

CASE EXAMPLE:

Complete Asset Criticality Assessments

2023-2024

IDENTIFY THE PROBLEM

The client engaged our team to assist in the growth of their existing maintenance program, as they endeavoured to assign a proper criticality ranking to each asset maintained in their maintenance software. The client did not have resources available to conduct the evaluations and needed a knowledgeable party to be actively on their sites to complete the assessments and host confirmation meetings with stakeholders.

APPROACH

Our team positioned themselves as an owner-representative. We hosted the project kick-off with the owner-team lead to fully understand the scope and application.

- Export of asset list from the Computerized Maintenance Management System (CMMS) – SAP in this case.
- Review the existing ranking spreadsheet and rework as necessary to be used to track the data-set.
- Walk-down the plants and schedule stakeholder review meetings.
- Provide regular reporting; walkdown completion, review completion, assessment breakdowns.

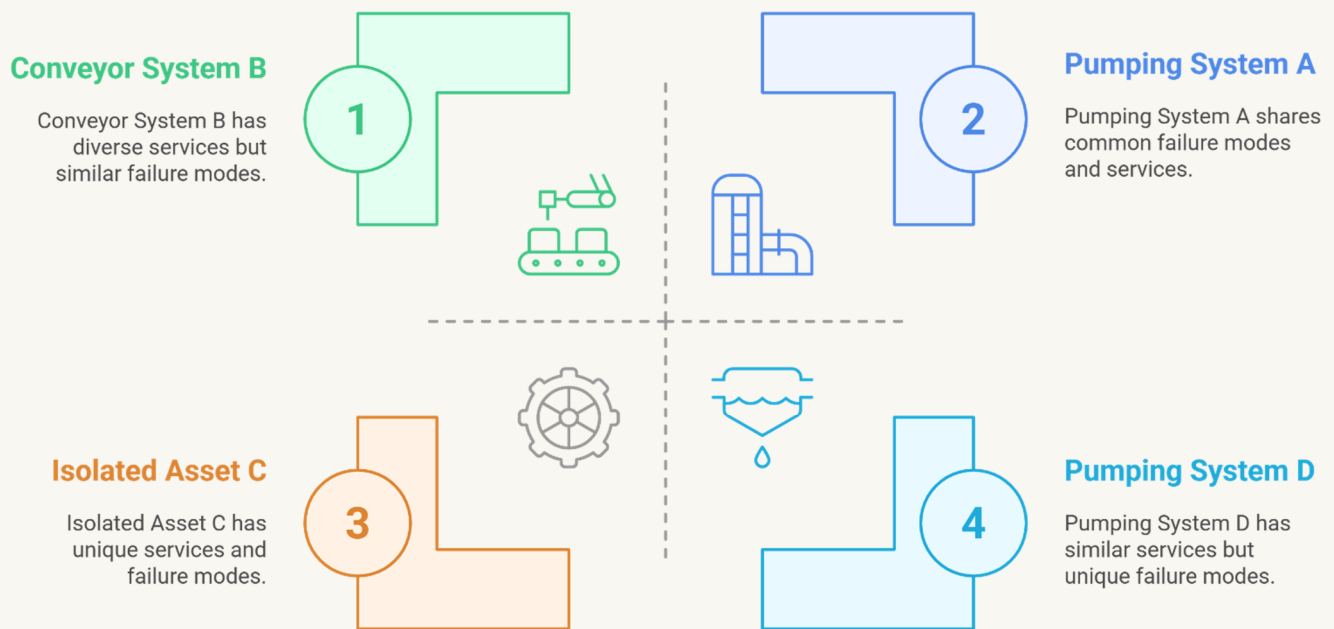
RESISTING FACTORS

- **Workforce concerns:** Identifying non-critical assets raised fears of scrutiny.
- **Unclear purpose:** Stakeholders lacked understanding at the start.
- **Competing priorities:** Operational issues hindered engagement.
- **Large scope:** Assessing 5,000+ assets challenged stakeholder focus.

METHOD

- Each site was evaluated and broken into similarities in service (pumping similar materials, conveying similar purpose material, etc.)
- Assets were then grouped for similarities in potential failure modes and outcomes.
- Within the asset groups, outliers were then identified and isolated for more scrutinized evaluation.

Asset Evaluation and Prioritization



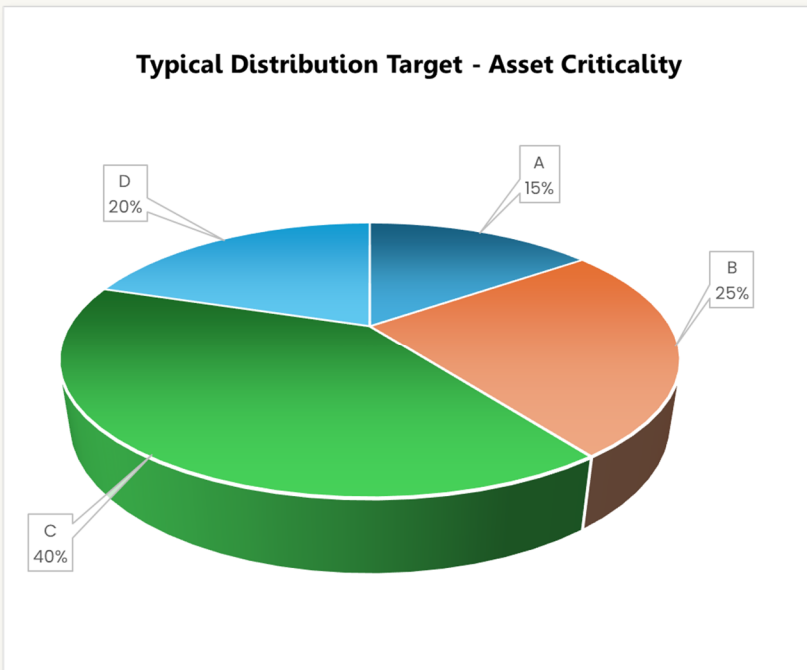
- Initial rankings were reviewed by the stakeholders from both the maintenance and operations teams.
- Adjustments were made to the rankings as agreed to by the quorum.
- During the ranking process, the overall ranking distributions were being monitored against the industry accepted ranking distribution.
- Once all assets were ranked, a file was provided to the Master Data Administrator to upload the revised ranking into the CMMS.
- Provide training and guidance to the owner team who will be assuming responsibility for future asset criticality rankings.

OUTCOMES

The client took the application of the new rankings and used it to focus on the redevelopment of outdated or absent maintenance strategies.

The future-plans by the client were to take all Criticality A and Criticality B assets and start applying the Maintenance Tactics to start Reliability Centered Maintenance (RCM) techniques.

Without first performing Asset Criticality Assessment, the sites would have likely focused on current pain-point assets, rather than focusing on data-driven priorities that expose their business to the highest risk of damages.



More than 6,500 pieces evaluated

More than 500 pieces found active in the CMMS but no longer in service.



Three unique sites inspected and evaluated

