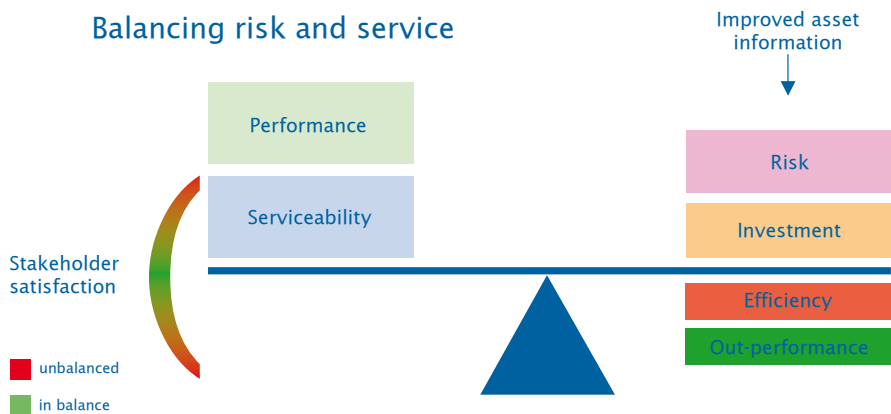


Mott MacDonald is a leading provider of asset and risk management advisory services in the water sector. Our knowledge of the issues and experience of working with all the key stakeholders provides us with the business acumen to provide value services to our clients.



Balancing risk and service



Asset and risk management advisory services

We develop successful asset and risk management solutions because we work closely with our clients to gain familiarity with their business processes, regulatory drivers and customer service objectives. We deliver all aspects of water resource, water supply, sewerage and wastewater projects, advising on policy, strategy and regulation, new facilities and refurbishments as well as providing a comprehensive approach to optimised asset management planning.

We understand that it is the people and processes that ensure the successful delivery of competent strategies. However, the strategies need to be supported by asset information systems to provide the data and planning tools necessary to inform and empower decision makers. Only then will the optimum decisions be made to deliver planned business objectives at least whole-life cost.

One of the key challenges facing the industry is to integrate and develop capital maintenance planning initiatives and systems into business as usual processes, requiring process mapping and change management as well as innovative technical approaches. This will facilitate continued development of asset and risk management 'best practice' and support a successful regulatory outcome at PR09.

Drivers for change

The common framework for capital maintenance planning has been the catalyst for the UK industry to develop its thinking on asset management and risk. However, Ofwat expects the risk-based approach for assessing future capital maintenance requirements to be better developed for PR09, incorporating robust cost benefit and long term planning based on sustainability principles. To achieve this aim, the development of asset information strategies and the ability to link intervention options to serviceability risk will be key.

Services to the utilities

Our asset and risk management advisory services encompass a full range of UK and overseas projects in the water and wastewater sector. We assist clients in all aspects of strategy development and implementation.

Advice to regulators

In England and Wales we are one of only a few technical advisors to Ofwat, advising on issues such as capital maintenance, cost base, incentives and risks relating to the Tideway tunnel scheme. We have a comprehensive knowledge of UK regulatory procedures and we have also been instrumental in developing regulatory structures and standards internationally.

Services to the utilities

The services we provide include:

- Regulatory advice
- Strategic planning
- Capital maintenance planning
- Asset information strategies all
- Asset inventories and integration
- Business planning
- Cost consultancy
- Risk assessment and management
- Project management support
- Technical and environmental services
- Operational performance improvement assessment
- Process mapping and utilities reform
- Carbon footprinting and sustainable investment planning

Advice to regulators

Our services include advice on:

- Regulation under private and/or public ownership
- Technical standards
- Security standards for regulating continuity of water supplies
- Regulation of capital maintenance
- Appropriate structures for delivering improved performance under concession and PPP contracts
- Benchmarking costs and performance

Efficient asset management



Moving to business as usual

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Examples of our recent projects are:

■ Asset management improvement project

For several large water companies we have reviewed approaches and identified areas of development to support robust PR09 business plans. We have also assisted in developing and documenting asset management processes to incorporate the Capital Maintenance Planning Common Framework into planning and decision making.

■ UKWIR research projects

We have developed an industry wide asset management planning assessment process (AMPAP) for use by companies in developing their PR09 plans. We are also developing a risk management tool and guidelines for GWRC and we are developing forward-looking approaches to assessing the impact of asset deterioration on water quality in distribution systems.

■ Non-Infrastructure reliability modelling

We have developed industry leading reliability models for above ground assets for two of the major water and sewerage companies to predict the probability of failure against serviceability indicators.

■ Investment optimisation for water infrastructure renewal

In collaboration with a UK water company, we have developed a robust analytical approach to investment planning for long term water infrastructure renewal. The approach incorporates uncertainty modelling and investment optimisation.

■ Regulatory review

We undertook an independent review of the process used by Ofwat to assess water companies Capital Maintenance plans for PR04. We also undertook a quality assurance review of Ofwat's annual serviceability assessments.

■ Strategy for sustainable investment

We have supported several companies in assessing the carbon footprint of their proposed investment plans. We are also advising on the incentives and risks for innovation in the water industry and the likely impacts of climate change on company risk profiles.