



Enterprise Architecture [EA]

G-Cloud 15 Framework
Lot 3 Cloud Support: Service Definition

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Service overview

Many organisations still struggle with complex, siloed landscapes where systems, data and delivery evolve at different speeds. This creates duplication, rising technical debt, and slow, inconsistent decision making. Strategic intent becomes disconnected from operational reality, and programmes deliver fragmented change that does not add up to measurable value.

AtkinsRéalis helps you to address this challenge, by providing Enterprise Architecture (EA) expertise that cuts through complexity and brings coherence across your high-trust environments. Our architects have shaped **multibillion pound government portfolios**, delivered **integrated blueprints** across government and defence, and established reusable architectural patterns that reduce cost and accelerate delivery.

We are trusted because we blend architectural discipline, proven experience from **our deep engineering heritage**, security-cleared practitioners and practical delivery insight, to ensure your architectures are both credible and usable.

Our architectural ethos is pragmatic, transparent and outcome driven. Aligning strategy with delivery, we make complexity visible and create evidence-based models that support confident decisions. The result is architecture that is adopted, **governance that accelerates**, and **change that delivers value** rather than noise.





Our service in action

Our Enterprise Architecture service provides a **single, integrated framework** that connects your business intent to technical delivery. It combines strategy, design, modelling, assurance and capability uplift, into a cohesive offering that strengthens your decision making and reduces delivery risk.

To help align your people, processes and technologies with your business goals, we:

1. Diagnose and clarify

Working with you, **we establish a detailed and shared understanding** of your organisation. We analyse your strategic drivers, operating models, governance, existing systems, delivery constraints, dependencies and risks. Then, we map value streams, capabilities, business processes and integration points, removing ambiguity and enabling insights to prevent isolated, contradictory decisions.

2. Blueprint and roadmap

Bringing Target Operating Model (TOM), Business Architecture, Information Architecture, and Technology and Integration Architecture expertise, **we develop a coherent enterprise blueprint** that is tailored to your organisation's specific situation. We define principles, standards, capabilities and reusable patterns, then sequence your delivery through a roadmap aligned to value, risk and feasibility. This gives you a clear line of sight from ambition to delivery.





3. Solution design and integration

We architect solutions that integrate your legacy systems with the latest cloud platform capabilities, enterprise applications and data services. These architectures strengthen your interoperability, data lineage, security, performance and lifecycle cost control. Using digital twin techniques – virtual representations of systems or processes – we test scenarios, improving predictability and reducing investment risk.

Our reusable architectural patterns and shared capabilities are identified in our Architectural level 1 overviews and dynamically linked to the underlying pattern library. The ability to reuse proven solutions has **reduced client implementation risks and costs**, enabling faster delivery without sacrificing control or quality.

4. Governance and assurance

We embed collaborative governance which **engages stakeholders and accelerates delivery**, with lightweight and accessible architectural views and controls. We assure our Architectural products for fitness-for-purpose, interoperability, security, traceability and cost transparency. Combining architecture and programmatic data we present options that you can choose from to exercise strong change control. Your programmes benefit from clearer evidence, faster approvals and reduced rework.

We apply **analytics and AI-enabled techniques** to improve predictability, automate complex architectural analysis and strengthen decision making across your enterprise systems and services, drawing on methods proven in critical national infrastructure and secure government environments.

5. Capability uplift

Working with your teams, we establish or mature your architecture operations, transferring methods and models, and embedding patterns and processes that are repeatable and sustainable. This **builds your in-house capability**, so the architecture will continue to deliver value long after our engagement ends. .





Our methods and technical expertise

Applying a **proven set of architectural standards, modelling techniques and engineering-led tools**, we give you the structure, consistency and traceability you need to make reliable, evidence-based decisions. These methods ensure Enterprise Architecture is not purely theoretical, but directly supports your delivery, governance and long-term sustainability.



Standards that create consistency and traceability

We use industry-recognised architecture standards that provide a **common language** across your teams, programmes and suppliers, ensuring decisions can be justified, audited and maintained over time.



TOGAF (The open Group Architecture Framework)

Establishes architectural principles, models and governance structures that make decisions consistent and traceable. As a silver member of the Open Group, with over 50 qualified TOGAF practitioners, we share knowledge and resources, collaborating to develop open IT standards and certifications.

NATO Architecture Framework (NAF) v4 and Ministry of Defence Architectural Framework (MODAF)

Widely used across defence and secure government to provide mission appropriate operational and technical views.

ITIL v4 (Information Technology Infrastructure Library)

Shapes digital service operating models to ensure live systems are stable, supportable and cost-effective. Our team includes ITIL Master-certified practitioners – the highest level of ITIL accreditation – ensuring your service design, governance and operational decisions are shaped by industry leading expertise. We are also members of IT Service Management Forum UK (itSMF UK).

Open Agile Architecture (OAA)

Aligns architectural work with agile delivery, so iterative development and enterprise level direction remain connected.

SAFe (Scaled Agile Framework)

Where the enterprise architect translates business strategy into a technical architecture roadmap, as well as acting as a coach helping agile teams to make decisions aligned with strategy and removing impediments to smooth flow across Agile Release Trains.

Modelling languages and tooling that improve clarity and reusability

Our modelling approaches make complexity understandable, and ensure designs are repeatable, version controlled and easy to govern.

- **ArchiMate®** – a visual modelling language that links capabilities, processes, applications, data and technology so impacts, dependencies and design options are clear.
- **BIZZDesign** and **Sparx Enterprise Architect** – repository-based tooling that enables impact analysis, pattern reuse, model versioning and cross-programme consistency.

While these are our go-to tools, we always tailor our approach to work with the platforms and technologies that best complement your organisation's needs and existing toolsets. For example, we regularly use Abacus, Archi, AWS Composer, LeanIX Mood, Orbus, and Prolaborate.



Architectural patterns for cloud, integration and data

Using enterprise architectural patterns that improve resilience, interoperability and future-readiness, we design architectures that work across both your legacy estates and modern platforms. We offer:

- Proven experience across **Microsoft Azure** and **Amazon Web Services (AWS)** for hybrid and multi-cloud integration.
- **Integration and data architecture patterns** that improve your data lineage, quality, security and interoperability across systems and programmes.
- **Architectural Modelling** which allows you to test scenarios, options and risks virtually before committing to investment.



Why choose us? – trusted results, proven impact



Choosing AtkinsRéalis means you've found a partner who can bring order, structure and clarity to some of the most complex technical and organisational environments in the UK. Our Enterprise Architecture work is grounded in engineering discipline, practical delivery insight, and a **deep understanding of regulated, secure and mission critical settings**.

Instead of theoretical diagrams or 'shelfware' you get experts who embed themselves in the way your organisation works, uncover your real constraints, and establish architectures that are operationally feasible, cost-aware and aligned to strategic intent.

Our value lies not only in what we design, but in what we enable. Your programmes move faster, because **architectural debt is identified early and handled properly**. Your investment cases are strengthened, because options and their implications are visibly mapped.

Delivery becomes more predictable, because your risks, dependencies and integration points are understood and governed consistently. And your organisation becomes more resilient, because we uplift your in-house capability, leaving behind structures, patterns and governance that continue to add value long after our engagement ends.

AtkinsRéalis experts deliver Enterprise Architecture that **brings coherence to complexity, strengthening your decision making, and accelerating delivery**, using structured thought processes and frameworks (like ArchiMate®).

We translate your ambitions into clear, evidence-based architectural direction, ensuring your programmes are set up to succeed in achieving their goals.

With access to **1,000 plus digital professionals**, industry-recognised methods and experience across some of the UK's most challenging environments, we are a partner you can rely on to turn architectural thinking into real-world outcomes.

On the next slides you will find a selection of programmes where our Enterprise Architecture has created measurable impact and lasting change.



Case studies

Find out how our impact is demonstrated
through real-world delivery

CASE STUDY

Secure Government

Agile architecture at portfolio scale

A secure organisation needed to increase the effectiveness of twelve strategic programmes totalling more than £5 billion. Across an 18-month period, we delivered over 80 architectural interventions that improved integration and maximised reuse, resulting in identified savings of over £100 million and a reduction in assurance time by 12% while maintaining control and traceability.

£100M



- Cost savings
- Faster and smoother assurance

In identified savings



CASE STUDY

UK Government

Digital services portfolio blueprint

A £2.5 billion asset management modernisation programme was procuring digital services in silos, creating duplication and inconsistent integration. We developed an enterprise level Portfolio Blueprint that unified governance, investment and transition across current and future services. This portfolio model provides a modern, innovative and re-usable template for similar secure government, rail and water transformation initiatives.

£2.5b

National programme



- Cohesive, streamlined delivery across the whole programme
- A reusable model that accelerates future transformation



CASE STUDY

Defence

Integration authority

AtkinsRéalis established and operates an integration authority for a major programme (>£1 billion, 20,000 users) to modernise and integrate 200+ mission-critical applications (400+ interfaces). The team reduced risk by setting integration standards and guardrails, pre-emptively mitigating integration issues and assuring project-level requirements, thereby increasing confidence that new digital services are coherent with the business' vision.

200+
applications
integrated



- Fewer integration problems
- Greater confidence in the whole programme



About AtkinsRéalis

AtkinsRéalis is a global leader in engineering, design, and digital services, renowned for delivering end-to-end solutions across government, infrastructure, energy, transportation, and technology sectors.

Founded in 1911, our company operates in over 160 countries with a workforce of more than 36,000 professionals, combining deep technical expertise with cutting-edge digital innovation. Notable for internationally recognised engineering projects such as the Burj Al Arab, the Ho Chi Minh City Skyscraper and the Elizabeth Line, alongside digital projects for MoD, HMRC, National Highways and Heathrow, we have earned a reputation for consistently delivering high-quality work.

Our digital capabilities span business strategy, architecture, design, implementation, project management, and lifecycle support, leveraging advanced technologies such as AI, digital twins, and data-driven systems to transform government, infrastructure and energy systems worldwide. With our strong focus on human-centric design, resilience, and sustainability, AtkinsRéalis is a trusted partner for complex, mission-critical projects for clients across government, defence, infrastructure and beyond.



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