Systecon

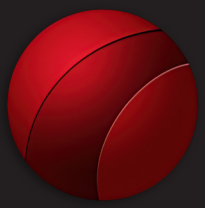
by Systecon opus suite

Analysis-driven Life Cycle Management

MORE INFO

Data-Driven Readiness | Life Cycle Cost Effectiveness | Logistic Support Optimization

Analytical Life Cycle Management supports data-driven decision-making in all phases of a system's life cycle. It is a key capability in designing a logistic support solution, evaluating the logistic properties of a system, or comparing different support solutions or technical systems. Every day, Systecon and our software Opus Suite contribute to informed decisions and cost-effective solutions in research, development, production, procurement, and operations in hundreds of companies and government authorities in more than 20 countries on five continents.



OPUS10

Strategic Optimization of Spares & Logistics Support

OPUS10 is state of the art for strategic cost-effective optimization of maintenance concepts, spares, and logistics support for a fleet of technical systems (or systems of systems). OPUS10 also delivers invaluable decision support when comparing alternative systems, configurations, or support solutions. Its cutting-edge algorithms provide fast reliable answers even for complex scenarios.

SIMLOX

Simulation of Operations & Logistics Support Effectiveness

SIMLOX is ideal for simulating and ensuring the ability of a system fleet and its support solution to meet operational objectives. Its comprehensive model allows "digital twin" representations of systems, operations, and support, and its fast realistic simulations give crucial foresight into what performance to expect, and how to maximize it by tweaking design and logistics support solutions.

CATLOC

Cost Control Through the Entire Life Cycle

CATLOC is perfect for predicting cost and revenue for technical systems during their life cycle (or any other period) and estimating the economic consequences of key decisions on system design, operations, and logistics support. Costs can be analyzed on an aggregate level or drill down detail, and distributed over e.g., time, location, equipment, or tasks. It is ideal for analyzing LCC, cost drivers, and financial risk.

EVO

Tactical Optimization of Dynamic Scenarios

Opus Evo provides tactical and operational optimization of spares and maintenance equipment. Using evolutionary algorithms and simulation, it accommodates detailed systems, support, and operations models, including dynamic aspects and variations over time. This is an ideal approach for optimizing support kits for deployed operations or optimizing the use of the annual mainte-nance budget.

CONNECT

Integration & Data Ingestion

Opus Suite Connect simplifies the task of in-gesting data to create and populate Opus Suite Models. The time spent on data inges-tion can be reduced by 80% using Opus Suite Connect, making it ideal for repetitive runs or analyses with updated data or multiple product breakdown revisions in Opus Suite. It supports several standard interfaces for system integration.

INSIGHTS

Business Intelligence & Visualization

Opus Suite Insights provides powerful visualizations and dashboards for effective communication, understanding, and decision support. It is a Business Intelligence tool for LCM that makes it easy to share your Opus Suite analysis results directly with a broader audience and stakeholders.

About Systecon

For over 50 years Systecon has developed methods and software that allow organizations across the globe in different industries, from defense to renewables to transport, to make informed, smarter decisions in life cycle management. We have the methodology, tools, and experience to understand and analyze the factors that affect your performance and costs of a fleet of technical systems – e.g., aircraft, trains, or wind turbines – and to optimize operations, system design, and maintenance solutions based on your conditions and objectives. Today Systecon is a thought leader in analytical LCM and some of the world's most complex technology projects rely on our tools and expertise.

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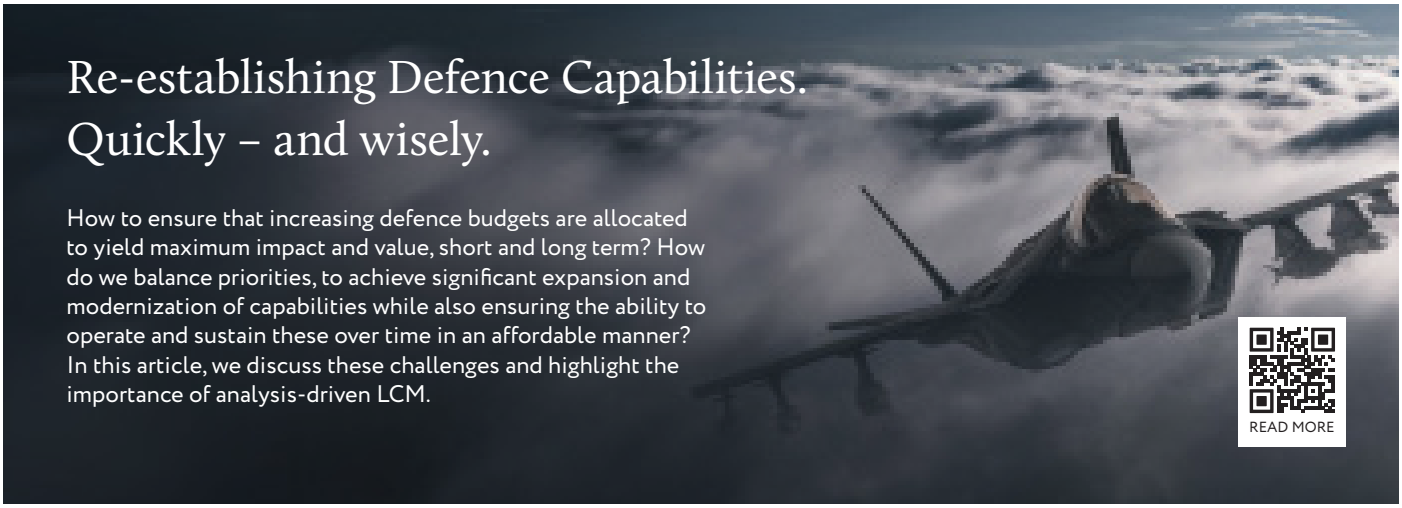
LCM Excellence through Model-Based Decision Support

Systecon

by Systecon opus suite

The rush to ramp up defense capabilities, readiness, and preparedness for multilateral collaboration intensifies planning and analysis in all functions and levels, especially in the life cycle management domain. In this build-up, it is crucial to predict and understand how decisions within e.g. systems engineering, supportability engineering, and mission engineering, will impact performance and costs, in the short and long term. Systecon and Opus Suite provide the best available model-based decision support for this challenge. The following articles offer different perspectives and insights related to analysis-driven LCM.



Re-establishing Defence Capabilities. Quickly – and wisely.

How to ensure that increasing defence budgets are allocated to yield maximum impact and value, short and long term? How do we balance priorities, to achieve significant expansion and modernization of capabilities while also ensuring the ability to operate and sustain these over time in an affordable manner? In this article, we discuss these challenges and highlight the importance of analysis-driven LCM.

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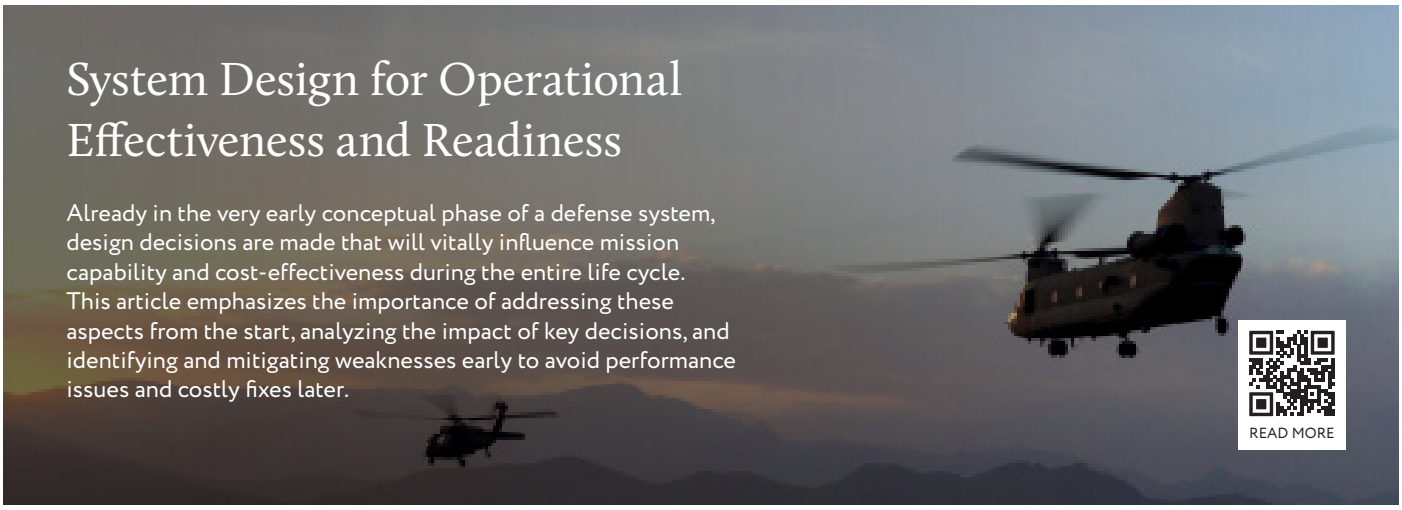

System Design for Operational Effectiveness and Readiness

Already in the very early conceptual phase of a defense system, design decisions are made that will vitally influence mission capability and cost-effectiveness during the entire life cycle. This article emphasizes the importance of addressing these aspects from the start, analyzing the impact of key decisions, and identifying and mitigating weaknesses early to avoid performance issues and costly fixes later.

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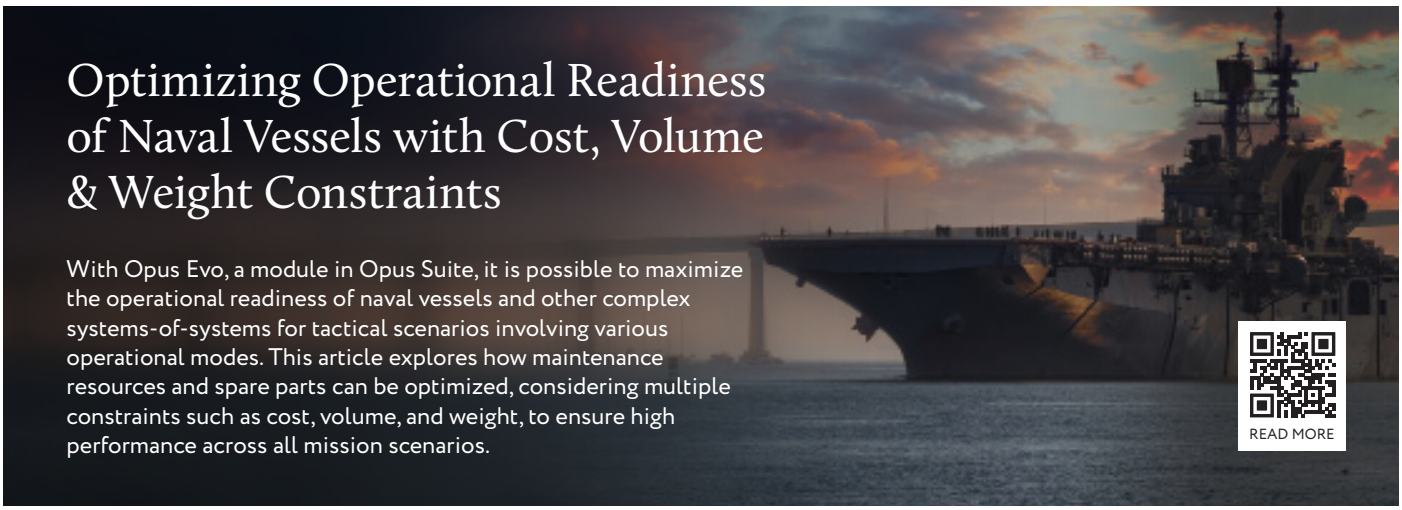

Optimizing Operational Readiness of Naval Vessels with Cost, Volume & Weight Constraints

With Opus Evo, a module in Opus Suite, it is possible to maximize the operational readiness of naval vessels and other complex systems-of-systems for tactical scenarios involving various operational modes. This article explores how maintenance resources and spare parts can be optimized, considering multiple constraints such as cost, volume, and weight, to ensure high performance across all mission scenarios.

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