

# DATA ESTATE MODERNISATION

## G-Cloud 15





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# 1 Service Overview

Capgemini is one of the world's most ethical companies as recognised by the Ethisphere Institute. They have been recognised for living their values and making ethical business decisions every day making them a trusted responsible partner that not only delivers on performance but also demonstrates good ethical practices. Through Capgemini's G-Cloud's offerings you can expect a service that delivers value and impact whilst still aligning to strong ethics and principles.

Capgemini's Data Estate Modernisation service enables public sector organisations to transform their legacy data estates into secure, scalable and AI-ready ecosystems that deliver actionable insights at speed with a more optimal cost model. This service addresses the growing need for data democratization by making data usable and accessible to everyone regardless of technical expertise. Compliance and agility are a primary focus in an environment of rapid change, rising citizen expectations and growing demand. The Data Estate Modernisation service enables self-service access to trusted data and empowers all stakeholders to make informed decisions quickly and confidently. The Data Estate Modernisation service by Capgemini takes an empathetic approach to understand your current challenges, working closely with you to identify the best in class approaches, tools and technologies that will elevate your organisation's technological capabilities. We can lead you to better insight from your data helping you make informed decision with data that you trust.

Capgemini's Data Estate Modernisation service delivers more than a technology upgrade - it drives a strategic transformation of people, processes, and technology to unlock the full potential of data to support your organisation in achieving it's goals:

## Strategic:

- **Business Outcomes Focus:** Working alongside you to create a roadmap that aligns technology modernisation with your organisation's strategy.
- **Data as a Product Cultural Shift:** We will support you in championing a product mindset for managing data within your organisation to ensure your data is designed and managed with the needs of your end users in mind.
- **Collaborative Data Ecosystem:** Through the implementation of a federated data marketplace, user-centric governed data products can be shared safely and easily accessed throughout your organisation or externally with fine grained access control enabling collaboration, innovation and self service.

## Governance:

- **Trusted Data by Design:** Comprehensive data governance is imperative to support your organisation in being able to meet GDPR and other regulatory compliance requirements. This service will ensure that data cataloguing, lineage, observability and privacy controls are factored into the initial design and beyond.

## Proven Capgemini Accelerators and Frameworks:

Capgemini are able to leverage a number of results driven accelerators to be able to expedite delivery and provide a tailored solution to meet your organisation's needs achieving up to 40% shorter delivery times and a 30–50% reduction in the overall modernization process. It enables you to make use of the latest AI and engineering technologies with the assurance that security and responsibility are an integral consideration for the end to end solution. These accelerators allow you to work smarter not harder, boosting engagement, reducing attrition and improving service delivery. Capgemini's Research Institute reported 90% of public sector organisations are planning to explore, pilot or implement agentic AI within the next 2-3 years. Through leveraging the proven accelerators from Capgemini you will be able to accelerate your journey to efficiency and modernisation.

- **Rapid Maturity Assessment:** Enables an assessment of your core technological capabilities and insight into your readiness for adopting a new technology. This allows you to be aligned to the right technologies that will support your organisation's strategy and goals.



- **IDEA (Industrialized Data & AI Engineering Acceleration):** Capgemini's framework for modernising and industrialising data estates at speed and scale. It provides production-ready modules for data ingestion, migration, governance, and AI enablement, all built on Platform-as-Code principles and a secure, cloud-native architecture. IDEA accelerates transformation ensuring trusted data foundations, compliance, and flexibility to support multi-cloud environments by reducing complexity enabling faster time to value.
- **RAISE (Reliable AI Solution Engineering):** Capgemini's accelerator for responsible and scalable AI adoption is designed to help organisations deploy Generative AI and Agentic AI securely and cost-effectively. RAISE combines trust frameworks, governance and guardrails with hyperscaler partnerships to ensure ethical AI integration. RAISE focuses on value-driven use cases, enabling organisations to scale AI confidently while maintaining transparency, fairness, and compliance. RAISE also leverages cost optimisation strategies and modular scaling to deliver AI at enterprise scale.

#### Technology:

- **Next-Generation Data Platform Foundations:** An embedded cloud-native architecture with Platform-as-Code, automated provisioning, and embedded security and governance.
- **Hybrid and Multi-Cloud Flexibility:** Support for AWS, Microsoft Azure, Google Cloud Platform, Databricks, Snowflake and Palantir is available to ensure interoperability and future-proofing.
- **Data Foundations for AI & Analytics:** Industrialised ingestion frameworks are available for batch and streaming data, data quality services and curated data layers to enable advanced analytics, Generative AI and Agentic AI.
- **AI-GenAI & Agentic AI Enablement:** The service provides the integration of AI engineering, Generative AI and Agentic AI orchestration (RAG, guardrails, prompt optimisation) to support autonomous data operations and self-service AI capabilities. Ethical AI principles and governance is embedded to ensure fairness, transparency, and compliance. Through this enablement repetitive tasks can be automated allowing you focus more on strategic high impact valuable work.
- **Technical Expertise:** Capgemini brings deep industry expertise, global delivery capability and strategic alliances with leading hyperscalers such as AWS, Microsoft Azure, Google Cloud Platform, Databricks and Snowflake to ensure a smooth, secure and value-driven transformation journey. The journey can lead you to a significant risk reduction, access to innovation and open doors to opportunities for co-funding.

## 2 Business Need

Public sector organisations face increasing pressure to deliver better services, make faster decisions and improve compliance whilst effectively managing costs. Many organisations operate on older complex or partially modernised data estates whether on-premise or in the cloud that can be costly to maintain and may not yet fully support advanced analytics and AI. The Data Estate Modernisation service helps accelerate their journey to unlock the full potential of modern data platforms.

#### Key challenges:

- Organisations can find it challenging to share data securely and get access to accurate data at speed which hinders collaboration, the ability to make timely decisions and limiting innovation. Often this is due to a dependency on legacy and distributed siloed platforms.
- Often organisations have adopted the cloud but are not currently using it to its full potential or operating it sustainably or cost effectively. Organisations can be challenged with high operational costs and technical debt from traditional architectures making it difficult to introduce new technologies and to align the right technologies to fulfil the organisation's objectives.
- A lot of time can be spent on manual repetitive tasks where through automation more time can be spent on insight and strategic improvement.



- There are concerns as to whether an organisation is ready to utilise AI which prevents the adoption of advanced analytics, Generative AI, Agentic AI and autonomous operations.
- Organisations are often challenged with complex governance and compliance requirements, including GDPR and data sovereignty. Systems and platforms on the data estate do not enable data to be governed to ensure data quality, security and availability.

A Modern data estate is essential to be able to enable a trusted, secure and scalable data foundation for AI and analytics. It can support timely and accurate data driven decision making whilst reducing costs and complexity through cloud-native architectures. Intelligent automation removes the need for repetitive manual tasks meaning that more time can be spent on innovation and strategic operations to improve citizen outcomes.

## 3 Our Approach

Capgemini's approach to Data Estate Modernisation is to closely collaborate with you to find the most suitable technologies to be able to support your organisation's goals. Capgemini combine their proven accelerators and frameworks to deliver a platform that meet's your needs and adheres to industry best practices for a modern, secure and scalable platform. The following describes what is involved at each stage:

### 1. Ignite (Discovery Phase)

- A Rapid assessment of the current data estate and business priorities.
- Strategic objectives, pain points, and compliance requirements are captured.
- Templated discovery frameworks and AI-powered accelerators are leveraged to accelerate the speed of delivery and ensure consistency.
- Benchmark current maturity against industry standards using Rapid Maturity Assessment's structured question set.
- Identification of gaps across data, technology, skills, and operating model to align with business outcomes.
- Prioritisation of improvement areas and provide options for closing gaps, supported by a high-level roadmap.
- Repeatable assessments are enabled for continuous evolution and progress tracking.
- An Executive Summary, capability breakdown and actionable roadmap is delivered at the end of this phase.

### 2. Think Big (Strategy & Design)

- Target architecture, operating model, and modernization strategy are defined
- Business requirements are prioritised into a strategic backlog aligned to value drivers.
- A Roadmap and governance model for scaling AI and analytics capabilities is identified and agreed upon.
- Capgemini's IDEA platform and reference architectures for AWS, Microsoft Azure, Google Cloud Platform, Snowflake, Databricks and Palantir is leveraged to provide industry best practice and standards to the design.

### 3. Industrialise (Execution)

- Re-architect and modernise data platforms using Platform-as-Code and DevOps/DataOps automation.
- Deploy trusted data foundations, governance, and security frameworks.
- Enable AI – Generative AI & Agentic AI readiness through Capgemini's RAISE for AI accelerated data platforms.
- Deliver reusable data products and self-service capabilities at scale, underpinned by modern principles such as data mesh and data fabric.

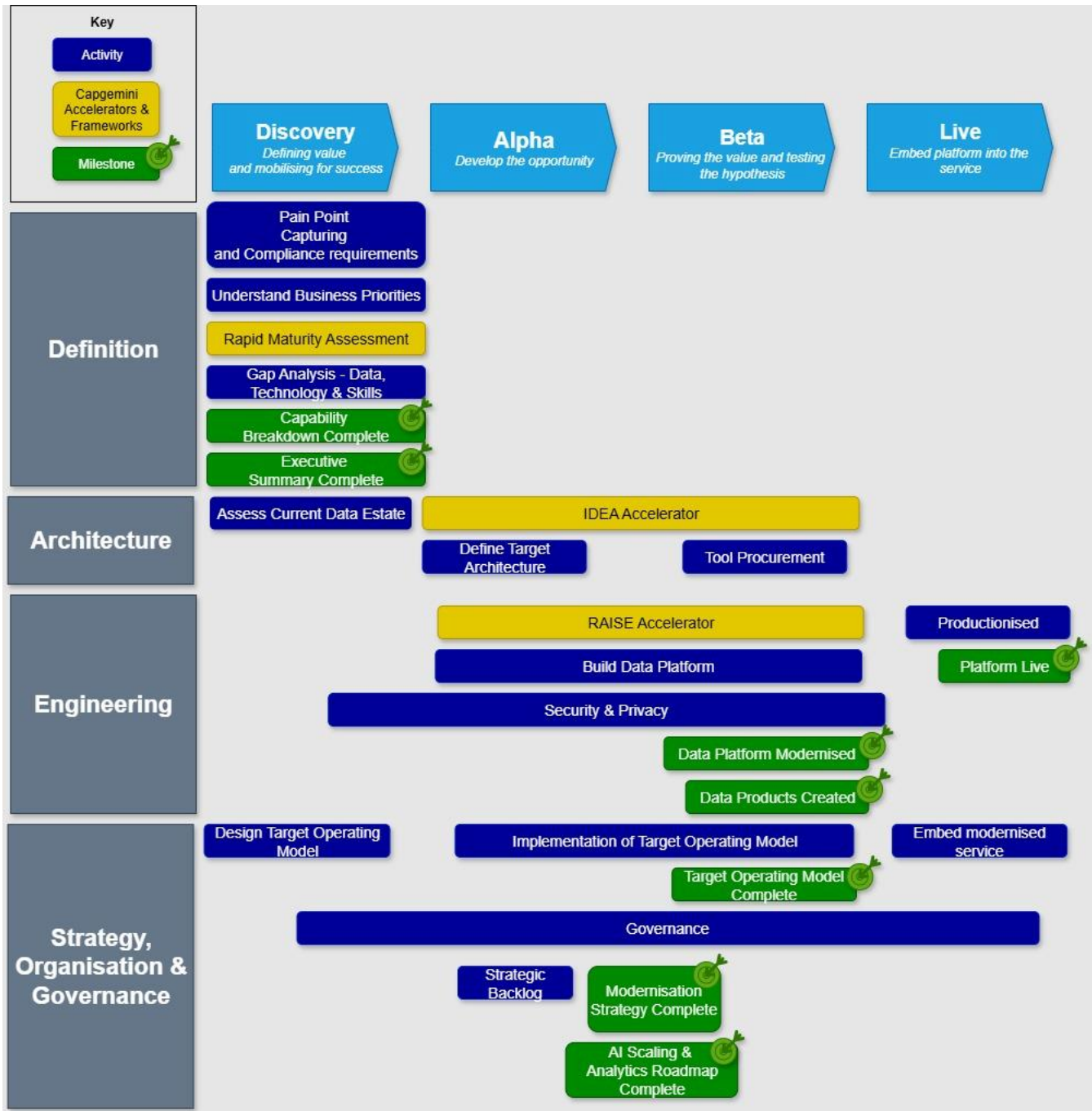
### 4. Run & Sustain (ADM Approach)



Once the data estate is modernised and industrialised, ongoing operations require a robust ADM approach to ensure stability, scalability, and continuous improvement. This phase focuses on

- Proactive Monitoring & Self-Healing:
- Leveraging Agentic AI accelerators like IntelliFixer for autonomous detection and remediation of issues in data platforms, reducing MTTR by up to 40%.
- AI-Driven Service Management :
- Use GenAI-powered tools for automated test case generation, regression testing, intelligent impact analysis, and dependency mapping for change requests. Includes AI Code Explainer for code analysis and productivity.
- Continuous Optimisation :
- Implement AI Ops for predictive anomaly detection, capacity planning, and cost optimization across multi-cloud environments.
- Knowledge Management & Support Automation :
- Deploy RAG-based chatbots for L1/L2 support, enabling faster resolution and reducing manual effort.
- Key Accelerators: IntelliFixer, AI Code Explainer ,GenAI Testing Framework, RAISE (Reliable AI Solution Engineering), and IDEA (Industrialized Data & AI Engineering Acceleration).

Below is an illustrative example of how Capgemini can deliver the Data Estate Modernisation Service:



This diagram is for illustration only and does not represent any obligation or responsibility of Capgemini.

## 4 Buyer Responsibilities

Please refer to the Supplier Terms listed with this service on the Platform. These may contain additional Buyer obligations/costs the Buyer is subject to that are not identified anywhere else in the Supplier's Application or on the Platform.

The Buyer responsibilities as part of this service are as follows:

- Buyer must ensure a project owner is available and empowered to make decisions when requested by the project delivery team, in a timely fashion



- Buyer must ensure that changes to project goals are documented and communicated to the project delivery team, in a timely fashion
- Buyer should ensure that the project owner attends regular project progress meetings.
- Buyer should ensure stakeholder engagement for business and IT teams during discovery, design and implementation phases.

If these responsibilities do not match Buyer's expectations, then please contact Capgemini in order that options can be explored to vary the approach.

## 5 Service Management

Not Applicable

## 6 Protection of Data

This service is based on a security classification of 'Official', however should you have a requirement for a different security classification that you would like us to consider, please contact us to discuss.

## 7 On-boarding and Off-boarding

Capgemini shall undertake on-boarding and off-boarding activities agreed within the Order Form (including as a minimum an exit plan in line with the Call-Off Contract terms) which will be charged for in accordance with the Pricing section for this service.

## 8 Skills and Knowledge Transfer

Capgemini recognises that skills and knowledge transfer is a critical element in the provision of G-Cloud services to public sector clients. Where possible and applicable, this forms part of the delivery plan for the service agreed at the start of the engagement. Our consultants and engineers are experienced in providing skills and knowledge transfer for major private and public sector clients.

Where appropriate, we may use a standard approach, tailored to topic, skills-gap and individual, to ensure consistency and effectiveness. The approach, Capgemini's Assess-Plan-Implement framework, has been used repeatedly by our teams to structure the work involved in transferring skills and creating new teams capable of driving and sustaining change long after the end of the formal programme. The framework can be applied throughout a project to understand knowledge transfer objectives, plan training delivery methods and materials, and deliver and evaluate success.

## 9 Partnerships/Alliances

Capgemini delivers Data Estate Modernisation in close collaboration with leading cloud and data platform providers such as AWS, Microsoft, Google, Databricks, Snowflake and Palantir. Our partner ecosystem accelerates delivery, reduces risk and unlocks co-funding and co-innovation opportunities for the Buyer. These alliances allow Capgemini to deliver cloud-first, data-driven and AI-enabled solutions that help clients achieve resilience, efficiency, and growth in a rapidly evolving digital landscape.



## 10 Vendor Accreditations/Awards



For the 13th year in a row, Capgemini has been recognised as one of the World's Most Ethical Companies® by the Ethisphere® Institute. This is an acknowledgement of our ethical culture that makes us an employer of choice and responsible player in the eyes of our clients, shareholders, and the wider community.

## 11 Sub-contractors

Capgemini UK may use the following subcontractors to deliver this service:

- Capgemini Technology Services India Limited.

## 12 Business Continuity and Disaster Recovery

No disaster recovery plan is provided as part of these Services.

## 13 Pricing

This service is priced in accordance with the Rate Card attached. Capgemini can also provide offshore resources at reduced rates where appropriate. Projects can be priced either on a Time & Materials or Fixed Price basis.

## 14 Ordering and Invoicing

Please refer to the Supplier Terms for this service.

We would be pleased to arrange a call or meeting to discuss your requirements of our service in more detail.

## 15 Termination Terms

Please refer to the Supplier Terms for this service.

## 16 Further Information

For more information about this or any of our G-Cloud services, please contact our Public Sector Team.

**Phone:** 0370 904 4858

**Email:** [publicsector.opps.uk@capgemini.com](mailto:publicsector.opps.uk@capgemini.com) including the following information:

1. The name of this service.
2. The name of your organisation.
3. Your name and contact details.
4. A brief description of your business situation.
5. Your preferred timescales for starting the work.



## About Capgemini

Capgemini is a global business and technology transformation partner, helping organizations to accelerate their dual transition to a digital and sustainable world, while creating tangible impact for enterprises and society. It is a responsible and diverse group of 340,000 team members in more than 50 countries. With its strong over 55-year heritage, Capgemini is trusted by its clients to unlock the value of technology to address the entire breadth of their business needs. It delivers end-to-end services and solutions leveraging strengths from strategy and design to engineering, all fueled by its market leading capabilities in AI, generative AI, cloud and data, combined with its deep industry expertise and partner ecosystem. The Group reported 2024 global revenues of €22.1 billion.

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