

Data Architecture

Service Category: Cloud Migration Planning, Cloud Support Services

About Our Service

At Frazer-Nash, our specialist data architectures services will help you maximise the value of your data through information and data modelling (including semantic/ontology modelling), data auditing and quality assurance, data transformation and metadata management services. We also support data viewpoint development, employing relevant enterprise architecture standards like TOGAF, UML, ArchiMate.



Service Features

**Stakeholder
engagement and
requirements
elicitation to inform
data modelling**

**Data modelling,
including relational
and graph
modelling**

**Semantic modelling,
including taxonomy
and ontology
development**

**Data quality and
assurance**

**Open data
architecture,
including Q-FAIR
assessment**

Data audit services

**Data registry and
catalogue
development**

**Metadata
management**

**TOGAF Data
Architecture
Viewpoint
development**

**Specialist geospatial
data architecture
services**

Service Benefits

Quality information
and data assurance
across the
enterprise

Exploit emerging
semantic web and
graph technologies
through expert
modelling

Fit-for-purpose data
holdings

Greater
interoperability
through application
of data standards

Understand value
and quality of
enterprise data
through effective
auditing

Discoverable /
findable data
through effective
metadata
management

Support business
transformation with
quality data
management

Consistent data
architecture views,
supporting wider
enterprise
architecture
activities

Deliver innovative
services by
exploiting
geospatial aspects
of data

Detailed Service Definition

At Frazer-Nash, we continue to develop our capabilities with respect to standards for data architecture. Our consultants are experienced in TOGAF and ArchiMate notation, and we are active members of 'The Open Group' .

Our team is experienced in developing architectural data views - addressing storage, retrieval, processing, archiving and security of data - including creation of data flow diagrams and other data architecture visualisations and communication artefacts.

We offer data and information modelling services, including requirements-driven development of standard (e.g. relational) data models, and are also experienced in ontology development (i.e. graph modelling), typically involving specialist stakeholder engagement methods. We have particular expertise in graph data architectures, including application of RDF, OWL and SPARQL standards.

Detailed Service Definition (continued)

We offer a data audit service - applying a formal methodology to assess and communicate the business value and quality of data holdings and metadata services, developing standards-based catalogue/registry capabilities to support effective search and discovery of data across the enterprise. We offer advice on the application of catalogue and metadata standards, including ebRIM, Gemini 2 and Dublic Core.

We recognise that most business data has a spatial component, and Frazer-Nash possesses expertise in geospatial data architectures and data management, with a particular emphasis on applying open standards (OGC web standards) to deliver effective spatial data infrastructures.

Where the data architecture is concerned with migrating data to a future state, we offer data management and data transformation services, including architecture and design of data transformation and quality management workflows, including those supporting high-velocity, high-volume (i.e. big data) datasets.

We use enterprise architecture standards to describe data architectures, integrated with wider reference architectures to achieve strategic architectural coherence.

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

