

# Executive Brief



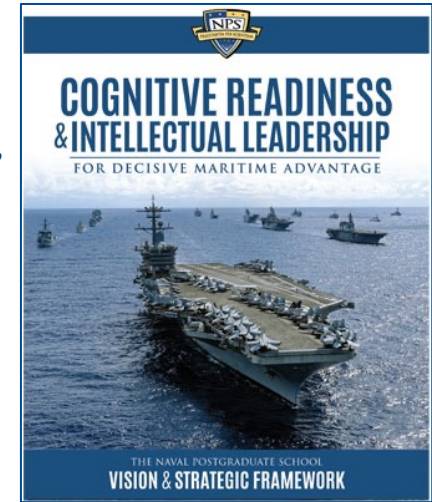
Where Science Meets the Art of Warfare



“the world is entering a new age of warfare, one in which the integration of technology, concepts, partners, and systems — more than fleet size alone — will determine victory in conflict.”

*CNO NAVPLAN 2022*

**The Naval Postgraduate School will become the nation’s leading institution for defense higher education and applied research, delivering transformative solutions and innovative leaders for decisive U.S. seapower and national defense.**



## EDUCATION

Extend reach and increase the focus of defense-unique and naval-relevant education

## RESEARCH

Increase the impact of applied research that is fully informed and directly contributes to warfighting solutions

## INNOVATION

Lead naval innovation via a collaborative ecosystem connecting warrior-scholars with academia and industry

## INSTITUTION

Enabled by a learning organization with a shared mission-focused culture developing defense leaders in modern and technologically relevant facilities.



## Unique education programs to meet relevant warfighting knowledge and skills requirements.



Combat Systems



Cyber and Information Systems



Data Science and Decisions



Defense Systems Management



Global Security and Strategic Competition



Maritime Battlespace Environments



Modeling, Visualization & Simulation



Naval Engineering



Space Technology and Operations



## WARFIGHTER DEVELOPMENT

Critical and strategic thinkers able to problem-solve, adapt, innovate, and lead

Naval Engineering

Combat Systems

Cyber and Information Systems

Data Science and Decisions

Global Security & Strategic Competition

Defense Systems Management

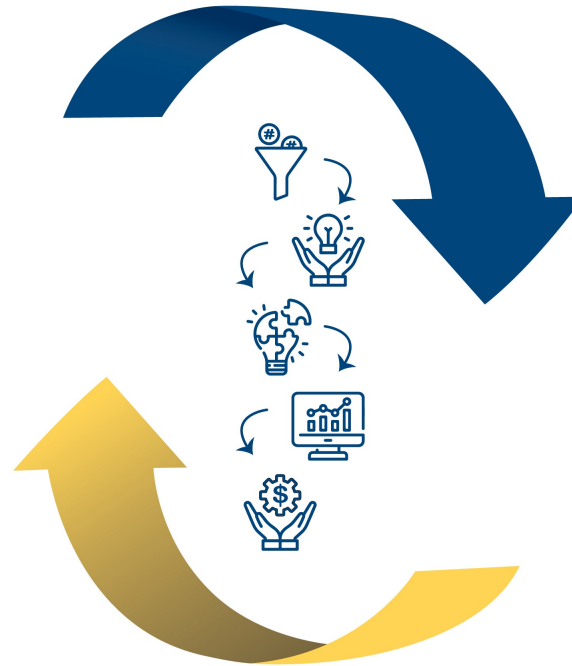
Space Technology and Operations

Maritime Battlespace Environments

Modeling, Simulation, & Visualization



Minimum Viable Solutions



Rapid Prototyping and Field Experimentation

## WARFIGHTING DEVELOPMENT

Classified and applied research and innovative solutions

C-C5ISR

Long Range Fires

Terminal Defense

Contested Logistics

Maritime Domain Awareness

Artificial Intelligence

Intelligent Autonomous Systems

Naval Operational Architecture


Modeling and Simulation GEMS/LVC

Climate Action

**The Department of the Navy is driving innovation across every corner of the enterprise.**

*"The best way to deter our adversaries is for the department to restore its technological superiority...Education is the key connector for this work. Our educational institutions hold great promise and opportunity." — Secretary of the Navy Carlos Del Toro*

# Operational Research Pipeline



NAVAL WARFARE  
STUDIES INSTITUTE  
Central

Connector  
between the  
Service HQ, Fleet,  
and Fleet Marine  
Forces to  
academic  
expertise for  
collaborative  
problem solving.

- Translate -
- Integrate -
- Advocate -



Office of  
Research  
& Innovation

Supports NPS  
education with  
relevant defense-  
focused basic and  
applied  
interdisciplinary  
research and  
innovation.

- Align -
- Elevate -
- Enable -



Academic  
Departments

Provide defense-  
focused, naval-  
unique advanced  
technical,  
professional, and  
graduate  
education for  
warfighting  
advantage.

- Responsive -
- Relevant -
- Accredited -

**Objective: Increase net warfighting advantage through impactful foundational and applied research that is fully informed and directly contributes to warfighting solutions.**



# Innovation Concept

## Naval Innovation Center @ NPS



### Warfare Innovation Continuum

A campaign of analysis focused on an overarching warfighting challenge. Design teams develop minimum viable solutions.

### Naval Innovation Exchange Teams

Starting student-faculty-industry teams refine minimum viable solutions, explore mature technologies and warfighting application to accelerate adoption Naval customers.

### Field Experimentation (JIFX)

Identifies, influences, and accelerates early-stage technology development to enable rapid adaptation and adoption.

### Innovation Capstone Projects

Integrates technical, acquisition, and operations to accelerate capability transition to Program Executive Offices.

Established coherence around innovation activities within existing education and academic research in support of warfighter development.

Concept development limited work up to TS/SCI; Solution development is largely unclassified and remains within individual research efforts with limited NR&DE and industry involvement.

The NIC@NPS is focused on institutionally-led cross-disciplinary project teams with deep NR&DE and industry involvement throughout collaboration cycle that leverages in-resident student experience, enhances the learning outcomes, and strengthens the work across the NR&DE by developing concepts and solutions that are fully informed.

Key Operational Problem



Curate Ideate Prototype Experiment Transition

Warfighting Solution



*“I am also directing the creation of a **Naval Innovation Center at the Naval Postgraduate School** in Monterey, California – right in the heart of our nation’s leading technology corridor.*

*This will serve as a premier military education facility tailored to innovation and experimentation, serving as a technology resource for Navy and Marine Corps warfighting development commands, as well as a go-to partner of the defense industrial base, the technology sector, and academia...”*

Secretary of the Navy, Carlos Del Toro



## Fleet Priorities



NPS’ defense-focused education is aligned with the Navy’s strategic priorities and CNO-identified Key Operational Problems. Learn more.

## Partnerships



NPS is a naval innovation center of gravity connecting and integrating academia, industry, and DOD research enterprise at a purpose-driven campus. Partner with us.

## Innovation Education



NPS is synonymous with innovation. Promising ideas are generated, analyzed, war-gamed, red-teamed, and matured through capstone projects in a classified environment.

## Prototyping & Experimentation



NPS is a convening place for experimentation, rapid prototyping, and collaboration with industry and Naval Research & Development Enterprise (NR&DE).

## Funding & Management



We empower your research through funding and dedicated program management teams. Find out how OR&I can support your research project.



# Questions