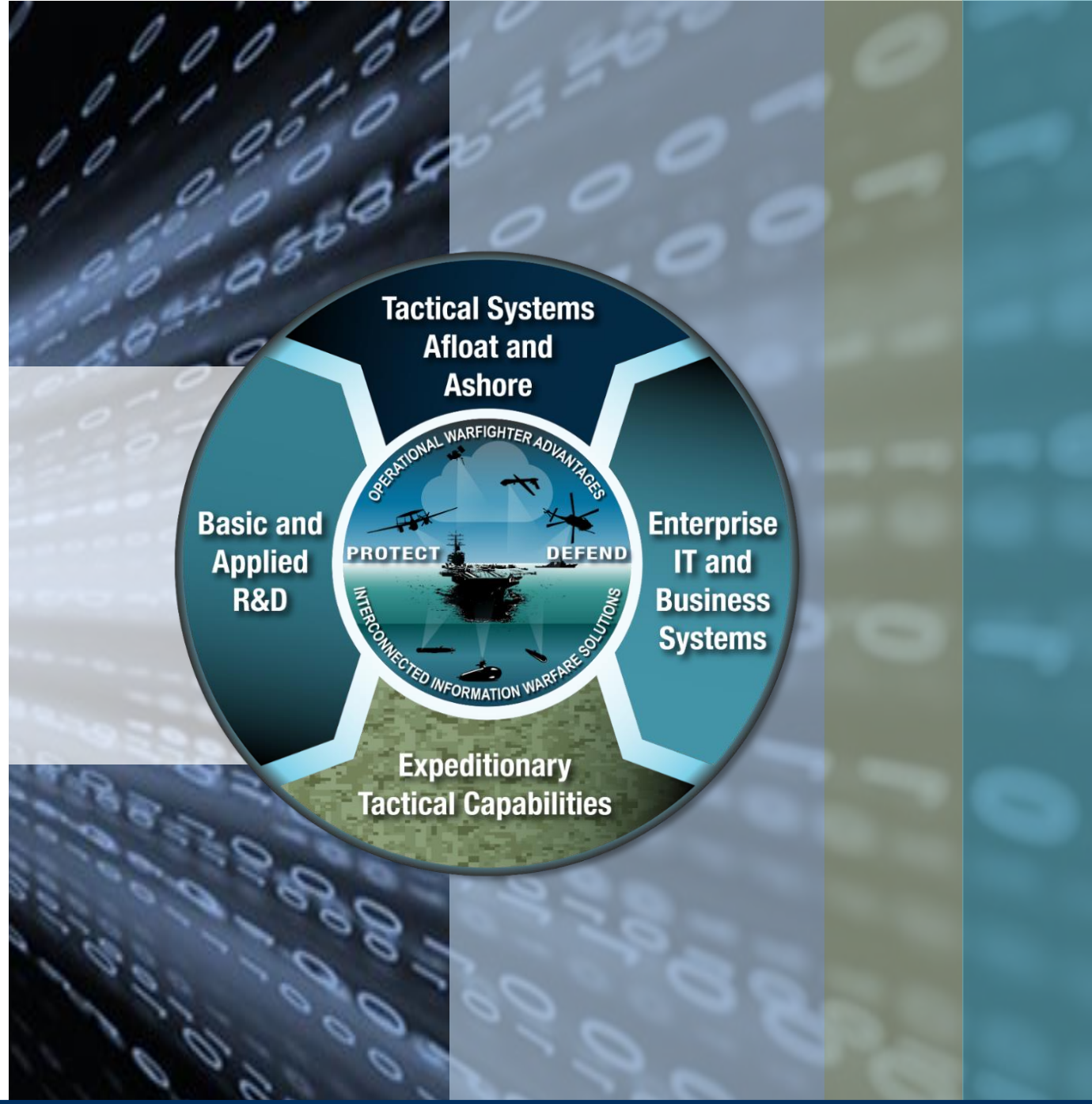
Naval Information Warfare Center
ATLANTIC

Naval Information Warfare Center Atlantic

Speed to Capability

69th Strategic Business Industry Outreach Initiative (SBIOI) Symposium
24 October 2024

Mr. Greg Hays, SSTM
NIWC Atlantic
DSE Rapid Prototyping & Experimentation



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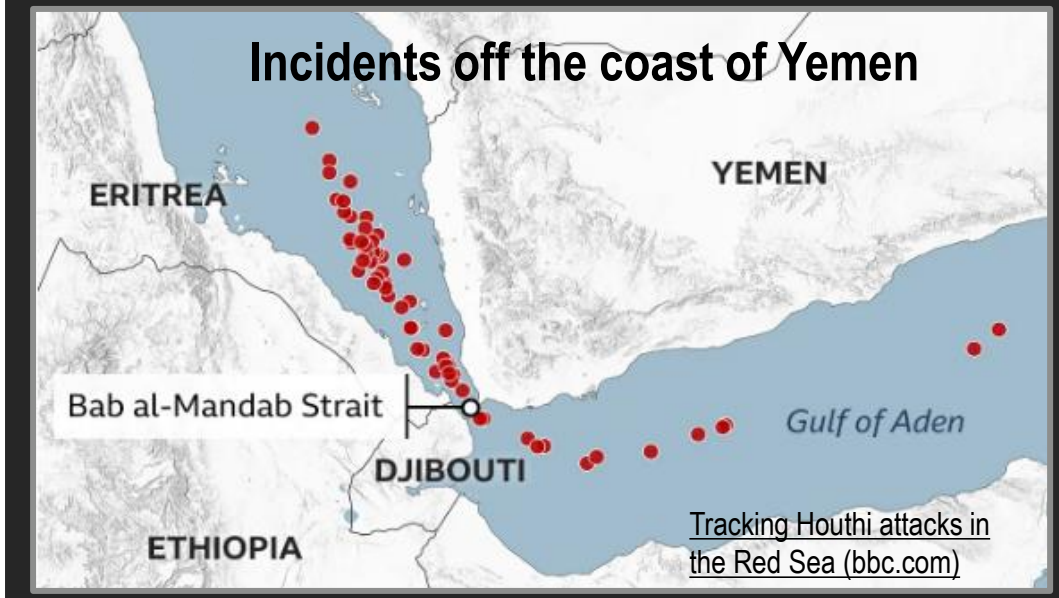
Our Current Environment Demands Urgency

- Changing character of war
- Cheaper more accessible technology
- PRC, multi-domain/multi-axis threat
- Growing nuclear arsenal
- Active battlefields from Ukraine to the Middle East
- Terrorism remains a persistent condition



China on path of being ready to invade Taiwan by 2027

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NIWC Atlantic poised to support our Nation's warfighters

Executing National and Naval Strategies

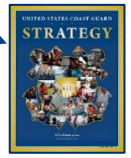
2022 National Security Strategy

2022 National Defense Strategy

SECNAV One Navy-Marine Corps Team

SECNAV Advancing DON Priorities

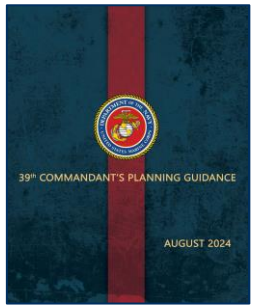
USCG

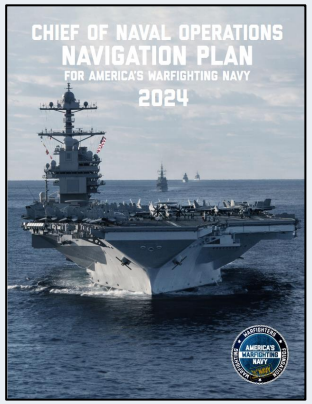


America's Warfighting Navy

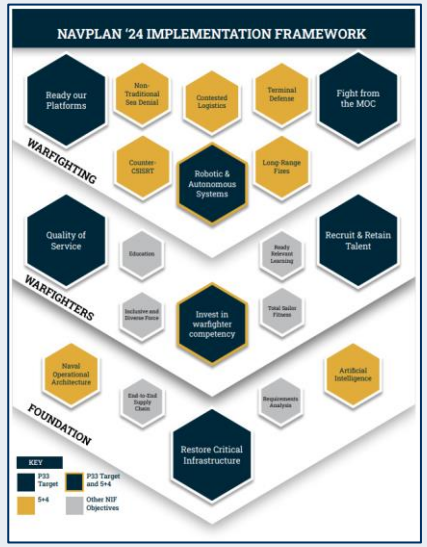
Vision:
Win the information War

39th Commandant's Planning Guidance
Force Design





Our North Star: Readiness for Sustained High-End Joint and Combined Combat by 2027



Unifying Vision **CNO Navigation Plan 2024 (navy.mil)** CNO NAVPLAN 2024

NIWC Atlantic Mission: Conduct research, development, prototyping, engineering, test and evaluation, installation, and sustainment of **integrated information warfare capabilities and services across all warfighting domains** with an emphasis on Expeditionary Tactical Capabilities & Enterprise IT and Business Systems in order to drive innovation and warfighter information advantage.

Mission: Conduct research, development, prototyping, engineering, test and evaluation, installation, and sustainment of integrated information warfare capabilities and services across all warfighting domains with an emphasis on Expeditionary Tactical Capabilities & Enterprise IT and Business Systems in order to drive innovation and warfighter information advantage.

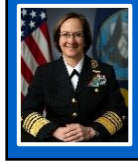
LOE 1: Deliver Naval Information Advantage and Warfighter Readiness — *WARFIGHTING*	1. Meet stakeholder needs delivering products & services	2. Drive work toward warfighter priorities	3. Drive future and emerging capabilities	Be the technical leader in warfighter information advantage.
LOE 2: Optimize Our Operations — *FOUNDATIONS*	1. Ensure competitive edge via managed costs	2. Quality acquisition at the speed of need	3. Process co-ownership and end-user focus	Effective internal ops that drive value through increasing speed and agility.
LOE 3: Adapting Workforce and Culture — *WARFIGHTERS*	1. Engaged workforce	2. Skilled and adaptable workforce	3. Warfighter focused	Engaged, skilled workforce with a warfighter focused ready culture.

Vision: *Win the information War.*

We are a Navy Warfare Center

Principal research, development, test & evaluation assessment activities

Secretary of the Navy, Carlos Del Toro



Chief of Naval Operations
Admiral Lisa Franchetti

Assistant Secretary of the Navy for Research Development and Acquisition
Nickolas H. Guertin

Commandant of Marine Corps
General Eric M. Smith

NAVWAR
Naval Information Warfare Systems Command
Commander
Rear Admiral
Seiko Okano

NAVSEA
Naval Sea Systems Command

NAVAIR
Naval Air Systems Command

NAVSUP
Naval Supply Systems Command

NAVFAC
Naval Facilities Engineering Systems Command

ONR
Office of Naval Research

MARCORSYSCOM
Marine Corps Systems Command

Naval Information Warfare Center Pacific

Naval Information Warfare Center Atlantic

CAPT Matthew O'Neal
Commanding Officer

Peter Reddy, SES
Executive Director

Role of the Warfare Centers

- Make naval technical programs successful
- Provide a bridge between the technical community and the warfighter
- Determine and develop capabilities for the fleet
- Verify the quality, safety, and effectiveness of platforms and systems
- Design, develop, and field solutions for urgent operational fleet needs

Who We Are

Addressing the Warfighter's top technology challenges

We are where America's naval forces are. In the theater of operations… forward-based, forward-deployed and globally positioned with America's warfighters.

U.S.

- ★ **Charleston, SC** *(CO)*
- ★ **Naval District Washington**
  - Quantico (USMC focus)
- ★ **Hampton Roads, VA** *(XO)*
- ★ **New Orleans, LA** *(OIC)*
  - Tampa, FL (SOCOM focus)
  - Fayetteville, NC
  - Pax River, MD
  - Kings Bay, GA
  - Mayport, FL
  - Groton, CT

Overseas

- Stuttgart, Germany
- Naples, Italy *(OIC)*
- Manama, Bahrain *(OIC)*
- Rota, Spain
- Okinawa, Japan

4,993 Total Workforce

4,865 Civilian
128 Military
~9,000 Contractors

Total Facilities

113 bldgs., 2.4M SF

Navy Working Capital Fund (NWCF) Business

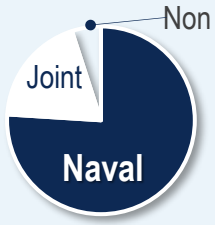
- No Congressional appropriations
- Provides the agility to wane or surge as required for ongoing and emergent needs

$9.3B
U.S. Economic Impact

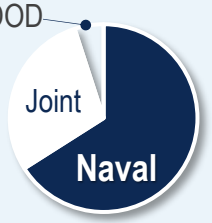
$4.53B
Total Obligation Authority

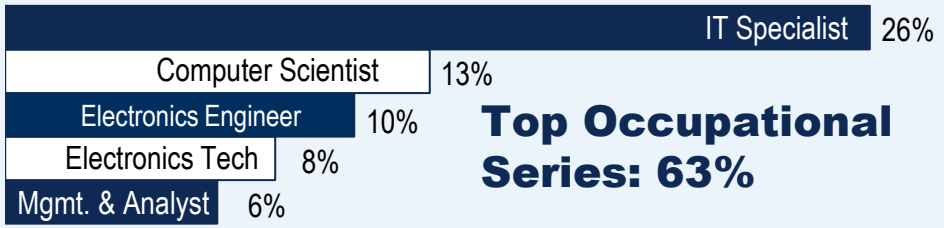
50% (265)
Small Businesses, 89% Competition

Workforce FTEs



New Orders





Top Occupational Series: 63%

Major Sponsors: 69%
NAVWAR & PEOs
MARCORSYSCOM
Defense Health Agency
NAVSEA & PEOs
DARPA

22 SSTMs*
1% PhDs
27% Masters
45% Bachelors
197 New Professionals
93 Interns

41% Prior Military
15% Disabled Veterans

*Senior Scientific Technical Managers, advancing the scientific/technical areas for our Naval Information Warfare mission

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Senior Civilian Leadership

Advancing the Scientific/Technical Areas for our Naval IW Warfare Mission

Executive Director (SES)
Mr. P. Reddy, SES, SSTM

Executive for Network Centric Development and Integration/TD
Mr. A. Mansfield, SL

Deputy Executive Director
Mr. K. Charlow, SSTM

Fleet C4I and Readiness Department
Mr. G. Lancaster, SSTM

Shore C2ISR and Integration Department
Mr. B. Carter, SSTM

Expeditionary Warfare Department
Ms. A. Landreth, SSTM

Enterprise Systems Department
Mr. K. Allen, SSTM

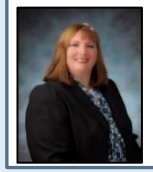
7.0 Science and Technology Department
Dr. S. Huerth, SSTM, CTO

4.0 Logistics & Life Cycle Engineering
Ms. J. Shauger, SSTM

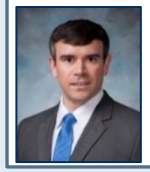
5.0 Engineering
Mr. E. Fry, SSTM, CHENG

5.2 Systems of Systems Engineering
Mr. D. Smoak, SSTM

5.4 Software Engineering
Ms. K. Murphy, SSTM



5.5 Communications & Networks Engineering
Ms. A. Rideout, SSTM



5.6 Data Science & Analytics
Mr. R. Keisler, SSTM

DSE Electro-magnetic Spectrum Operations (EMSO)
Mr. R. Taylor, SSTM

Vacant
5.9 Cybersecurity & Mission Assurance Engineering (SSTM)

Vacant
DSE Software Modernization and Innovation (SSTM)

Vacant
DSE Quantum Information Warfare (SSTM)

DSE for Assured Communications
Mr. C. Hunt, SSTM

DSE C4ISR Mission Engineering and Analytics
Ms. A Miller, SSTM

DSE for Decision Intelligence
Mr. A. Tyson, SSTM

DSE Rapid Prototyping & Experimentation
Mr. G Hays, SSTM

DSE Autonomous C4ISR
Dr. L. Overbey, SSTM

DSE Cyber Capability Development
Mr. M. Bartgis, SSTM

PEO DES Technical Director
Mr. J. Fennelli, SSTM

PEO MLB Technical Director
Mr. B. Wheler, SSTM

Senior Scientific Technical Manager (SSTM)
Distinguished Scientist/Engineer DSE

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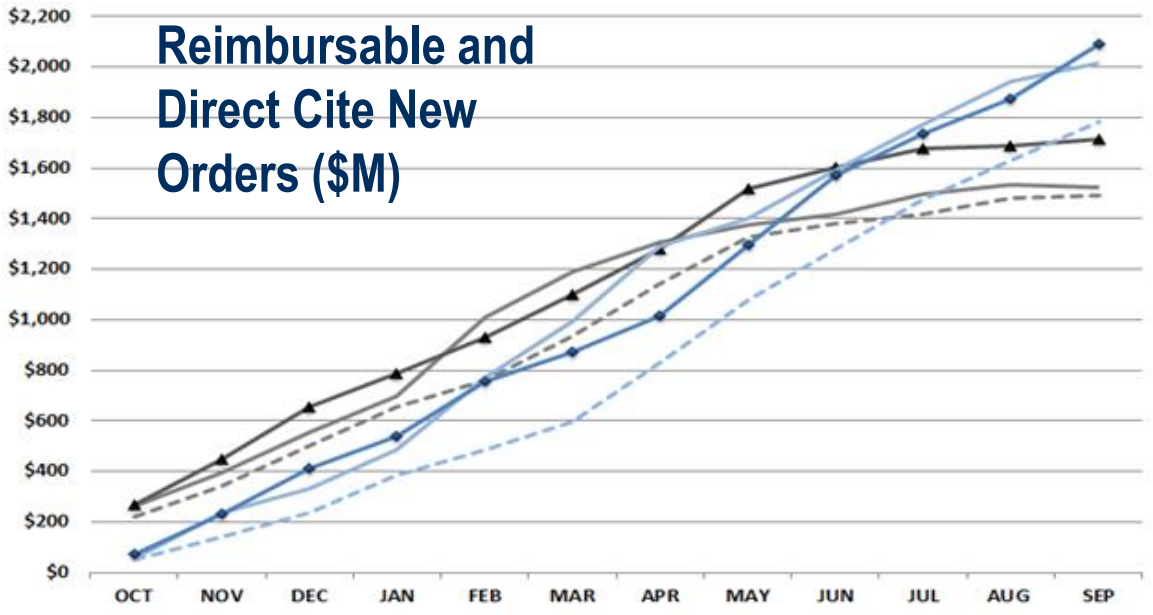
FY23 New Orders vs. FY24 Demand Signal

Reimbursable and Direct Cite New Orders ($M)



FY22 Reimbursable
FY22 Direct Cite
FY23 Reimbursable
FY23 Direct Cite
FY24 Reimbursable
FY24 Direct Cite

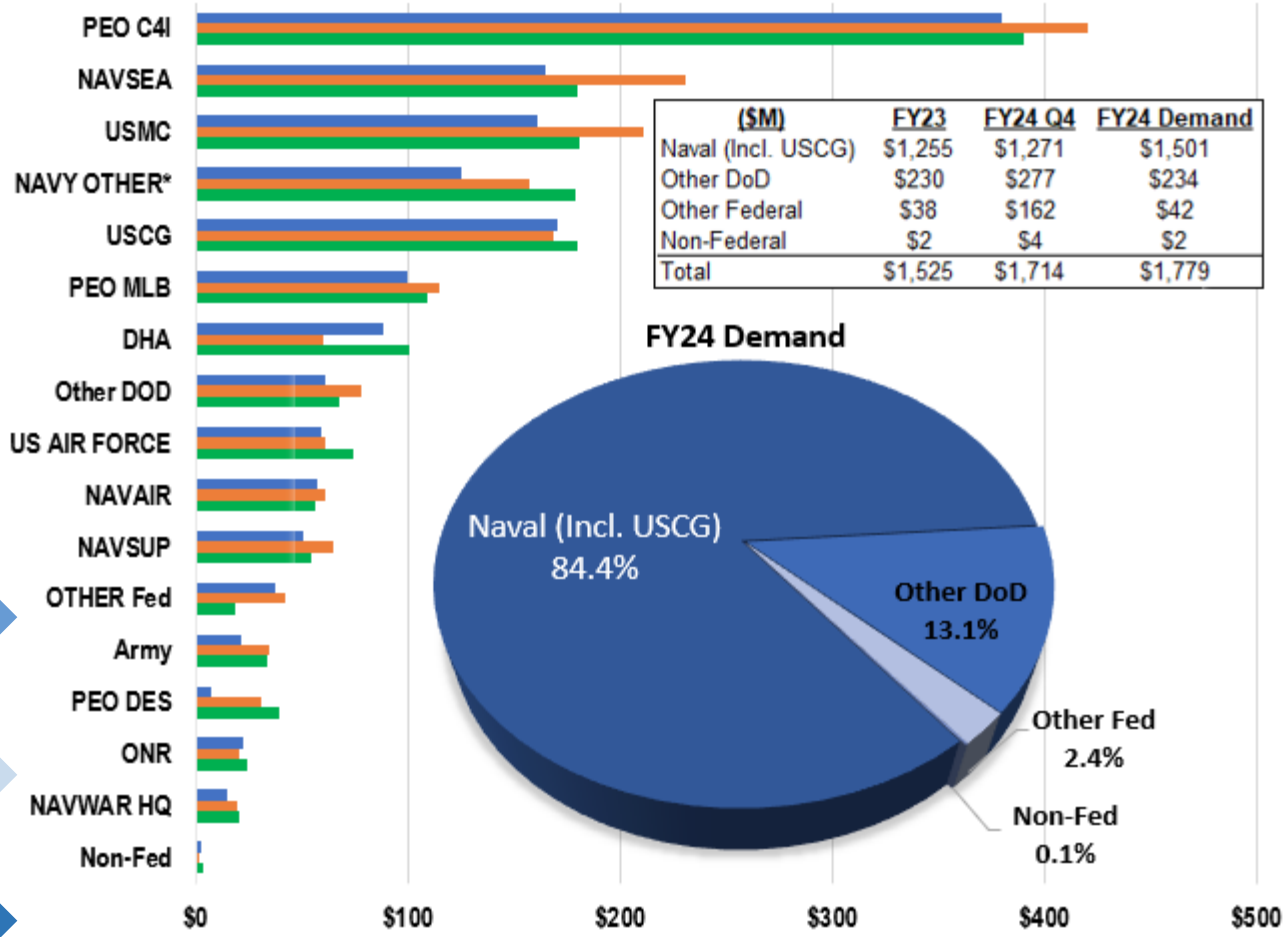
OTHER DoD:

- **DHA:** Cyber Security, Security Eng, Infrastructure Eng, Readiness Eng., Risk Mgmt
- **Army:** Force Protection Solutions, Software Defined Radio, Enterprise Comm Infrastructure
- **Air Force:** Air Traffic Control, Modern Vehicle Fielding, Integrated National Intel Systems
- **DARPA:** JANUS, RACER, Messina/Carcosa
- **SOCOM:** Integrated National INTEL Systems, Special Ops Communications
- **DIA**-Joint Force Mission Systems

OTHER FED:
Secret Service: Presidential Joint Systems
National Science Foundation: Polar Programs

NON-FED:
Various Universities: Cyber Security Services Provider
Communications Companies: Unified Comms Certification

Reimbursable Funding by Customer ($M)



($M)	FY23	FY24 Q4	FY24 Demand
Naval (Incl. USCG)	$1,255	$1,271	$1,501
Other DoD	$230	$277	$234
Other Federal	$38	$162	$42
Non-Federal	$2	$4	$2
Total	$1,525	$1,714	$1,779

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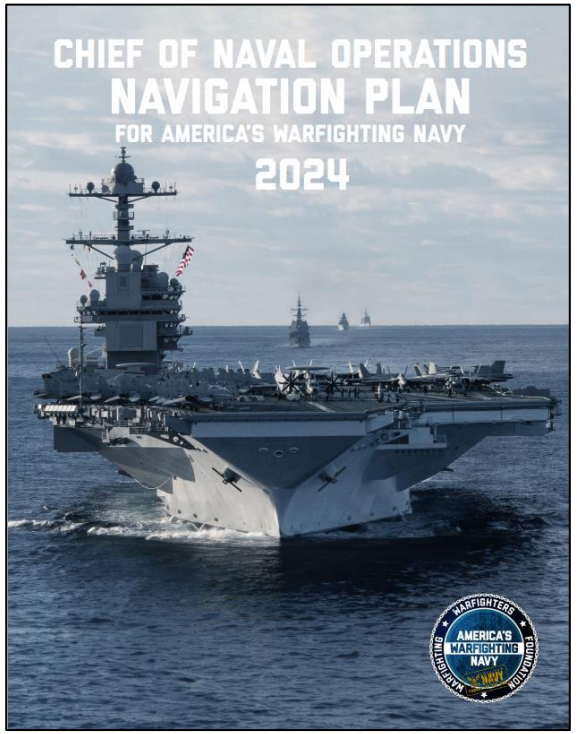
Success is not achievable without readiness

Resources
CNO Navigation Plan 2024 (navy.mil)

Admiral Lisa Franchetti
NAVPLAN focuses on readiness, capability, and capacity … so the Navy can meet our missions in all phases of competition.



Two Strategic Ends

- **Readiness for conflict with the PRC by 2027**
  - Enhancing long-term advantage

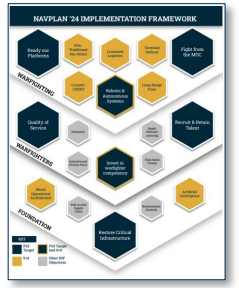
Two Central Ways

- Implement Project 33
  - Expand the Navy's contribution to the Joint Warfighting ecosystem.

Project 33: How the Navy will make strategic gains in the fastest time with resources we influence by 2027.

5+4 Core Navy initiatives/targeted investments to balance capability at the right time, scale and cost.

Navy Implementation Framework (NIF)



5 Key Capabilities

- **Long-Range Fires** — how we **shoot**
- **Counter-C5ISRT** — how we **maneuver**
- **Terminal Defense** — how we **defend**
- **Contested Logistics** — how we **sustain**
- **Non-Traditional Sea Denial** — how we **scale**

4 Key Enablers

- **Live, Virtual, and Constructive** — how we **train**
- **Navy Operational Architecture** — how we **communicate**
- **Artificial Intelligence** — how we **outthink**
- **Robotic Autonomous Systems** — how we **innovate**

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Project 33: How the Navy will make strategic gains in the fastest time with resources we influence by 2027.

OUR NORTH STAR: Readiness for Sustained High-End Joint and Combined Combat by 2027

Seven Targets

- **Ready the Fleet**
  Achieve and sustain 80% combat surge ready ships, aircraft, and submarines.
- **Operationalize robotic autonomous systems**
  Move proven systems into the hands of the warfighters.
- **Fight by Maritime Operations Centers**
  Resource our MOCs as the weapons systems they are.
- **Recruit and retain talent**
  Man deployers to 95% of billets authorized, reach 100% recruiting shipping fill.
- **Deliver quality of service**
  Improve unaccompanied housing, eliminate required living on homeport ships.
- **Invest in high-end training**
  Raise warfighter competency with Live, Virtual, Constructive scenarios.
- **Restore critical infrastructure**
  Prioritize infrastructure directly supporting operational readiness in the Pacific

We hit ALL targets

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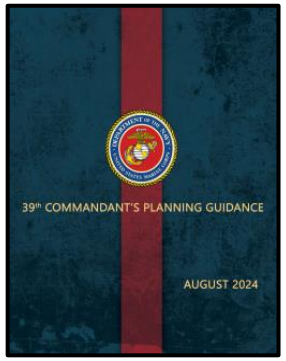
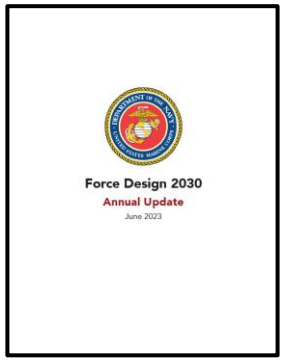
Commandant of Marine Corps

General Eric Smith
Planning Guidance focuses on specific challenges requiring near-term action for the most complex and dangerous threats.





39th Commandant's Planning strategic direction for the Marine Corps.

Force Design 2030 remains the aim point and focuses on specific challenges requiring near-term action.

Planning Guidance so we can fight and win today and set conditions to win in the future.

- Balancing Modernization with Current Operational requirements
- Naval Integration and Organic Mobility
- Critical Capabilities and Future Investments
  - Contested Logistics and Littoral Mobility
  - Enabling Joint & Coalition C2 & Kill Webs
  - Long-Range Precision Fires

Force Design the vehicle to remain lethal on any battlefield while optimized against the pacing challenge. We are in perhaps the most difficult phase – implementation and we can not slow down.

- Divest to Invest
- $12B re-allocation
- M&S/Wargaming/Exp
- Stand In Force
- Naval Integration
- IOC 2023/FOC 2030

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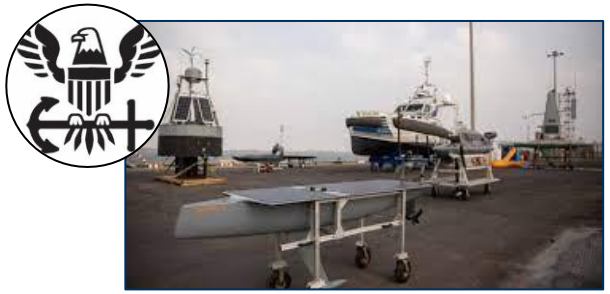
Accelerating via Rapid Prototyping and Experimentation

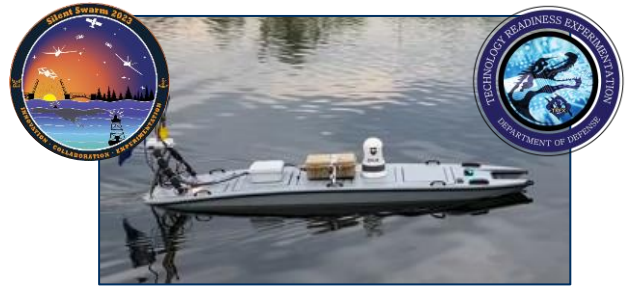
Developing, adopting, integrating, and testing capabilities for manned, unmanned, and autonomous missions in experiments, exercises, and toward operationalization.

- Technical areas
  - Data repositories and architectures
  - Command and control
  - Comms and networks
  - Computer vision
  - Mission autonomy
  - RF/Cyber/EW
  - Operational Experimentation
  - System of Systems Interoperability

NAVCENT Task Force 59 (TF-59)



Disruptive Capabilities Office (DCO) / OPNAV N9B



Silent Swarm / Southern Lightning

Hybrid Fleet South

Mission Autonomy Proving Ground

MADIS

System of Systems Naval Integration Experiment (SoSNIE)

PMS 420 C3

NAVEUR TF-66

NextGen Unmanned Operations Center

DARPA Autonomy

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Questions