

Autonomous Systems Assurance

Service Category: Cloud Migration Planning, Cloud Support Services

About Our Service

Our globally recognised systems assurance experts help you robustly and cost-effectively develop credible safety arguments for all unmanned/autonomous systems. We help select the best approach for satisfying your system safety requirements. Our support enables confident application of emerging guidance, with advice available to resolve issues at any level.



Service Features

Application of relevant safety-related good practice, helps reduce programme costs

Assist you to understand and implement your autonomous system requirements

Provide credible and authoritative safety assessments and safety cases

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

Development of system safety assessments, assurance and auditing

Access to our trusted system-based safety assurance approach

Bespoke verification frameworks delivering trusted autonomous 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

Provision of AI/ML expertise towards supporting autonomous systems

Service Benefits

Helping you build confidence in your safety-related autonomous systems

Assistance in developing relevant, maintainable and readable safety documentation

Clear roadmaps and action plans to address any identified shortfalls

We work with your people, thereby improving your capabilities

Access to those responsible for the development of relevant standards

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

Expertise in all types of systems across many industry sectors

Fully independent provision of open and constructive advice and support

Providing guidance to novel AI/ML approaches in the autonomous sector

Making what can be complicated customer requirements clear and understandable

Detailed Service Definition

An unmanned / autonomous system is where the system receives its mission from the human and accomplishes that mission with or without further interaction. An unmanned / autonomous system's own ability of sensing, perceiving, analysing, communicating, planning, decision-making, and acting, to achieve its goals as assigned is characterised into levels of autonomy.

Autonomous systems have existed for decades, and at lower levels of autonomy their assurance and certification is understood. Autonomous systems are becoming the new normal.

Detailed Service Definition (continued)

We help develop safety arguments for the successful introduction of new technologies including unmanned traffic management systems, sea-going vessels, rail systems, air systems and many others.

We are working with research organisations to develop new standards and techniques to assure higher levels of autonomy and the technologies that enable this.

Our emphasis is on future and emerging systems that incorporate non-traditional aspects.

We conduct:

- Autonomous system risk assessments
- Autonomous system safety assessments
- Autonomous system safety auditing
- Autonomous system safety design assurance
- Supplier capability evaluation
- Certification strategies
- Development of safety management systems for autonomous technologies
- Development and delivery of safety arguments and safety assessments

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

