



Solution, Data and Cloud Architecture

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

January 2026

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Service overview

Reliability is not optional within AtkinsRéalis. It's the foundation of everything we build. From Digital Twins to physical nuclear facilities and other Critical National Infrastructure projects, we design solutions that must not fail, must satisfy the highest of quality standards, yet remain tailored to the specific needs of our clients and the sectors they serve. Whatever solution you're looking for – to help you save time, money or reduce your carbon footprint, **we have the experience to successfully deliver your goals.**

Our experts have helped East West Rail realise an annual saving of 1,600 hours, and Northumberland Council save over 25,000 hours a year. We helped Sport England reduce its hosting cost by 62% and enabled the Environment Agency to reduce repeat visits on national asset inspections by introducing an automated dashboard solution.

Underpinning everything we deliver is a culture of assured resilience, responsibility & sustainability - tailored specifically to your organisation's bespoke needs.

Our Solution, Data and Cloud Architecture Service is vendor- and technology-agnostic, helping you to avoid costly tie-ins and leveraging the strengths of different Cloud providers. We provide you with honest architecture that ensures you get exactly what you need.

We create a clear, assured path for organisations to navigate single- or multi-cloud environments, designing with discrete consideration for your requirements at every stage, balancing innovation with compliance, agility with security, and scalability with trust.

We recognise that maintaining the Confidentiality, Integrity and Availability of data is one of the most critical requirements in any government programme, and we work with clients at the highest security levels bringing leading-edge industry experience and expertise to support their needs.



Our service in action

Each of our architecture services is built to align seamlessly with your organisation's needs. We provide:

- **End-to-end design and delivery:** from initial strategy through to implementation and optimisation.
- **Single and multi-cloud expertise:** architectures that integrate seamlessly across providers, ensuring resilience and flexibility, all delivered by accredited consultants.
- **Assured pathways:** ensuring a structured approach that reduces risk and accelerates adoption. Our wealth of experience across multiple sectors means we have subject matter experts on hand, to help deliver a pathway that works for you.
- **Trusted collaboration:** with over 100 years of engineering heritage, we are familiar with highly secure domains and bring a wealth of experience to your architectures. We work alongside you, listening carefully, capturing requirements thoroughly, and embedding solutions that are designed to evolve alongside your business.



Our Methodologies and Tooling

Solution Architecture

- Methodologies & frameworks: TOGAF, Systems Thinking, C4 modelling, Architecture Decision Records (ADRs), Secure-by-Design, NCSC CAF-aligned, GOV.UK Service Standard.
- Tooling: Sparx Enterprise Architect, ArchiMate, BizzDesign, Figma/Visio for collaborative design.

Data Architecture

- Methodologies & standards: DAMA-DMBOK, DCAM, FAIR data principles, UK GDPR, NCSC/ISO alignment, TOGAF/Open Agile Architecture, CRISP-DM, MoSCoW and VMOST prioritisation.
- Tooling/platforms: Microsoft Fabric, Power Platform, Python, SQL, Tableau, Power BI, Qlik, Figma/Mural.

Cloud Architecture

- Methodologies & guardrails: Multi-cloud architecture across Azure/Amazon Web Services (AWS)/Google Cloud Platform (GCP), DevOps/DevSecOps with CI/CD, ITIL4, Government Digital Service (GDS), ISO 27001. AWS and Azure Well-Architected Frameworks, GreenOps
- Tooling: Azure DevOps, GitHub/GitLab, Jira, Power Business Intelligence (BI) for traceability and reporting.



We adhere to established architectural steps throughout delivery:

Preliminary

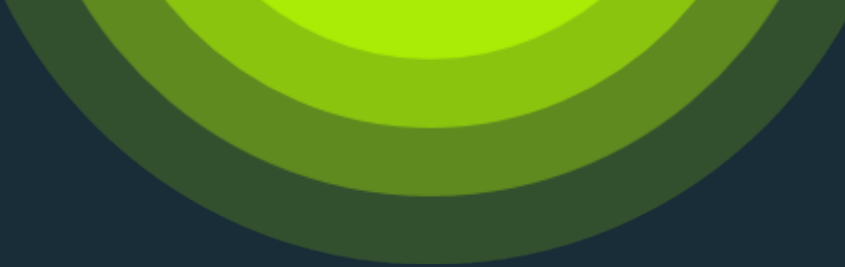
Establishing the architecture engagement foundations by defining scope, stakeholders, governance, principles, taxonomy, meta-model. Also implementing supporting tools such as Enterprise Architecture (EA) repository, Configuration Management Database (CMDB) integration and backlog management.

Architecture vision

Align architecture with business outcomes by defining scope, value, constraints; conducting stakeholder analysis and value case development; using capability heatmaps; and outlining a high-level target architecture across solution, data and cloud domains.

Business Architecture

Our analysts bridge architecture with business capabilities and processes through capability modelling, process and customer journey mapping, while assessing organisational and role impacts as well as policy and compliance implications.



Technology Architecture (Cloud)

We engineer cloud platform capabilities to support workloads through landing zone design, covering network, identity, and policy, while ensuring security and compliance with Zero Trust principles, Identity and Access Management (IAM), encryption, and comprehensive logging.

By creating a detailed design for your data ecosystem, we ensure that your platform is matched to your needs, enabling you to store, access, manage and manipulate the data that your organisation relies upon, structured to meet your use cases and downstream requirements.

Information Systems Architecture – Data and Application

We define how data and applications enable business outcomes through conceptual, logical, and physical data models, supported by integration architectures such as event-driven patterns, Application Programming Interfaces (APIs), and Extract, Transformation, Load (ETL)/Extract, Load, Transform (ELT) processes.

We translate your complex data landscapes into clear, organised models that represent business processes and data relationships. These models help you streamline your processes, make better decisions, and stay competitive, laying the foundations to enable advanced analytics, and AI solutions.

Opportunities and solutions

We devise workable solution increments and define work packages by analysing solution options and buy-versus-build decisions, while establishing the minimum viable product (MVP), release plans and mapping dependencies.

Architecture change management

We maintain relevance and control as change occurs by monitoring drivers of change, refining backlogs for architectural epics, and updating roadmaps, principles and standards.

Mitigation Planning

We plan sequencing, resources, and risk-managed execution through prioritisation and phased migration strategies, organised into waves or sprints, while preparing environment cutover and data migration rehearsal plans.

Governance and repository enablement

We operationalise architecture information and decision-making by establishing EA repository structures and viewpoints, and building dashboards to track compliance, risk, cost and reuse.

Implementation governance

We ensure delivery aligns with architecture and standards through architecture board reviews and design assurance gates, supported by policy-as-code practices and architecture scorecards. Our comprehensive offering spans the entire lifecycle, delivering the expertise you need to design, build, and operate robust management practices to unlock additional value.

Requirements Management

We maintain a single source of truth for requirements and traceability by capturing, prioritising, and tracing requirements, while managing conflicts, changes and acceptance criteria.

Why choose us? – trusted results, proven impact

We capture your business aspirations and architect them into secure, scalable systems that deliver measurable results.

Our experience

You get the rigour of an engineering organisation that has delivered complex, safety-critical projects to exacting standards in high-trust environments. That heritage translates into architectures that are reliable, compliant and tailored to your outcomes - without vendor lock-in.

Our people

Friendly, enthusiastic and technically sharp, our consultants work with your teams - co-designing, transferring knowledge and turning aspirations into working systems your users love and your leaders can trust. We're cleared to operate in secure domains and comfortable bridging business and technology.

Our approach

We start with outcomes. Working collaboratively, very often in blended teams, we build knowledge transfer into the projects we deliver. We're willing to bring our own proven methodologies or work flexibly within your established practices and systems of work.





Public sector understanding

More than 90 years' experience of delivery aligned with government frameworks, policy demands and compliance standards such as GDPR, Data Protection Act (DPA) 2018 and Data Use and Access Act (DUAA) 2025.



Uncompromising reliability

Decades of experience in high-trust sectors mean we engineer cloud solutions with the same rigour as our most critical projects.



Tailored pathways

Whether you're adopting cloud for the first time or optimising a complex multi-cloud estate, we adapt to your unique challenges.



High-trust environments

We maintain and build succession teams, who have clearance to work across secure and complex environments. Our teams operate with the right mindset, behaviours, and clearances to deliver solutions where confidentiality and compliance are paramount.



Compliance aligned

Every architecture we design is built to meet regulatory standards while enabling business growth.



Whatever your **need**, whatever your **environment** and complexity of **requirements**, we will work with you to deliver the right, **secure solution**.

Case studies

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

CASE STUDY

Sport England Active Places

Cloud-native geospatial platform

Working with Sport England, we rebuilt Active Places, the national database of 115,000+ sports facilities, delivering a full cloud transformation of their legacy ecosystem. Using Agile delivery and early test automation, our multidisciplinary team delivered high confidence, high volume releases on a modern cloud platform.

The resulting GIS platform enables local authorities to plan more effectively and provide better public access to sports facilities across England. We migrated **160k+ records** under robust release and Business Continuity Disaster Recovery processes, and through cloud architecture choices including reserved instances, credit controls and licence reuse, we delivered **up to 62% hosting cost savings**.

62%

In cost savings



- Smarter planning & access via national GIS platform
- Low-risk migration of 160k+ records
- Up to 62% cost savings through cloud optimisation



CASE STUDY

Environment Agency

Digitising national asset inspections (Power Platform + FME)

We architected end-to-end digital workflows using Power BI, Power Apps, Power Automate, SharePoint and FME. Inspectors are scheduled from embedded apps; GIS views drive allocation; CSV extracts and progress dashboards are automated. The solution cut repeat visits (15%), travel/carbon emissions, and raised daily inspection throughput across a multi-supplier programme.

15%

Reduction in repeat visits



- Fewer trips and lower emissions
- Automated scheduling and data flows, reduced repeat visits
- More inspections completed each day



CASE STUDY

Northumberland Council

GIS strategy and Automation

A co-authored geospatial strategy and governed data model standardised processes and knowledge sharing. Automations embedded into BAU delivered 25,991 hours saved in year one and won external recognition, with patterns reused via SpatialCDE to scale adoption across programmes.

25,991

Hours saved in one year



- Shared standards
- Improved consistency and collaboration
- Big time savings that can scale across programmes



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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