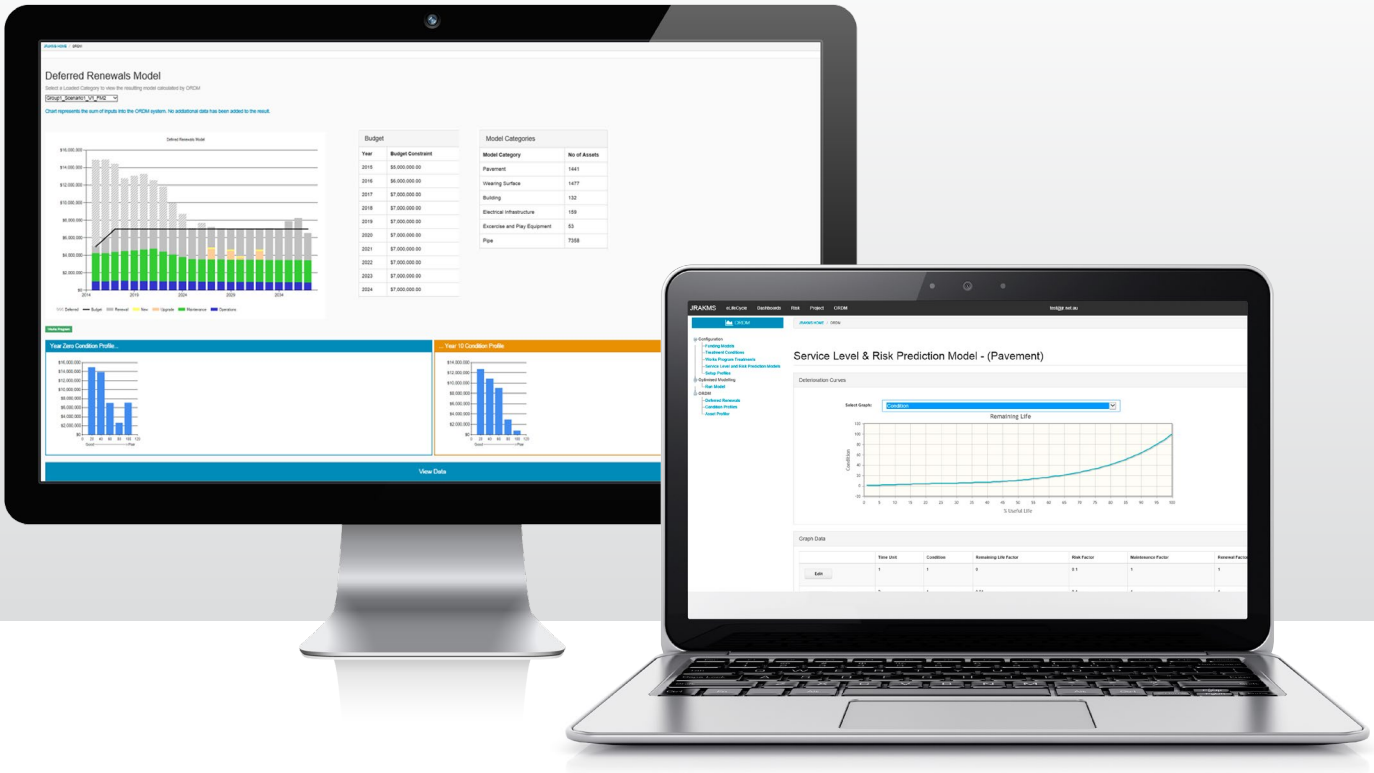
Strategic Asset Management

Prediction Modelling & Optimisation

Build, operate, renew and plan assets to meet long-term infrastructure objectives.



Key features and benefits

- Manage asset lifecycle risk, renewal and maintenance costs
- Understand assets with pre-defined degradation curves for all categories for condition, risk, maintenance, renewal
- Annual review of degradation curves based on asset work history
- Simple template startup with flexibility to progress to advanced optimisation

technologyone
Transforming business, making life simple

Predict lifecycle costs

Understand the lifecycle costs of your assets including renewal costs, maintenance, upgrades and operating costs.

Predict long term asset costs based on required service levels and risk management strategies and link this to a range of funding model scenarios. Use lifecycle cost predictions to derive the optimum works program for a range of long term financial scenarios.

Maintain level of service

Predict maintenance costs for your assets and treatments required to achieve required level of service.

Calculate affordable and target service levels for each funding model scenario and the corresponding risk register. Easily group service level reporting by condition, function, capacity, utilisation or quality with multi-variable parameters. Service levels can be predicted for any future period for each funding model scenario.

Asset network level analysis

Analyse your asset network levels to understand the level of service and risk for different levels of funding, to achieve optimum lifecycle cost for any network.

Lifecycle profiles can be set for each network group covering risk, asset deterioration, maintenance costs, renewal costs and asset life.

Asset component level analysis

Lifecycle analysis can be broken down into various component levels for complex assets such as road surface and pavement, with each component following a different degradation path. This allows for more accurate funding scenarios to be modelled and more realistic works plans produced.

Simple template driven implementation

Simple, out of the box deterioration algorithms, and unit costs and useful life for all assets are provided. These templates can be easily adjusted to incorporate supporting work history where available.

Flexibility to progress to expert system

For more advanced optimisation and prediction such as pavement management, models are available based on multivariable parameters for customer satisfaction, condition, function, capacity, and utilisation.

Enterprise integration

Seamlessly share and use data within the TechnologyOne enterprise suite.

Optimisation and prediction parameters are automatically connected to asset work history, costs and risk. All asset work history and activity is connected to optimisation models to enable simple, annual updates to asset management plans and works programs. Remove the need to build complex, time-consuming interfaces to manage multiple data sets for the operational and financial management of your assets.

TechnologyOne's Strategic Asset Management solutions are powered by JRA.