

Geospatial Analysis

Service Category: Cloud Migration Planning, Cloud Support Services

About Our Service

Our geospatial analysis services cover the full project life-cycle, helping our customers gain insight and benefit from their geospatial data, with small to national scale analysis. We integrate live data pipelines, advanced modelling capabilities and cloud environments, and build dashboard and interactive visualisations to allow clear communication of key insights.



Service Features

Geospatial modelling, including environmental and network modelling

Geospatial analytics, including repeatable & automated analysis pipelines

Data visualisation including 2D/3D and dashboards

Machine learning algorithms, including text analytics

Graph-based analytics for geospatial data

Digital twin and sensor-enablement

Guidance on use of open tools for geospatial analytics

Research, horizon scanning and technology roadmapping

Relevant cross-industry experience, in highly regulated sectors

Focus on adding value and adapting to client requirements

Service Benefits

Architecture-driven approach to analytics service design

Robust, quality assured analytics service design and implementation

Standards-based approach for greater interoperability and openness

Reduce whole-life cost by avoiding vendor lock-in

Gain support for GOV.UK implementations and adherence to GDS guidelines

Respond quickly to changes in user requirements

Vendor-independent advice across spectrum of commercial & open options

Bespoke, tailored advice, providing best-fit solutions

Confidence in best technical solution to the specific analysis problem

Quality-assured software development, drawing on diverse technical skillsets

Detailed Service Definition

Frazer-Nash is an independent consultancy providing advice to clients across a wide variety of technical capabilities, including geospatial analysis. We are technology agnostic and specialise in open systems architectures, which are essential for delivery of agile, interoperable systems that support technical and commercial flexibility. Our independence enables us to critique and propose designs and solutions regardless of the chosen technology or methodology.

Our geospatial analysis offering provides clients with the best solution for their requirements. Our geospatial services team has experience of diverse commercial and open-source tools and technologies, including de facto industry-standard tools such as ESRI, as well as open source software such as QGIS (and the PyQGIS stack), GeoServer, and OpenLayer/Leaflet.

Detailed Service Definition (continued)

Frazer-Nash offers bespoke analytics software development services, employing a wide-range of software development languages and tools, including C++, Python and Matlab. We develop analytics software and services for diverse sectors, including energy, nuclear, transport, defence, government, agriculture, and can complement our geospatial analysis capabilities with expertise in mathematical and numerical modelling and algorithm design.

We also offer a range of data visualisation capabilities, including 2D cartographic and 3D/4D model output. Where high volume/velocity data processing is required, we can provide repeatable, automated data analysis workflows, and provide advice and guidance on implementation of large-scale ETL (Extract Transform Load) workflow deployment.

We can advise on the application of relevant open standards, including the W3C and Open Geospatial Consortium (OGC) standards that power the geospatial web, including emerging standards such as GeoSPARQL. Our expertise extends to advising on adoption and implementation of open source software and Geographic Information Systems (GIS) for analysis and visualisation of geospatial data. We also offer expertise in linked data and graph-based spatial data analysis and the application of geo-semantics in spatial analysis.

We work closely with key stakeholders, e.g. through interactive workshops, to develop a shared understanding of requirements and goals. We have expertise in industry-leading architectural frameworks, such as TOGAF, and relevant open standards, and can offer these skills to support development of more complex mission-critical analytics tools.

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

