



PMS 406 UNMANNED MARITIME SYSTEMS

Program Overview

Sea Air Space

AUGUST 2021

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UNMANNED MARITIME SYSTEMS ACQUISITION

ASN (RDA)

DASN Ships

PEO Unmanned and Small Combatants (PEO USC) RDML Moton

Expeditionary

PMS 420
CAPT Weekes



MCM USV



MHU



Knifefish

PMS 408
CAPT Malatesta



MK18 MOD 2



MEMUUV



MK18 MOD 1



Small UUV

PMS 340
CAPT Olavin



MK18 MOD 1

Undersea

PMS 406
CAPT Small



Orca XLUUV



Snakehead LDUUV



Razorback



Core Technologies

Surface



MUSV



LUSV



Enabling Capabilities



UNMANNED MARITIME SYSTEMS

Note: Vehicles not to scale

Unmanned Surface Warfare



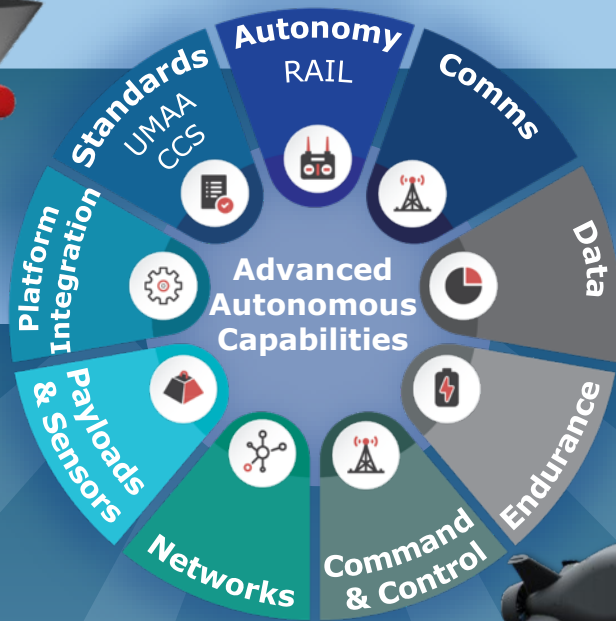
LARGE USV



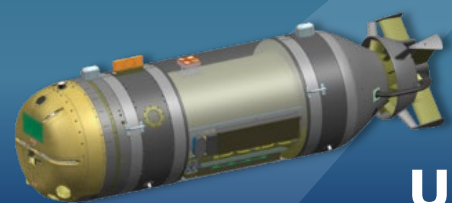
MEDIUM USV



PROTOTYPES



RAZORBACK MUUV



SNAKEHEAD LDUUV



ORCA XLUUV

Unmanned Undersea Warfare



UMS AT SEA



OVERLORD USVs RANGER & NOMAD
ON THE WEST COAST

SEAHAWK & SEA HUNTER
AT IBP21



RAZORBACK
AT UUVRON 1



AUTONOMY VISION

Rapid Autonomy Integration Lab (RAIL)

RAIL

Software Factory

DevSecOps

Peer Groups

Enablers

Common Control

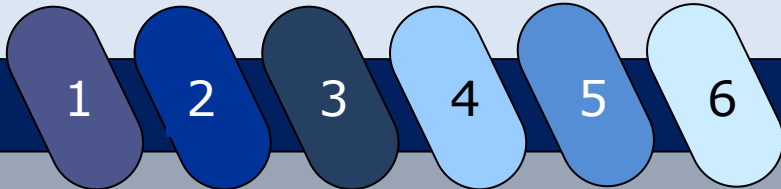
Autonomy Architecture

Data

1. Software Factory
 Digital engineering infrastructure, tools, and processes to rapidly develop, test, certify, and deploy new autonomous capabilities

2. DevSecOps
 Automated software tools, services, and standards that enable programs to develop, secure, and deploy applications securely

3. Peer Groups
 Identify autonomy gaps, requirements, and performance metrics



4. Common Control (CCS)
 Standardize vehicle planning and control across platforms

5. Autonomy Architecture (UMAA)
 Standardize autonomy interfaces

6. Data
 Make data available to support AI and autonomy development