Southeastern New England Defense Industry Alliance

Mr. Donald Hoffer
Executive Director
Commander Submarine Forces
Global Maritime Presence

**Surface Ships**
- Large volume maritime warfighting capacity
- Overt; ideal for “signaling”
- Inspection and boarding operations

**Naval Air Forces**
- High speed reaction
- Ability to reach far inland
- Repeat missions (“reload”) with a “Man in the loop”
- Highly flexible operations

**Undersea Forces**
- Flexible and survivable nuclear deterrent
- Capable of undetected operations (intel)
- Can penetrate deep into enemy waters
- Capable of long-endurance independent offensive operations far forward

Since WWII, the U.S. Navy has used its global dominance to stabilize the world’s maritime commons, permitting the greatest expansion of trade, prosperity and living standards in history

**US Submarine Force**
- ~6% of Navy Personnel
- ~25% of Warships
- ~15% of Navy Budget
- ~70% of accountable nuclear warheads
- 100% of survivable warheads
- Over 4100 SSBN patrols completed (over 1275 Trident patrols)
Under Sea Warfare Vision 2025
Now in the Program

Other Future Missiles

Advanced TACTOM Maritime / OASUW

TLAM Re-Cert / NGLAW

UAV

EM Spectrum +

LDUUV

Acoustic Superiority

Future HWT

Small UUV

Energy Resupply

Undersea Constellation

Netted Sensors

Prepare for Battle and Extend the Vision
Multi-Organization Collaboration to Achieve High Velocity Outcomes

Integrating Industry, Academia, and Government

SELECT

GUIDE

CHAMPION
Transition Advisory Board
CSF-ED
N97B

TEMPALTS ● OPALTS ● SHIPALTS
Spiral DEV ● POR INSERT ● ARCI

Rapidly Acquire

Assess & Integrate

Demonstrate

POCs:
OPNAV N-97
ONR-G Science Advisor

SCO
DIUx
DARPA
Academia
FFRDCs
Industry
Warfare Centers
Navy Labs
UARCs
ONR

TAB Working Group
SUBLANT
SUBPAC
OPNAV
UWDC
UWDC
NAVSEA
PEO-IWS

Deliver Near-Term Warfighting Capabilities

WARGAMES ● TTP ● CONOPS

URCI ● RPED ● TACDEV
OPERATIONAL PROTOTYPING

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Integrating Industry, Academia, and Government
COMSUBFOR-NAVOCEANO Teaming
Bringing POR Submarine Launched UUVs to the Warfighter

2014 - 2015
NAV0 Existing POR; LBS-UUV
LBS-AUV
COMSUBFOR URCI
Submarine/UUV Experimentation

2016
Fleet Modular Autonomous Undersea Vehicle (FMAUV)
FMAUV Operational Demonstration

2017-2019
Training
Maintenance
Logistics

LBS-AUV(S) Razorback IOC FY-19

High Velocity Outcome ⇒ RAZORBACK POR