



Opening Remarks

MOVES Open House 2022

Presented to NPS

25 May 2022

Monterey, CA

Presented by Mr. Paul Mann

DASN RDA CHENG

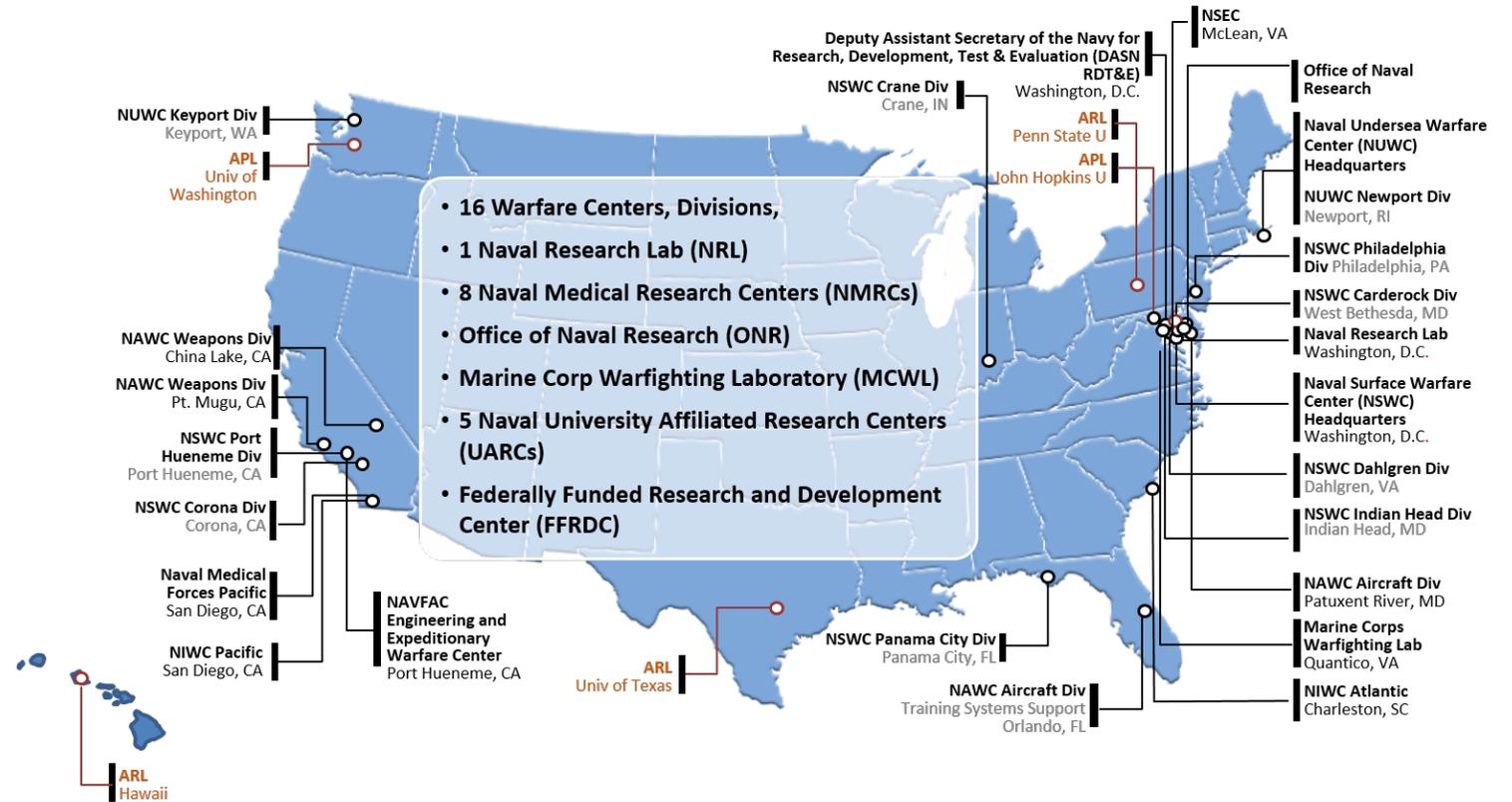
DON M&S Executive



Who we are...Research Development, Test, and Engineering (RDT&E)

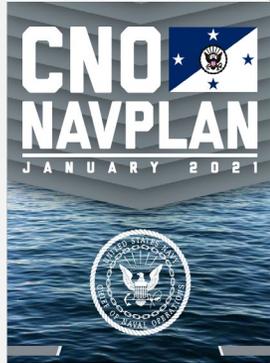
DASN RDT&E leads integration and alignment across the whole of the Naval Research & Development Establishment (NR&DE) to provide greater technological advantage to the warfighter at speed:

- Expertise
- Tools/Best practices
- Labs/Ranges
- Science and Technology (S&T) and Research and Development (R&D) Investment priorities
- Novel Task Force





Enabling our Mission



SAILORS

- Develop a seasoned team of naval warriors
- A dominant naval force that can outthink and outfight any adversary.

READINESS

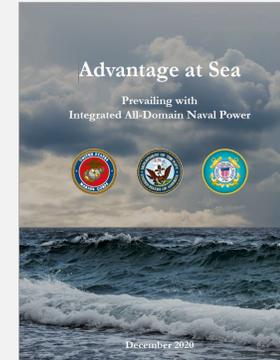
- Deliver a more ready fleet
- A Navy that is manned, trained, and equipped to deploy forward and win in day-to-day competition, in crisis, and in conflict.

CAPABILITIES

- Deliver a more lethal, better-connected fleet
- A Navy capable of projecting synchronized lethal and non-lethal effects across all domains.

CAPACITY

- Deliver a larger, hybrid fleet
- A larger, hybrid fleet of manned and unmanned platforms-under, on, and above sea – that meets the strategic and operational demands of our force.



Generate Integrated All-Domain Naval Power

Strengthen Our Alliances and Partnerships

Prevail in Day-to-Day Competition

Control the Seas

Modernize the Future Force

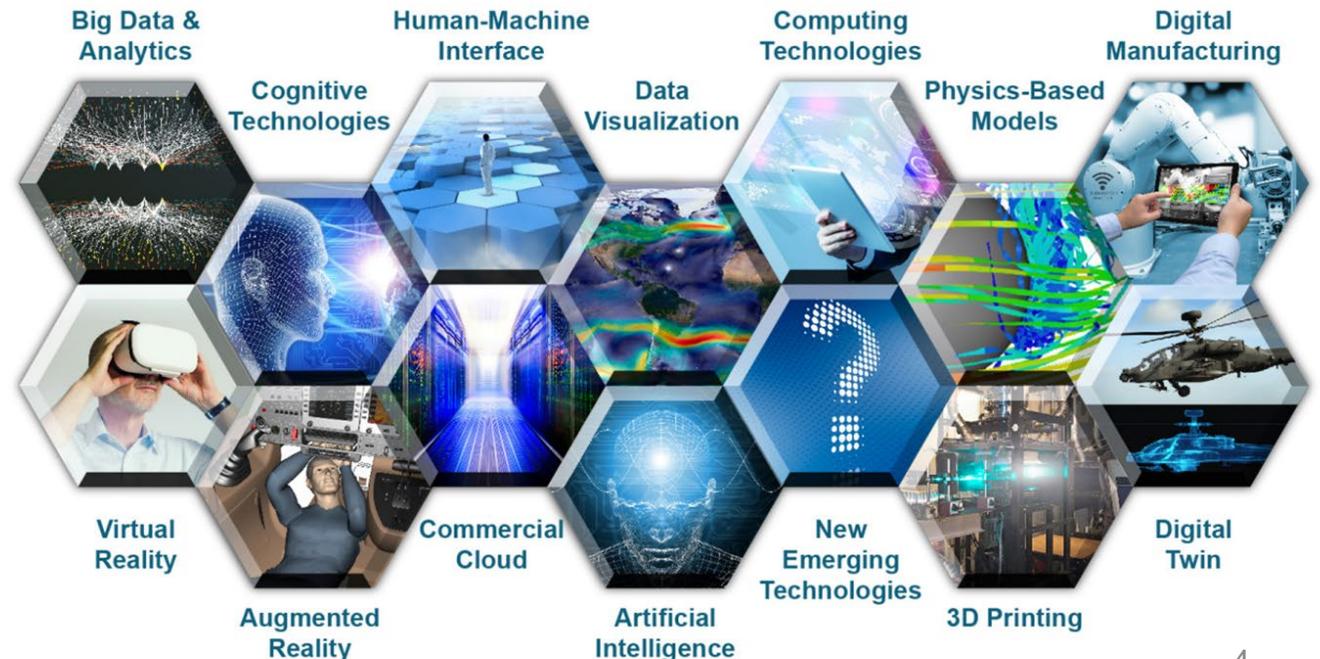
- We must ensure we are developing the most critical technologies at operationally relevant speed
- M&S affords greater efficiency and effectiveness in all aspects of system and capability development and operations
- Essential to build workforce that understands M&S
 - As a practitioner - how to build and run M&S
 - As a decision maker – how to interpret and understand the results

Building a Strong Technical Community Starts with Education



DON Engineering Initiatives

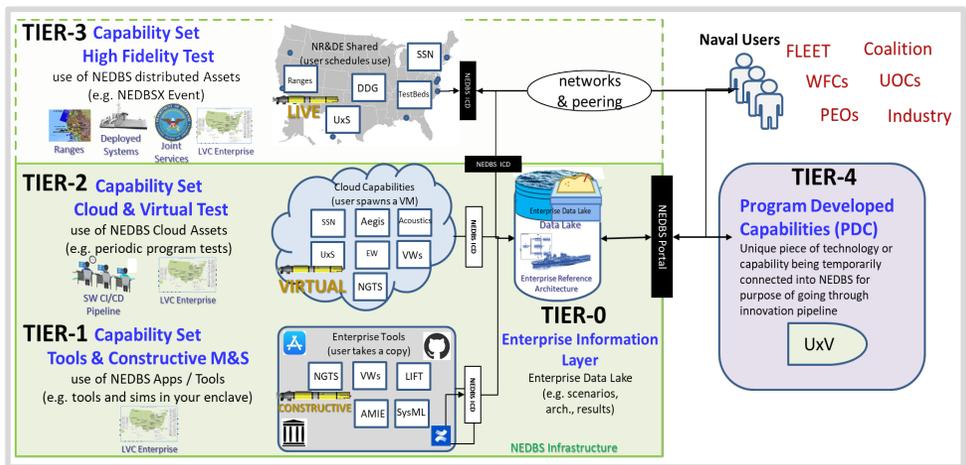
- Critical to move from focusing on delivering platforms predictability to Enterprise-wide initiatives and innovation
- Increasing system complexity and interconnectedness requires significant advances across DON in DE, etc.
- Must focus on data and outcome-based metrics that are assessed in real-time and used to constantly improve.
- We are only as good as our people...
DE and M&S are technology areas that need dedicated



M&S can significant, sometimes profound, impacts...when built, employed, and interpreted...with rigor

Aggregated Digital Ecosystem for Naval Advantage (ADENA)

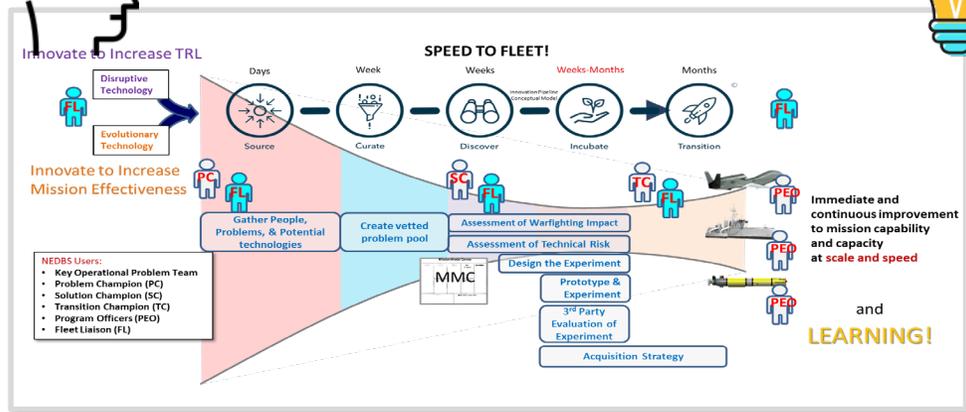
What is ADENA?"?



The Digital Ecosystem:

- takes a **multi-Tiered approach** to maximize access to PEOs, WFCs, Industry, Fleet, UOCs and Coalition partners while assuring cyber resiliency
- provides **discoverability of persistent information**, architectures, data sets, tools and capabilities across Naval ecosystems to promote collaboration across Naval stakeholders
- contains both Government-owned **dedicated** resources (for downloading or cloud hosting) as well as access to **distributed** NR&DE facilities, ranges and test beds
- enables users to compose a **custom Digital Battlespace** instance to meet their needs for a particular technology, mission and use case
- supports the **Innovation Pipeline** by allowing earlier and more frequent representation of multiple problem-solution spaces for development and experimentation in a mission context
- allows **Fleet participation** in every step of concept development

How is ADENA used?



Need an engineering ecosystem to OWN the technical baseline and iterate at speed



Way Ahead...

- Continue to work with the NPS MOVES to:
 - Grow Naval engineering talent incubators in AI/ML, Autonomy, MBSE, MBPS, M&S and Engineering Leadership.
 - Build expertise in platform virtualization and integration into system-of-systems and scaling for LVC events
 - Continue our evolution of M&S/LVC capabilities to exercise warfighting concepts, enable Fleet experimentation, and support complex testing
 - Evaluate path for M&S career fields in the Navy



THANK YOU!