

Geospatial Intelligence & GIS Architecture Services G-Cloud 15





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1 Service Overview

Capgemini's Geospatial Intelligence & GIS Architecture Services deliver end-to-end support for organisations seeking to harness location-based data and geospatial technologies within cloud-enabled environments. This service combines deep GIS expertise with enterprise architecture and cloud integration capabilities to create scalable, secure, and innovative solutions aligned to business objectives.

With over 20 years of experience in GIS and locational intelligence, Capgemini helps public sector organisations modernise geospatial platforms, integrate spatial data with enterprise systems, and adopt advanced analytics and cloud-native solutions. Our service addresses both mainstream and niche use cases, including:

- Digital twins and BIM integration for infrastructure and asset management.
- Emergency operations and situational awareness using real-time geospatial feeds.
- Environmental modelling and land-use planning leveraging spatial analytics.
- Geo-fencing and safety monitoring for operational risk management.

We leverage leading technologies such as Esri ArcGIS, GE Smallworld, Pitney Bowes MapInfo, Safe Software FME, and open-source platforms like QGIS, GeoServer, and OpenLayers, combined with cloud-native architectures and integration with enterprise systems (SAP, Oracle, etc.).

This service is designed to support cloud migration planning, enterprise architecture alignment, and delivery roadmaps for geospatial transformation, ensuring compliance with government standards and interoperability across IT ecosystems.

2 Business Need

Geospatial data is now a critical enabler for public sector services, underpinning decision-making in areas such as asset management, infrastructure planning, emergency response, and environmental monitoring. However, organisations face challenges in managing growing volumes of spatial data, integrating diverse datasets, and adopting modern GIS platforms within cloud environments.

Common challenges include:

- **Fragmented GIS capabilities and legacy platforms** – Limiting scalability and interoperability.
- **Integration complexity** – Difficulty aligning GIS solutions with enterprise architecture and cloud strategies.
- **Limited expertise in advanced geospatial analytics** – Including AI, machine learning, and spatial BI.
- **Niche use cases requiring specialised solutions** – Such as geo-fencing for safety, real-time asset tracking, and BIM/digital twin integration.
- **Data governance and compliance** – Ensuring spatial data aligns with industry standards and security principles.

Consequences: Without a clear strategy and modern architecture, organisations risk inefficiencies, poor decision-making, and inability to exploit location intelligence for operational and strategic advantage.

This service addresses these challenges by:

- Reviewing GIS maturity and enterprise IT landscape to define a roadmap for improvement.
- Designing cloud-enabled GIS architectures aligned with business and transformation objectives.
- Supporting integration with enterprise systems (e.g., SAP, Oracle, asset management platforms).



- Delivering specialist solutions for niche use cases such as emergency operations and digital twins.

Benefits include:

- Improved decision-making through advanced spatial analytics.
- Accelerated adoption of cloud-native GIS platforms.
- Enhanced interoperability and alignment with enterprise architecture.
- Reduced risk through proof-of-concept and reference architecture models.

3 Our Approach

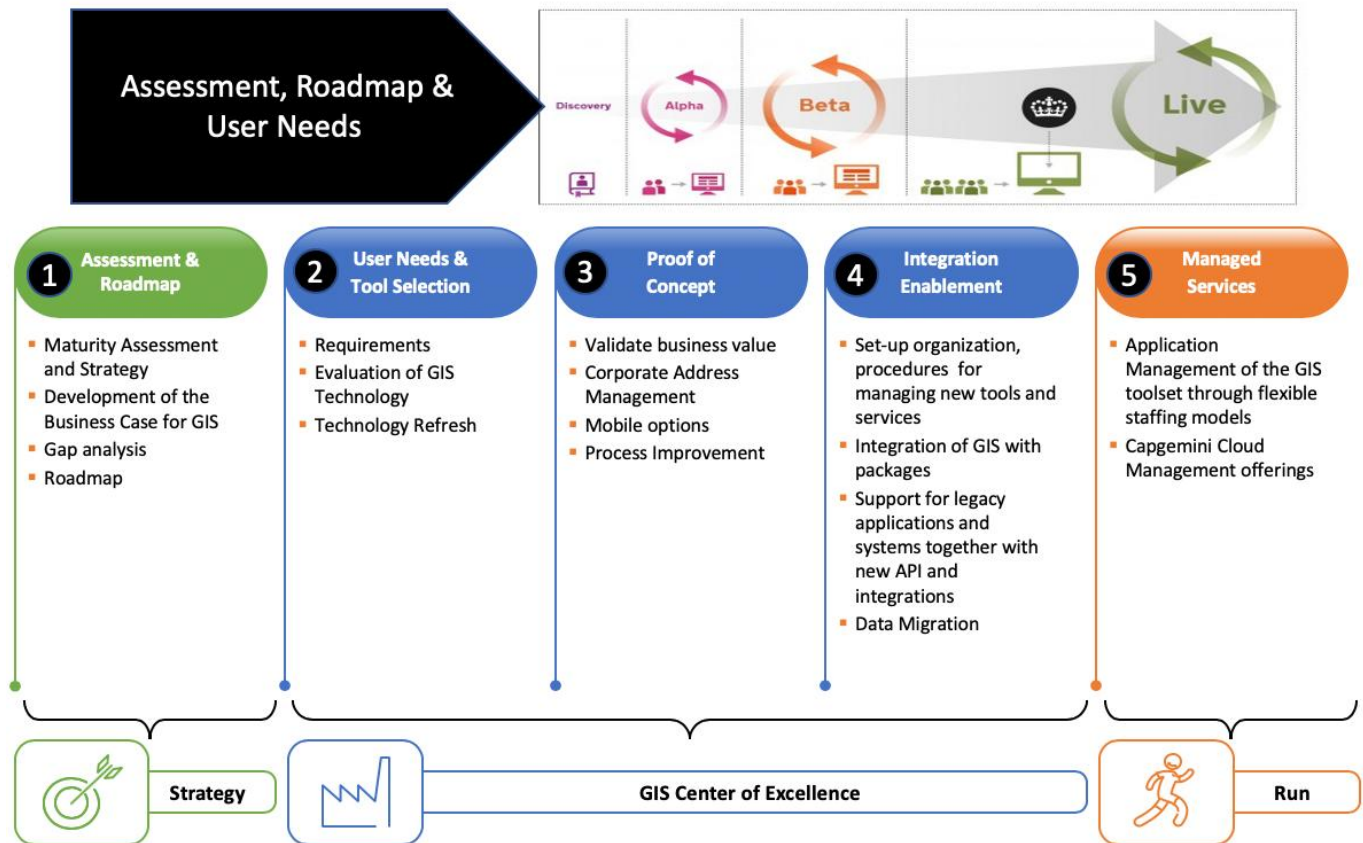
Capgemini's approach combines strategic advisory, technical design, and implementation expertise to deliver GIS solutions that are robust, scalable, and aligned to business outcomes. We adopt a structured methodology that ensures clarity, governance, and measurable value throughout the engagement.

Key Principles:

- **Business Alignment** – GIS solutions tailored to organisational priorities and transformation objectives.
- **Cloud Integration** – Architectures designed for public, private, or hybrid cloud platforms.
- **Standards Compliance** – Spatial data models aligned with frameworks such as INSPIRE and ACRIS.
- **Innovation Enablement** – Applying AI, machine learning, and advanced analytics to geospatial data.

Core Activities:

1. **Assessment & Roadmap Development**
 - Review GIS maturity and enterprise IT landscape.
 - Define a transformation roadmap aligned to cloud and digital strategies.
2. **Solution Design & Architecture**
 - Develop reference architectures for cloud-enabled GIS platforms.
 - Create spatial data models aligned with industry standards.
3. **Integration Enablement**
 - Align GIS solutions with enterprise systems (ERP, asset management, work scheduling).
 - Enable interoperability across diverse technology stacks.
4. **Proof of Concept (PoC)**
 - Validate solutions for niche use cases such as digital twins or emergency operations.
 - Demonstrate value through rapid prototyping and user story-driven design.
5. **Managed Services & Continuous Improvement**
 - Provide ongoing support for GIS applications in cloud environments.
 - Maintain GIS reference architecture and incorporate emerging best practices.



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

Deliverables:

- GIS strategy and roadmap aligned to cloud and enterprise architecture.
- Reference architecture and spatial data models.
- PoC solutions for high-value use cases.
- Comprehensive reporting on risks, dependencies, and recommendations.

Our approach leverages Agile delivery methods, reusable patterns, and accelerators to reduce risk and accelerate time-to-value. All outputs comply with UK GDPR, Cabinet Office security principles, and WCAG 2.1 accessibility standards. Engagements can scale from advisory to full lifecycle delivery.

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.

5 Service Management



This service is priced in accordance with the SFIA 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.

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

Prior to the execution of the Order, the Supplier and the Buyer will agree the scope of the exit plan for the Services and a timescale for delivering an exit plan to ensure continuity of service.

Capgemini shall undertake on-boarding and off-boarding activities agreed within the Order Form and 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

This section is intentionally left blank.

10 Vendor Accreditations/Awards

Architecture Accreditation

- TOGAF 10.0
- SAFe Architect
- AWS Practitioner and Architect
- Azure Fundamentals
- Azure Solution Architect



11 Sub-contractors

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

- Capgemini Technology Services India Limited.

12 Pricing

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.

13 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.

14 Termination Terms

Please refer to the Supplier Terms for this service.

15 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 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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