The Value of LMI's Cost of Readiness Engine (CORE)

Balancing readiness and cost poses a persistent challenge for complex federal entities. Understanding the impact of near-term resource allocation decisions on long-term operational effectiveness is vital. Solutions must integrate a wide array of sustainment data inputs—equipment, supply chains, personnel, training, infrastructure, and financials—to swiftly align desired outcomes with the optimal allocation of scarce resources. LMI addresses this challenge with our Cost of Readiness Engine (CORE), simplifying the execution and evaluation of dynamic sustainment simulations and their associated costs.

What is CORE?

CORE, a macro-level decision support tool, leverages a sophisticated simulation engine with a collection of models integrated into a single framework. Component models include demand and cost forecasting, stock item lead time estimation, and repair and maintenance requirements prediction. CORE's simulation engine governs the interaction between these models; it executes the relevant models for the simulation scenario and feeds the outputs of one model into others.

CORE's modular models can run in parallel and at scale, facilitating simulation and subsequent analysis across large, complex organizations.

What can I do with CORE?

- **Improve Strategic Resource Planning:** Gain deeper insights on the feasibility of target readiness levels across portfolios. Foster proactive strategic resource planning, mitigating risks and bolstering the quality of strategic decision-making processes.

- **Understand Resource Requirements:** Find the resource allocations needed for specific readiness levels. Invest selectively for operational success.

- **Enhance Operational Decisions:** Address inquiries, such as, "Given a distribution of personnel, supply, assets, and operational tempo, what is the anticipated operational availability of equipment?"

How does CORE work?

Following a systematic validation and collaborative process, CORE is introduced via a data readiness assessment and initial proof of value, followed by delivery of transparent and pragmatic solutions to maximize the effect of organizational resource decisions on readiness.

CORE is part of LMI's LogSmart™ suite of solutions addressing common, but often complex, logistics challenges. LogSmart™ solutions use advanced modeling and simulation, artificial intelligence, and machine learning to empower users to make mission-critical decisions at the pace of need. Find out more on our LogSmart™ solutions page.

Learn more at lmi.org ›

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