



Empowering DoD's Decision Advantage

LMI's Data and AI Solutions for Strategic Mission Success

LMI supports the Department of Defense (DoD) Chief Digital and Artificial Intelligence Office (CDAO) with complex technical challenges for the development of scalable data- and AI-enabled solutions for supply chain risk, logistics decision support (LDS), and joint maintenance inventory support across the department and on the battlefield.

Supply Chain Risk Evaluation Environment

LMI is supporting the development of the Supply Chain Risk Evaluation Environment (SCREEn) platform for supply chain risk identification, prioritization, and mitigation planning. Built in Advana, SCREEn serves as the foundation of a data-driven, enterprise approach to mitigate defense industrial base vulnerabilities by facilitating comprehensive, holistic, persistent, and actionable risk evaluation and end-to-end decision support to enhance resiliency in acquisitions and sustainment.



The platform integrates dissimilar data from commercial and government sources across non-classified internet protocol networks, secret internet protocol networks, and joint world-wide intelligence communications systems.

SCREEn's actionable, decision-making feature is enabled by disruptive "shock" events and counter-acting mitigation and resilience investments that are programmed into simulations. The simulation that models apply produce a range of mitigation effects for supply chain resiliency analysis.

Actionable	Holistic	Persistent	Comprehensive
Provides DoD with decision-ready analytics that drive mitigation actions using commercial and USG data at multiple classification levels.	Identifies systemic risks across the department, defense industrial base, military services, and program offices.	Provides a capability for both proactive and reactive risk assessment and mitigation planning across the entire lifecycle.	Identifies risk across diverse risk categories captured in the DoD SCRM Taxonomy and their interrelationships.

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Petroleum, Oil, and Lubricant Availability and Resiliency

The military requires an LDS capability to achieve operational superiority in contested environments by enabling faster, more intelligent decision-making and ensuring readiness and sustainment for Class III petroleum, oils, and lubricants (POL) support.

LMI is developing the POL Availability and Resiliency (POLAR) LDS for CDAO as a sophisticated what-if simulation engine to enhance understanding of the impact of operational decisions, such as resourcing and mission location selection, on POL supply availability.

POLAR allows users to quickly connect desired outcomes to the optimal use of resources, including the following:

- Fuel consumption projections for the next 24 to 72 hours
- Anticipated limiting factors to support operations
- Days of POL supply on-hand in inventory
- Mission impact at discrete locations from degradation of POL storage, resupply, or support equipment availability due to kinetic or non-kinetic attacks
- POL storage, resupply, or support equipment sufficiency to prosecute the mission at distributed locations
- Analysis of POL storage, resupply, or support equipment requirements gaps and risk trade-offs to enable prioritized mission.

Maintenance and Availability Data Warehouse

LMI developed the Maintenance and Availability Data Warehouse (MADW™) for DoD as a critical resource for integrating and analyzing joint maintenance

MADW™

transaction data from the military services to support readiness decision-making at the enterprise level. Deployed with Advana, MADW™ integrates the sustainment, inventory, availability, cost, and supply data for every weapon system and readiness-reportable piece of equipment in DoD. LMI converted each of MADW™'s more than 2.7 billion maintenance and supply transactional records to a standard format, uncovering maintenance costs and availability loss drivers. Whether at the highest levels of DoD or at the service level, decision-makers can analyze and understand the past and present to shape the readiness of weapon systems and the future.

About Us

At LMI, we're reimagining the path from insight to outcome at the new speed of possible. Combining a legacy of over 60 years of federal expertise with our innovation ecosystem, we minimize time to value and accelerate mission success. We energize the brightest minds with emerging technologies to inspire creative solutioning and push the boundaries of capability. LMI advances the pace of progress, enabling our customers to thrive while adapting to evolving mission needs.

Learn more at lmi.org >