Support RRTO in countering emerging threats by conducting demonstrations to validate the technical feasibility of a capability, explore its operational value and reduce developmental risk.

- Rapidly transition maritime technologies through flexible integration and demonstration in a pertinent environment

**Stiletto Program Focus Areas:**

- **Be Accessible and available for Maritime Demonstrations**
  - Open to all from small business to large industry to government and international partners

- **Integrate and accommodate state-of-the art maritime technologies**
  - Plug and Play; Bolt on/off; clean power and network connections

- **Remain Affordable - RRTO covers craft and program expenses**
  - Demonstrator typically only pays for their own labor and travel

**DOD’s Premiere Maritime Experimentation and Demonstration Platform**
**STILETTO HISTORY**

**STILETTO BUILT IN 2005:**

- **Concept demonstration (WOLFPAC)**
  - Multiple high speed, shallow draft boats networked for operations in the littorals
- **Highlights non-mechanical dynamic lift, carbon composite construction, and high-speed performance for military operations**
  - 50+ kts; 2.5ft draft
- **Significant Payload Capacity**
  - Embarked 11M NSW RIB
- **Support unmanned systems launch & recovery**
  - UAV, USV, UUV

**2006 - 2008: Conducted Technical Trials and Operational Experimentation**

- Counter-narcotics operations

**2009 – Present: Maritime Technology Demonstration Platform**
**Demonstration Overview**

**System Developer:**
Better understanding of capability gaps and operational requirements plus experience the challenges of operating in the military maritime environment.

Results in more refined systems

**End Goal**
Transition Risk Reduction

**End User / Stakeholder:**
Opportunity to evaluate potential solutions to gaps, and learn about state of the art systems to influence requirements development and refine future CONOPS / TTP.

Results in more refined requirements

Stiletto Program facilitates opportunities for transition of technology into operations
**DEMONSTRATION PATHS**

- **Technical Demonstrations** are controlled by system developer

  ![Demonstrator Initiates Application ➔ Application ➔ Stiletto / CMTWG Review ➔ RRTO Approves ➔ Demonstration ➔ Document and Disseminate Results ➔ Developer and govt users provided results](chart)

- **Capability Demonstrations** are controlled by stakeholders from government commands or agencies (eg., ANTX, Trident, etc)

  ![Develop the CD Priorities with Demonstrating Command / Stakeholders ➔ Publicize Capabilities to System Developers ➔ Down Select Systems ➔ Finalize Plan ➔ Prepare and Install Systems ➔ Conduct Demonstration ➔ Document and Disseminate Results](chart)

- **Classified Programs** are controlled by government commands

  Stiletto program provides process, coordination, and oversight to lower burden on stakeholders
CRAFT OVERVIEW

PHYSICAL INFRASTRUCTURE

- Carbon Fiber Construction
- Length 89’
- Beam 41’
- Draft 2.5’ - Full Load
- 78 LongTons-Full Load
- 47 Knot Max Speed
- 30 Knot Cruising
- 600nm Operation Range
- Payload Area 2,000 sq-ft
- Port CIC
- Starboard CIC
- Bridge
- L&R Ramp 11mRIB/SDV
- UUV, USV & UAV Operation Capabilities
- SATCOM, 1GB LAN

- Radars: Furuno, SIMRAD HALO-4
- EO/IR Cameras: GyroCam, C-FLIR
- Electronic Network Infrastructure: Flexible, modular, and re-configurable near plug-and-play installation capability
- T-SCIF
- Arch with ample room for sensors
- Bolt on/off capability, Pre-existing cableways and conduits
STILETTO INTEGRATION
EQUIPMENT ARCH

Arch built for bolt on / bolt off integration of C4ISR equipment

Multiple radars and EO/IR systems for demo

Stiletto organic sensors provide ground truth data

Stabilized mount for integration of weapon systems and/or antennas
C2 INTEGRATION SPACE

- Clean power and network access
- Internal comm system
- Multiple displays for vendors
- Vendor can use own laptop or connect to Stiletto network
- EO/IR camera display and controls
C2 INTEGRATION SPACE

- Space is climate controlled
- NMEA 2000 data available
- Space has ability for “night ops”

Standard Configuration of Space
C2 Integration Space

6 Shock Mitigating Seats outfitted with removable desktops

Vendor can connect to network using own laptop
TEMPORARY GRID SYSTEM
LAUNCH AND RETRIEVE
ADDITIONAL CRAFT AVAILABLE

11M RIB

7M RIB

JET SKIS

GUARDIAN

70 FT -100 FT & OTHERS

2 Mk V CRAFT
STILETTO CAPABILITIES

UNMANNED SYSTEMS
- UUV
- UAS
- USV

FLEET EXERCISES

C2 SYSTEMS
- Inmarsat
- Wave Relay

WEAPON SYSTEMS

T-SCIF SPACE

LAUNCH & RECOVERY
- CRRC
- NSW11mRIB
- SDV
STILETTO DEMONSTRATIONS

How can your project get on Stiletto?

1. Send an email to Stiletto@navy.mil
2. Complete a demonstration application
3. The Stiletto team will review for feasibility
4. The combatant craft community will review for applicability
5. RRTO will provide final approval
6. Schedule your demonstration

It's that easy!