



NAVAL X



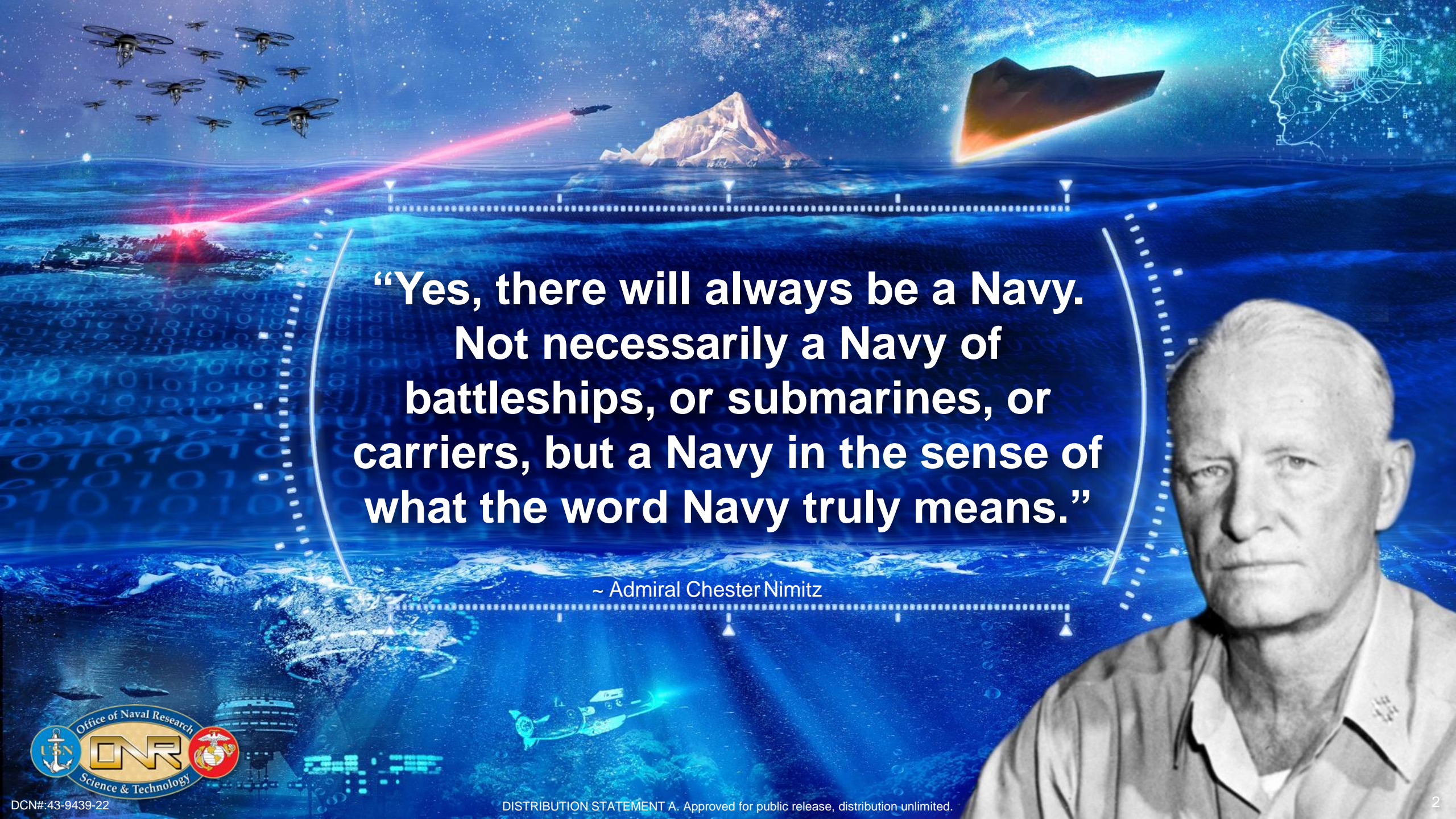
The Office of Naval Research

REIMAGINE NAVAL POWER

The Patuxent Partnership

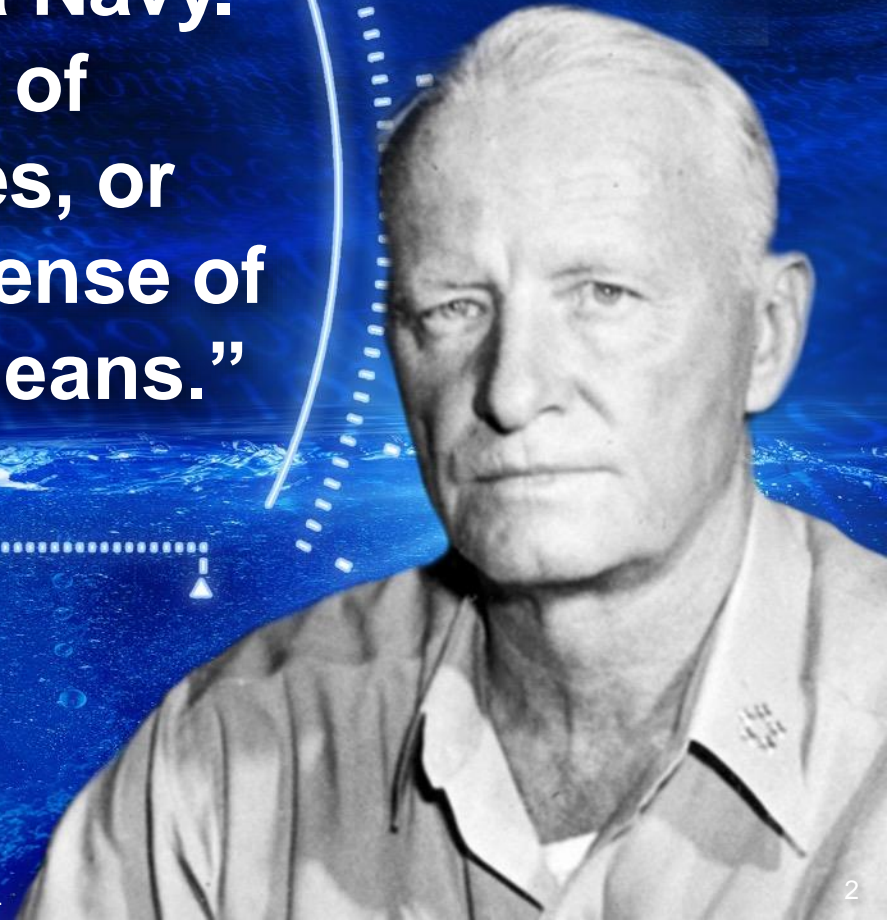
Oct. 21, 2022

Rear Adm. Lorin Selby



**“Yes, there will always be a Navy.
Not necessarily a Navy of
battleships, or submarines, or
carriers, but a Navy in the sense of
what the word Navy truly means.”**

~ Admiral Chester Nimitz



Lessons from History

Established by Congress in 1946, The Office of Naval Research's mission is to:

“...plan, foster and encourage scientific research in recognition of its paramount importance as related to the maintenance of future naval power, and the preservation of national security...”



Naval Research Enterprise Organizational Milestones

1946

ONR London Office created to survey, assess, and report on European Science and Technology

Office of Naval Research (ONR) established



1993

ONR becomes a 6.1-6.3 organization

2009

ONR Global designated as an Echelon II Command reporting to CNR

1920

1930

1940

1950

1960

1970

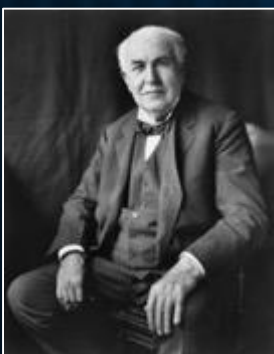
1980

1990

2000

2010

2020



July 2, 1923

Naval Research Laboratory (NRL) established at the recommendation of Thomas Edison

1974

ONR's first international office outside of Europe is established in Tokyo

2003

Naval Fleet/Force Technology Innovation Office and International Field Office merged to form Office of Naval Research Global (ONR Global)



2022

NavalIX designated as an Echelon II Command reporting to CNR



ONR is headquartered in Arlington, VA sponsoring facilities in the US and abroad.



NRL is headquartered in Washington, DC with four field sites in the U.S.



ONR Global is headquartered in London with 19 locations over five continents.

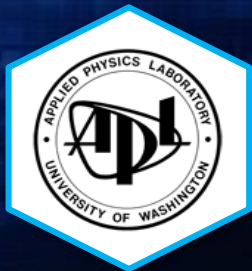
Naval Research Enterprise (NRE)



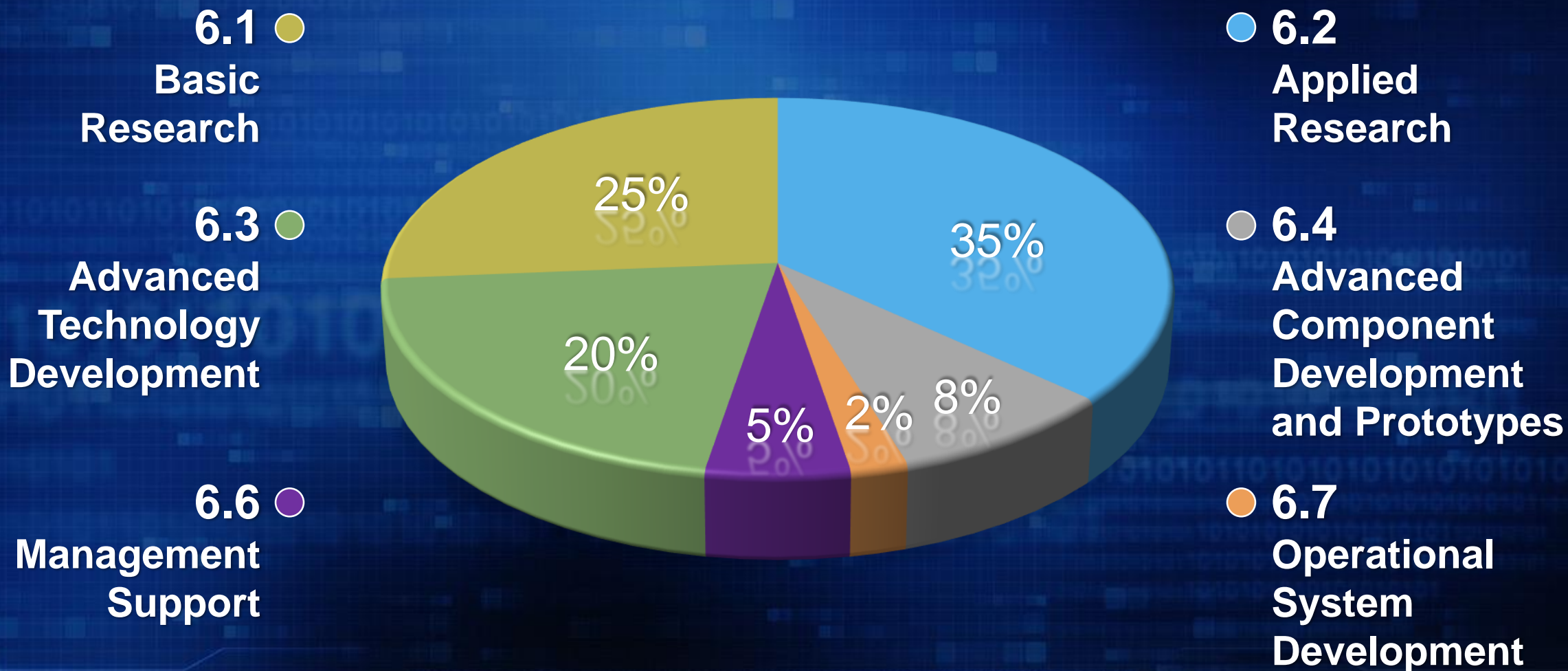
The Naval Research & Development Establishment (NRDE)



The Naval Research Enterprise

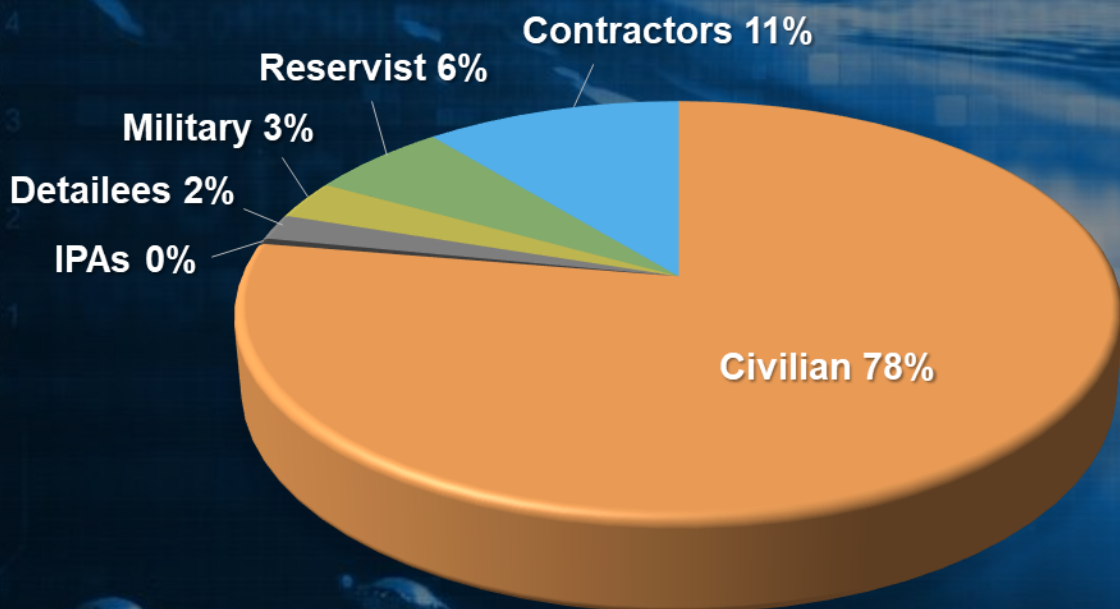


ONR Portfolio Investment

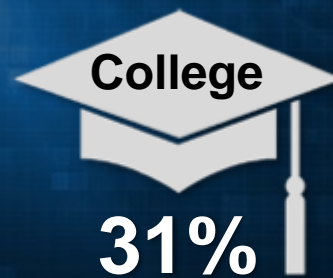
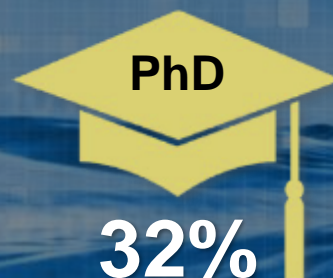


NRE - Who We Are

Workforce Demographics



Degrees



Average Length of Service

12



Male
70%



Female
30%

Average Age

46

Diversity and Inclusion

The Key to Success



“Strong Naval STEM efforts are critical to America’s future, and are a matter of national security.”

Rear Admiral Lorin Selby, Chief of Naval Research

Naval Research Laboratory



- Basic and Applied Research and Advanced Technology Development for Anticipated Navy and Marine Corps Needs
- The Navy's Corporate Laboratory
- World Class Research Team

Delivering Warfighter Advantage >>>>>



> Integrated Research Portfolio

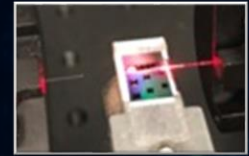


NRL Basic & Applied Research >

Directly Sponsored Work



Acoustics



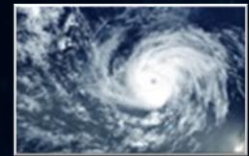
Remote Sensing



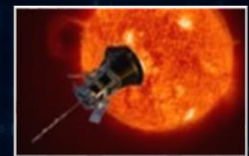
Oceanography



Marine Geosciences



Marine Meteorology



Space Science

NRL Research Focus Areas

Office of Naval Research Global

MISSION

Obtain, coordinate & make available worldwide scientific information



VISION

Be the partner of choice for S&T leaders



Connecting 4000+ People

> 1000 Partners

Engagement in 58 Countries



Departments

INTERNATIONAL SCIENCE

INTERNATIONAL ENGAGEMENT

SCIENCE ADVISOR PROGRAM

EXPERIMENTATION AND ANALYSIS

FOREIGN COMPARATIVE TEST

TECH SOLUTIONS

NAVAL X



MISSION

- Guide naval stakeholders to rapidly deliver capabilities to warfighters
- Serve as the platform that connects Navy needs and challenges with expert solution providers
- Encourage and foster culture change across the Naval services
- Making the Navy a more agile, learning and adaptable organization

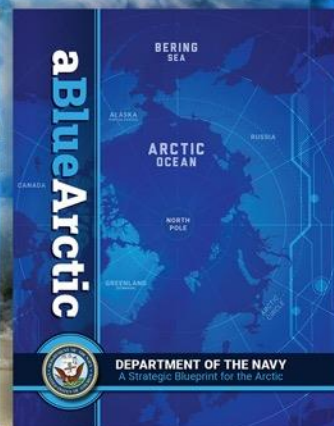
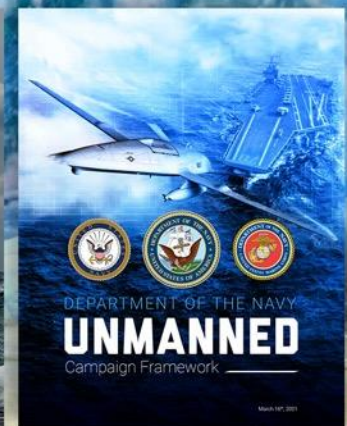
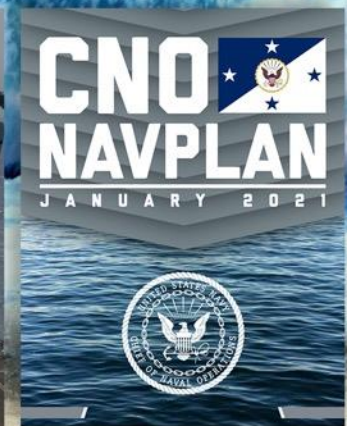
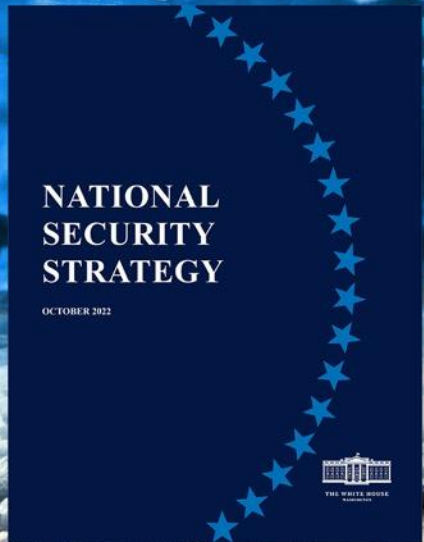
NavalX is an agility and innovation cell for the Navy and Marine Corps

Our team of expert problem-solvers works to find solutions to naval challenges

The team is comprised of government employees, civilians, active duty and reservists



Strategic S&T Guidance

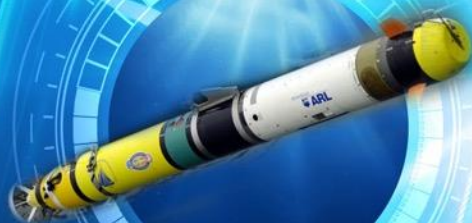


Supporting the Strategy

“Technology is central to today’s geopolitical competition and to the future of our national security, economy and democracy...In the next decade, **critical and emerging technologies are poised to retool economies, transform militaries, and reshape the world.**”
- National Security Strategy, OCT 2022



Information Cyber
and Spectrum
Superiority



Ocean Battlespace
and Expeditionary
Access



Mission Capable,
Persistent and Survivable
Naval Platforms



Warfighter Performance



Aviation, Force
Projection and
Integrated Defense

NAVAL X

"For the first time in a very long time, we face serious challenges at sea around the world. For decades, we have taken for granted that no other blue water navy would dare take us on. That's no longer true."

Chief of Naval Operations Adm. Mike Gilday



Malign Intent





Changing Landscapes



Is This Enough?



Reimagine Naval Power



Work with **ACADEMIA, INDUSTRY**
and **GOVERNMENT LABS** to ensure the
Navy and Marine Corps are always linked to
SCIENTIFIC DISCOVERY

Reimagine Naval Power

Provide a **STEADY INFUSION**
of relevant **TECHNOLOGY**
for **NAVAL DOMINANCE**

Reimagine Naval Power



DISRUPT an **ADVERSARY'S CALCULUS**
with **INNOVATIVE CAPABILITIES**

Reimagine Solutions



A STRATEGIC HEDGE: THE SMALL, THE AGILE AND THE MANY

WARFIGHTER
PROBLEMS

“OWNING THE BRIDGE”

WARFIGHTER
SOLUTIONS

HARVEST

SCOUT

DEMONSTRATE

CURATE

EXPERIMENT

ANALYZE

TRL 6

TRL 7-9



NAVAL X



NAVAL POWER STARTS HERE