Improving the patient experience

Frazer-Nash Consultancy has a vision for a safe, secure, and sustainable health services, enabling effective and efficient care of service users.

We have over 1,200 engineers available to provide a wide range of solutions to health and social care providers from classical engineering to the latest digital solutions. We can provide digital care pathway modelling, artificial intelligence, cybersecurity, human factors, systems thinking, enterprise systems architecture and systems assurance.

We have experience working at national and trust level, we fully supported the move of a large acute hospital, developed a digital modelling forecast tool for an acute NHS trust and successfully provided Should Cost Modelling (SCM).

Our enterprise architecture services, with a specialist focus on open systems, helps complex systems to be simplified and enables future flexibility to adapt digital systems.

With expertise in data analytics, modelling and visualisation, we are ideally placed to support improvements to preventative, predictive and personalised care.

Our cyber services ensure systems are secure and resilient, taking into account people, processes, data and technology.

EMPATH™ - Healthcare Pathway Forecasting, Analysis and Optimisation

EMPATH™ is a highly-configurable modelling framework, used to analyse and compare the performance of care pathways by simulating the complex interaction of patient flow, resources, and facilities.

To find out more, please see our summary flyer, available to download via our website (see overleaf & QR code)

Our skills and services include

- Safety critical systems assurance
- Technology exploration & strategy
- Digital & enterprise strategy
- Data analytics
- Cyber security
- Artificial intelligence
- Human factors
- Environmental analysis & assessments
- Policy & procedure development
- Application of standards & good practice

FRAZER-NASH CONSULTANCY
A KBR COMPANY

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Scan to find out what we do in healthcare

 Ref: 139545V-01

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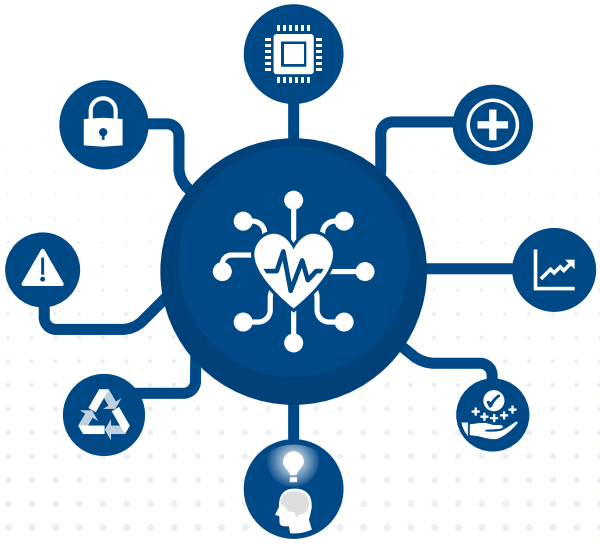
Working with you to deliver **safe, secure** and **sustainable** health and social care



Improving the patient experience

How Frazer-Nash can work with health and social care providers to deliver proactive care and improve the health of the population.

A patient's journey...

*Our vision is for a **safe, secure** and **sustainable, integrated** health and social care system, enabling **effective** and **efficient care of patient needs***

Key Aims & Outcomes

- **Efficient and Reliable Systems**
- **Safe and Secure Designs**
- **Empowering patients**
- **Sustainability**

How can Frazer-Nash support health & social care? *A patient's journey...*

This diagram follows the pathway of a patient and highlights how our expertise & knowledge can support services, systems and patient outcomes.

Support to incident assessment & response

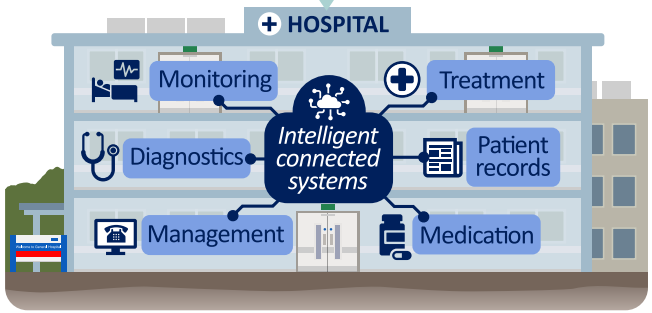
Timely response and appropriate assessment are both key to patient outcomes and management of resources.

Frazer-Nash can help improve effectiveness and patient satisfaction by leveraging supporting technologies, such as trustworthy AI and autonomy, to enhance assessment and handover to care providers.

Support to digitally enabled treatment centres

From individual medical devices to complex systems of systems, Frazer-Nash can help you maximise your capabilities to meet patient needs and provide resilience against cyber-attacks.

Digital assurance supports identification and delivery of innovative cost-effective solutions to your needs with a reduced time to market. This can be informed by analysis, modelling and simulation, to understand system capabilities and weaknesses.



Support to suppliers

Frazer-Nash can support healthcare suppliers with assured design and development of medical devices, development of internal processes and provision of services against relevant policy and standards.

Support to operational services

Our modelling and simulation can help you assess the resilience of services to fluctuations in demand, unusual scenarios or future changes. Our versatile and flexible approach meets customer needs whilst providing excellent value for money.

Integrated Health & Social Care System

Frazer-Nash is committed to supporting the Health & Social Care industry continue its growth and integration of services, technology and digitalisation to improve health outcomes for all.

Support in the most appropriate environment

Frazer-Nash can support keeping patients at home and reducing pressures on hospital resources through a variety of means.

We have capabilities that can improve the planning and delivery of treatment through new innovative technology, such as remote monitoring (virtual wards) with secure communications, AI-assisted analysis and intuitive health dashboards.

We can also support use of open architecture, for choice of drop-in solutions, and safety and cyber resilience at all levels within an organisation.

Support to primary care

The diverse range of primary care providers have an increasingly important role in maintaining patient's health and in preventing future harm.

Frazer-Nash support could include identification and assessment of supporting medical devices, data analysis and trend identification, and digital assurance of systems.

Key Enablers

Digital Assurance

Safe, **secure** and **interoperable** devices and systems, underpinned by **recognised standards**. Frazer-Nash has a track record of **supporting design**, **assessment against standards** and implementation of suitable **policy** and **processes**.

- Information systems
- Analytics & modelling
- Digital assurance
- Cyber-security

Innovation

Frazer-Nash specialises in the design of **trustworthy AI**, **autonomous systems** and **cloud-based solutions**, to deliver innovative **assured solutions** with a **reduced time to market** and **enhanced capability**.

- Medical devices
- AI & autonomy
- Cloud-based solutions
- Simulated environments

Environmental

Protecting the environment can help reduce harm and allow for **sustainable health and social care**. Frazer-Nash supports **assessment** and **reduction** of **environmental impact** and the development of **sustainable systems**.

- Sustainable development
- Circular economy
- Environmental assessments

Cybersecurity

A significant threat to **safety** and **availability** of systems, and the **protection of confidential data**. Frazer-Nash are experts in the assessment of **cyber impact on safety**, along with attack **detection**, **prevention/mitigation** and **recovery**.

- Security impact assessment
- Safety risk analysis
- Multi-layered protection