



Maximising asset value

Balancing your costs, risks and performance



SYSTEMS AND ENGINEERING TECHNOLOGY



We can make a real difference to your business

Asset management is a journey: we have the people who can help you to plot a route, or rescue you if you've stalled along the way.

We know you want to know what you're spending and what you can save, whether you're managing your risk, and whether your assets are performing to the best of their ability.

Our support delivers these answers ensuring you get maximum value from your assets, and giving you the best balance of cost, risk and performance.

Our joined-up asset management approach:

- helps you to develop strategies that are truly aligned with your business goals
- enables you to make risk-based decisions based on an understanding of your assets and the options available to you
- provides the technical and engineering expertise you need to fully inform your strategy.

Systems and engineering support that delivers benefits

Our asset management support offers you the chance to:

- improve financial performance – you can increase your return on investment and reduce costs, while still preserving the value of your assets
- improve decision making, by informing your investment decisions
- improve your management of risk, through reducing your financial losses, enhancing your health and safety management and boosting your reputation
- improve the services and outputs you provide – by assuring asset performance you're able to meet and exceed customer expectations
- improve your efficiency and effectiveness, as you review and transform your processes, procedures and asset performance
- demonstrate socially responsible and ethical business practices, and minimise your environmental impact
- demonstrate your compliance with legal, statutory and regulatory requirements.

Delivering value

We deliver multidisciplinary asset management that is aligned with your key business drivers, ensuring that everything we do is driven by your values and supports your strategy and goals.

The three levels of our asset management offering

- **Equipment: helping you to understand your assets**
We use engineering analysis to help you understand your assets, how you can maximise their performance, what condition they are in and what useful life they have left
- **Integration: using systems engineering**
We take a whole-system-whole-life approach to asset management, helping you to develop sustainable solutions. We support you to understand the end-to-end processes of your systems, including the through-life costs associated with your assets
- **Realisation: delivering maximum value to your organisation**
We help you to translate the needs of your business into strategies and plans for your assets. Using risk-based decision making we can support you to prioritise your resource and investment to maximise value from your assets.

How are we different?

Our integrated approach and world-class expertise means we can provide support and guidance for your entire asset management journey, rather than just a single element, providing a holistic view of your complete system that includes people, processes and equipment.

We're renowned for our work in the aerospace, transport, nuclear, marine, defence, power and energy, and oil and gas sectors. The depth of our knowledge base means we can transfer asset management skills, experience and best practice from one area to benefit our clients in other fields.

Through this understanding and transfer of best practice across a whole range of market sectors we can bring innovative approaches to asset management that are independent and impartial – ensuring we deliver solutions that meet your business's specific needs.

Organisational review

We carried out a strategic review of the organisational asset management structure and processes of a company, to support its conformance to ISO 55001 as it prepared for asset management implementation.

We assessed it against ISO 55001 and undertook an organisational gap analysis. Developing an asset management roadmap we set out the short, medium and long term activities required to build, implement and embed improved asset management.

We also provided asset life cycle technical expertise to other areas within the organisation, with a clear plan for knowledge transfer and upskilling of the organisation's own staff to build competence and professional progression for sustainability.

System strategies

Our client wanted our help to develop the Asset System Strategies to manage various asset classes, to ensure they met the organisational objectives.

We focused on the value the asset provided, rather than on the asset itself: defining the end-to-end service, its interfaces and dependencies.

We then evaluated the risks if the system didn't meet its service requirements, capturing mitigation actions and opportunities for improvement. These were collated into a roadmap, which set the direction and plan for the asset system.

To improve through-life management, we developed a through-life cost and condition model to feed into decision making, which included performance, age, criticality and through-life cost.

Condition-based lifing

We help asset owners to quickly understand how the operation of assets relates to their condition and maintenance.

If equipment is replaced too soon, the business can incur additional costs, waste components that are still productive and potentially lose earning opportunities. Replacing equipment too late, however, runs the risk that it may fail, resulting in downtime and its associated cost.

Running physics models to assess equipment's condition takes time, and may face problems including computational efficiency, the availability and quality of data, and may lead to correlation without causation.

We build and validate reduced-order multi physics models (ROM) that solve complex interactions quickly. These deliver the benefit of physics models, with the speed of big data analytics. Coupled with multi physics damage models and statistics they provide an end-to-end solution enabling you to understand risk.

Strategic procurement

We support the procurement and supply chain elements of your asset management by helping you to develop a long-term procurement strategy, enabling you to make decisions on your capital investment that incorporate cost, risk performance and value.

Our procurement consultants are on hand to provide support in optimising your through-life approach to the sourcing and maintenance of your assets, and those of your strategic partners.

Our people add value to your business

With experience in asset management across a wide range of sectors, our experts have contributed to the Institute of Asset Management's (IAM) best practice Subject Specific Guidelines (SSGs). Frazer-Nash Consultancy is a corporate member of the IAM, and a number of our people hold formal asset management qualifications and are experts in ISO 55001.

We don't just 'do' asset management to your organisation. We recognise managing critical assets goes beyond equipment, it includes your data and, even more importantly, your people. So we take your people on the asset management journey with us, because people are your organisation's greatest assets. We guide your organisation, upskilling your people, and transferring knowledge and best practice. Your people will gain novel asset management approaches, and will be supported in applying these ensuring that they have the skills and knowledge to continue managing your critical assets for the future.

Our employees are talented, original thinkers who exchange ideas, share their knowledge and collaborate enthusiastically. We only employ those who combine outstanding technical expertise with innovative thinking and commercial awareness. We look for people of openness and integrity, who can work well with colleagues, engage with our customers and deliver solutions that get to the heart of the problem. And these are the people who will be supporting you and adding value to your business.

Our Systems Approach

Our Systems Approach helps us respond to your challenges. We work with you to understand the whole range of financial, operational, organisational, people and other issues that surround your needs. And we use this understanding to deliver world-class technical advice and support. By applying a combination of analysis, human factors, and simulation and modelling techniques we can deliver innovative solutions to your problems – whether technical, infrastructure, or personnel-related.

We listen

Listening to you, and understanding your organisation, is key to our mutual success. We want you to be delighted by working with a company that genuinely understands the way you work, the challenges you face, and what's really important to you. We provide a high-quality result, complete reliability, value for money, and offer you a clear competitive edge.

About us

Frazer-Nash is a leading systems and engineering technology company. We're renowned for our work in the aerospace, transport, nuclear, marine, defence, power and energy sectors and our security, resilience, cyber and information technology expertise.

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To find out more about our work
and how we can add value to your business,
email assetmanagement@fnc.co.uk
or visit our website:

www.fnc.co.uk