

Geospatial Data Management

Service Category: Cloud Migration Planning, Cloud Support Services

About Our Service

Frazer-Nash's geospatial data services support greater efficiency and innovation in public service development. Technology neutral, we specialise in open architectures for cloud-based Geographic Information Systems (GIS) and Spatial Data Infrastructures (SDI). Services cover the full project lifecycle, including data management, transformation, assurance, modelling, visualisation, auditing, and linked data solutions.



Service Features

**Geospatial
information
modelling and data
modelling**

**Advice on open
data architectures,
licensing, and
geospatial
standards**

**Data auditing -
assessing quality
and identifying
value**

**Geospatial
metadata
management,
including catalogues
and registry
technologies and
standards**

**Large-scale spatial
data infrastructure
architecture and
development**

**Extract Transform
Load (ETL) data
processing pipeline
development**

**Data wrangling -
cleansing, unifying,
transforming and
preparing**

**Semantic Web and
machine learning
services for
geospatial data**

**Data security
architecture and
information
assurance for secure
geospatial systems**

**2D and 3D
geospatial data
visualisation**

Service Benefits

Independent and impartial advice on geospatial data sources and services

Identify and benefit from shared data services

Insight into data quality and value

Extract the greatest value from data

Understand data through repeatable data transformation and analysis pipelines

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

Secure data migration

Increased data and service interoperability through standardisation

Data-readiness for Semantic Web, AI and ML applications

Sector-specific advice for defence, transport, energy and environment

Detailed Service Definition

Maximising the value of geographic information and other data linked to location has the potential to help deliver outstanding public services and generate savings for citizens. Public bodies are being challenged to move beyond 'digital usage' of geospatial data and deploy cloud-based geospatial intelligence tools as enterprise solutions. Geospatial systems have a unique ability to integrate information and services across departments, helping to break down organisational siloes and creating opportunities for innovation, and contributing to broader digital transformation goals.

Frazer-Nash is an independent consultancy providing advice to clients across a wide variety of technical capabilities, including geospatial consulting services.

Detailed Service Definition (continued)

We offer expertise in all aspects of the geospatial data lifecycle:

- Our data auditing services help organisations to understand the scope and nature of their data holdings, uncover the value in their data, and are a valuable first step towards developing an effective data management strategy. We can advise on development of data quality and security architectures, including handling of sensitive and classified information.
- Metadata management services support delivery of search and discovery capabilities, connecting users with the data they need, and supporting machine-to-machine data discovery, enabling the next generation of AI and ML applications.
- Geospatial data workflow services include design and implementation of data preparation and cleansing ('data wrangling') workflows, as well as repeatable geospatial data processing and analysis pipelines, capable of meeting demanding mission-critical and high-volume data processing challenges.
- Visualisation of geospatial data including 2D cartographic presentation, 3D/4D visualisation and model development, as well as development of novel visualisation dashboards.

Detailed Service Definition (continued)

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 CityGML and GeoSPARQL. Our expertise extends to advising on adoption and implementation of open source software and Geographic Information Systems (GIS) for management, processing and visualisation of geospatial data. We provide advice on data licensing, including open license options, and the security impacts and implications of publishing open data in linked data environments, including advising on potential GDPR implications.

This service meets the need for specialist geospatial data expertise for organisations who are looking to deploy geospatial web services which meet the Digital Service Standard. 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 support and critique architectures regardless of the chosen technology or methodology.

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

