



**Department of the Navy (DoN)  
Small Business Innovative Research  
(SBIR)  
Experimentation Cell  
DoN-SEC**

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# DoN-SEC Information Brief

## ONR Global Don SBIR Program Mangers

10 September, 2020

Overall Classification  
**UNCLASSIFIED**



# Executive Overview

## Purpose of Brief

Introduce SBIR communities to DoN-SEC capabilities and provide situational awareness

- Develop dialogue with Program Managers/Technical Points of Contact (TPOC) that sponsor SBIR initiatives
- Increase DoN-SEC visibility of SYSCOM SBIR initiatives
- Align SBIR initiatives with current experiment venues
- Determine intersect with SYSCOM programs

## Recommendation

- For information only

## Decision

- None

## Problem Statement and Background

Complex undocumented experimentation processes hinder rapid delivery of emerging capabilities to the Warfighter

- Current process relies on in situ historical expertise
- Process requires approvals that span multiple organizations and processes
- Inconsistency of data collection plans produces ineffective analysis

## Assessment

Assessment of current environment

- Numerous organizations are conducting experiments and venues that could support the furtherment of SBIR initiative transitions
- Sponsors shy away from experiment venues due to complexity and/or cost
- SBIR initiatives concentrate on Demonstrations and lose opportunity to collect data and/or recommendations



# DoN-SEC Description

## Purpose:

**Support SBIR community with efficient, cost-effective, repeatable processes to enable warfighters with speed to capability using experimentation on USN/MSC platforms**

## Impact:

**SBIR community becomes a more effective transitioning agent for Naval technologies**

- SBIR industries educated in Naval experimentation
- Government TPOC gain understanding of install processes; better aligned efforts
- Focused resources
- Increased awareness - Industry/supporting scientists



# DoN-SEC Description (Cont.)

Support the SBIR communities through facilitation, mentoring, and training in all aspects of experiments

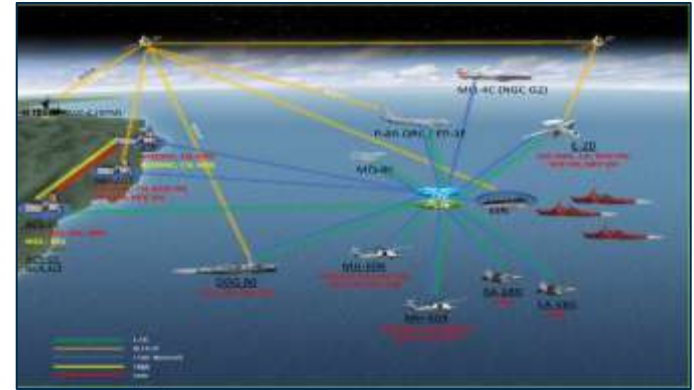
***“Enable small business innovation as the catalyst of better solutions to meet new requirements and empower results that solve warfighter gaps”***

- Enhance SBIR transitioning through effective and relevant experimentation
- Enable SBIR community to become a more effective transitioning agent for Naval technologies through fleet input and warfighter focused reporting
- Educate SBIR industries partners in naval experimentation capabilities and challenges
- Provide Government SBIR technical leads increased knowledge of experimentation capabilities and challenges
- Provide full spectrum experimentation awareness - Industry/supporting scientists

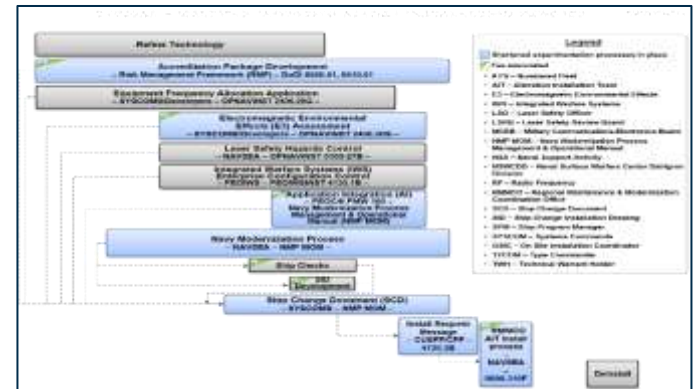


# Core Competencies

- **Experiment Design**
  - Problem Statement
  - Hypothesis Development
  - Objective Development
  - DOD Architecture Framework (DODAF) Models
  - \* Liaison to event sponsors



- **Engineering**
  - Ship Install –SHIPMAIN/NMP processes
  - Accreditation and Assessment (A&A)
  - Mission Readiness Assessment (MRA)
  - Application Integration (AI)
  - Battery storage approvals
  - RMMCO processes



\* When patriating in events/venues owned by other organizations

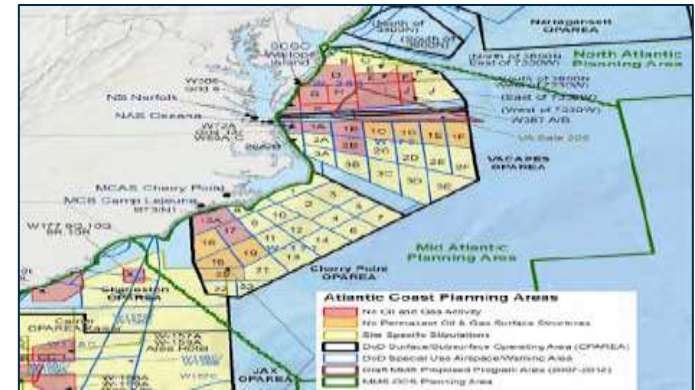
End to End support -Experienced in all phases of experiment planning



# Core Competencies

- **Operations**

- Air/Water space
- SPECTRUM (GPS/EA/Allocation)
- Environmental (PMAP/EIS)
- Unmanned systems/DSD Waivers



- **Analysis**

- Data Collection and Analysis
- Schedule of Events (SOE)
- Qualitative analysis/Surveys
- Reporting



End to End support -Experienced in all phases of experiment planning



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# Focused Events and Venues

(Targeted but not limited)



- **Naval Integration in Contested Environments (NICE) Advanced Naval Technology Exercise (ANTX) 2021**
  - Low barrier to entry, Marine and Navy demonstration event



- **Fleet Experimentation**
  - High TRL integration with Fleet Assets



- **TRIDENT WARRIOR (TW)**
  - Multiple initiatives, Conducted at-sea



- **Black Dart**
  - Counter-unmanned aerial system (UAS) experiments, led by Naval Surface and Mine Warfighting Development Center (NSWDC)



- **Limited Technical Experiments**
  - 1V1 experiments planned and executed with concise but limited objectives – technical test

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# Points of Contact

## Program Sponsor

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