



NAVAL SURFACE WARFARE CENTER CRANE DIVISION

## NDIA SOLIC 2019

# The Future of the Digital Battlefield

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Director, Expeditionary Warfare Department*



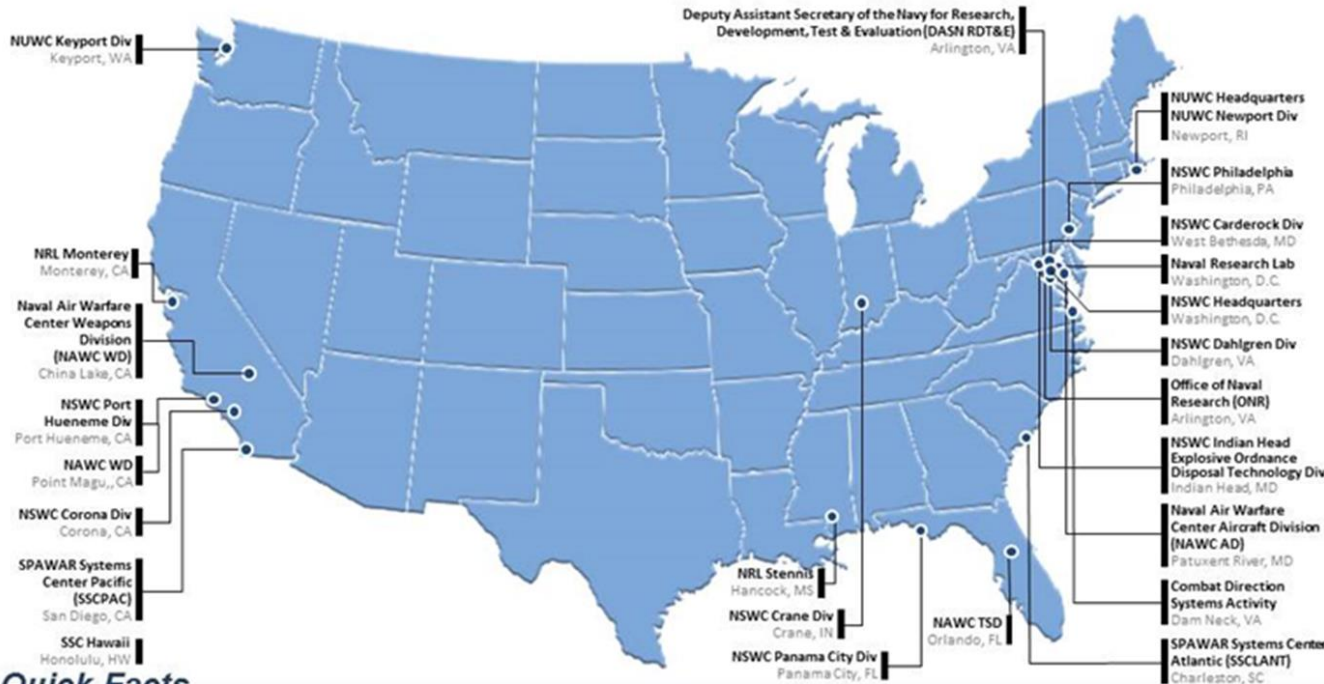
*CAPT Mark Oesterreich, USN  
Commanding Officer*



*Dr. Brett Seidle, SES  
Technical Director*

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## NR&DE Naval Research & Development Establishment (NR&DE)



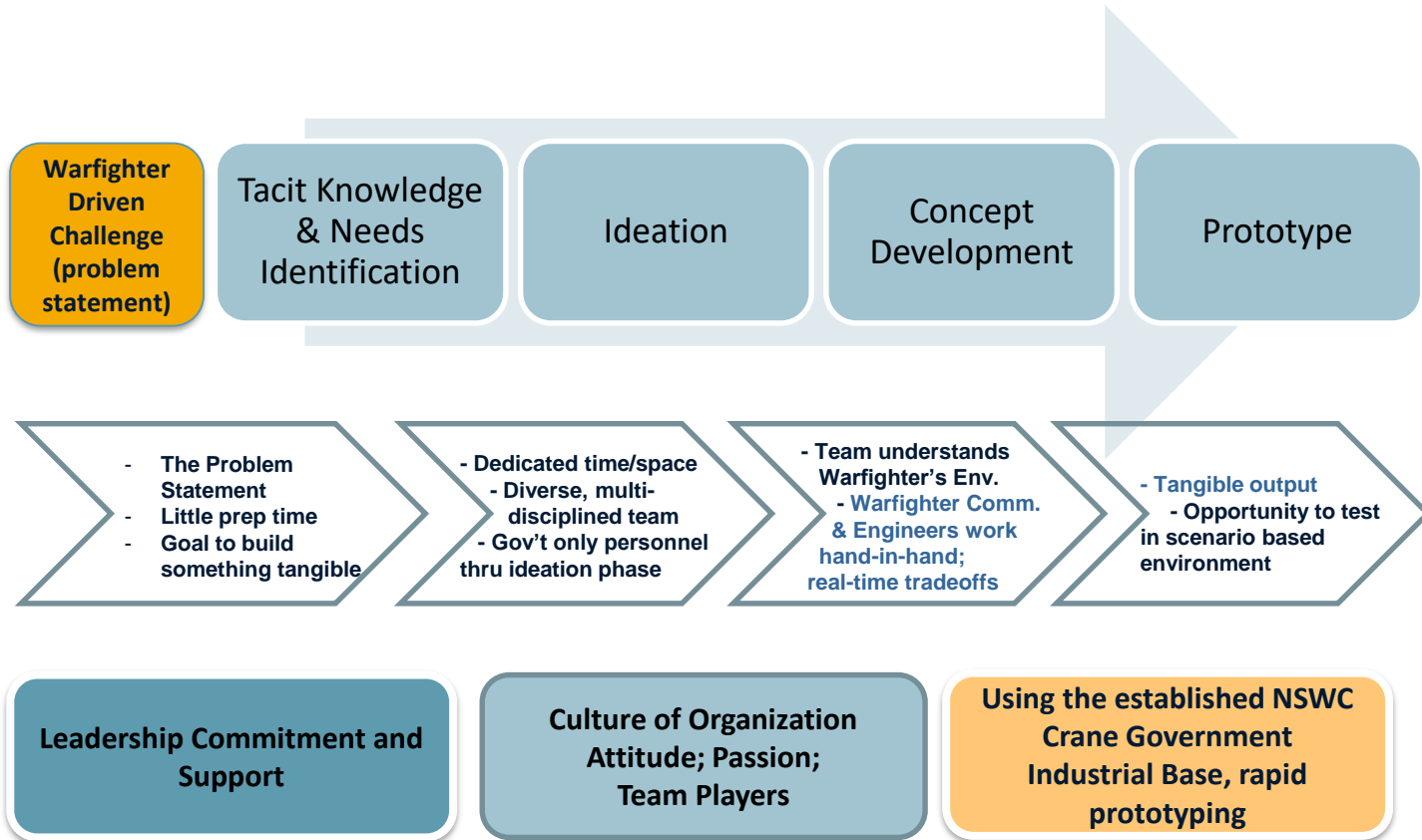
### Quick Facts

- Diverse and highly educated workforce with 25,000 scientists, engineers, and technicians (with more than 2,000 Ph.D.s)
- 20 commands across the NAVAIR/NAVSEA Warfare Centers, SPAWAR Systems Centers, ONR and NRL
- Conducts RDT&E for the DoN to discover, develop, transition and field technologically superior naval warfighting capabilities.
- Unique Naval RDT&E facilities including laboratories, test facilities and test ranges
- Serves as principal R&D agents for Navy and Marine Corps Program Executive Offices
- Organizationally aligned to Naval Systems Commands and ONR
  - Naval Sea Systems Command (NSWCs, NUWCs)
  - Naval Air Systems Command (NAWCs)
  - Space and Naval Warfare Systems Command (SSCs)

### We provide

- Requirements identification
- Develop Open Architecture Standards
- Define Data Structure Requirements
- Independent Verification and Validation (IV&V)
- Technology Assessments
- Qualification
- Independent Engineering Oversight
- Test and Evaluation
- Warfighter Interface

Aggressive Research, Development, Test & Evaluation for reliable real world solutions.



**GOVERNMENT SMEs WORKING WITH THE WARFIGHTER TO BETTER DEFINE THE REQUIREMENTS  
LOWERING THE RISKS FOR FOLLOW-ON TECHNICAL DEVELOPMENTS**



The Warfighter NEEDS intelligent systems providing *real time dynamic battlespace information to enhance decision making, maneuver, and engagement capabilities*



*We identify mission gaps and turn them into technical requirements.*

*So that together, we can develop enhanced interoperable technical solutions for the Hyper-Enabled Operator.*

*I can do things that you cannot; you can do things that I cannot, but*  
**TOGETHER WE CAN DO GREAT THINGS**

*-Mother Teresa*