

FMEA Failure Modes & Effects Analysis

Streamline Risk Analysis, Optimize Design

The MADE platform empowers engineers to rapidly regenerate Failure Mode and Effects Analyses (FMEAs) in sync with each design iteration at the touch of a button. By leveraging a model-based approach, MADE ensures that failure data remains consistent, current, and fully traceable across the system lifecycle.

This consistency not only enhances the quality and reliability of the FMEA itself but also enables early identification of latent design risks, programmatic mitigation strategy optimization, and improved overall observability. Moreover, MADE's FMEA outputs seamlessly feed into advanced analyses such as Fault Tree Analysis, Reliability Centered Maintenance (RCM), Prognostics and Health Management (PHM), and sensor strategy development, establishing a foundation for comprehensive, risk-informed decision making.

Key aspects of MADE's FMEA:

- **One Click** FMEA creation.
- **Consistent analysis** guided by standardized engineering taxonomies.
- **Intuitive graphical tools** and simulations streamline the FMEA process.
- **Fast, iterative** FMEA reporting aligned with evolving system designs.



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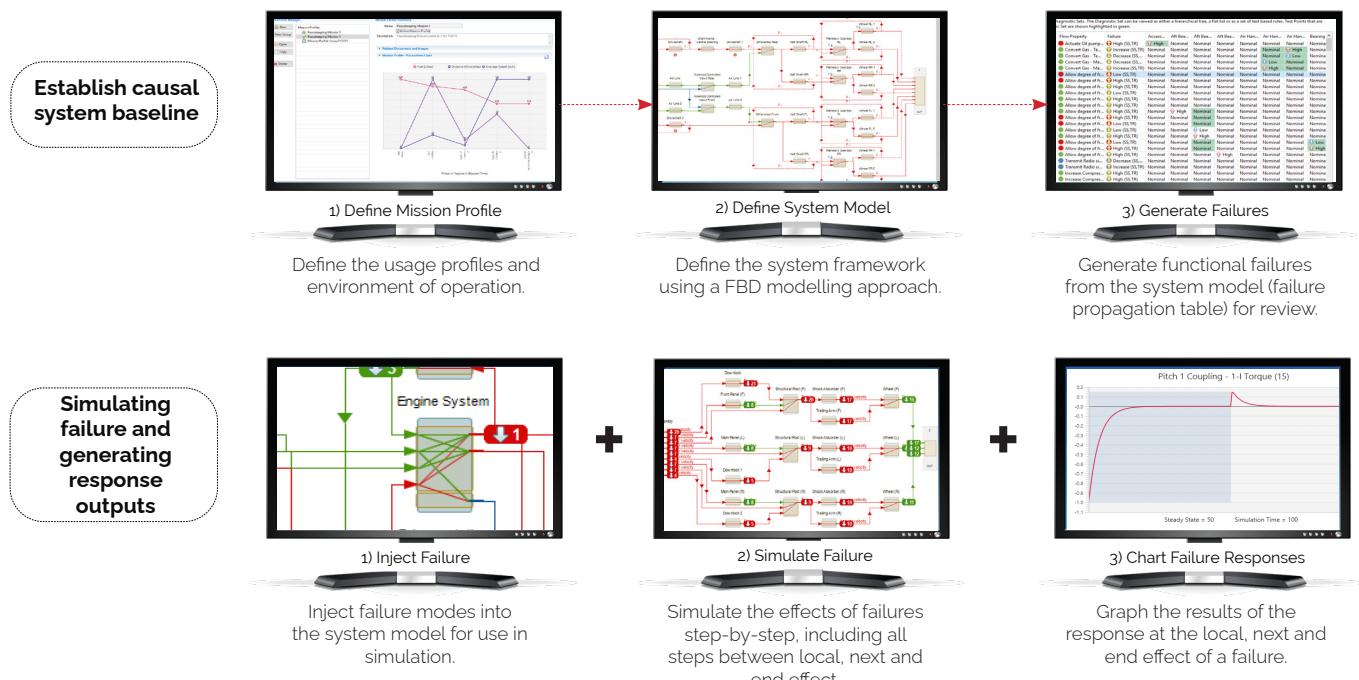
PHM Technology

Decisions better made

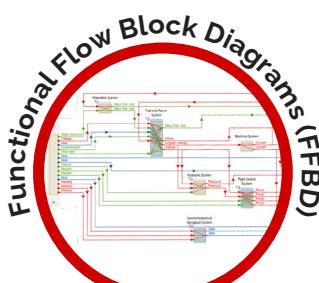
Accelerate Safety Analysis with MADE's Model-Based FMEA

Digitally Integrated, Continuously Evolving	Built for Complex Systems	Traceability and Reuse Across the Lifecycle	Accelerating Risk-Informed Decision Making
<p>MADE auto-generates FMEAs from system models, capturing functional behavior and failure dependencies in a Digital Risk Twin. Standardized taxonomies and failure libraries ensure accuracy, reduce errors, and support rapid design iteration.</p>	<p>MADE handles large, multidisciplinary systems with automated dependency mapping and failure propagation analysis. It supports multi-functional, multi-modal modeling aligned with model-based engineering standards.</p>	<p>FMEA data links directly to fault trees, diagnostics, and maintainability models within a unified platform. This ensures changes are reflected system-wide for consistent, efficient analysis.</p>	<p>Real-time updates and version control give teams immediate insight into failure risks. Visual tools like propagation tables enhance cross-disciplinary understanding and collaboration.</p>

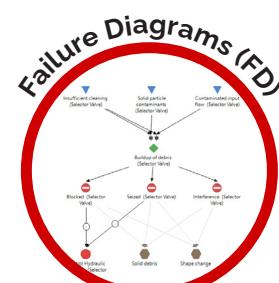
How Does MADE FMEA Work?



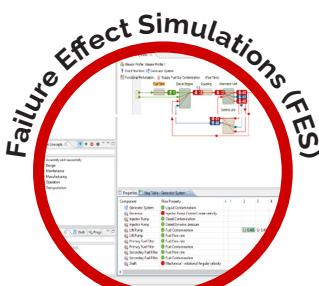
Key MADE FMEA Artefacts



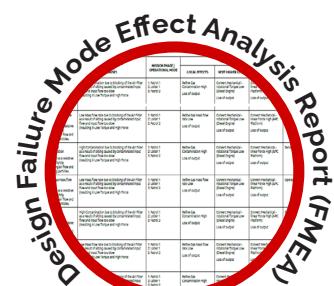
Functional Block Diagrams
MADE FBDs show the system model, including items (logical or physical), functions and interfaces.



Failure Diagrams
MADE Failure Diagrams show failure causes, mechanisms, and faults that lead to functional failure modes.



Failure Effect Simulations
Failure Effect Simulations show the progression (propagation) of failures through the system (model).



Design Failure Mode Effect Analysis
FMEA reports are generated directly from the system model, in accordance with the selected standard format.