DRIVING ASSET MANAGEMENT FIGHT





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Enhancing Asset Performance with Reliability Strategies in Maximo Application Suite

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Driving Asset Management Forward

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Abstract

RCM - We all know these three letters but what do they really mean. RCM is a well-known concept, but its full potential is often underutilized. If you feel your organization is in a reactive maintenance cycle, struggling to determine which assets require what prescriptive work, MAS has a solution that you can benefit from. In this discussion, we will take a brief look at RCM and what we can do with MAS's new application, Reliability Strategies, to transition from reactive to proactive maintenance. Even if you have an established PM program, you may be interested in what Reliability Strategies has to offer. Bottom line, MAS expands the tools available to further optimize asset performance, minimize downtime, and maximize operational efficiency.



Agenda

RCM

MAS Portfolio

Reliability Strategies

Conclusion

Q&A



RCM

Response Centered Maintenance

- Focusing on the art of responding to failures
- No time for analytics (FMEA)
- No time for improvements

Reliability Centered Maintenance

- Maximize Equipment Availability
- Enhance Safety and Environmental Compliance
- Optimize Maintenance Resources
- Extend Asset Life

If it isn't broken, don't fix it!

Limited work plans
No planning, no scheduling
Hard to Improve

Asset Criticality
FMEA
Failure Consequences
Maintenance Strategies – PM, PdM, RTF
Monitor



RCM

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- Continuous cycle
- Moving from one fire to the next
- Morale
- Cultural shift

- Reduces unplanned downtime
- Lowers maintenance costs by avoiding unnecessary repairs
- Improves overall plant efficiency and reliability
- Enhances workplace safety by preventing hazardous failures



RCM

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ITS ALL ABOUT THE DATA



MAS Product Portfolio





Maximo Reliability Strategies

Makes It Easy

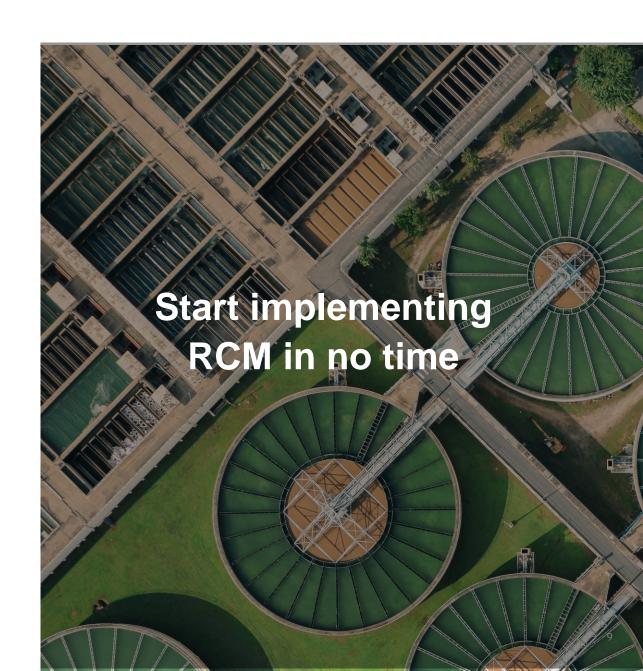
A dedicated RCM/FMEA app with included content library integrated with IBM Maximo Manage

Reliability Strategies **App** (Manage add-on)



Reliability Strategies **Library** (Accelerator)

Pre-built maintenance strategies



Maximo Reliability Strategies

Pre-Built Strategies for 800+ Asset Types Based on 25 years of large-scale RCM studies and 32,000 years of professional industry experience

Reliability Strategy Library

- 800+ Equipment Types
- 58,000+ Failure Modes
- 5,000+ PM Tasks with stepby-step instructions

Features for each asset include

- Defined Boundary Conditions
- PM tasks and intervals organized by operating context (criticality, duty cycle and service conditions)
- PM tasks one to one mapping with failure modes
- PM effectiveness ranking at detecting specific failure modes
- Cross industry asset coverage

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Maximo Reliability Strategies

Pump - Horizontal – Multi Stage - Double Suction - Axially Split Case – Mechanical Seal – Radial Bearing – Oil Lube



20 Failure Locations

124 Failure Modes

- Degraded Lubricant
- Gear Drive Oil Pump Failure
- Misalignment

Operating Context

Select Operating Context:

- Duty Cycle
- Criticality
- Service Conditions

Tailor based on context:

- Commercial Real Estate
- Oil & gas
- Manufacturing
- Utilities / Powergen
- Mining
- Hydro
- Wastewater

Reliability Strategies

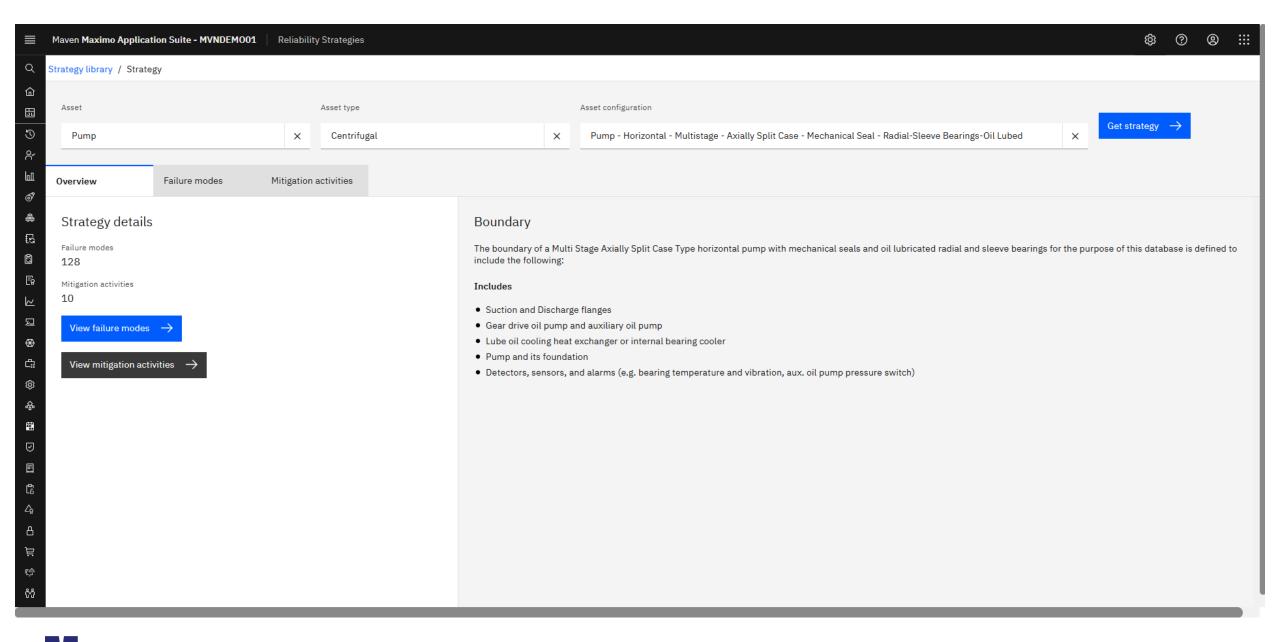
<u>Baseline</u>

PMs with intervals by operating context

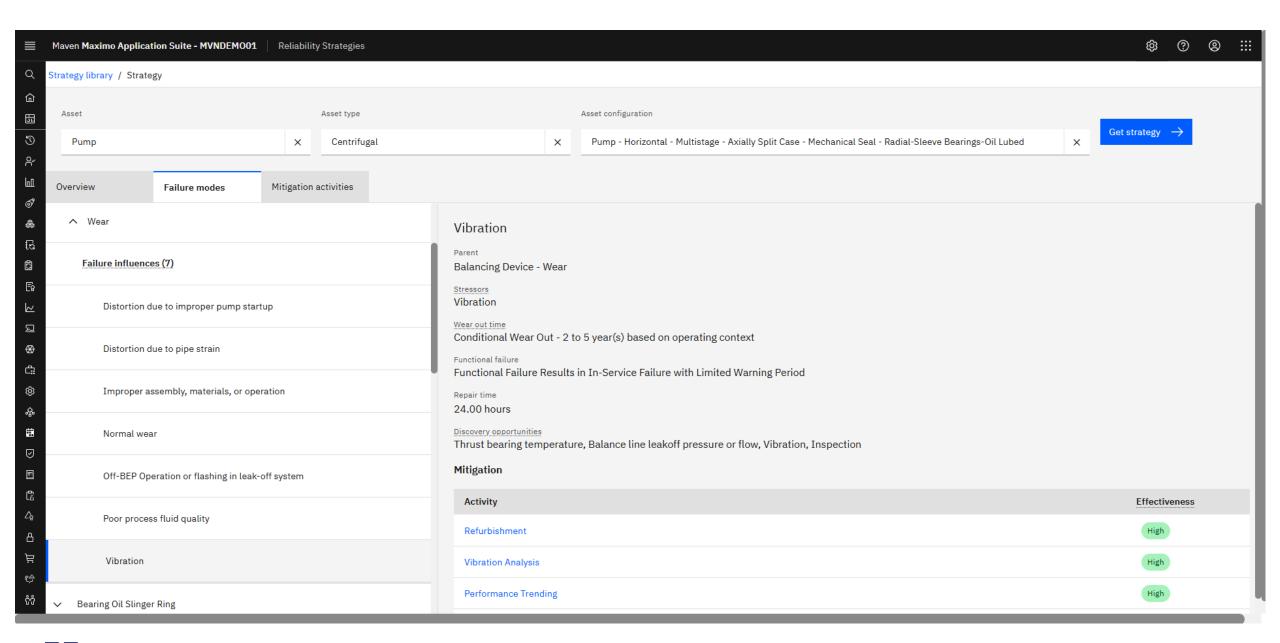
Job Plans

- Tasks
- Step-by-Step Guides

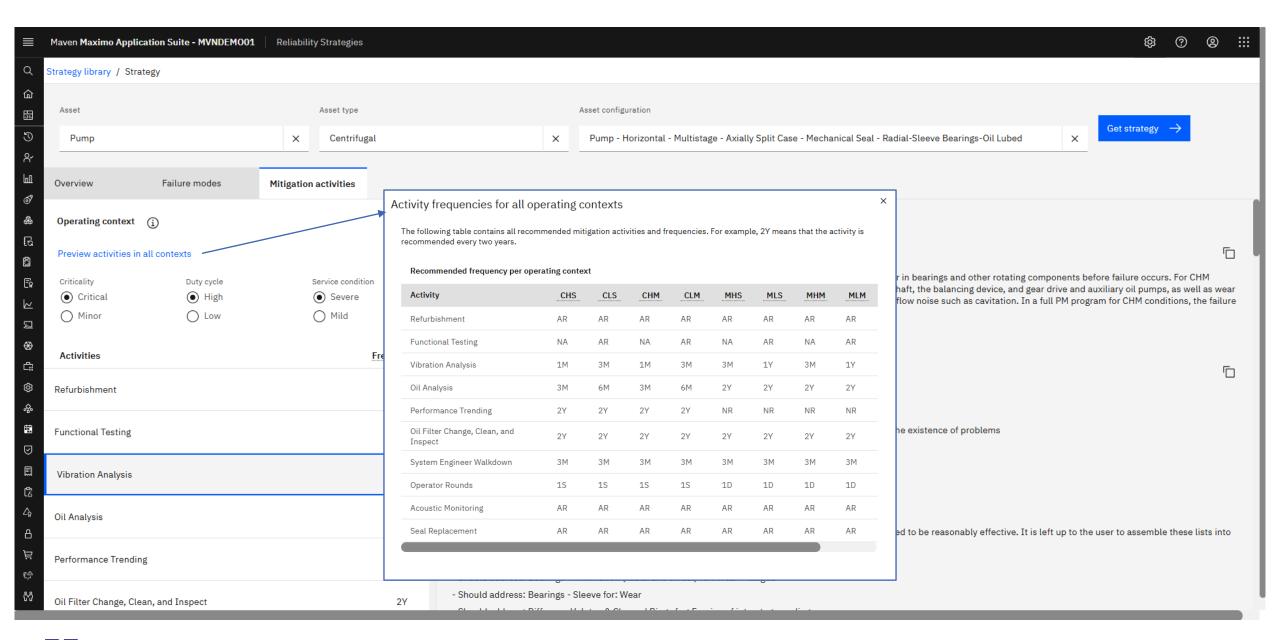














Conclusion

- Reactive is not good!
- Data is vital and valuable
- Do you have a long-term plan
- Reliability Strategies in MAS is a great starting point
- Improved asset availability
- Reduced downtime
- Increased productivity
- Reduced costs
- Increased efficiency
- Better decisions
- Reduced risk

MAS expands the tools available to further optimize asset performance, minimize downtime, and maximize operational efficiency.





Questions & Answers



Thank you!

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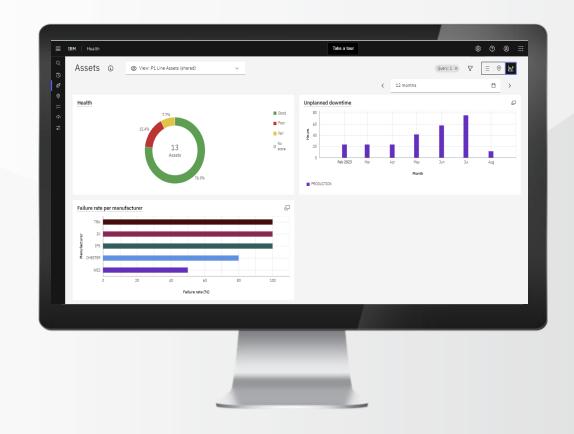


MAS Health



Global view of Asset Health with condition-based actions and replacement planning

- Dashboard with cards, map view, spreadsheet view
- Organizational view and health drilldown
- Flexible health scoring by asset type or groups
- Refurbish / replace prioritization
- Tight Maximo Integration
 - Same database
 - Same Views (Queries)
 - Same work order creation features



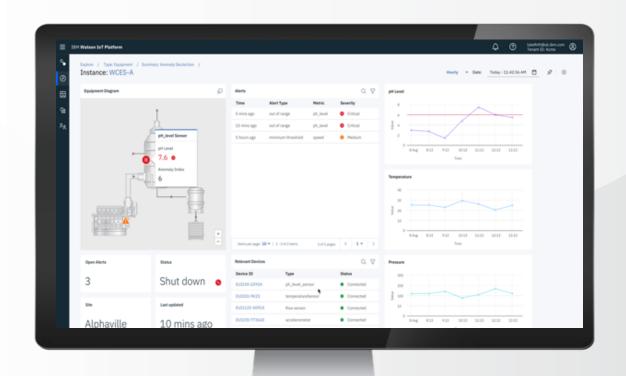


MAS Monitor

Enterprise-wide monitoring and Al-based anomaly detection



- Rapid data integration
- Scalable dashboard filtering and management
- Increasing integration with Maximo
 - Usage of Asset Hierarchies
 - Auto-generation of work orders





MAS Predict

Predict asset failures and understand factors that contribute to failures



- Utilize templates to build common predictive models
- Incorporate sensor data into models
- Score predictive models using Watson Machine Learning
- View pre-built visualizations

