

Reliability, Availability & Maintainability

Full-Spectrum RAM Tools in One Unified Platform

The MADE RAM module is the leading solution for model-based reliability, availability, and maintainability analysis. Grounded in objectivity, traceability, automation and a Digital Risk Twin, it equips engineers to predict, evaluate, and enhance system performance across every phase of the asset lifecycle.

Model-Based RAMS at Its Core

MADE creates a Digital Risk Twin, delivering high integrity, high fidelity, standards compliant analyses that are linked directly to the system model. The model-based MADE platform transforms RAM assessments from one-off compliance reports into continuous design optimization, delivering RAMS/ILS insights throughout development and into service.

Key aspects of the MADE RAM Module:

- Reliability Allocation & Reliability Prediction
- Markov Chain Analysis
- Reliability Block Diagrams (RBD)
- Fault Tree Analysis (FTA)
- Reliability-Centered Maintenance (CRCM & B-RCM)
- Maintenance Task Analysis (MTA)
- Maintenance Cost Estimation (MCE)
- Availability & Reliability Charting



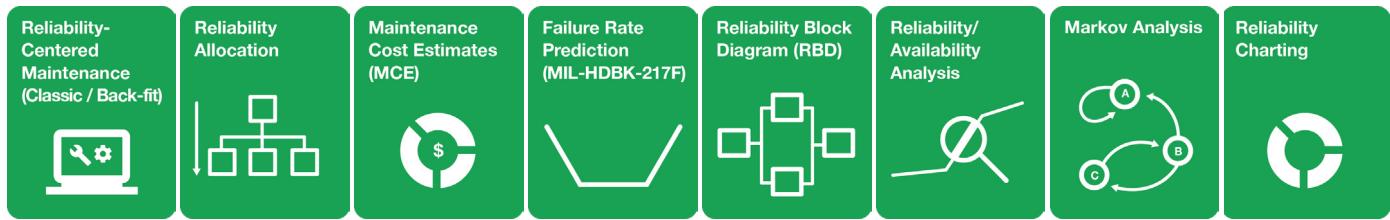
GET MORE INFO



Join Our Growing List of Customers



RAM Module High-level Features



Model-Based RCM: Smarter Decisions from the Start

MADE's integrated RCM and B-RCM capabilities transform how engineers develop and validate maintenance strategies. Functional failures are evaluated through a structured decision logic, ensuring consistency and completeness. With model-based context, engineers can simulate the real impact of failure modes, maintenance actions, and operating conditions.

Maintenance Cost Analysis—Built-In - Built for Precision. Proven at Scale

Use economic modeling to compare preventive vs. corrective maintenance, predict sustainment budgets, and quantify the value of design improvements. Cost models are directly linked to system behavior, no guesswork, just evidence based insights. This analysis has:

- Reliability Editor with Weibull & Exponential support
- Dynamic MTA and Cost Breakdown Visualization
- Configurable workflows (RCM II, MIL-STD, MSG-3, NAVSEA)



Drive Engineering Confidence. Deliver System Excellence.

From aerospace to defense, from design to de-risking, the MADE RAM module equips teams with the tools they need to deliver mission-ready systems, every time.