

Maintenance Strategy Optimisation

Combine asset data with SME knowledge, then optimise maintenance plans based on organisational values.

Outcome > Individualised maintenance plans that maximize value. CMMS Loaders, Documents and Dashboards.

Data Sensitivity

Determine which datapoints are worth collecting, and which have the biggest impact on decision-making.

Outcome > Contextualised datapoint priority lists, weightings and sensitivity charts.

Programs of Work / Work Packaging

Build achievable programs of work that meet budgets, targets, and resource constraints.

Outcome > Work packages tagging specific assets and intervention types, in xls, dashbord, or document format.

Spares Analysis

Build robust spares holdings levels based on likelihood of failures. Optimise for lead times and inventory holding area.

Outcome > Site specific holding levels informed by risk.

Budgeting / Volume Forecasting

Combine asset data with SME knowledge to build bottom up budgets, event forecasts and component volumes.

Outcome > Budgets and volumes in JSON, CSV, xls, or database formats.

Digital Twins / Live Predictions

Display a live performance forecast for your assets, that utilises the latest conditional and operational information.

Outcome > Display in dashboards, other systems or custom UI's.

Destructive Testing Regimes

Develop destructive testing regimes that maximise learnings, improving the understanding of your assets and models

Outcome > Determine which assets to test destructively, in order to maximize the value obtained.

Auditing

Compare your current plans with model generated. Identify over and undermaintained areas.

Outcome > Differences between current and recommended scenarios displayed in dashboards and documents.

Knowledge Capture

Capture both asset and process understanding in a re-usable way. Preserve and improve knowledge capital.

Outcome > Capture causal relationships between asset specifics, environmental, operational and conditional factors.

Prescriptive Analytics

Test all possible intervention scenarios, and recommend the task combinations that most align to objectives.

Outcome > Generate dashboards, XLS, CSV, JSON, or databases containing the determination logic and scenarios

+ More.

+ If we can define a method, we can automate it!

OEM Strategy Validation

Validate and improve OEM tasks by considering your organisations objectives, values, risks and costs.

Outcome > Compare scenarios and identify improvement opportunities.

Inspection and Corrective task Documents

Derive contextualised documents, including work instructions and compliance documents.

Outcome > Detailed work instructions linking inspections and corrective tasks against failure modes.

AMP Generation

Automatically generate SME informed charts, tables and narratives for asset management plans.

Outcome > Generate documents containing charts, tables, logic and prescriptive recommendations.

Network Modelling

Connect models together into networks for system level performance analysis.

Outcome > Find bottlenecks, limitations and upgrade / improvement paths

Risk Baselineing / Criticality

Combine asset data with SME knowledge, to understand current and worst case risk scenarios.

Outcome > Dashboards, XLS, CSV, JSON, or databases containing time varying risk profiles.

Bulk FMEA/FMECA Assessments

Determine the asset characteristics best suited to the operational context that maximises life-cycle return.

Outcome > Export and validate assessments. Demonstrate compliance.

Standards Compliance

Build plans compliant to industry standards (e.g. API581 Risk based inspections)

Outcome > Generate dashboards, XLS, CSV, JSON, or databases containing plans, costs and risk profiles

Geospatial Risk Overlays

Combine asset data with SME knowledge, to build risk profiles for use in geospatial systems.

Outcome > Risk profiles and cost overlays in JSON, CSV, xls, or database formats.

Condition Based Maintenance

Develop maintenance and capital forecasts based on maintaining condition thresholds.

Outcome > Move from Condition based to Risk Based to Value Based Decision-Making

Equipment Selection

Determine the asset characteristics best suited to the operational context that maximises life-cycle return.

Outcome > Generate dashboards, XLS, CSV, JSON, or databases containing the determination logic and scenarios