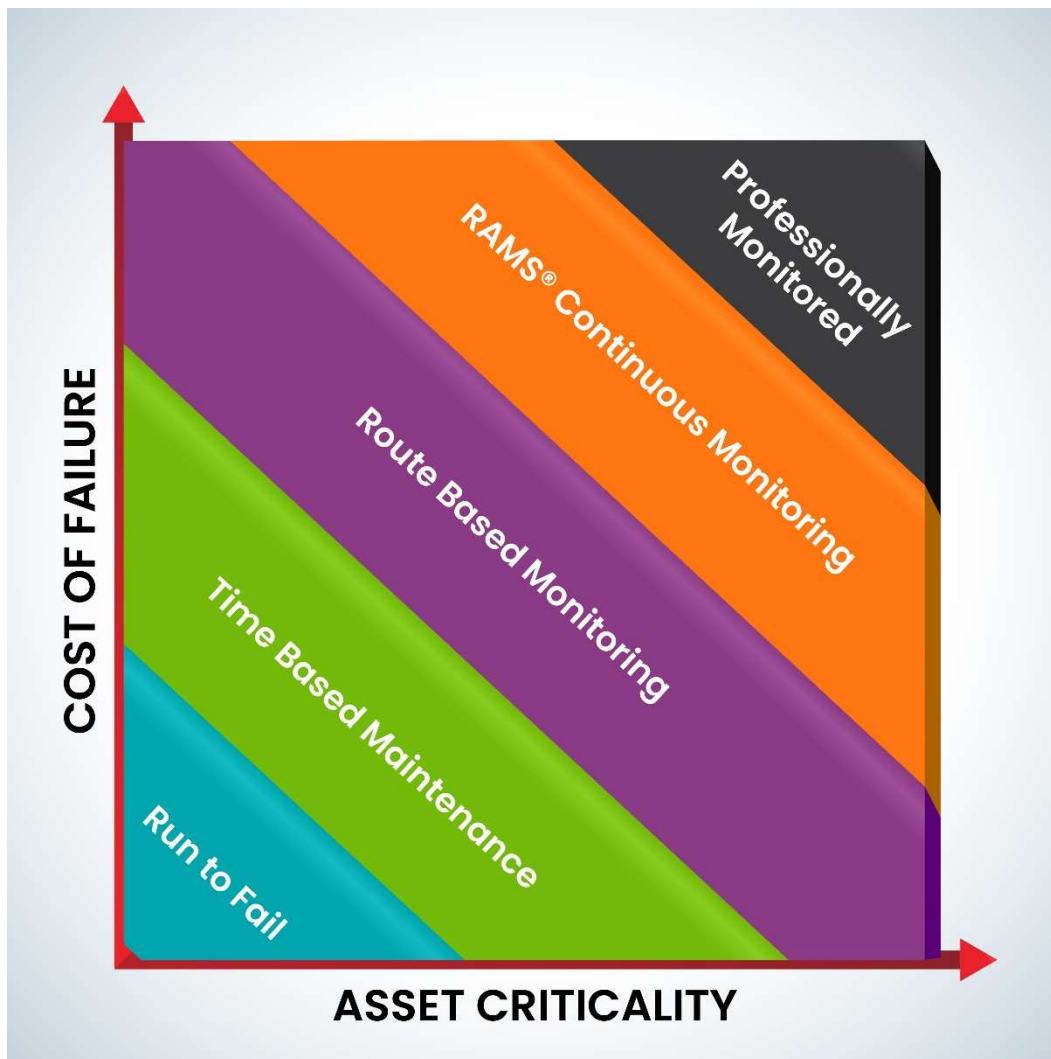


Thank you for your interest in proactive asset monitoring options. The graphic below outlines the different strategies that each asset in your plant would fall under and a brief description of what products or services are required.

The first step in this process is to identify all plant assets and rank them based on criticality and cost of failure. When identifying failure costs, you should include not only what the replacement motor, pump, etc. costs but also the amount of labor required to make the change. Criticality analysis should start with asset failures that would idle your entire plant and end with those that would have the least impact overall.

American MTS can assist you with this, however, ultimately you must identify and score them.

The final step is deciding which strategy for each asset will give you the desired ROI. It's important to remember that for proactive maintenance to work properly, you must see a savings greater than or equal to the up front and ongoing investment.





## PROACTIVE RELIABILITY STRATEGY



Here is a brief description of each category and what might fit into them.

**Run to Fail** – this may not seem at all like a proactive strategy but it’s important to understand that some assets have no way to add lubrication, have very small impact on operations if failed and are inexpensive enough to keep parts on the shelf and replace or repair as needed.

**Time Based Maintenance** – this includes lubrication and periodic human inspection for unusual noise, heat or noticeable vibration. This strategy is sometimes referred to as preventative maintenance or PM.

**Route Based Monitoring** – this uses special equipment to measure vibration, sound, heat, motor insulation health and other metrics on some established time interval such as monthly or quarterly to catch issues before they cause an unexpected failure.

**RAMS® Continuous Monitoring** – this step places sensors on assets at strategic points to continuously monitor machine health. Alerts are sent when the monitored metrics fall above or below established thresholds 24 hours per day, 7 days per week. Some monitored condition metrics might include temperature, vibration, power consumption, flow or pressure.

**Professionally Monitored/Analysis Solution** – for assets that score extremely high on both the critically and cost of replacement scales, having a specialist monitoring and analyzing the data collected could be warranted. This approach would give you piece of mind not only that asset degradation is detected early but also the issue severity is identified.

If you would like more information or an onsite preliminary evaluation, please contact a member of our reliability team.

**Mike Huber**



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