

# Catapult® EAM System Launcher

**Ready to begin developing, assessing, or improving a reliability program?**

Emerson's Catapult EAM System Launcher helps build and sustain reliability strategies on any scale with ease and efficiency. Catapult enhances the full scope of reliability program development and management activities, from the collection of asset and inventory data to the optimization of maintenance strategies across an entire fleet of plants. Enterprise Scalability An enterprise approach to asset management drives economies of scale in program implementation and execution. By imparting a consistent taxonomy, Catapult provides data standardization and supports repeatability at all levels of process design and system specification.

## BUSINESS-CENTERED RELIABILITY TOOLS

Identifying the most efficient mix of PMs and PdM tasks requires a comprehensive review of failure modes against the costs of potential controls, taking into account differences in labor costs, craft skills, parts and asset downtime. Catapult catalogs assets and spares, prioritizes reliability strategy development through criticality analysis and documents the most cost-effective combination of controls for all failure modes.

Once a reliability strategy template has been built, Catapult makes it available to be adapted and applied to all similar assets across the fleet, driving more rapid implementation and standardization on best practices.

## RELIABILITY OPTIMIZATION

Optimization can be achieved through a virtuous cycle of setting, measuring and improving reliability strategy standards. Strategy performance is measured across the population and Catapult publishes strategy improvements for use across the fleet.

Emerson's Catapult enables a CMMS to:

- Maintain an asset and inventory taxonomy
- Design condition-based maintenance strategies
- Allow what-ifs in Reliability Strategy Development
- Enable Reliability Strategy Optimization through continuous improvement

## Corporate Support

Catapult is designed to equip corporate reliability teams with tools to support reliability and maintenance personnel throughout their organizations. Catapult backed reliability and CMMS/ EAM implementations are scalable, efficient, and include a path to optimization.



## OPERATIONAL CERTAINTY CONSULTING

### MAINTENANCE DATA STANDARDIZATION

#### Taxonomies and Libraries

Catapult EAM System Launcher comes preloaded with Emerson's taxonomy and can be populated with additional value-added content. Our taxonomy includes class and subclass naming conventions for equipment and parts, spec sheets for equipment, standard attributes for parts, and our PdM Baseline®. Our 6 million part item library, FMEA templates and failure hierarchies can be added to the suite, depending on your data needs.

The PdM Baseline is an essential reliability strategy reference source that establishes the 100% PdM coverage benchmark for your facility, enabling easy comparison to Emerson's proprietary PdM and performance quartiles. It also includes startup and average ongoing PdM costs, simplifying the comparison of alternative failure mitigation strategies.

#### Foundational Data Maintenance

Companies face the challenge of having several stakeholders involved in establishing foundational data and then maintaining it; there is no process to govern management-of-change and no system to support it. Catapult is designed to provide a platform that structures all "Add", "Modify" and "Delete" decisions affecting your asset and inventory data within your CMMS, EAM or ERP.

#### Inventory

The Inventory Module in Catapult is designed to manipulate and leverage inventory data standards. Our 8,400 item class-subclass dictionary uses industry standard naming structures, including catalog frameworks like UN/SPSC and Thomas Register®, standards or corporate taxonomies. With more than 6 million already standardized MRO part records, Emerson's libraries accelerate standardization while improving quality. The Inventory Module links directly to the Asset Registry through BOMs, supporting management-of change through the store room, ensuring that you never stock unnecessary parts again.

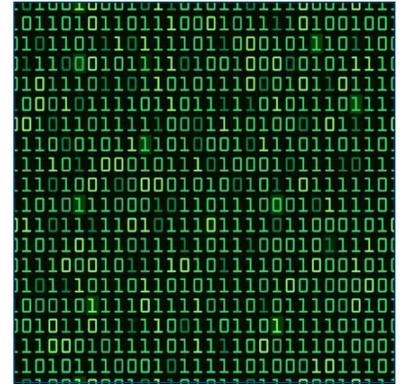
#### Asset

The Asset Module in Catapult is designed to establish and leverage Asset data standards, accelerating the development of accurate master equipment lists and cementing management-of-change procedures.

It also eases creation of PMs, PdMs and BOMs. Asset Module templates are pre-configured with equipment class structures, manufacturer name tables, and attributes, ensuring the highest quality data in the least amount of time.

### A SYSTEMATIC APPROACH TO RELIABILITY

Helping clients achieve business performance improvement through an optimized asset fleet requires an engagement model that minimizes risk. Emerson is committed to solving business problems by investing time to develop client specific solutions that reduce risk and increase implementation efficiency. We bring a unique ability to advise on EAM design and implementations by not only, helping leverage business performance and devising strategies, we support our clients' efforts in operationalizing these strategies.



### RELIABILITY STRATEGY

Catapult provides an independent modeling environment for identifying, publishing and refining efficient reliability strategies. It also creates a platform for launching and maintaining reliability standards such as naming conventions, spec sheets, failure modes and effects analyses, maintenance procedures, maintenance methods, schedules and bills of materials. Knowledge resources stored centrally in Catapult can be published to a CMMS at your plant or anywhere across your enterprise.

As a modeling environment, Catapult enables cross-sectional analysis of failure modes arranged by criticality, by like system, or by location, assuring comprehensive coverage of your failure risks. In addition, Catapult provides the ability to compare the cost impact of maintenance strategy alternatives, assuring that all risks are covered at the lowest possible cost.

Finally, Catapult establishes a rich scheduling environment culminating in the Maintenance Optimization Matrix (MOM) report, that provides a concise view of your resource allocation across a chosen scheduling horizon.

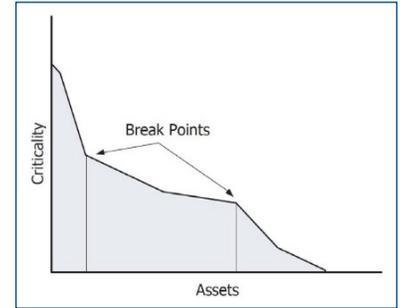
### UNDERSTANDING EQUIPMENT CRITICALLY

Catapult includes a tool that enables the alignment of your maintenance resources to your most critical assets and failure modes. The Criticality Ranking Tool is essential to efficient reliability program development. The tool allows you to establish and prioritize criteria (e.g. Safety, Environmental, Production, Maintenance and Quality) for determining the criticality of each piece of equipment, differentiating their criticality on a multidigit numeric basis. The CRT provides granularity that lets you identify clear breakpoints in criticality, enabling you to direct resources where they provide the greatest benefit.

Some questions to think about when considering enterprise reliability...

- Is your Master Equipment List accurate?
- Do you use consistent naming conventions from one plant to another?
- Does your inventory catalog include the parts required to maintain your equipment (and only the parts necessary to maintain your equipment)?
- How do the costs associated with the PM/PdM technology compare to the cost of a failure?
- How would you take the optimal strategy for a given asset and apply it to similar assets?

*How would you continuously improve your reliability program based on the results it delivers?*



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