



Unmanned Maritime Systems



23 Aug 2016







PMS406 Unmanned Maritime Vehicles (UMV)











Hunting for Volume and Bottomed / Buried Mines in High Clutter Environment

Intelligence Surveillance Reconnaissance (ISR), ASW, IPOE and Deployable Payload

Deployable Payloads











Mine Hunting

Mine Sweeping

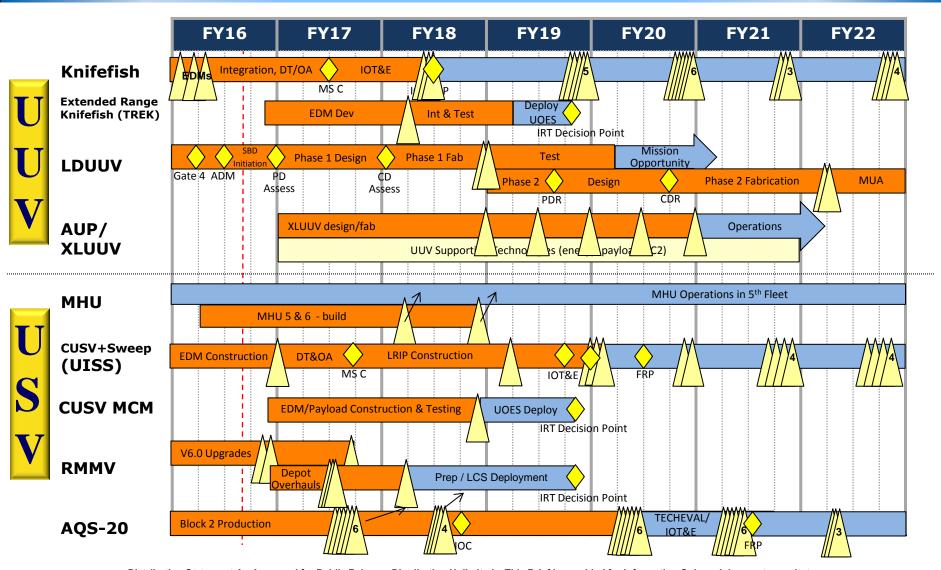
Mine Hunting

Mine Hunting w/ AN/AQS-20 Sonar



Notional UMV Plan

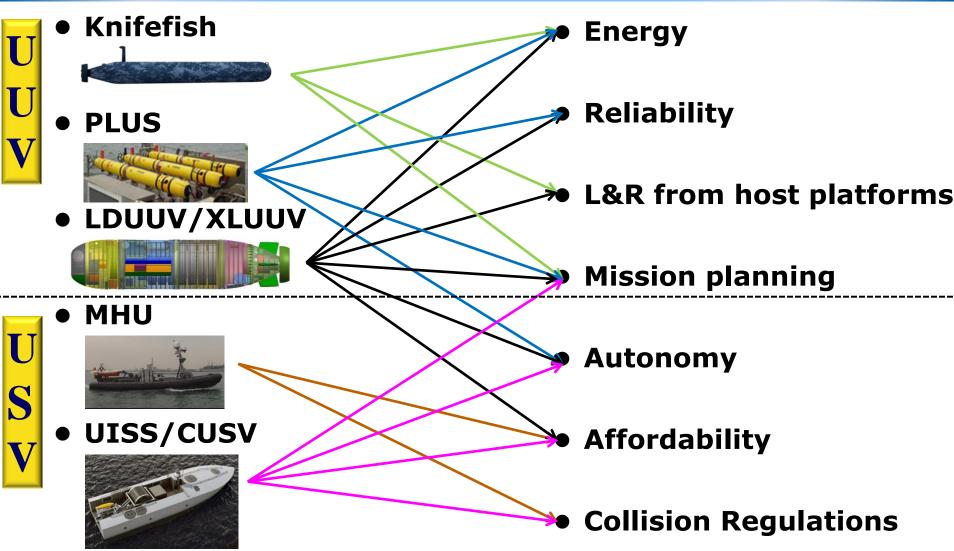






UMV Challenges/Opportunities







Mine Hunting Unmanned Surface Vehicles (MHU)





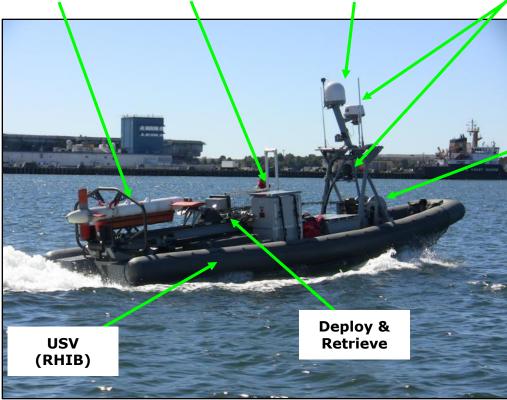
AQS-24A Electronics

Communication Antennas

Day/Night Situational Awareness Sensors

Command & Control (C2) Host Station

AQS-24A Host Operator's Console



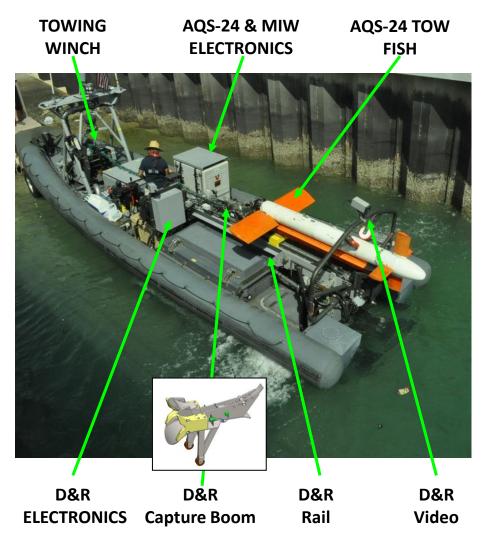
Towing Winch

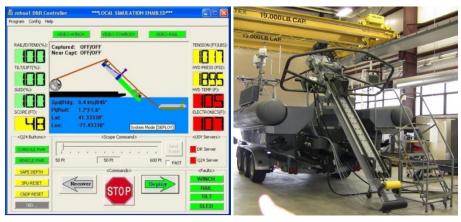


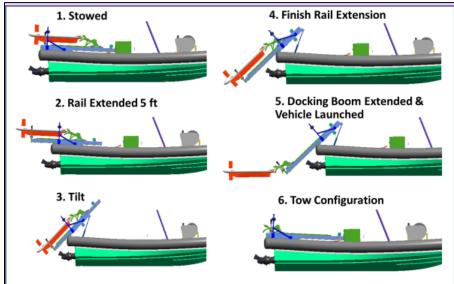


MHU Payload Deploy & Recovery





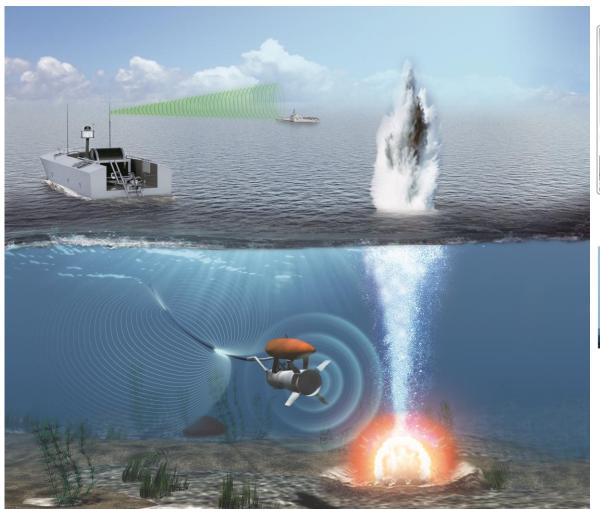






Unmanned Influence Sweep System (UISS)









Conceptualized images



Unmanned Influence Sweep System (UISS) Overview



Requirements Documents

Provides low-cost, long endurance, semi-autonomous mine sweeping capability to counter acoustic and/or magnetic influence mines.

Acquisition Key Milestones

✓ Draft RFP released: Q1FY13

✓ Industry Day held: Q1FY13

✓ RFP release: Q4FY13

✓ Proposals received: Q1FY14

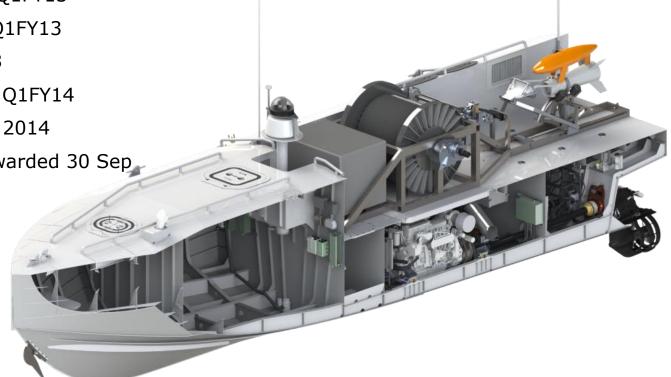
✓ MS B Decision: Aug 2014

✓ Source Selection: Awarded 30 Sep 2014

✓ PDR: April 2015

✓ CDR: Jan 2016

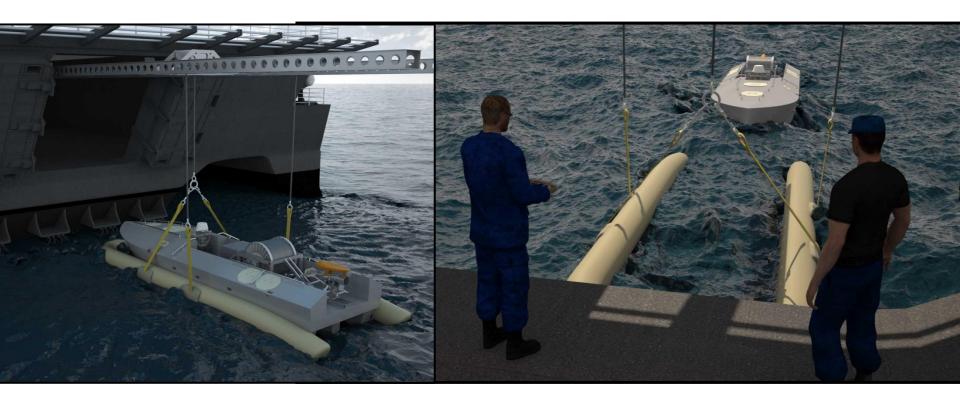
■ EDM Construction





Unmanned Influence Sweep System (UISS)







Operational Range Extension Potential Operational Concept







Unmanned Multirotor Aerial Relay (UMAR)



