

Data Analytics and AI

Service Category: Cloud Migration Planning, Cloud Support Services

About Our Service

We have advanced data analytics, data science, AI and ML capabilities to deliver insights for new, uncertain, complex or ambiguous challenges. We use our secure Official Sensitive cloud to leverage compute to develop and deploy. We focus on delivering solutions to specific use cases which add value and benefit.



Service Features

Obtaining data insights using classical or Artificial Intelligence (AI) methods

Bringing insight using exploratory data analysis and visualisation

Developing AI and ML cloud solutions in Azure and AWS

Understanding the impact of data uncertainty in the required insights

Deploying cloud computer vision models to extract understanding from images

Deploying cloud predictive analytics to forecast behaviours

Deploying reinforcement learning to optimise behaviours in environments

Using cloud language models to extract information from unstructured data

Developing web applications to communicate data insights to stakeholders

Security, assurance and ethical assessment of AI cloud driven models

Service Benefits

Understanding
variable and messy
data to improve
decision making

Developing
predictive
maintenance
algorithms to
increase availability

Using secure cloud
compute to develop
AI/ML models

Defining risk and
confidence in
predictions and
outcomes

Giving stakeholders
the ability to make
improved data
driven decisions

Assuring the
outcomes of models
and predictions
using standard
frameworks

Combining data
from different
sources to maximise
insights

Giving end-users
tools to make more
effective decisions
more quickly

Freeing expert time
from data
processing to focus
on insights

AI use case
definition to
achieve business
value

Detailed Service Definition

Frazer-Nash has rich cross-sector experience delivering data analytics and AI solutions to our clients. Our markets include secure government, defence, energy generation, power transmission and the public sector. We use a systems engineering approach to understand our clients' problems and then define use cases where data analytics and AI can be used to support decision-making and deliver insight into available data.

We have an Official-Sensitive accredited cloud computing facility, including access to advanced analytic platforms such as Azure ML and Databricks which we use to develop and deploy our AI and ML solutions. We pride ourselves on delivering the quality and assurance required in UK critical infrastructure, and we have the processes, procedures, and accreditations to prove this.

Detailed Service Definition (continued)

A key aspect of our approach is to use experts from across our broad consultancy business to help tailor solutions to our clients' needs. This means we can act as an end-to-end developer and solution integrator for data analytics and AI/ML tools through the full development life-cycle, aligned with the government digital service frameworks. We have experts who can understand and integrate the wider considerations such as human factors, explainability, ethics, and assurance.

We work with the right technology and approach to solve our clients' problems most effectively. This allows us to scale our projects to develop the maximum insight at the right level of effort and to present this clearly and concisely to stakeholders at all levels within an organisation.

Detailed Service Definition (continued)

Our capabilities include:

- Technology agnostic AI use case definition and adoption consultancy.
- Using exploratory data analysis and statistics to get rapid understanding of data to explore trends and to derive meaning from data.
- Development data-driven cloud-hosted decision aids to empower stakeholders to use their data in day-to-day business decisions.
- Using all forms of machine learning (predictive analytics, natural language processing and large language models, computer vision, and reinforcement learning) to generate insight and produce decision support tools from all forms of data. We have deployed these as cloud-hosted solutions and use advanced methods to integrate multi-modal data and get maximum benefit across disparate data sources.
- Combining physical and data-driven models and using optimisation methods to improve understanding. This approach gives benefit where the available data is remote from the key areas of interest. We use this to derive data-driven digital twins which can be integrated with live data sources on the Internet of Things.
- Using Bayesian statistics to combine the data on the system of interest with other sources of information, including the opinion of experts. Inherent in this approach is the treatment of uncertainty and an explicit calculation of uncertainty in the accuracy of the insights we have been able to determine.

Why Frazer-Nash Consultancy?

Frazer-Nash Consultancy is an independent engineering and technology consultancy with over 35 years' experience delivering high-quality digital and cloud-enabled solutions. We support organisations operating in complex and regulated environments through our collaborative approach and deep expertise in digital engineering, software development and systems integration.

We are **solution and technology-agnostic**. We assess our clients' requirements and provide impartial advice and design solutions based solely on their needs. This independence enables us to select the most appropriate cloud technologies and architectures to deliver secure, resilient and value-for-money outcomes.

Our cloud solutions are informed by experience gained across multiple platforms, sectors and use cases. We combine proven engineering discipline with a strong understanding of integration and whole-system design to support and enable cloud adoption while managing risk and ensuring long-term sustainability.

Our Commitment to Quality

Frazer-Nash is committed to delivering consistently high-quality services and outputs that **often exceed customer expectations**. Quality is embedded throughout our ways of working, from engagement and communication through to delivery and assurance.

We actively monitor progress using our robust, proportionate controls, ensuring key decisions are subject to appropriate challenge. Each project is allocated a dedicated Project Manager, a Project Supervisor who independently reviews and approves monthly reports, and a Project Auditor for ongoing quality assurance.

We ensure accuracy and suitability for purpose of all deliverables, with independent verification by two reviewers. Our Quality Management System is certified to **ISO 9001 and TickITplus** (for software development), providing customers with confidence that our quality standards are externally assured and continuously maintained.

Our Security

Frazer-Nash operates robust security processes and controls suitable for handling sensitive and classified information **above OFFICIAL** up to and including **Top Secret**. Security is embedded across our people, processes and systems, ensuring information is protected throughout delivery.

We support sensitive and critical programmes across government and national infrastructure by applying strict information-segregation controls, including team separation to address security, or conflict-of-interest considerations

All 1500 staff hold **BPSS clearance as a minimum**, with the majority cleared to **SC** and over 225 consultants holding **DV clearance**.

Our IT systems are certified to **ISO 27001** and **Cyber Essentials Plus**, providing assurance that information security risks are proactively managed in line with recognised industry standards.

Our Approach to Subcontracting

Frazer-Nash primarily delivers services through our large base of permanent staff, supplementing this capability where required with trusted partner organisations to provide additional flexibility, specialist expertise and scale while retaining full delivery control.

We are experienced in engaging and managing subcontractors across the full project lifecycle, ranging from sole traders to large multinational organisations. Our structured approach ensures the right supplier is selected for each requirement and integrated effectively into the delivery team.

Our subcontracting processes focus on robust supplier identification and assessment, clear definition of scope, appropriate flow-down of contractual terms and conditions, and proactive risk management. All subcontractors are subject to proportionate commercial and technical due diligence to ensure they meet our standards for security, quality and delivery, enabling us to deliver outcomes on time, within budget and to the required quality.



Resourcing

Frazer-Nash employs over **1,500 technical specialists** across all grades, from **Follow to Set Strategy**, providing depth, continuity and scalability across a wide range of disciplines, backgrounds and experience levels.

To support agile and flexible delivery, our people are organised into defined **technical delivery areas** (including Information Systems, Cyber, Modelling and Software), which are deployed across multiple sectors such as central and local government, policing, health and energy. This structure, combined with strong portfolio, programme and project management (P3M), enables us to actively monitor demand and adapt resourcing throughout the project lifecycle.

We deliver complex requirements efficiently, consistently and at pace by forming tailored, multi-disciplinary teams led by a single accountable Project Manager.

Our consultants regularly work across different sectors, enabling us to cross-pollinate ideas, tools and best practice between domains. Drawing on in-house expertise, such as information security and human factors, we ensure effective and responsive delivery for every client.



Our Commercial Approach

Frazer-Nash adopts a flexible and transparent commercial approach to ensure best value and a model that aligns to each client's specific requirements. We collaborate with customers to clearly define the scope of services and agree a commercial structure that is predictable, proportionate and aligned to your required outcomes and effective delivery.

Depending on the requirement, this may include a **fixed-price model for clearly defined scopes**, or **time and materials using agreed day rates** where flexibility is required to accommodate evolving needs.

For longer-term or ongoing service requirements, and where we have control over resource flexibility, we can also offer a **single blended day rate** covering a range of grades. This provides simplicity, transparency and ease of management while maintaining access to the appropriate skills at the right time.

Next Steps

To discuss your requirements in more detail or request an order for services, please contact ccs@fnc.co.uk

