

Section 5

PEO LS TOP TECHNICAL ISSUES

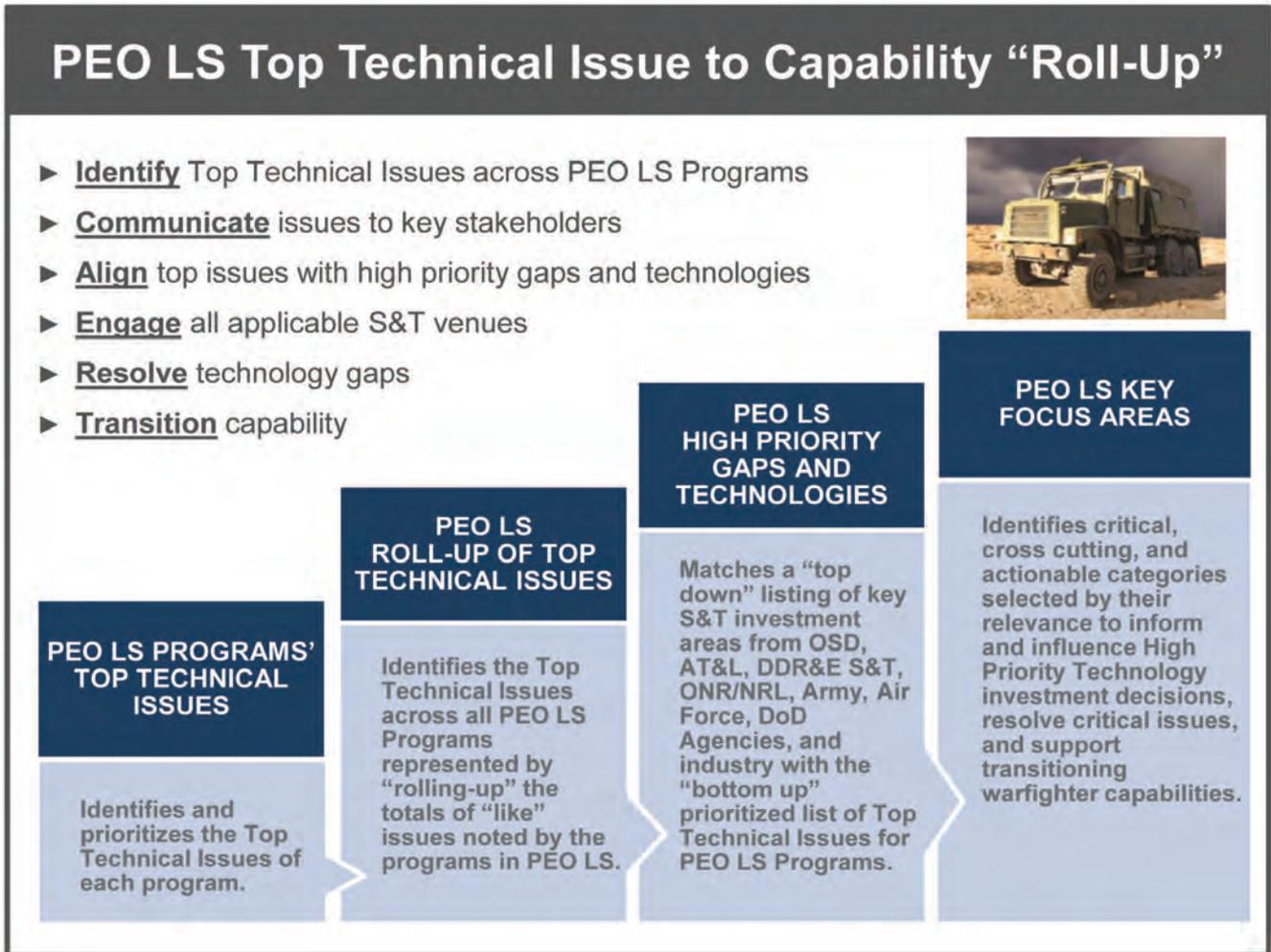


Figure 5-1. PEO LS Technical Issues to Capability “Roll-Up”

The process of determining which Top Technical Issue will result in development of an associated capability begins with identification and prioritization of PEO LS programs’ Top Technical Issues. These issues were vetted through each program’s S&T Representative, Lead Engineer, Deputy Program Manager, and Program Manager for concurrence and prioritization.

The Top Technical Issues across all PEO LS programs are then “rolled up” into similar categories

that establish key Focus Areas and informs the prioritization of funding and research efforts. A “top down” approach of aligning S&T investment areas with the “bottom up” prioritized list of Top Technical Issues ensures a consolidated and focused effort to resolve each program technical issue (see Figure 5-1).

This process assists S&T Representatives from all PEO LS programs to work through the Top Technical Issues of their programs and identify capability gaps

where S&T could potentially lead to requirement solutions. This collaborative approach has proven extremely valuable not only in identifying individual program technical issues but also in identifying technology issues that are common among other PEO LS programs. By understanding these common

technical challenges, PEO LS can better align and leverage resources across the S&T Enterprise.

Figure 5-2 identifies the Top Technical Issues of each PEO LS Program.

PEO LS Programs' Top Technical Issues	
Program	Technical Issues
Assault Amphibious Vehicle (AAV)	<ul style="list-style-type: none"> Survivability Weight/Buoyancy Management Sustainment/In-Service Engineering
Amphibious Combat Vehicle Phase 1 Increment 1 (ACV 1.1)	<ul style="list-style-type: none"> Survivability Weight Crew Visibility
Common Aviation Command & Control System (CAC2S)	<ul style="list-style-type: none"> Voice Network Direct Air Cooling Future Data Link Receiver and Processor
Ground Based Air Defense (GBAD)	<ul style="list-style-type: none"> Stinger Night Sight Replacement Secure Wireless Communication
Ground/Air Task Oriented Radar (G/ATOR)	<ul style="list-style-type: none"> Lowering Manufacturing Costs Transmit/Receive (T/R) Module Efficiency Lightweight Material
High Mobility Multipurpose Wheeled Vehicle (HMMWV)	<ul style="list-style-type: none"> Performance Energy Consumption Reliability/Durability
Internally Transportable Vehicle (ITV)	<ul style="list-style-type: none"> Safety (Stability) Weight Saving Technology Digital Architecture
Joint Light Tactical Vehicle (JLTV)	<ul style="list-style-type: none"> Weight/Armor Corrosion Resistance JLTV- CCWC Missile Reloading Design
Logistics Vehicle System Replacement (LVSr)	<ul style="list-style-type: none"> Fuel Economy Increased Survivability Safety
Medium Tactical Vehicle Replacement (MTVR)	<ul style="list-style-type: none"> Fuel Economy Increased Survivability Safety
Mine-Resistant Ambush Protected (MRAP) Family of Vehicles: Buffalo, Cougar and M-ATV	<ul style="list-style-type: none"> Transparent Armor/Ballistic Glass Performance and Safety Improvements C4I Interoperability (VICTORY)
Lightweight 155mm Howitzer (LW 155)	<ul style="list-style-type: none"> Safe and Transportable Battery High Capacity Technology Secure Wireless: Ruggedized/Low energy Navigation in a GPS Denied Environment

Figure 5-2. PEO LS Programs' Top Technical Issues Roll-Up