



STILETTO MARITIME DEMONSTRATION PROGRAM

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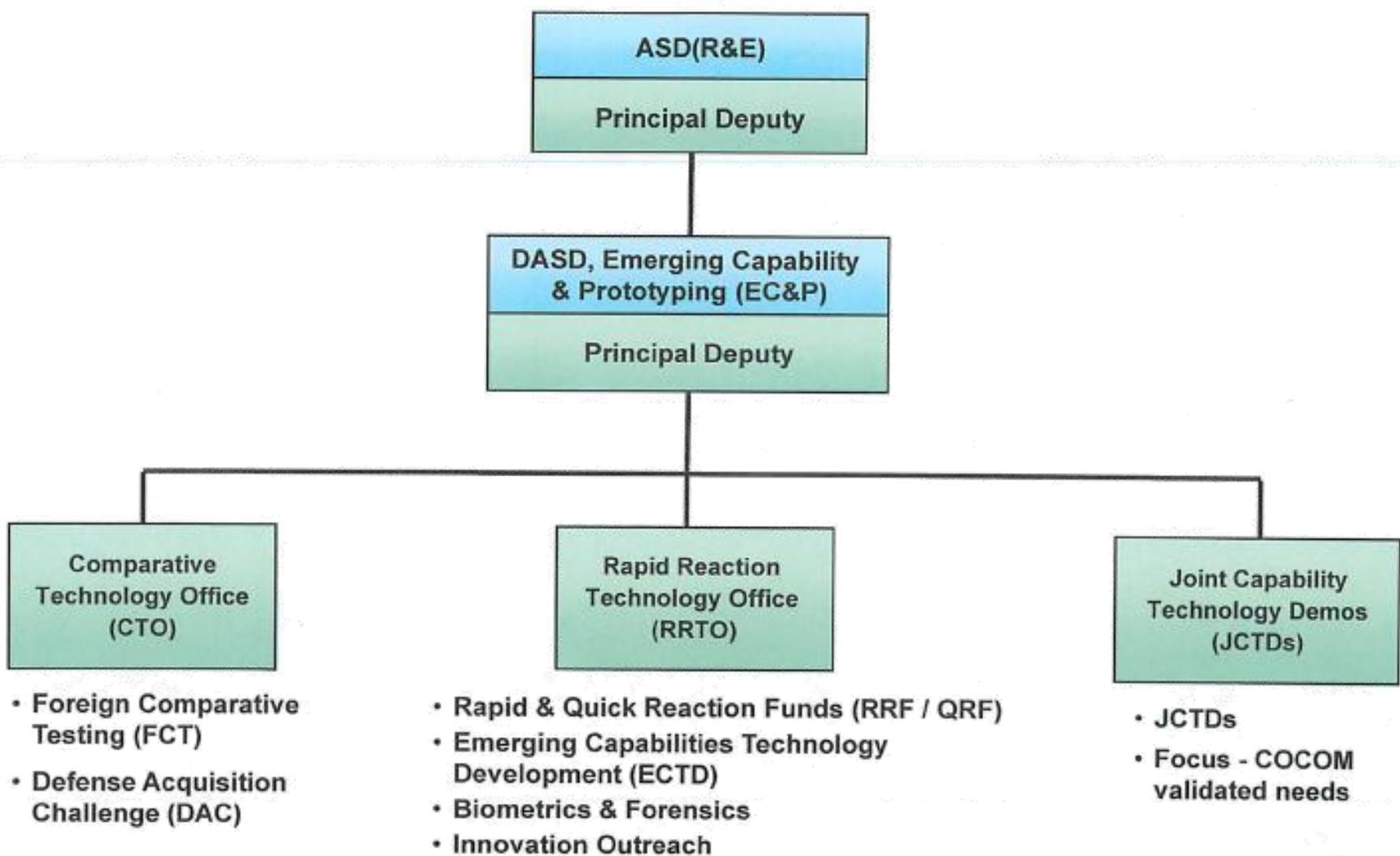
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STILETTO PROGRAM SPONSOR

RAPID REACTION TECHNOLOGY OFFICE (RRTO)





MISSION

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





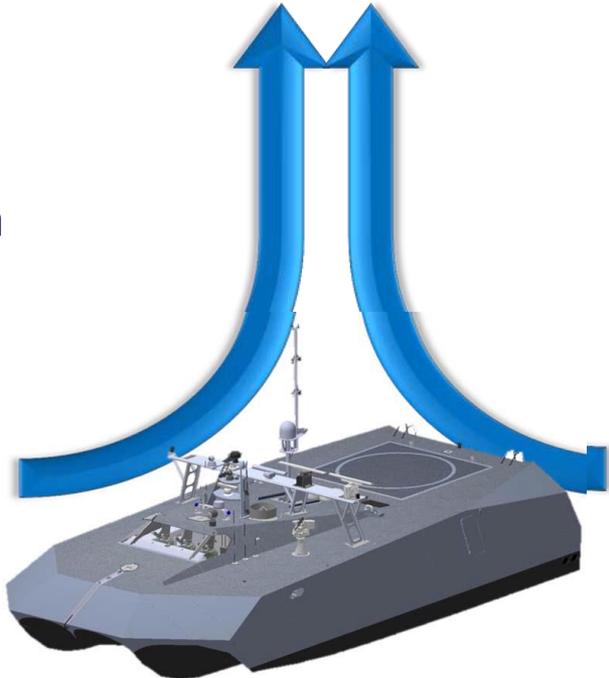
DEMONSTRATION OVERVIEW

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

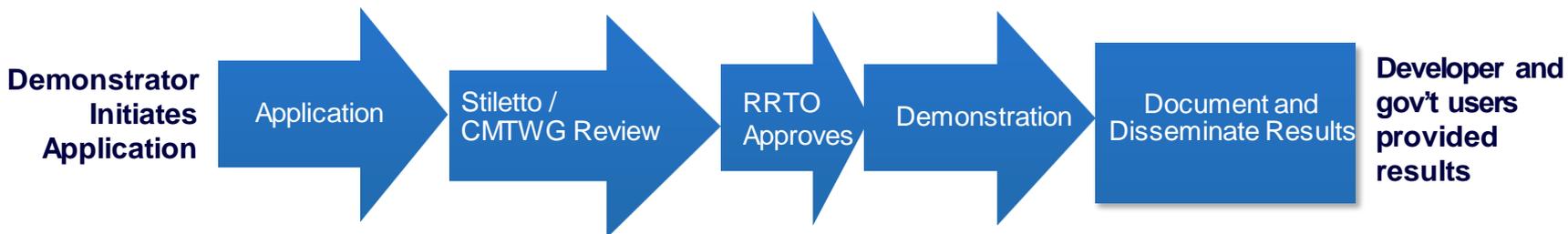
Stiletto Program facilitates opportunities for transition of technology into operations



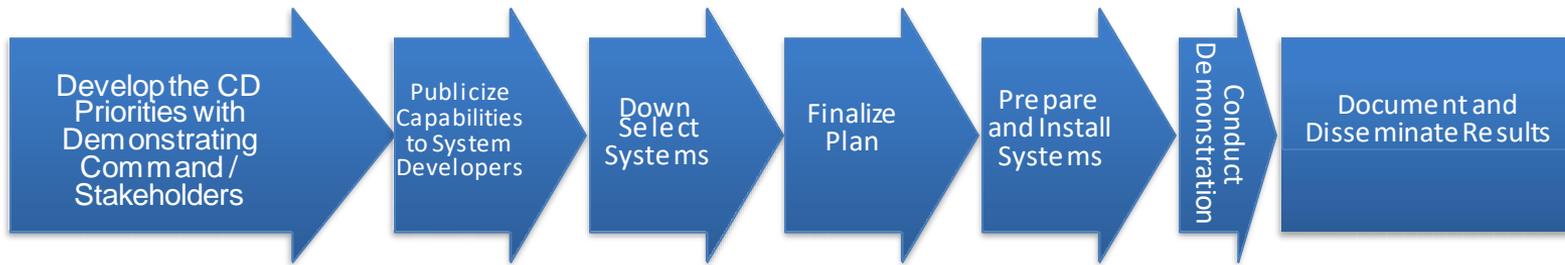
DEMONSTRATION PATHS



- Technical Demonstrations are controlled by system developer



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



- 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

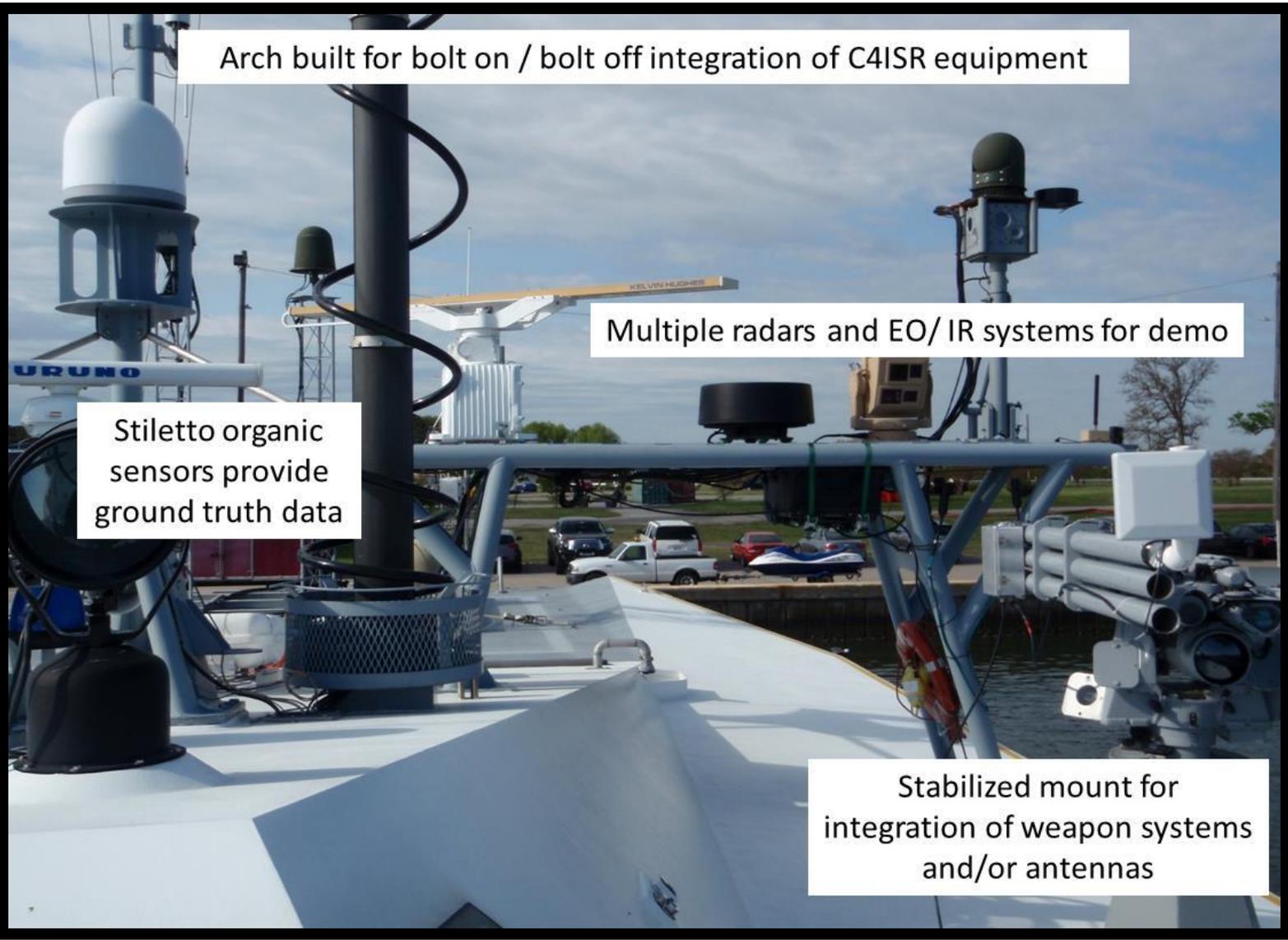


STILETTO INTEGRATION





EQUIPMENT ARCH



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

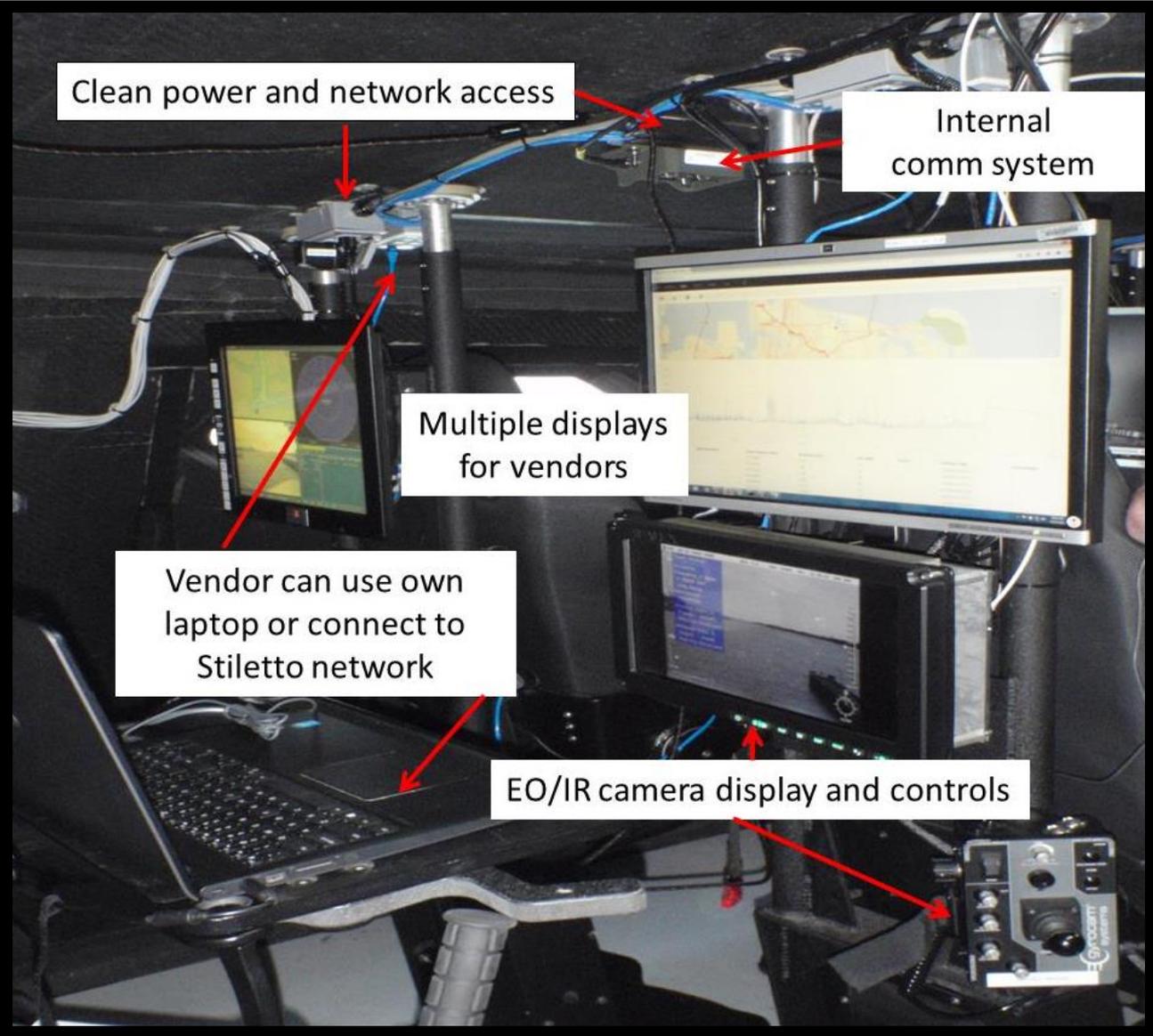
Multiple radars and EO/ IR systems for demo

Stiletto organic sensors provide ground truth data

Stabilized mount for integration of weapon systems and/or antennas

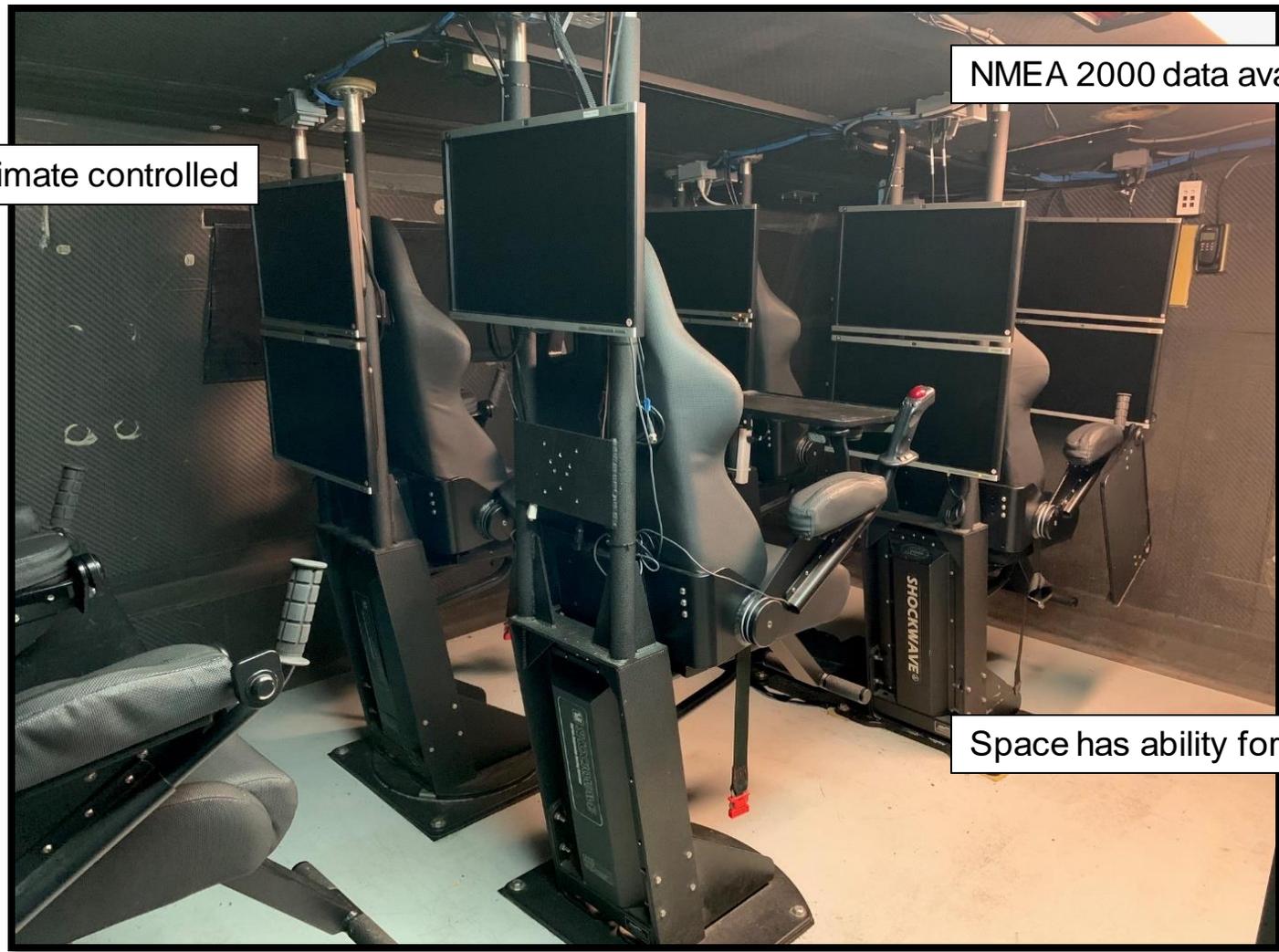


C2 INTEGRATION SPACE





C2 INTEGRATION SPACE



Space is climate controlled

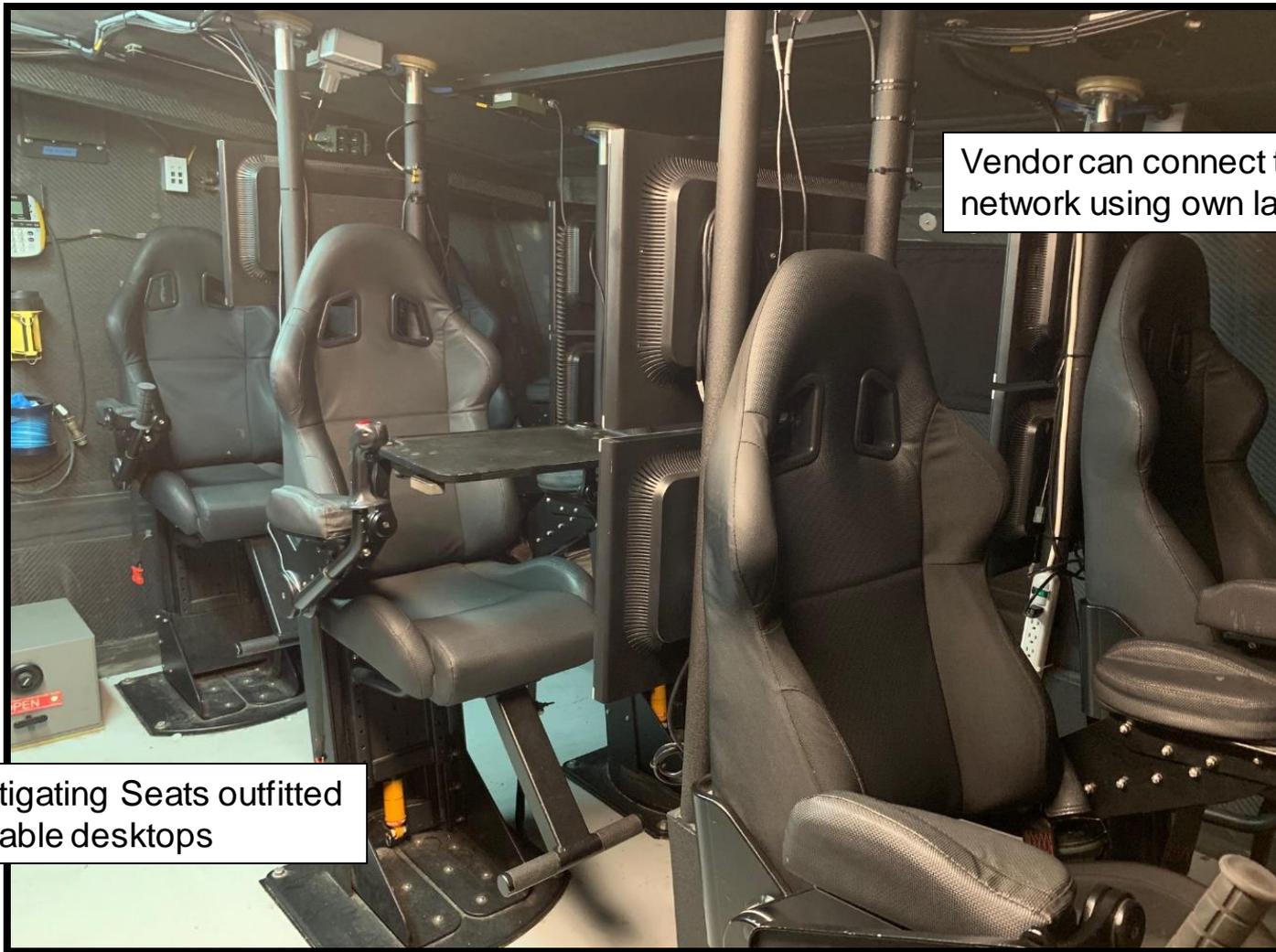
NMEA 2000 data available

Space has ability for "night ops"

Standard Configuration of Space



C2 INTEGRATION SPACE



Vendor can connect to network using own laptop

6 Shock Mitigating Seats outfitted with removable desktops



TEMPORARY GRID SYSTEM





LAUNCH AND RETRIEVE

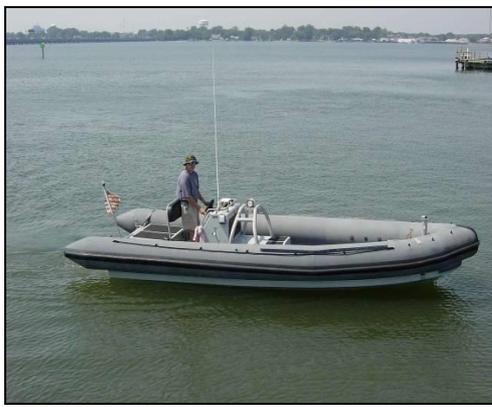




ADDITIONAL CRAFT AVAILABLE



11M RIB



7M RIB



JET SKIS



GUARDIAN

70 FT -100 FT
& OTHERS



2 MK V CRAFT



STILETTO CAPABILITIES



UNMANNED SYSTEMS



FLEET EXERCISES



C2 SYSTEMS



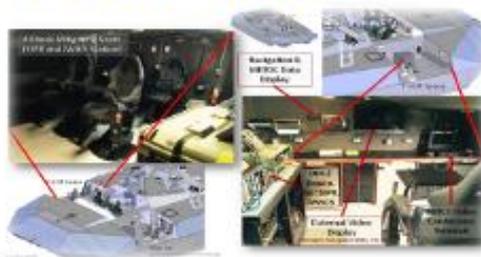
S&T



WEAPON SYSTEMS



T-SCIF SPACE



LAUNCH & RECOVERY

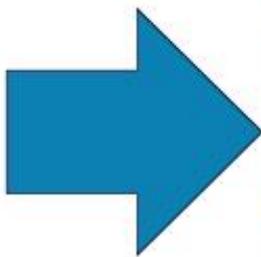




STILETTO DEMONSTRATIONS



**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!