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Trusted Integrator

- Space Warfighting Analysis Center (SWAC)
- Space Security and Defense Program (SSDP)
- Space Systems Command (SSC)
- United States Space Command (USSPACECOM)
- Space Training and Readiness Command (STARCOM)
- National Space Defense Center
- Intelligence Community

Proven Innovation

- 2024, '23, '22, & '21 SWAC Force Design Conferences
- 2024 SSC's Space Based Environment Monitoring Futures Branch
- 2024 SSDP Battle School
- 2022 Secretary of Defense & Director of National Intelligence Space Strategic Review
- 2020 Space Security and Defense Program LEO Force Package Analysis
- 2019 AE CORONOA Event & Secretary of the Air Force 90-Day Study
- 2019 Office of the Secretary of Defense Strategic Portfolio Review

2019 AFWERX Space Pitch Day

R/IPTR®

Rapid Analysis and Prototyping Toolkit for Resiliency

RAPTR® is LMI's flagship model-based system engineering simulation and analysis platform that has the authority to operate at all security levels within the national security space enterprise. RAPTR® is rapidly customizable and provides an extensible, scalable data library that enables modeling, simulation, prototyping, analysis (MSP&A), and visualization for each mission-specific need across the space warfighting domain, as well as cross-domain integration.

Intuitive graphical user interfaces and streamlined workflows combined with advanced 2D/3D visualizations allow users to obtain critical data to perform missions with speed, agility, and accuracy. The complete RAPTR® offering includes extensive mission-specific subject matter expertise, integration amongst other MSP&A platforms, and big-data analytics to enable on-orbit decisions at tactical, operational, and strategic levels.

Data Analytics Suite

Provides automated and interactive tools tailored for data analysis of the entire suite of RAPTR® applications, while generating plotting capabilities and geospatial views of data in near real-time.

Wargaming Simulation

Extends RAPTR®'s agent-based simulation capabilities to incorporate operatorin-the-loop decisionmaking and support new use cases including wargames, exercises, and training.

Knowledge Management

Provides a sharable database accessed via web-based client, featuring visualizations in a nodal graph format.

Commander's Dashboard

Provides operators the ability to visualize satellite catalogs in real time to defend highly valued assets against harmful objects.

Concept Analysis

Provides engineers, analysts, and operators with a variety of toolsets that allow them to evaluate "what if" scenarios involving space-based and groundbased kinetic weapons, RF jammers, directed energy systems, and high-power microwave technologies.

Communication Analysis

Concept analysis specifically focused on higherfidelity detailed RF communications and electronic warfare capabilities.

Agent-Based Simulation

Provides a modeling and simulation engine for calculating complex interactions and behavioral analysis between space, air, maritime, and terrestrial based assets.

Course of Action Planning & Analysis

Generates in-depth satellite maneuvering solutions to determine the best course of action for satellites to take for both offensive and defensive scenarios, and results in generating an optimized mission plan.





Mission Areas

- Orbital Warfare
- Electronic Warfare
- Space Data Transport & SATCOM
- Rendezvous & Proximity Operations



- Space Control
- Space Domain Awareness
- Wargaming & Exercises
- Threat Modeling

- Operational Planning
- Missile Warning & Missile Track
- Positioning, Navigation & Timing
- Test, Training & Evaluation



Differentiating Digital Engineering Approach

LMI enables the Space Force to close the digital thread.

Space Digital Thread	Concept Development	Force Design	Requirements	Acquisition	Test Training	Operations/ Sustainment
SULTES SPACE BUILDING OF THE UNIT	AFRL DARPA What technologies are available to gain asymmetric advantage? What concepts and enabling capabilities are in development?	SWAC SSDP What do future architectures look like? What is the cost and how resilient are they?	USSF STAFF How do force designs translate to key performance parameters and requirements?	SSC, SPRCO SDA, DAFRCO How do contractor designs meet requirements and force design? How do requirement and design trades impact systems of systems in killchains and killwebs?	STARCOM How do you assess, train, and educate in simulations of the performance of systems of systems?	USSPACECOM SPOC How do force designs, requirements, acquisition decisions, and test results affect operations?

Expanding Capabilities within the **R/IPTR**[®] Platform

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 Imi.org/markets/space >



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