



Condition Based Maintenance (CBM)

CBM is an approach to sustainment that offers increased operational availability and reduced life-cycle costs when compared to traditional maintenance strategies (scheduled / preventative) and is increasingly mandated by customers and associated parties (e.g. by insurance companies).

MADe enables the user to design and validate CBM capability for both new and legacy systems based on operational outcomes and cost/benefit metrics. Using MADe for the design of CBM capability ensures that the system operator is provided with 'actionable information' that can be effectively utilized by the maintenance function.

Importantly, MADe provides the necessary analysis tools to ensure that CBM capability implemented for a system will meet the requirements and expectations for the operator that is based on sound engineering principles and risk management with a demonstrable business case analysis.

Typical CBM issues that MADe addresses include:

- Which critical failures need to be monitored and why?
- How can these failures best be monitored? (what combinations of sensors are required?)
- Can the diagnostic system provide 'actionable information' to support the CBM objectives?
- What are the costs of implementing CBM for the equipment / system?