



Data Strategy and Design

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

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Service overview

Successful creation and exploitation of information from your data can deliver **game changing improvements in performance**. However, many organisations struggle with the scope and size of the challenge when it comes to data management across their enterprise. Local, tactical improvements can deliver value, but become difficult to scale across teams, projects and into partners and suppliers. Without a clear strategy, data becomes siloed, underused, or misaligned with organisational priorities.

Data Strategy and Design from AtkinsRéalis provides a **structured approach** to harnessing data as a driver of performance, enabling meaningful insights, innovation, and long-term resilience. We have delivered this value to local councils, government departments and major international organisations. Working with the Geospatial Commission on the National Underground Asset Register (NUAR) our Data Strategy work contributed to annual **savings of £490m**, for Northumberland Council the implementation of our GIS Data Strategy saved them over 25,000 hours a year.

Our service in action

Our Data Strategy and Design service helps you establish the **strong foundations required to maximise the value of your organisational data**. We begin by understanding your organisational goals, challenges, and the ecosystem within which data is created and consumed. Applying Systems Thinking, we consider people, processes, technology, and governance to ensure interventions are holistic, adaptable, and sustainable. We connect **strategic vision** with the practical realities of data use, ensuring solutions are actionable, realistic, and grounded in your operational environment.

Working closely with your teams, we:

- Embed governance principles that enable meaningful insight generation
- Make data **accessible**, secure, and easy to interpret
- Present information clearly to support confident, evidence-based decisions.

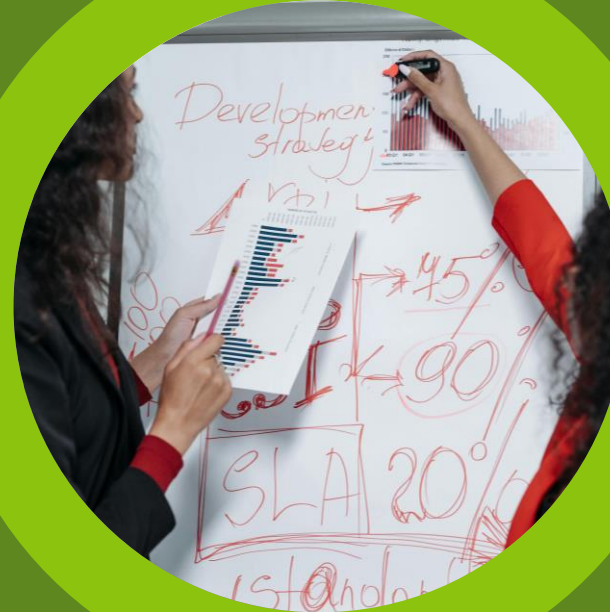


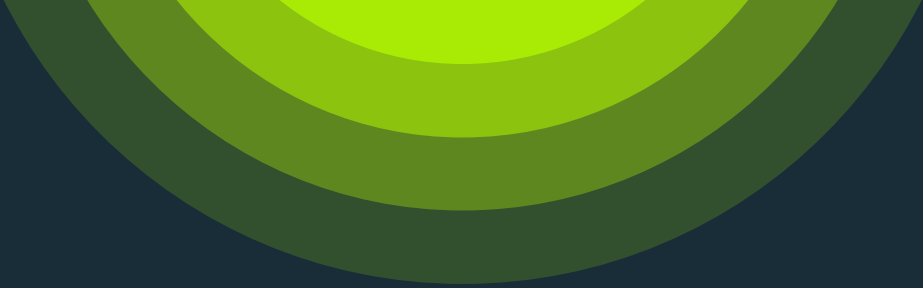
We maintain the security clearances required for sensitive environments and bring a broad range of certifications across data governance, cloud technologies, architecture and analytics, ensuring clients receive trusted, compliant and high-quality support.

Our proven approach will help you achieve:

Data Strategy

- Clear, actionable strategies aligned with organisational priorities
- Tailored governance principles to ensure accuracy, quality, security, and compliance
- Insight-driven recommendations that enable evidence-based decision-making
- Approaches that strengthen operational efficiency and long-term value.





Data Governance & Information Management

- Robust governance frameworks, policies, and processes
- Metadata and information management that ensures the right information reaches the right people
- Improved data quality and trustworthiness across your organisation
- Breaking down silos to enable organisation-wide intelligence.

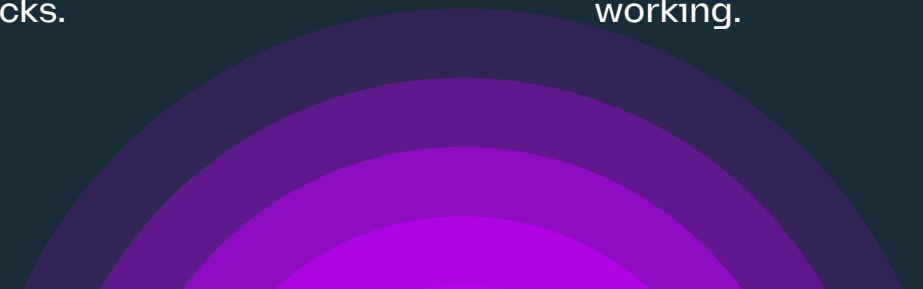
Data Access & Democratisation

- Design and optimisation of Common Data Environments (CDEs)
- SpatialCDE capabilities to support multi-disciplinary teams and enhanced decision support
- Single-source-of-truth environments that improve collaboration and reduce bottlenecks.

Modern Data Architecture & Design

- Scalable data structures that unify data sources and improve flow
- Enterprise-level data modelling, ontologies, and taxonomies
- Design approaches for modern architectures such as data lakehouse, data mesh and data fabric that enable AI/ML-ready capabilities
- Support transitioning from legacy systems to modern, flexible data environments
- Through-lifecycle management policies to ensure ongoing relevance and reliability.

Operating Model & Organisational Design

- Support in shaping data-focused organisational models
 - Embedding data considerations into existing ways of working.
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Why choose us? – trusted results, proven impact



Choosing AtkinsRéalis means working with a partner who combines technical expertise with a deep understanding of organisational systems and human behaviour.

Proven expertise: With decades of experience delivering trusted solutions in high-stakes environments, we have knowledge and understanding of existing policies and standards across secure environments. We understand your working methods and your professional networks.

Far-reaching support: Offering a network of Subject Matter Experts (SMEs) across multiple sectors and domains, as well as international reach-back, we bring the lessons we have learned along the way to inform your organisational success. Committed to constantly learning and developing, we remain vigilant and relevant.

Comprehensive services: Supporting you across the full data lifecycle, from governance frameworks to advanced analytics.

People-first approach: Actively engaging and co-creating with your teams to ensure your strategies are inclusive and adopted across the organisation. We genuinely care that your people get the solutions they need to help them deliver your mission.

Real-world impact: Delivering measurable improvements in efficiency, transparency, and decision-making.

Sustainable success: Equipping teams with the tools and knowledge to manage and exploit data effectively into the future.

By supporting you in designing and building the foundations of modern data approaches, we help you to move beyond fragmented information, creating coherent, evidence-based narratives that drive strategic impact and sustainable growth.



Case studies

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

CASE STUDY

Northumberland GIS Strategy

Prior to our consultancy services, Northumberland County Council struggled with its geospatial data management, data quality and the software degradation of its systems. We co-authored a Geospatial Information System (GIS) Data Strategy which ultimately resulted in improved data management, standardisation and sharing of GIS data. This increased confidence in GIS, by providing teams with up-to-date, accurate geospatial data, enhancing the efficiency of council services, allowing the GIS team to focus on innovative work and automation.

Overall, 25,991 hours of work time were estimated to have been saved in 12 months using the new system. This project was also highly commended at the Management Consultancies Association (MCA) Awards in the "Change and Transformation in the Public Sector" category, highlighting its excellence and imp

25,991

Hours of workload saved



CASE STUDY

Geospatial Commission

National Underground Asset Register (NUAR)

The Geospatial Commission within the UK Cabinet Office is investing £24 million to create a national datahub providing details of over 400 million km of buried assets. Working with the Geospatial Commission, we established FAIR (findability, accessibility, interoperability and reusability) data designs, common models and security frameworks across multiple providers, de-risking delivery and enabling consistent sharing that was critical to the success of this project.

£490M

Forecast annual savings



- Reduced data access time from **6.1 days to 60 seconds**
- Streamlined processes predicted to cut costs by **£91 million per year**
- Overall capability is forecast to save **£490m** a year efficiency and reduced asset strikes.



CASE STUDY

Canadian Nuclear Waste Management Organisation [NWMO]

We developed an enterprise data strategy, target analytics operating model and implementation roadmap for the Canadian NWMO, creating the foundation for it to get best value from its data. Working collaboratively with the NWMO's IT Directorate, we developed an enterprise data strategy, target operating model that helped the organisation to improve its data maturity and resolve its capability gaps and limitations.

We devise a roadmap for its journey towards achieving its future ambitions and aligning business strategy and data investment. We created the foundations for the NWMO IT Directorate's vision, strategy and plan, supporting it to work towards drawing valuable insights from its data.



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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