



Sea Air Space Symposium

*Howard Berkof
Deputy Program Manager
PMS406
03 April 2017*



Distribution Statement A: Approved for Public Release; Distribution Unlimited. This Brief is provided for Information Only and does not constitute a commitment on behalf of the U.S. government to provide additional information and / or sale of the system.



PEO LCS Portfolio

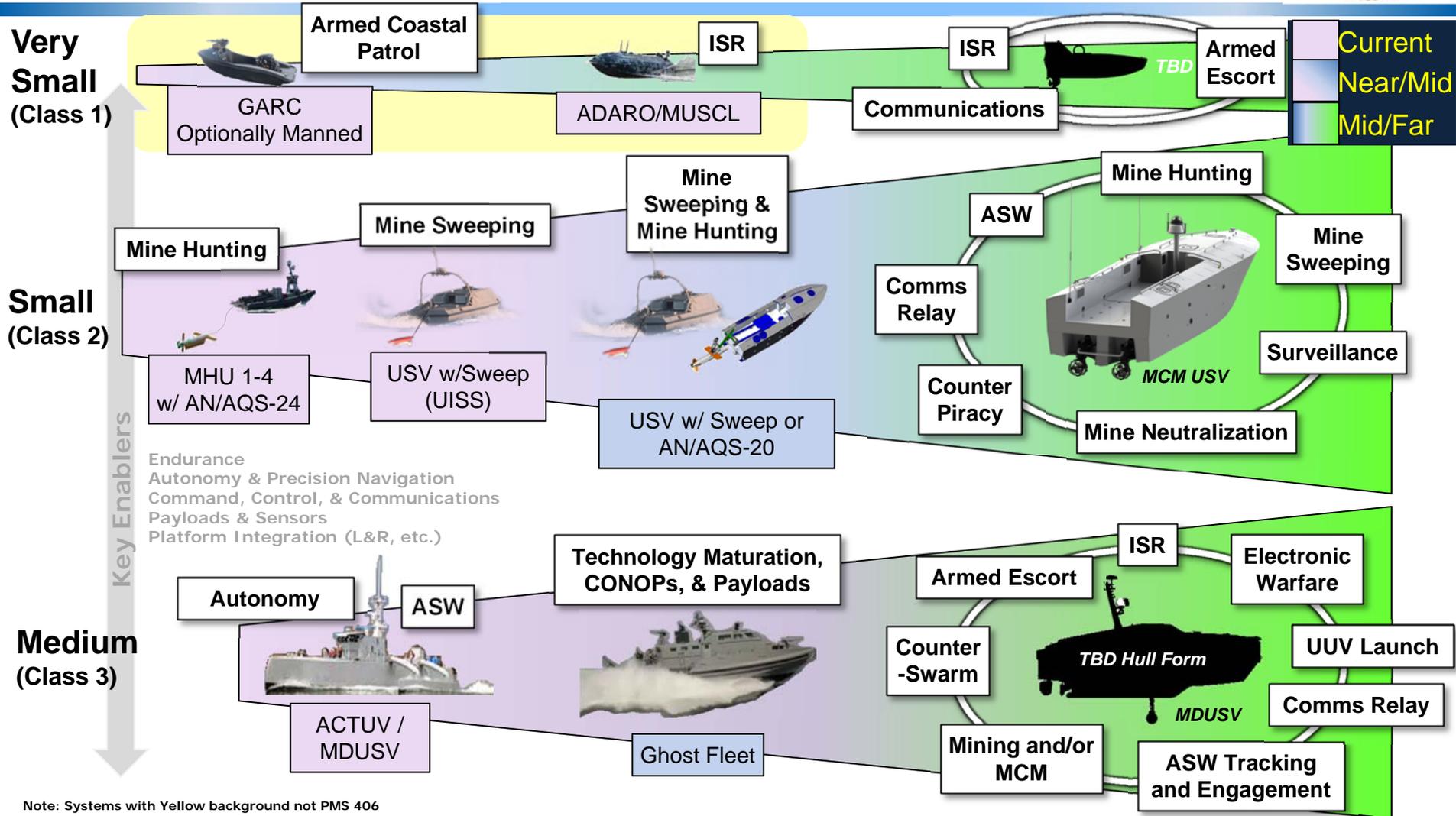


Distribution Statement A: Approved for Public Release; Distribution Unlimited. This Brief is provided for Information Only and does not constitute a commitment on behalf of the U.S. government to provide additional information and / or sale of the system.



USV Systems Vision

Enhanced, Efficient Capabilities



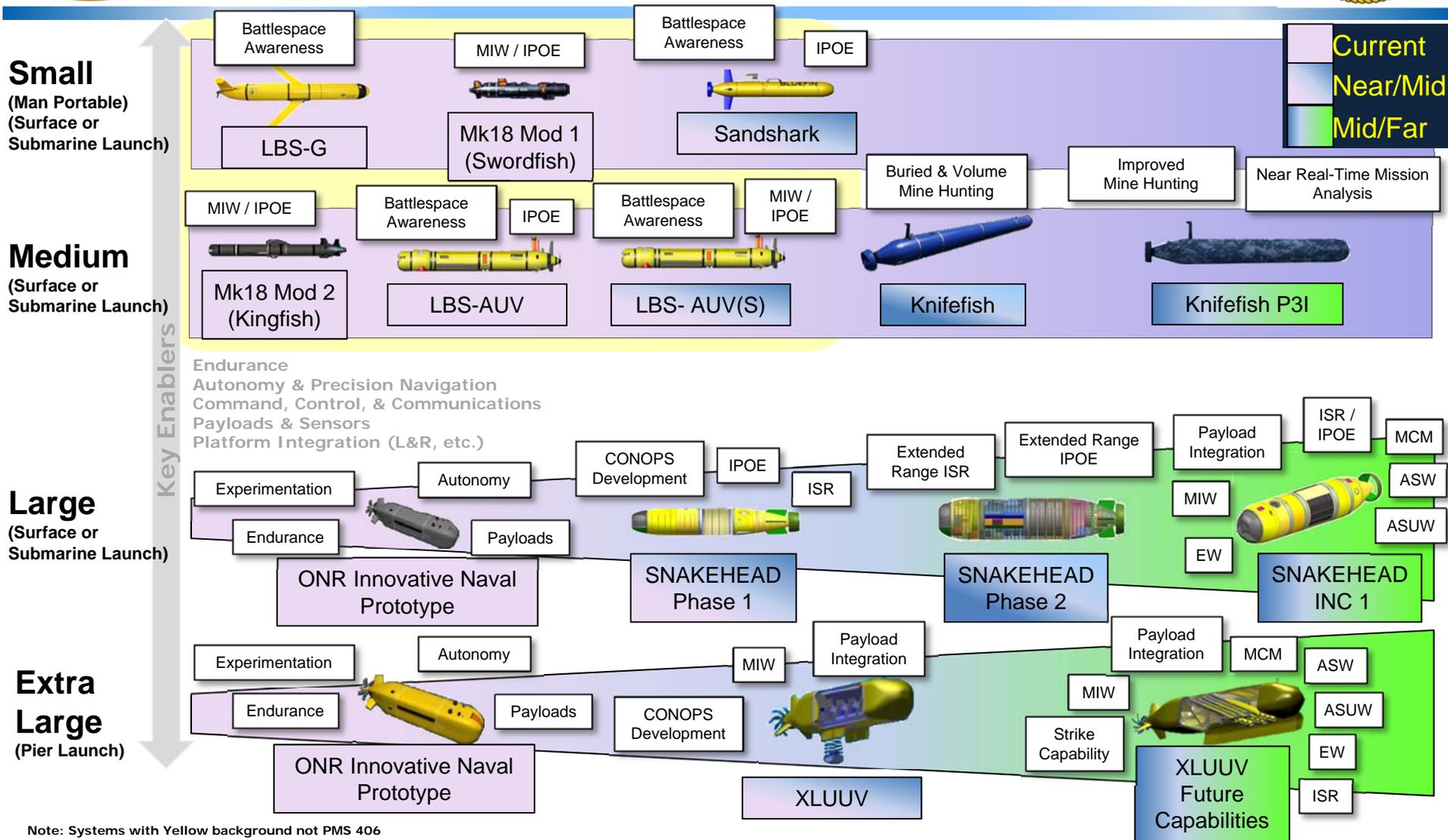
Note: Systems with Yellow background not PMS 406

Efficient, Executable Progression of Capabilities onto Common USV Hull Forms



UUV Systems Vision

Enhanced, Efficient Capabilities



Efficient, Executable Progression of Capabilities through Various UUV Systems

and does not constitute a commitment on behalf of the U.S. government to provide additional information and / or sale of the system. 4



Examples of Systems



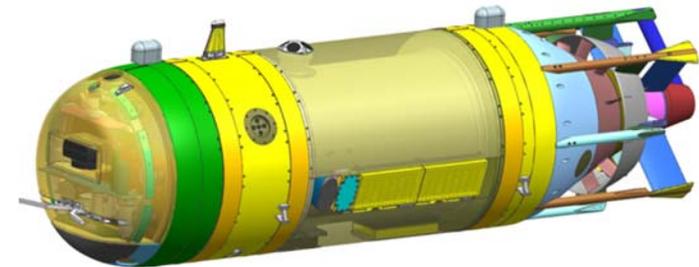
Mine Hunting Units (MHU)



Unmanned Influence Sweep System (UISS)



Knifefish
UUV



Snakehead LDUUV



Summary

- LCS is the first ship class designed and built from the keel up to support unmanned systems
 - Unmanned Systems key to success of LCS and its mission packages
 - Modularity allows inclusion of latest and greatest technology as systems evolve
- Unmanned systems are growing
 - Key enabler for both LCS & Undersea Enterprise
 - Expand the Navy's warfighting capability by relieving the burden of existing mission tasks and introducing new possibilities
- Incremental approach to delivering capability
 - Leverage and improve enabling technologies

Unmanned Systems are Vital Part of Future Navy Force



Questions?



Distribution Statement A: Approved for Public Release; Distribution Unlimited. This Brief is provided for Information Only and does not constitute a commitment on behalf of the U.S. government to provide additional information and / or sale of the system.



Acronym List

- **ACTUV** Autonomous Continuous Trail Unmanned Vehicle
- **ASW** Anti-Submarine Warfare
- **ASuW** Anti-Surface Warfare
- **EW** Electronic Warfare
- **IPOE** Initial Preparation of Operational Environment
- **ISR** Intelligence, Surveillance, & Reconnaissance
- **LBS-G** Littoral Battlespace - Glider
- **LBS-AUV** Littoral Battlespace – Autonomous Underwater Vehicle
- **LBS-AUV(S)** Littoral Battlespace – Autonomous Underwater Vehicle (Submarine)
- **MCM** Mine Countermeasures
- **MDUSV** Medium Displacement USV
- **MHU** Mine Hunting Unit
- **MIW** Mine Integration Warfare
- **MUSCL** Modular Unmanned Surface Craft, Littoral
- **P3I** Pre-Planned Product Improvement
- **USV** Unmanned Surface Vehicle
- **UUV** Unmanned Undersea Vehicle

Unmanned Systems are Vital Part of Future Navy Force