



*18th NDIA Expeditionary Operations Conference
31 October 2013*

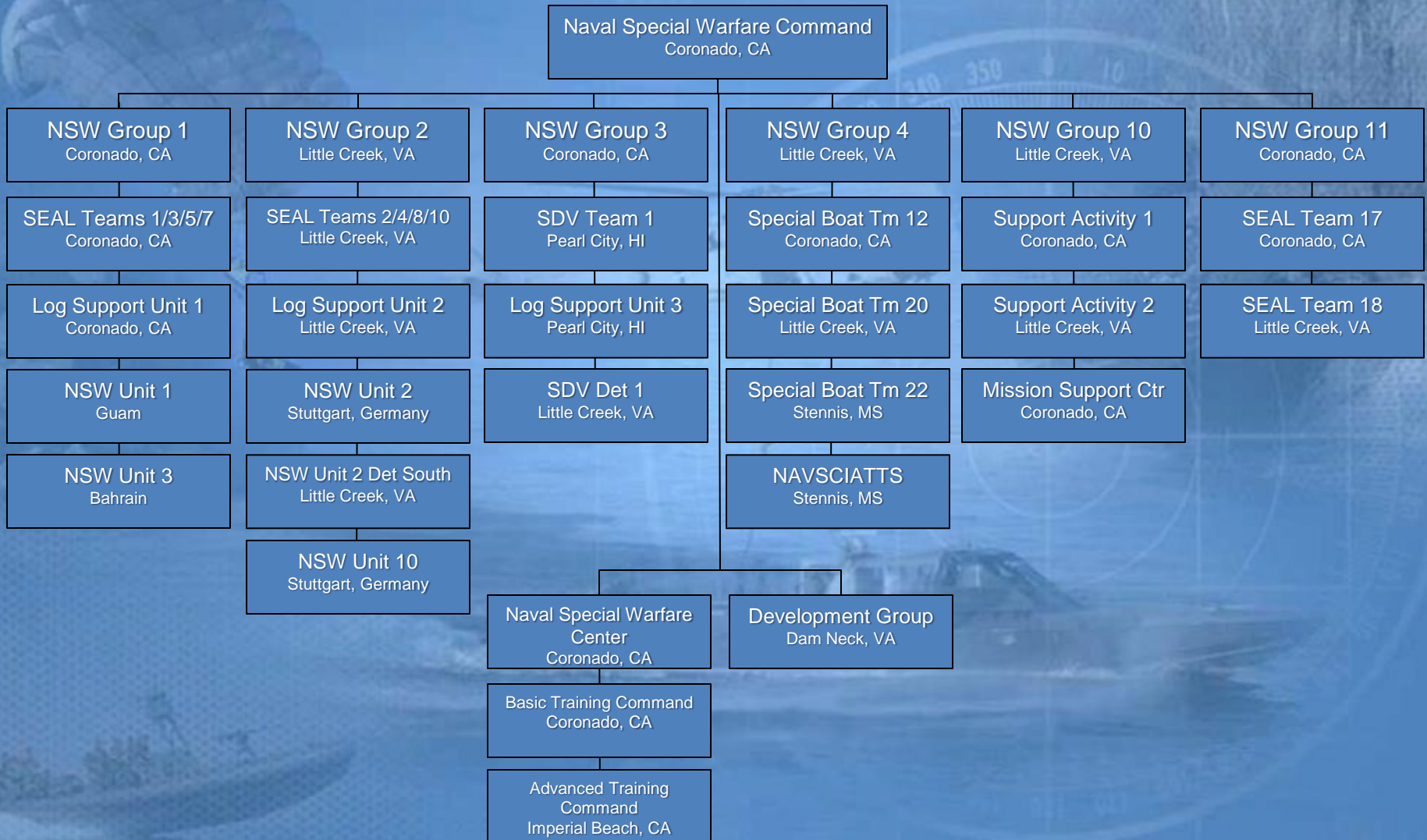
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OPNAV N951*

Overall Brief is: **UNCLASSIFIED**
UNCLASSIFIED

Naval Special Warfare Chain of Command

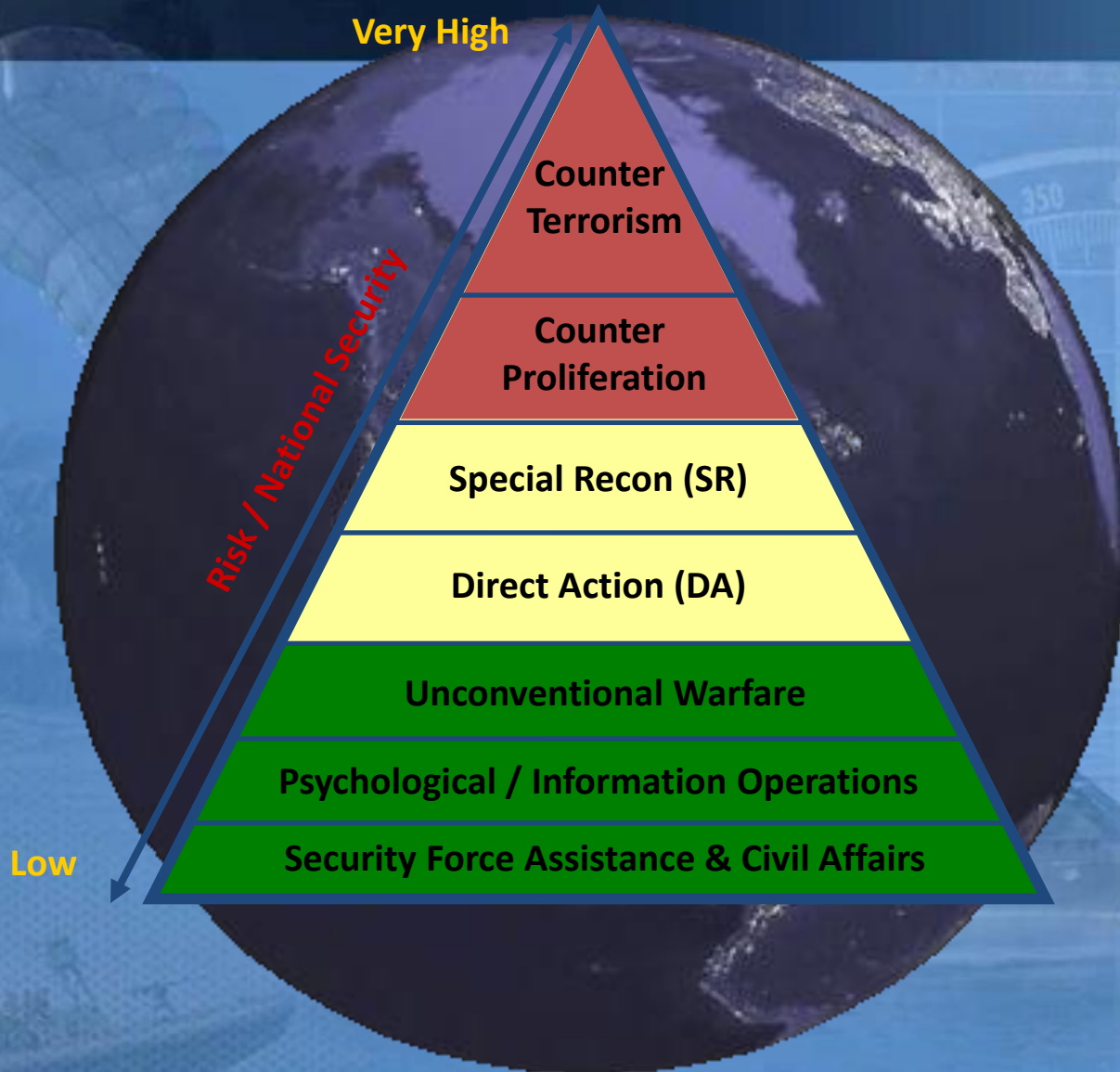


Naval Special Warfare Organization



Naval Special Warfare

What We Do



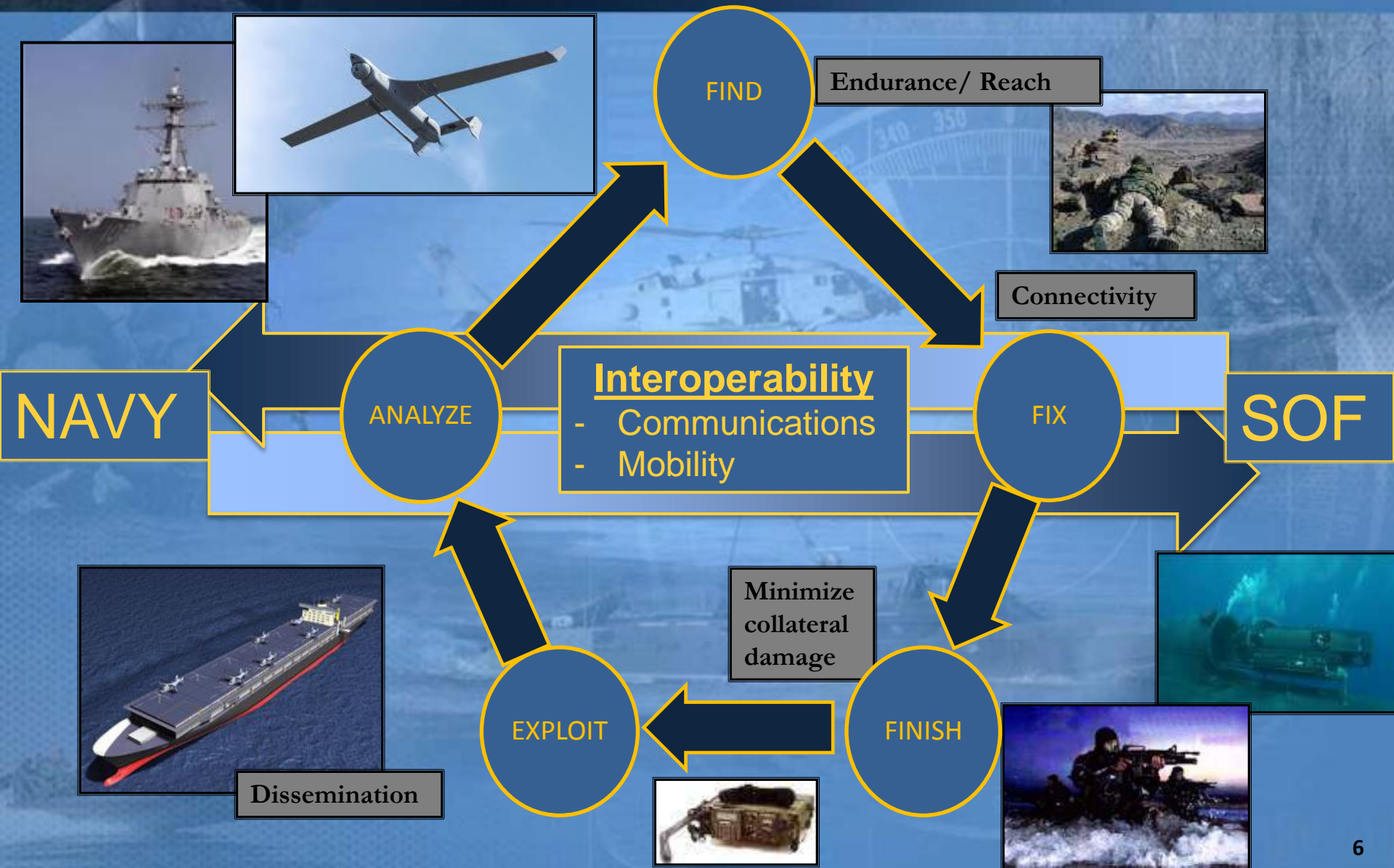
N951 Naval Special Warfare Branch

Major Efforts

- **Service common support to NSW**
- **Unmanned Aircraft Systems**
 - **Scan Eagle UAS**
 - **Small Tactical Unmanned Aircraft System (STUAS)**
- **NSW capability integration in Navy Platforms**
 - **Mobile Landing Platform (MLP) / Afloat Forward Staging Base (AFSB)**
 - **JHSV**
 - **LCS**
 - **Future platforms**
- **Precision Engagement**

N951 Naval Special Warfare Branch

Focus



N951 Naval Special Warfare Branch

Rapid Capabilities Development

➤ **Mission:**

- Identify and assess mature technologies for Expeditionary Warfare to meet urgent needs of the warfighter

➤ **Goals:**

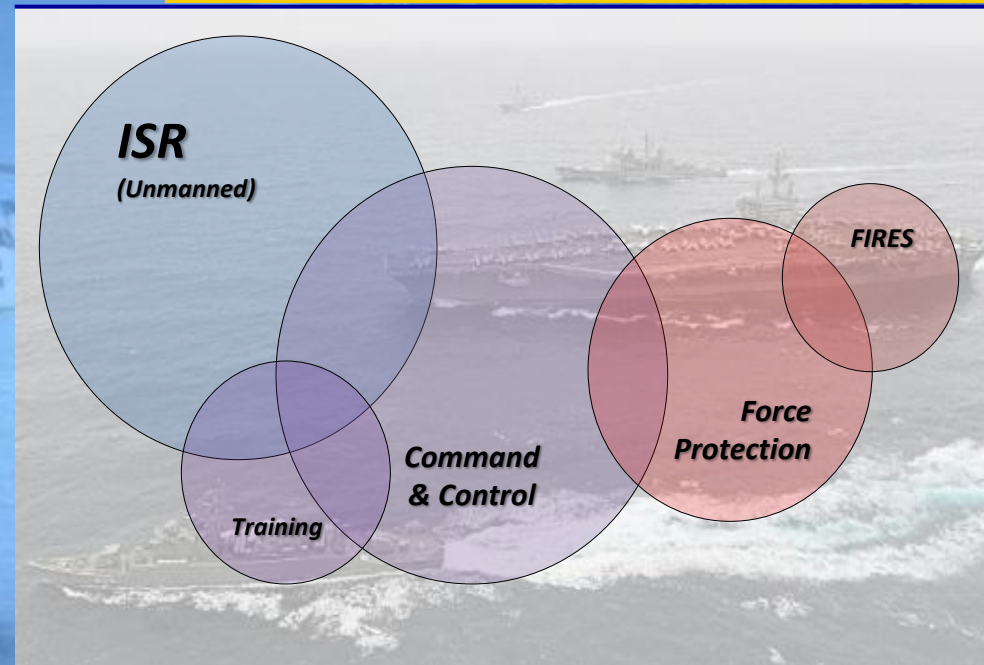
- Identify material solutions
- Integrate & test existing unique or related capabilities
- Demonstrate capabilities in operational environment, preferably during Fleet exercises or deployments

➤ **Requirements Documents:**

- COCOM Integrated Priority Lists, JUONS
- Navy Fleet IPCL, UON, unfunded gap/shortfalls, ROC
- Navy S&T/R&D guides, Lessons Learned

➤ **FY-14 Broad Agency Announcement:**

- Project proposals for FY14 efforts that support Expeditionary Warfare Capabilities
- Near-term (< 2 yrs.) solutions
- Less than \$1M
- Open through July 2014



Innovative and Mature Solutions to Accelerate Navy ExW Capabilities



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BACKUPS

Scan Eagle UAV

MISSION

Procured in response to NSW and Joint SOF Urgent Needs, the Scan Eagle UAS provides full-motion video (FMV) intelligence, surveillance, reconnaissance, and targeting support to tactical users.



Operational Overview

- IOC: Nov 08 (OIF), Aug 09 (OEF):
 - 30,000 Hrs.
 - 6,000 sorties
- Rapid Development Deployment (RDD) – Special Payload Efforts

Operational Employment:

- 9 Navy-owned systems: 6 x Operational, 2 x training, 1 x Op
- Spare hub & spoke operations (300 hrs./month)
 - Spoke (forward control station) ~100km

Equipment:

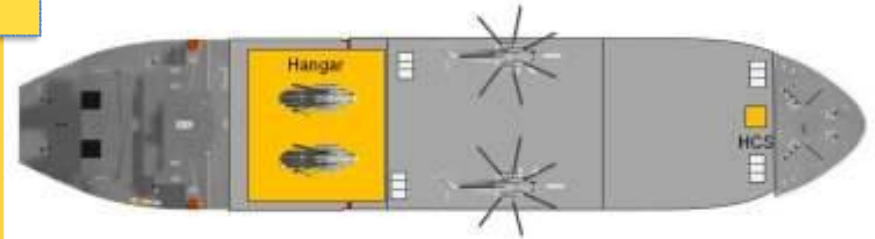
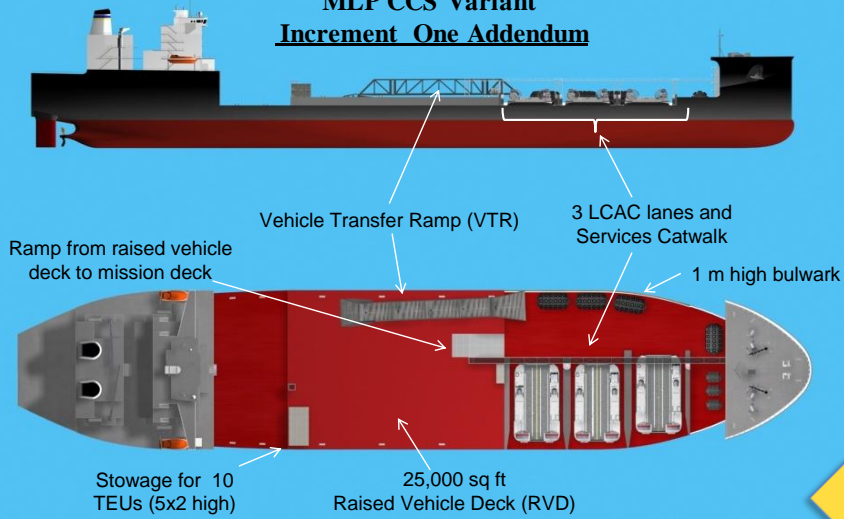
- Scan Eagle UAS (12 air vehicles per site)
- Ground control stations, launch/ recovery, pack-up & maintenance



Scan Eagle UAS is an interim capability until fielding of STUAS Program of Record ~4Q FY13

MLP/ AFSB

**MLP CCS Variant
Increment One Addendum**



AFSB Variant



STUAS



Overall Length	7.2 feet
Weight	Design gross take-off: 125 lbs.
Airspeed	80 knots
Ceiling	15,000 ft.
Range	50 nm
Payload	Electro-optical/ infrared, comm relay, AIS, LRF, IR Pointer

Naval Special Warfare (NSW)

Capability Description

- Naval Special Warfare (NSW) forces conduct special operations in support of Joint Force and Navy commanders. Examples include, but aren't limited to:
 - Direct Action
 - Special Reconnaissance
 - Foreign Internal Defense
 - Counter-terrorist Operations
- NSW Forces have been deployed to OEF since 2001 and were deployed to OIF from 2003-2011.
- Navy is responsible for providing resources to support NSW service common capabilities/sustainment.
- Categorization: Navy - only program (SOCOM interest)
 - N95 - Principal resource sponsor; responsible for (most) NSW service common procurements/sustainment (OMN, OPN, WPN).
 - N96 - Responsible for resourcing NSW service common Chemical, Biological, Radiological Decontamination Equipment (CBRDE).



N95, NSW Relationship

- **United States Special Operations Command (USSOCOM) has service-like responsibilities to plan, program, budget and execute resources for Special Operations (SO) – peculiar support, services and equipment.**
- **Military Departments have support responsibilities to plan, program, budget and execute resources for service common capabilities for Special Operations Forces (SOF). Principal guidance is provided by:**
 - Title 10, United States Code, Sections 165, 167.
 - DOD Directive 5100.01; Functions of the Department of Defense and Its Major Components.
 - Memorandum of Agreement – Department of the Navy and USSOCOM.
- **N95 is OPNAV's principal advocate and resource sponsor for the Navy component of USSOCOM - Naval Special Warfare (NSW) Command.**
 - Other NSW (resource) sponsors on the OPNAV staff include:
 - N96 – Chem/Bio equipment, Small Tactical Unmanned Aircraft System (STUAS), SOF support attributes on future surface combattants.
 - N98 – Navy helicopter flight hours in support of NSW.
 - N97 – SOF support attributes onboard Navy submarines.
- **During each POM and PR cycle, N95 considers requests submitted by Commander, Naval Special Warfare Command for sustained and/or increased service common resourcing support.**

Riverine Assault Boat (RAB)

Characteristics

Hull Type	High-grade Aluminum Rigid
Length	33 ft
Beam	9 ft
Draft	2 ft
Crew	7
Passengers	-
Twin Diesels w/Water Jets	Yes
Top Speed: full load	30 knots - cruise 40 knots - sprint
Range	250 nm
Fuel Capacity	250 gallons
C-130 Transportability	No
Combat Load	20, 500 lbs.
Bow Door/Ramp	No
Weapons Foundations	Multiple



Unclassified

Riverine Patrol Boat (RPB)

Characteristics

Hull Type	High-grade Aluminum Rigid
Length	39 ft
Beam	10 ft – 2 in
Draft	2 ft
Crew	5
Passengers	8
Twin Diesels w/Water Jets	Yes
Top Speed: full load	35 knots - cruise 38 knots - sprint
Range	275 nm
Fuel Capacity	300 gallons
C-130 Transportability	No
Combat Load	22, 800 lbs.
Bow Door/Ramp	Yes
Weapons Foundations	Multiple



Unclassified

Riverine Command Boat (RCB)

Characteristics

Hull Type	High-grade Aluminum Rigid
Length	49 ft
Beam	12 ft - 5 in
Draft	3 ft
Crew	4
Passengers	26
Twin Diesels w/Water Jets	Yes
Top Speed: full load	40 knots - cruise 45 knots - sprint
Range	>320 nm
Fuel Capacity	300 gallons
C-130 Transportability	No
Combat Load	40,000 lbs.
Bow Door/Ramp	Yes
Weapons Foundations	Multiple



Unclassified

Riverine Vehicles

MK 25 MTVR W/ MAS ARMOR KIT



UPARMORED HMMWV



CAT I



CAT II



MRAP (Mine Resistant Ambush Protected)

Remote Aquatic Directed Energy System (RADES)



Description

- Develop and demonstrate an Unmanned Surface Vessel (USV)-mounted, compact High Power Microwave (HPM) payload against a simulated swarm of Fast Attack Craft (FAC)
- The USV and HPM source will be remotely controlled from a ship with Command and Control (C2) capabilities

System Capability

- Demonstrate that RADES can successfully stop specific outboard boat motors at standoff range
- Intend to demonstrate on a 7 meter RHIB, deployable from Navy Ships, in Trident Warrior 2014 exercise

Specifics

- Warfighter Gap Alignment: Answers Integrated Prioritized Capability (IPCL) and Integrated Priority List (IPL) requirements for non-lethal force protections
- Requirements Basis: CC6, NC10, SOC10
- Major Customers: CENTCOM/NORTHCOM/SOCOM

Naval Undersea Tactical Interrogation and Covert Assessment System (NAUTICAS)

SNM/explosive detection and identification in multiple configurations.

•Crawler-deployed

•Diver portable

•Onboard

•Buoy-deployed

•UUV deployed

Description

- Develop, create, and test a covert, compact underwater active interrogation system that can non-invasively determine if explosives, special nuclear material (SNM), and/or other materials of interest are present inside a maritime vessel.

System Capability

- Active non-invasive underwater interrogation
 - Special nuclear materials
 - Explosives
 - Other
- Applicable in anti smuggling and MIW warfare areas

Specifics

- Warfighter Gap Alignment: This is the first technology to provide a capability the military currently does not have: the ability to interrogate underwater through water, shielding, and structural components (fiberglass, steel, aluminum, etc.) to examine maritime vessel contents non-invasively.
- Requirements Basis: CC2, CC8,
- Major Customers: CENTCOM/NORTHCOM