



Delivering Improvements

Case Study

Developing affordable, effective, through-life Asset Management plans.

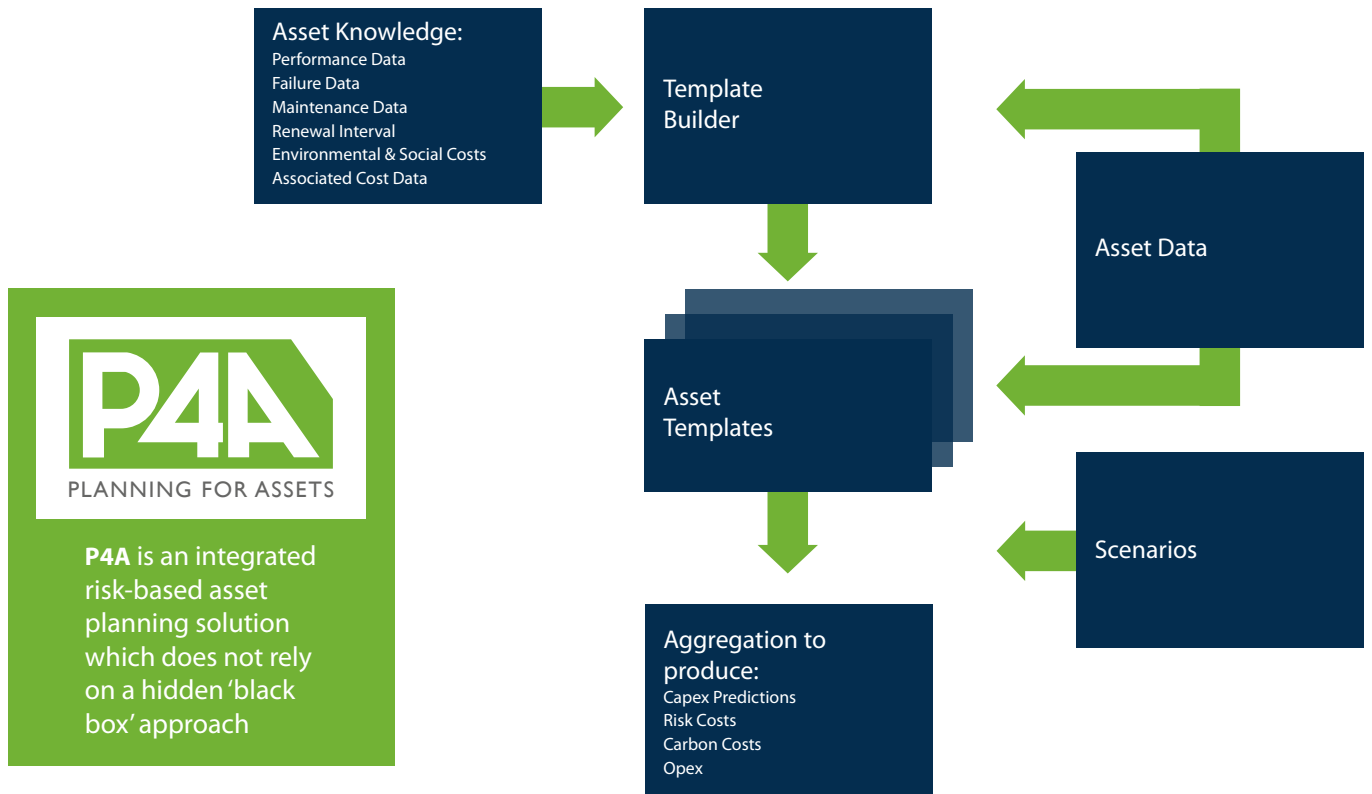
Client

Veolia Water (Three Valleys), UK

“Improving the justification of regulatory submissions”

AMCL’s award winning P4A software suite has been developed to support asset stewards, owners and planners in providing risk-based, optimised plans for the management of large, diverse asset bases.

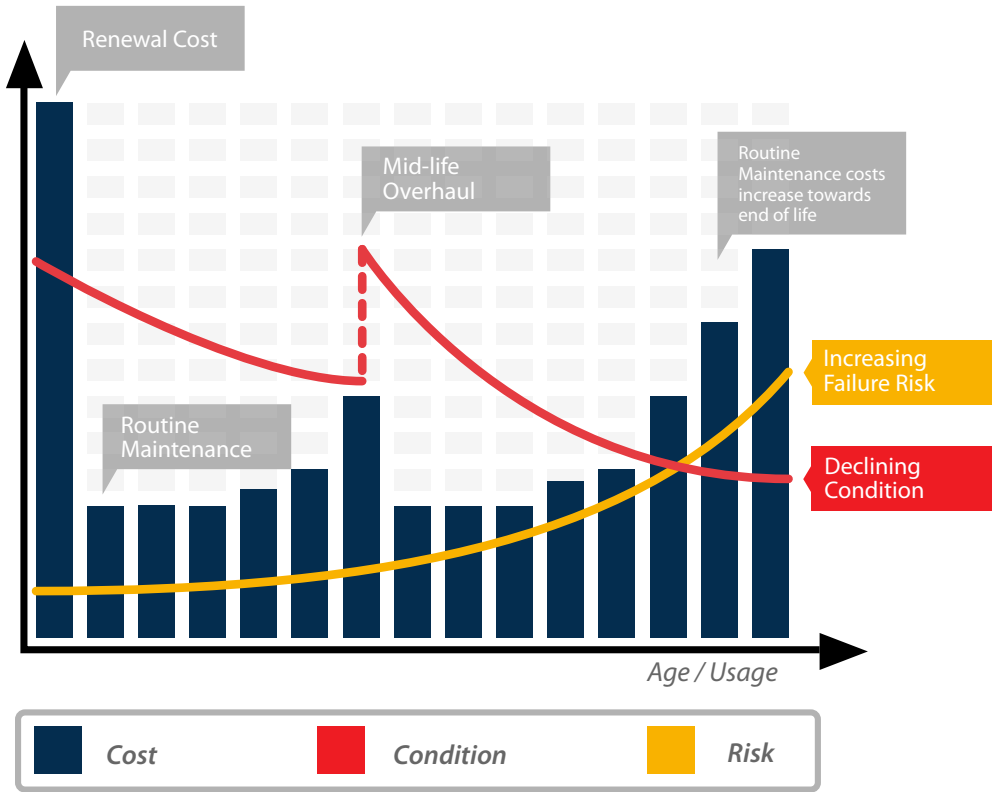
Asset intensive organisations can invest significant time and effort developing regulatory business plan submissions and whole life cost models. The P4A suite comprises a number of tools that provide AMCL’s clients with the ability to quickly and efficiently apply complex analyses to large numbers of assets in order to develop through-life asset investment plans. The impact of changes to design, specification, maintenance and renewal policies can then be assessed and understood. The skills to use P4A can be readily acquired by competent asset managers and additionally provide greater insights into the assets owned by an organisation.



Asset Management Consulting Limited & Veolia Water (UK)
Joint Winners of the 2008 IET Innovation Award for Asset Management



Veolia Water Three Valleys is the largest water-only supplier in the UK, providing fresh, quality drinking water every day to over three million customers to the north and west of London. In 2005 the company was looking for a more effective, consistent and integrated approach to produce its capital maintenance plan for the Periodic Review 2009 (PR09) regulatory cycle.



P4A builds asset investment plans from generic whole-life cost templates for each asset type, built up using existing information, expert engineering judgment, and reliability mathematics

Its approach to capital maintenance planning for previous Periodic Reviews was broadly based on condition assessment, reaction to failure, failure modes and effects analysis, criticality assessments and prioritisation of work based on business risk. The implementation of P4A allowed Veolia Water to:

- provide a highly visible audit trail of total programme build-up from its components
- enhance its 'whole-life' approach
- include a more comprehensive assessment of 'criticality'
- make use of a better understanding of asset deterioration and failure rates

Over a period of 18 months, approximately 27,000 plant items were banded according to their criticality, and categorised into generic types to allow the P4A whole-life cost templates to be created. These were then aggregated and tested against different renewal scenarios to support creation of the overall regulatory submission.

The implementation of P4A was supported throughout by AMCL with software customisation and implementation, training & mentoring, and support during the regulatory submission period. In line with AMCL's policy of ensuring clients are operating fully independently by the end of the commission, Veolia Water (Three Valleys) now operate the P4A software on a continuous basis, coming to AMCL as required only for support or upgrades.

Further information can be obtained on our website or from our global office network

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