Originally established in 1992 as PEO Mine Warfare (PEO MIW)

Realigned as *PEO Littoral and Mine Warfare (PEO LMW)*
*OCT 2002* assigning increased responsibility for Undersea and Littoral Warfare programs

PEO LMW designs, delivers and maintains the systems, equipment and weapons needed by the warfighter to dominate the littoral battlespace and provide the *Warfighter Assured Access!*

PEO LMW is comprised of 165 civilians and 35 military supplemented by Field Activities and other personnel responsible for the *development, acquisition, and life-cycle support of more than 220 systems.*
MK 1 & MK 2 Explosive Ordnance Disposal (EOD) ROBOTS

Mission
- Complement/augment the EOD technician when performing reconnaissance, render safe, and disposal during EOD missions
- Indoor/outdoor
- Improvised Explosive Devices (IEDs) and Unexploded Ordnance (UXO)

Characteristics
- Easily transportable and quick set-up
- Indoor operation - stairs, doorways
- Outdoor operation - slopes, mud, high grass, rubble
- 2 hr endurance
- Range - 800m (wireless), 200m (tethered)
- Interoperable with EOD tools

Full Life-Cycle Support for both configurations

Systems fielded:
- 1,868 MK 1 & MK 2 EOD Robots
Family of robotic systems

- Dismounted Operations
- Tactical Operations
- Base/Infrastructure Operations

Family is characterized by the interoperability of its subsystems via Government-controlled logical, electrical, and physical interfaces and the commonality of its Operator Control Unit (OCU)

Family is also characterized by the interchangeability of its initial subsystems with future subsystems that can be procured using full and open competition

DoD Modular Open Systems Approach (MOSA) Policy

Draft Capability Development Document (CDD) in review / approval process

Milestone B planned for September 2010
AEODRS SELECTED PRELIMINARY REQUIREMENTS

- **Dismounted Operations**
  - Back-packable, 35 lbs including backpack
  - 100 meter range
  - Low Degree-of-Freedom manipulator, 5 lbs lift at full extension
  - Able to travel through 18 inch culvert

- **Tactical Operations**
  - Vehicle two-man transportable for short distances – no greater than 164 lbs
  - 1000 meter range
  - Dual Arm Manipulator – Lift 44 lbs at full extension, 110 lbs close-up

- **Base/Infrastructure Operations**
  - System weight – 750 lbs
  - 1200 meter range
  - Dual Arm Manipulator – Lift 75 lbs at full extension, 300 lbs close-up

- **Autonomy**
  - Point and Click navigation with obstacle detection and obstacle avoidance
  - Automatic end effector changeout
  - Point and Click end effector positioning
SUMMARY

- AEODRS is the fourth generation of military EOD robots
- AEODRS is being developed as a family of systems using a modular open systems approach
- The up-front focus on subsystem interoperability and interchangeability will enable faster acquisition with demonstrated technology, provide continued access to state-of-the-art technologies, and prevent being locked into a proprietary system
PMS 408 (EOD) POCs
for Joint Service EOD Robotics

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