

AI / ML Assurance

Service Category: Cloud Migration Planning, Cloud Support Services

About Our Service

We help you build credible, cost-effective safety arguments for AI/ML systems. Our experts shape emerging standards and assurance techniques through active research collaboration. With practical guidance and issue resolution at any level, we enable confident adoption of evolving technologies while meeting safety and compliance requirements.



Service Features

Application of relevant safety-related good practice

Provides understanding of your AI/ML system requirements

Provide credible and authoritative AI/ML safety assessments and safety cases

Access to recognised safety experts with proven real-world track records

Provides alignment to your customers' requirements

Access to our trusted system-based AI/ML safety assurance approach

Bespoke verification frameworks delivering trusted AI/ML-based systems & components

Producing standards-related gap analysis, impact assessment and gap closure reports

Provision of bespoke or off-the-shelf training courses in safety assurance

Understanding that often mission success is as critical as safety

Service Benefits

Helping you build confidence in your safety-related AI/ML-based systems

Develop relevant, maintainable and readable safety documentation reducing programme cost

Confidence in achieving compliance quickly and effectively

We work with your people, thereby improving your capabilities

Direct influence on emerging standards for future-proof solutions

Helping make the transition from non-safety to safety-related product development

Assurance backed by broad, cross-sector technical knowledge and experience

Unbiased guidance that prioritises your safety and success

We will tell you what you need to know, honestly

Making what can be complicated customer requirements clear and understandable

Detailed Service Definition

As autonomous systems become increasingly complex, interconnected, and capable of learning, often leveraging advanced technologies such as artificial intelligence (AI) and machine learning (ML), the challenge of safely integrating these components into existing architectures and with other autonomous elements grows significantly. Current industry guidance in this area remains limited, creating a critical need for robust assurance approaches.

Our service offering

We provide comprehensive assurance solutions for autonomy-enabling technologies, ensuring they meet stringent safety, reliability, and certification requirements. Our work spans the full lifecycle of autonomous systems, from concept development through operational deployment.

Detailed Service Definition

Why this matters

Unassured AI/ML components can introduce unpredictable behaviours, safety hazards, and compliance risks. Our services help organisations mitigate these risks, achieve regulatory alignment, and maintain trust in autonomous capabilities.

How we deliver

We combine deep technical expertise with cutting-edge research partnerships to stay ahead in this fast-evolving domain. By collaborating with leading research organisations, we help develop new standards, frameworks, and innovative assurance techniques tailored to future and emerging systems.

When to engage us

Our services are essential during:

- Early design phases for AI/ML-enabled systems.
- Integration of new autonomous components into legacy platforms.
- Certification and regulatory compliance activities.
- Supplier evaluation and capability assessments.

Detailed Service Definition

Our core capabilities include:

AI / ML risk assessment: identifying and quantifying potential hazards and failure modes

AI / ML safety auditing: independent verification of compliance with safety standards

System safety design assurance: embedding safety principles into AI/ML system architecture

Safety & environmental management systems: designing frameworks for ongoing risk control

AI / ML safety assessment: evaluating system-level safety impacts of autonomy features

Certification strategy development: creating pathways for regulatory approval of autonomous systems

Supplier capability evaluation: assessing third-party AI/ML development maturity and processes

Safety arguments & assurance cases: developing structured, evidence-based safety justifications

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

