

## 2.00 PEO LS Top Technical Issues

*“In an era where new technologies are empowering potential enemies – state and non-state actors alike – our military must maintain its technological edge.”*

-Leon E. Panetta, U.S. Secretary of Defense, October 11, 2011

### Technical Issue to Capability “Roll Up”

The PEO LS S&T Directorate has taken a consistent, deliberate, and focused approach toward assisting the Program Managers (PMs) in answering the top technical challenges of their programs. This “Concept to Capability” approach allows S&T representatives to work through the Top Technical Issues of their programs and apply S&T initiatives that provide potential solutions to their identified challenges.

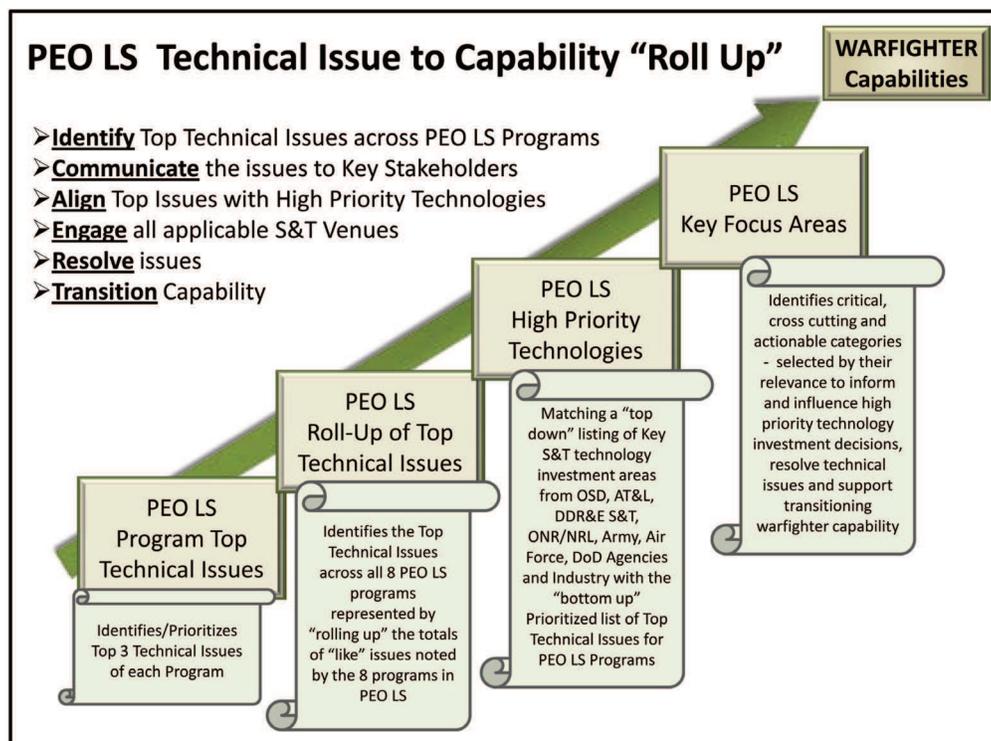


Figure 1 – PEO LS Technical Issue to Capability “Roll Up”

This collaborative approach has proven extremely valuable, not only in identifying individual program technical issues, but also by identifying technology issues common among other PEO LS Programs. By understanding these common technical challenges, PEO LS can align the issues with High Priority Technologies, determine key focus areas and technology investment venues/forums that lead to solutions. Figure 1. illustrates the “Roll Up” of PEO LS technology issues.

## Top Technical Issues

The Top Technical Issues of each individual PEO LS Program, vetted through the Program's S&T Representative, Lead Engineer, Deputy PM, and PM for concurrence and prioritization, are identified below, in Figure 2.

<b>PEO LS Program Top Technical Issues</b>	
<b>Program</b>	<b>Technical Issues</b>
Amphibious Combat Vehicle (ACV)	Increased Survivability Increased Weight Margin Crew Visibility
Joint Light Tactical Vehicle (JLTV )	Weight/Armor Reliability, Availability, Maintainability (RAM) Modeling and Simulation (M&S) Seat Shock/Vibration
Marine Personnel Carrier (MPC)	Survivability Weight Reduction On-Board and Exportable Power
Logistics Vehicle System Replacement (LVSR)	Fuel Economy Current & Future C4I Integration Demands Increased Survivability
Medium Tactical Vehicle Replacement (MTVR)	Fuel Economy Current & Future C4I Integration Demands Increased Survivability
Common Aviation Command & Control System (CAC2S)	Global Track Manager Database Hardware Infrastructure Design Multiple Interface Formats
Ground/Air Task-Oriented Radar (G/ATOR)	Lowering Manufacturing Costs Transit/Receive (T/R) Module Efficiency GaN Reliability
Lightweight 155mm Howitzer (LW 155)	Modular Artillery Charge (MACS) Compatibility with the M777A2 Howitzer Power Upgrades Thermal Warning Device Reliability
Assault Amphibious Vehicle (AAV)	Survivability Weight/buoyancy management Sustainment/In-service engineering
High Mobility Multipurpose Wheeled Vehicle (HMMWV)	Performance Survivability Reliability/Durability

**Figure 2 – PEO LS Program Top Technical Issues**