

Naval Information
Warfare Center



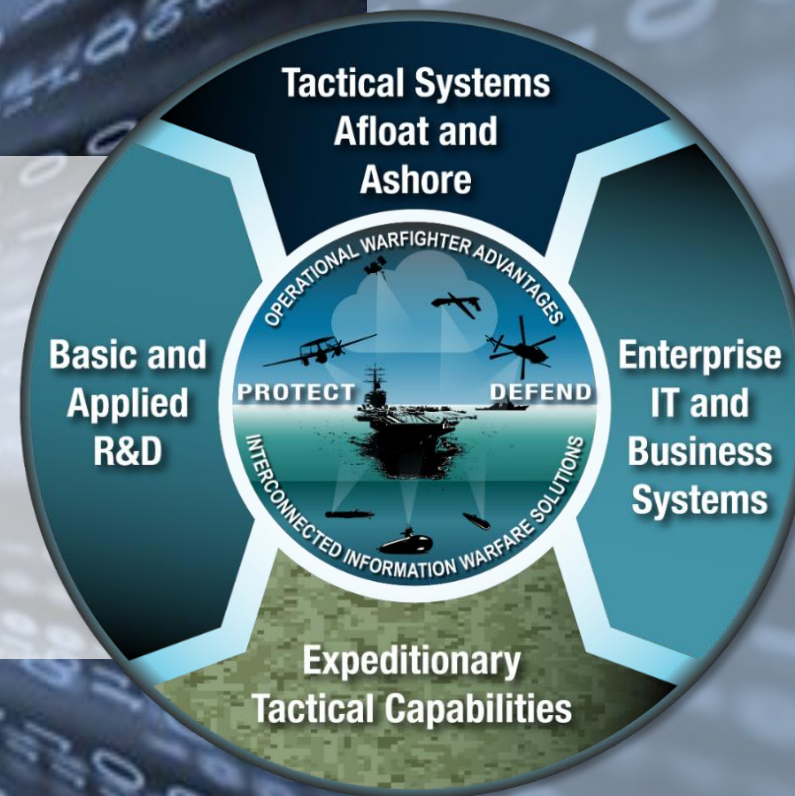
ATLANTIC

Naval Information Warfare Center Atlantic **Command Review and Our Strategic Framework**

67th Small Business and Industry Outreach
Initiative (SBIOTI) Symposium

19 March 2023

CAPT Nicole K. Nigro
Commanding Officer



We address the Warfighter's top technology challenges through research, development, delivery and sustainment of the very best IW solutions.





WIN THE INFORMATION WAR

Cyber Secure Decision Intelligence Focus — to ensure a competitive edge over our adversaries.

- Command and Control systems
- Communication systems
- Networking systems
- Cyber operations
- Intelligence, surveillance, reconnaissance
- Business systems
- Information security



FY23 At-a-Glance — government expertise to drive innovation and warfighter information advantage.

We are where America's naval forces are.



We are in the theater of operations... forward-based, forward-deployed and globally positioned with America's warfighters.

U.S.

- ★ Charleston, SC (CO)
- ★ National Capital Region
- ★ Hampton Roads, VA (XO and Officer in charge (OIC))
- ★ 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

117 bldgs., 2.4M SF

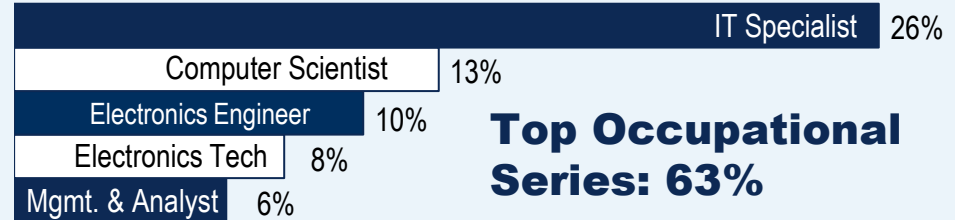
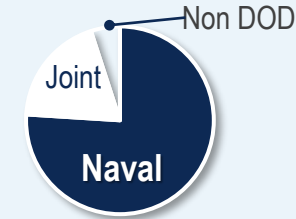
\$9.3B
U.S. Economic Impact

\$4.53B
Total Obligation Authority

49.5% (265)
Small Businesses,
89% Competition

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

Workforce FTEs



Top Occupational Series: 63%

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

41% Prior Military
15% Disabled Veterans

Business Model — Navy Working Capital Fund (NWCF)

To meet our Nation's ongoing and emergent needs

▼ NWCF

- **Is not funded via Congressional appropriations**
- **Operate like non-profit business** with a break even goal
- **Reimbursed by customers for expenses** to deliver services and products

▼ Benefits of NWCF

- Provides the agility to **wane or surge** as required for ongoing and emergent needs
- Continuously **pursue high risk tech solutions** enabling Naval IW superiority
- Improves cost awareness, **promotes cost consciousness**

We Support ASN (RDA)
Assistant Secretary of the Navy for
Research Development and Acquisition

We Serve PEOs



PEO Command, Control, Communications, Computers, Intelligence



PEO Manpower, Logistics and Business Solutions



PEO Digital and Enterprise Services



PEO Land Systems








NAVWAR
Project Overmatch



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

Delivering within the full range of Naval & Joint Operations

Departments	FY23	Major Sponsors	
 <p>Fleet C4I and Readiness Greg Lancaster, SSTM</p>	<p>1,508 FTEs 39 IPTs 157 Projects</p>	<ul style="list-style-type: none"> • PEO C4I <ul style="list-style-type: none"> – PMW 120 – PMW 130 – PMW 150 – PMW 160 – PMW 170 	<ul style="list-style-type: none"> – PMW 740 – PMW 750/760 – PMW 770 – PMW 790 • FRD • NAVSEA • NAVAIR • USCG • Fleet Cyber • Numbered Fleets
 <p>Expeditionary Warfare Ashlee Landreth, SSTM</p>	<p>657 FTEs 20 IPTs 73 Projects</p>	<ul style="list-style-type: none"> • Marine Corps Systems Command • PEO Land Systems • Marine Corps Warfighting Lab 	<ul style="list-style-type: none"> • Special Operations Forces Acquisition Technology Logistics • Other Joint and DOD sponsors
 <p>Enterprise Systems Kevin Allen, SSTM</p>	<p>603 FTEs 15 IPTs 67 Projects</p>	<ul style="list-style-type: none"> • PEO MLB Portfolios <ul style="list-style-type: none"> – My Navy HR IT Solutions Services – Navy ERP Financial IT Services – Logistics IT Services – Naval Applications and Business Services – Ready Relevant Learning • Data Center & Cloud Hosting Services 	<ul style="list-style-type: none"> • PEO DES Portfolios <ul style="list-style-type: none"> – Cyber and Operational Services. – Platform Application Services – Infrastructure Services – Digital Workplace Services – End User Services – Special IT Services – CSBO, COO, and TD Support • NNWC • DISA • Other Navy Business and Enterprise systems sponsors
 <p>Shore C2ISR & Integration Bruce Carter, SSTM</p>	<p>746 FTEs 29 IPTs 125 Projects</p>	<ul style="list-style-type: none"> • Defense Health Agency • Commander, Navy Installations Command • Naval Air Systems Command 	<ul style="list-style-type: none"> • Department of Homeland Security • Marine Corps Systems Command
 <p>Science and Technology Dr. Suzanne Huerth, SSTM</p>	<p>201 FTEs 4 IPTs 207 Projects</p>	<ul style="list-style-type: none"> • Defense Advanced Research Projects Agency (DARPA) • Office of Naval Research (ONR) • Navy Tactical Exploitation of National Capabilities (TENCAP) 	<ul style="list-style-type: none"> • Office of the Secretary of Defense (OSD) • USN Fleet Readiness • 4th Fleet, NAVSOUTH

Warfighter Mindset

The Time for Action is NOW

Beijing steps up military pressure on Taiwan after the U.S. and China announce talks



The Middle East's arc of conflict is spiraling



AMERICA'S WARFIGHTING NAVY

WHO WE ARE **WHAT WE DO** **WHERE WE ARE GOING**

We are the most powerful Navy in the world

Preserve the Peace
Respond in Crisis
Win Decisively in War

We will put more ready players on the field

Deliver Decisive Combat Power

WARFIGHTING

Strengthen the Navy Team

WARFIGHTERS

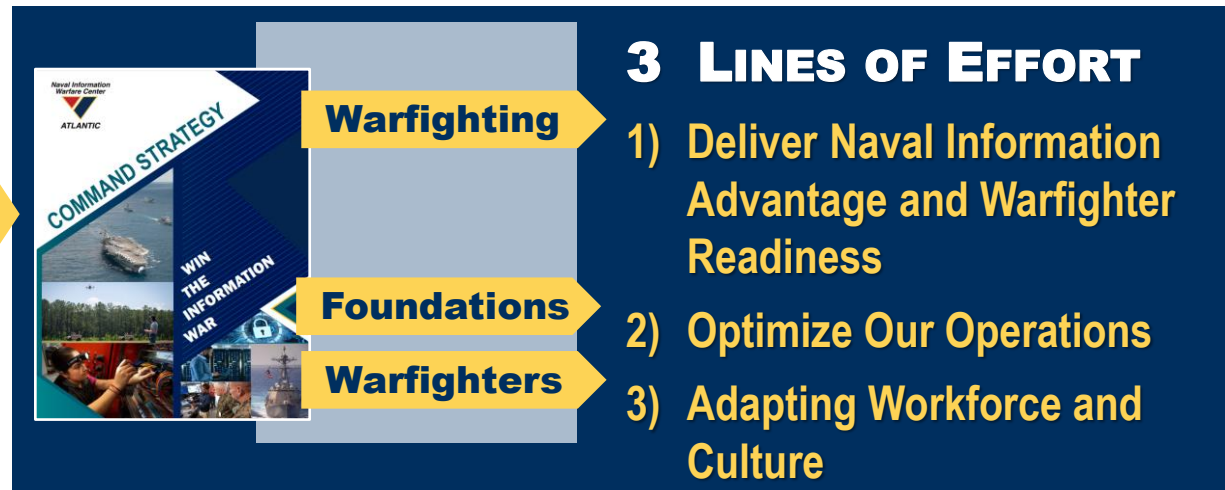
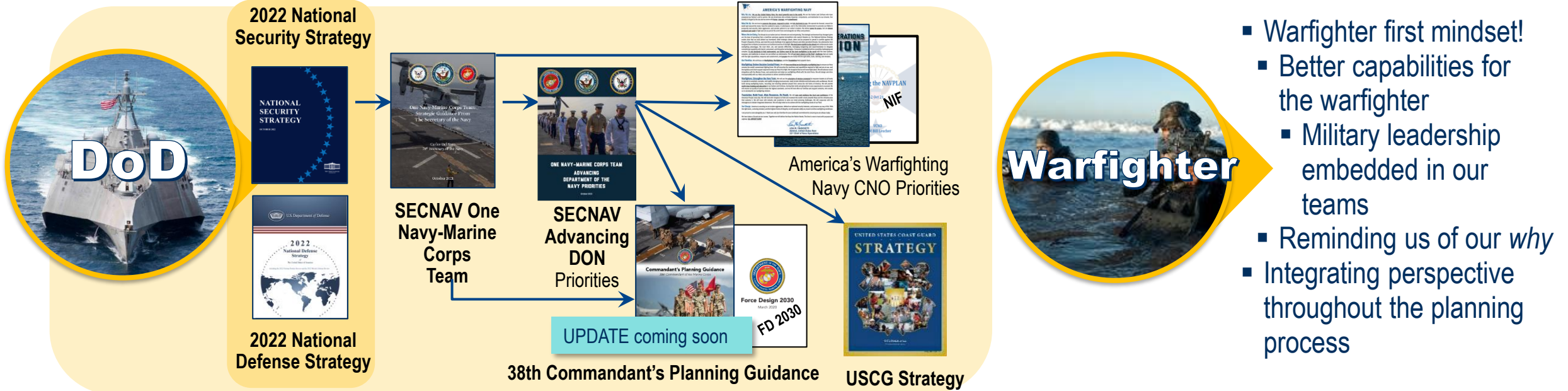
Build Trust, Align Resources, Be Ready

FOUNDATION

America is Counting on Us...
ALL AHEAD FLANK!

Perspectives that Shaped Our Strategy

DoD — Warfighter — Workforce





GET REAL: The threats to our nation are real and growing

- We must be postured and ready to support the Naval and Joint warfighters to fight and win
- We must think and act differently and deliver innovative and reliable IW capabilities where and when the warfighter needs them



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.



GET BETTER: The warfighters are counting on us.

- We want you, our most valuable assets to understand why we are changing, so that you can support and help us improve
- We must operate as a team with high levels of integrity in order to deliver world class solutions and sustain the warfighting advantages for our Nation

Co-Chairs: Kevin Charlow and CMC Matthew Keller

LOE 1: Deliver Naval Information Advantage and Warfighter Readiness

Be the technical leader in warfighter information advantage.

WARFIGHTING

- Outpace, outmaneuver, and overmatch our adversaries
- Deliver the capabilities required to fight tonight

- Decision making
- Strategic Growth
- Investments



Meeting the readiness and emerging needs of the warfighter



End State: *Win the information War.*

Co-Chairs: Greg Lancaster and Jen Shauger

LOE 2: Optimize Our Operations

Effective internal operations that drive value through increasing speed and agility.

FOUNDATIONS

- Build trust, align resources, and be ready
- Workforce empowered to innovate and improve the way we operate

- Remove internal barriers
 - Operate with urgency
 - Proactively collaborate
- 
- Optimal service to the warfighter
 - Quickly maneuvering to support critical needs



End State: *Win the information War.*

Co-Chairs: Erick Fry and Ashlee Landreth

LOE 3: Adapting Workforce and Culture

Engaged, skilled workforce with a warfighter focused ready culture.

WARFIGHTERS

- NIWC Atlantic team operating in complex and changing environments
- Cultivating the skills, behaviors, and values to meet the warfighters needs

- Improve the welfare of the workforce
- Increase the proficiency of workforce skills
- Increase focus on warfighting empathy



Improve the delivery of capabilities required for warfighter success



End State: *Win the information War.*

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.**

NIWC Atlantic Guiding Principles

Focus on Mission and Warfighter

- Everything starts and ends with the warfighter.
- We must deliver superior products, services, and capabilities that provide information advantage.

Embody Integrity

- We do the right thing at all times.
- We are trustworthy, and we meet our commitments.
- We are responsible and we are honest.

Champion Service

- We serve our customers by being the experts they need.
- We serve each other through our communication and shared responsibilities.

Enable Teamwork

- We team with the warfighter, our customers and our coworkers.
- We honor the diverse perspectives, roles and contributions of our team.

Embrace Ownership and Empowerment

- All team members are mutually accountable for results.
- We hold ourselves to high standards, and we value and trust our team.

Department of the Navy Core Values: HONOR ★ COURAGE ★ COMMITMENT

Technology Strategy & Technology Focus Areas (TFAs) — to maintain tactical superiority and respond effectively to unforeseen challenges.

Technology Strategy and TFA analysis **drives work acceptance and lab/facility infrastructure allocations and tools.**



TFAs to Achieve Technology Goals



Artificial Intelligence Provide warfighters with analytics-driven, data-informed, and technology-empowered capabilities to drive decision advantages and optimal mission outcomes.



Assured Communications Addresses the demand for resilient, and sometimes covert, wired and wireless communications in degraded and/or denied environments.



Cloud Computing IT modernization and digital transformation for resilient infrastructure, platform and software services.



Cybersecurity Provides protection from unauthorized use of and/or defends electronic data, hardware, software from disruption or of the services they provide.



DevSecOps Refers to replacing siloed Development, Security and Operations to create multidisciplinary teams that collaborate with shared and efficient practices and tools.



Mobility Provide Wireless Technology and enterprise access for the warfighter to engage with a mobile environment and applications, anytime, anyplace.



Model-Based Systems Engineering (MBSE) Technologies used to support the development, mgmt. and application of virtual constructs of varying fidelity across the spectrum of systems engineering.

Partnerships — to create advanced solutions for some of our nation’s most complex problems.



<https://www.niwcatlantic.navy.mil/Outreach/Palmetto-Tech-Bridge/>

Palmetto Tech Bridge, an ONR and NavalX partnership,

developing dual-use solutions to meet

both national defense needs and enhance the region’s economic strength with innovative commercial products.

Focus areas

- Assured Communications
- Cybersecurity
- Applied AI/ML
- Autonomous Decision Aids & Unmanned Systems
- ISR systems
- Live, Virtual, Constructive & Synthetic environment tech.

Key products

- Partnership Intermediary Agreements (PIAs)
- Edu. Partnership Agreements (EPAs)
- Prize Challenges
- Licensing Agreements
- Tech Talks & STEM Outreach
- Problem Curation/Innovation Collisions



<https://www.theiwrp.org>

NAVWAR established IWRP to streamline the acquisition process to rapidly advance IW technologies to the Warfighter.



Focused on prototypes that have to do with Information Warfare Research and with Navy/Marine Corps work.

\$1B Ceiling

\$1.7B awarded since inception

164 Prototype and 22 Production Awards made to date

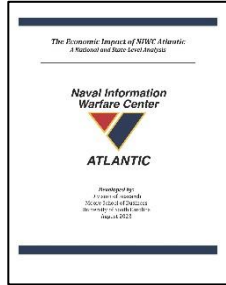


Memorandum of agreement signed 13 March 2023
To advance technology solutions in fields like electromagnetic warfare, spectrum operations, cybersecurity and autonomous systems.

The Economic Impact of NIWC Atlantic

A National and State-Level Analysis | August 2023 report utilizing FY22 data

Developed by: Division of Research Moore School of Business University of South Carolina



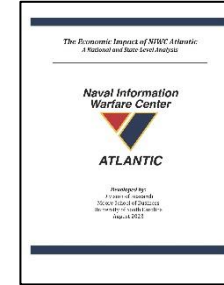
\$3.2B South Carolina

- 17,882 Jobs
- \$1.4B in Labor Income
(total wages, salaries, and benefits)

Major contributor to the knowledge economy

- Engineering is the single largest employment category
 - Employs 76.5% of all electronics engineers in the Charleston Metropolitan area and 40.5% in S.C.
- 65% in scientific and computer related professions
- Supports 25% of the cyber security sector of Charleston
- Average wage is more than twice that of the average across all jobs in South Carolina

One of the region's largest employers and is a major driver of the overall Charleston economy



\$9.3B U.S.

- 45,377 Jobs
- \$3.9B in Labor Income
(total wages, salaries, and benefits)

Other locations generating significant national economic footprint.

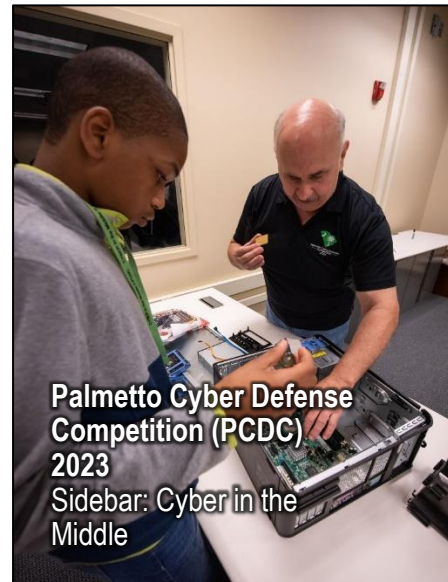
- \$1.6B Virginia
- \$159.6M Maryland
- \$124.6M Washington, DC
- \$124.1M Louisiana
- \$91.3M Florida

Providing a disproportionately large contribution to the health of the local economies

Community and STEM Outreach — to attract, inspire, and develop STEM talent to meet future defense technological challenges.

FY23 Community Impact & Volunteerism

- 55,000+ Students Served
- Appx 270+ Volunteers
- 8000+ Total Hours
- 107 First Robotics Teams
- 21 Educational Partnership Agreements — to develop pipelines of high-tech talent in the region
 - Examples include
 - University of South Carolina
 - Clemson University
 - Citadel
 - South Coast Cyber Center (SCCC)
 - Benedict College
 - Morris College
 - South Carolina State University
 - Denmark Technical College
 - Berkeley, Charleston and Dorchester S.C. County Schools



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Vision:

WIN THE INFORMATION WAR.

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on your favorite podcast apps!

<https://www.niwcatlantic.navy.mil>

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[CHIPS Magazine \(navy.mil\)](#)

