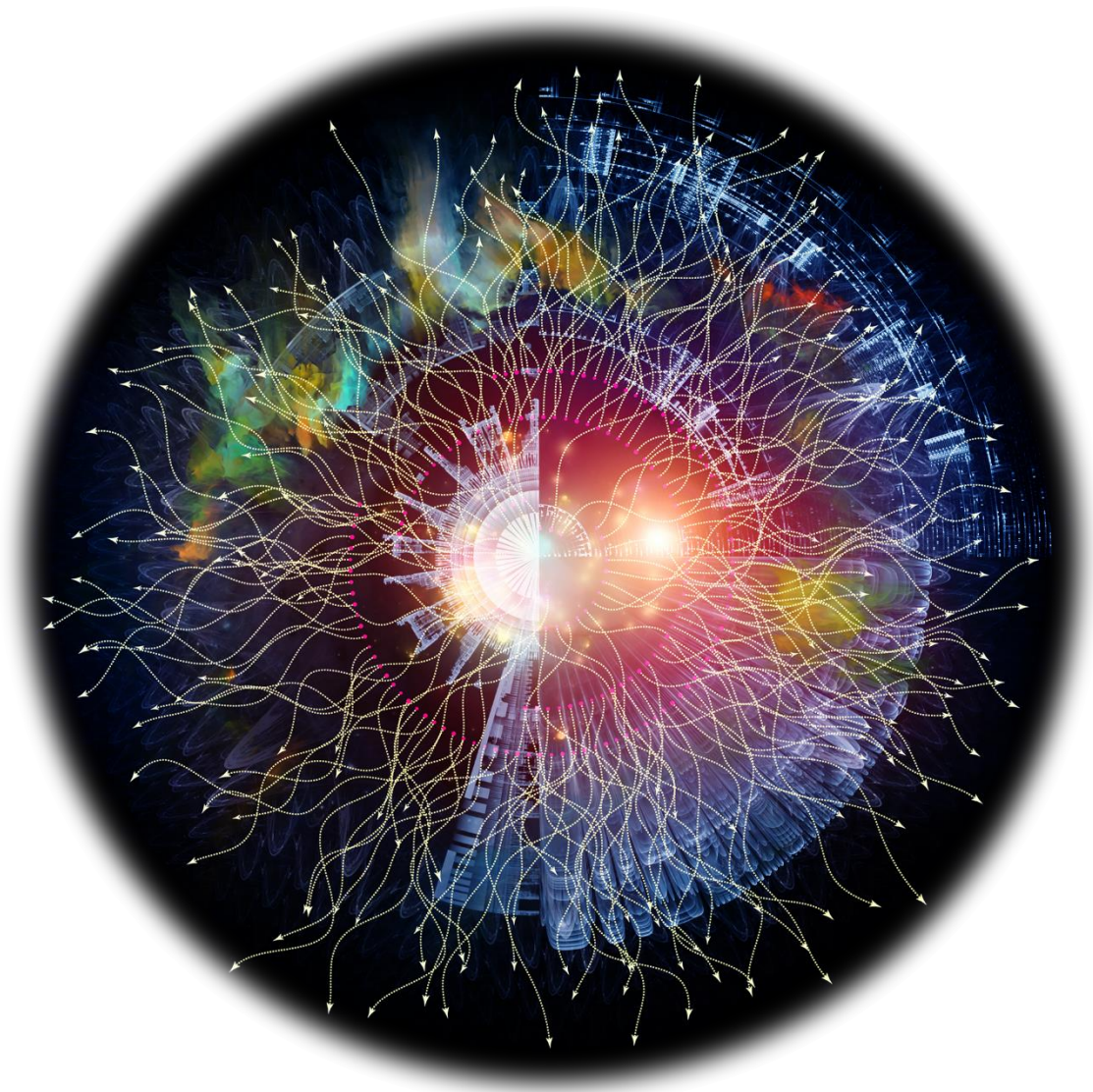




Composable Sustainability Architecture

G-Cloud 15 Service Definition Document

January 2026

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1 Deloitte Overview

As a leader in professional services, Deloitte LLP is committed to making an impact to our clients, our people and for society. We have over 27,000 staff based across the UK providing audit, risk advisory, tax, consulting, financial advisory and legal services to public and private clients across multiple industries. We work together to build trust, support inclusive growth, and build capability, enabled by our **breadth and depth of expertise across advisory, delivery, engineering and managed services.**

Our **public sector practice** serves Central Government, Government Agencies, Local & Regional Government, Defence, Security and Justice, Health and Social Care, Transport, Education and Housing. We also provide services to the Northern Ireland Office, Scottish Government, Welsh Government and Crown Dependencies.

Our Cloud Capability

At Deloitte, we help our clients **Imagine, Deliver** and **Run** the businesses of the future through the power of **Cloud**. We have deep Cloud architecture, engineering, operational, commercial, and business transformation expertise delivered by a team of more than 26,000 Cloud Practitioners globally. We have delivered over 2,000 cloud implementations over the past 5 years and have 60+ cloud centres of excellence supporting the delivery of cloud services to our clients.

In the UK, we have a team of over 100 Cloud managed service specialists plus the following certifications across AWS, Microsoft Azure, Google Cloud and Oracle Cloud Infrastructure (OCI):



We help our clients with all aspects of their journey-to-cloud and optimisation of their cloud and cloud-services

investments. Our Cloud practice can support you to optimise your client investments, and to navigate your organisations cloud journey, providing specialist cloud architecture, engineering, and operational skills at all stages, with a large proportion of our team holding the clearances required to meet your specific security requirements.

Our AI Capability

Deloitte stands at the forefront of AI transformation and was recognised as a Leader in the 2025 IDC MarketScape for Artificial Intelligence (AI) services for the fourth consecutive time. Supported by a £3 billion investment in AI, Data, Automation, Cloud, and Cyber, we seamlessly integrate our deep AI expertise with our extensive cloud capabilities. Our UK team is part of 339K AI-fluent practitioners globally, and includes over 1,300 AI specialists and engineers, many of whom hold the necessary security clearances for public sector delivery.

Through the Deloitte AI Institute, our hub for cutting-edge research and innovation, and strategic alliances with leading hyperscalers, we empower public sector clients to optimise costs, streamline processes, and navigate their AI journey. We achieve this by leveraging our ReadyAI™ models, which provide end-to-end support for AI solution implementation, and our Trustworthy AI™ framework, ensuring responsible and ethical deployment.

Our alliances & ecosystems

To bring full value to our clients, Deloitte is a premier consulting partner with all the leading hyper-scale cloud

vendors in the market including AWS, Google, Microsoft¹ and SAP. A selection of our partners and alliances are presented below:



What the analysts say

Don't just take our word for it. Deloitte is recognised by the analyst community as being **leaders in cloud transformation services**. This reflects the wealth of experience we have in delivering cloud services across the public sector and wider private sector combined with our out-of-the-box templates, tools and assets.

Gartner

Originating in 2021, Deloitte has been recognised as a Leader in this category for four years in a row. Deloitte was also positioned as a Leader in the **Gartner Magic Quadrant for Public Cloud Infrastructure Professional and Managed Services, Worldwide** in 2021, 2020 and 2019, the previous form of this category.

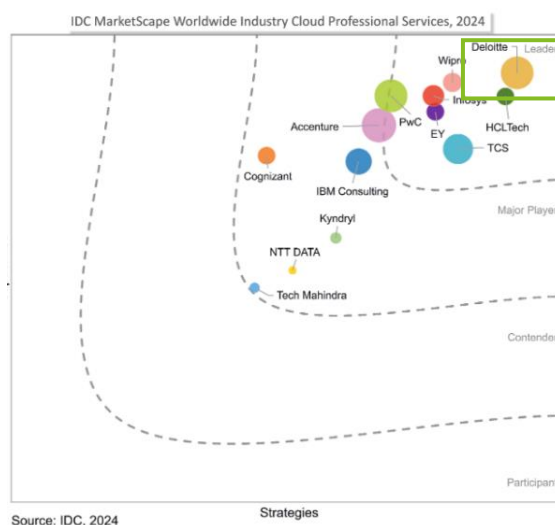


Gartner

Gartner: Magic Quadrant for Public Cloud IT Transformation Services. © Gartner inc. 2025

IDC

Deloitte has been awarded Leader status in the **IDC MarketScape: Worldwide Industry Cloud Professional Services 2024** Vendor Assessment. We have also been recognised as Leaders in **Hybrid IT Consulting & Integration Services** and **Software Engineering Services**.



Source: IDC, 2024

IDC MarketScape: Worldwide Industry Cloud Professional Services Vendor Assessment © IDC inc. 2024

Cloud Transformation

Transform Faster, Transform Smarter

Deloitte's Cloud Transformation can fast-forward your journey to the Cloud, unlocking innovation, efficiency, and growth.

[Find out more here](#)

¹ As Microsoft's Independent Auditor, Deloitte cannot have a direct or material indirect business relationship with Microsoft, such as having an alliance or being a registered partner. Nonetheless, Deloitte can provide Microsoft-related technology services and invests heavily across its global business building technical skills and capabilities to develop world-class consulting and solution delivery capabilities.

2 Service Overview

What is Composable Sustainability Architecture?

Composable Sustainability Architecture (CSA) is an AI service to accelerate strategic advisory, designed to help public sector organisations bridge the critical gap between their sustainability ambitions and the technology and data required to execute them, with AI used to accelerate Architecture Strategy ROI from months to weeks. This service delivers clear, actionable, and future-proof technology and data architecture roadmaps, ensuring your investments in sustainability are effective, efficient, and aligned with your core objectives.

We help you move from high-level policy goals, such as Greening Government Commitments, to a defensible, data-driven plan that aligns stakeholders and de-risks your entire transformation journey.

Key Features

Our service leverages a structured, 4-level framework to ensure a holistic and coherent strategy:

- **L1 - Value:** We work with your leadership to capture and align sustainability goals, business priorities, and key use cases. We leverage our AI services to identify new opportunities and gaps, creating a clear vision for success.
- **L2 - Systems:** We map your current technology landscape and design a future-proof target state architecture. This process is accelerated through AI-assisted discovery & generation of robust architectural artifacts, leveraging our curated knowledge base of over 400 ESG and enterprise solutions to identify gaps and new opportunities.
- **L3 - Data:** We define the data models and foundations required to support your use cases and systems, ensuring your reporting is robust, auditable, and assurance-ready. This helps you understand the gap between the data you have and what you need to achieve your sustainability ambitions.
- **L4 - Infrastructure:** We analyse your underlying IT infrastructure to identify opportunities for "Green IT" enablement, helping to minimise your technology's carbon footprint and understand the key impact areas to decarbonise your IT estates.

Key Benefits

- **Sustainability Outcomes Planned through Phased Strategies:** We connect maturity and dependencies related to systems and data investment to accelerate business case development. This connects sustainability investment to the outcomes & value it will deliver.
- **Accelerated Time-to-Value:** Our AI-powered platform dramatically shortens the strategy and design phase, enabling you to move from ambition to an actionable roadmap with unmatched speed.
- **De-risked Investment:** We provide an objective, coherent, and data-driven architectural plan that prevents fragmented "point solutions" and costly technical debt, ensuring your technology investments are scalable and future-proofed.
- **Stakeholder Alignment:** Our structured methodology provides a common language that unites leaders across Sustainability, Technology, and Finance, building consensus around a single, integrated plan.
- **Holistic, Alliance-Agnostic Advice:** Our approach is focused on your organisation's outcomes. We leverage deep, cross-platform expertise to design the right architecture for your needs, regardless of your

existing technology stack, building trust and reinforcing our position as your primary transformation partner.

Who is this Service For?

This service is designed for UK public sector bodies grappling with the complexity of embedding sustainability into their operations. Our typical stakeholders include:

- **Directors of Sustainability & Climate Change:** Who need to translate ambitious policy goals into real-world impact and require reliable data to prove it.
- **Chief Digital and Information Officers (CDIOs):** Tasked with integrating new sustainability demands into the existing technology estate while minimising technical debt and managing costs.
- **Finance Directors:** Who require assurance-ready, non-financial data for regulatory disclosures and demand a clear return on investment for every technology project.
- **Chief Operating Officers (COOs):** Who need actionable insights from data to improve operational performance and drive sustainable decision-making.
- **Domain Experts** in Procurement, Supply chain, Asset management, and other relevant functions

Example Scenarios

- **A central government department needs to develop a technology roadmap to meet its Greening Government Commitments.** Our service helps them define the required data, systems, and integrations to accurately track and report on emissions, waste, and water usage.
- **A major conservation agency wants to support its nature-positive goals with a robust data strategy.** We use the CSA methodology to design a data and systems architecture that can manage diverse data types—from satellite imagery to on-site sensors—to measure biodiversity and ecosystem health.
- **A large public body is struggling with fragmented ESG data for its annual report.** Our service helps them design a target-state data architecture that breaks down silos, establishes a "single source of truth," and ensures their reporting is both efficient and auditable.

3 Detailed Service Description

Our Solution: Composable Sustainability Architecture

Public sector organisations are at an inflection point. The mandate for sustainable transformation is no longer peripheral but a central driver of long-term value, demanded by regulators, stakeholders, and the public. However, leadership teams face a consistent set of interconnected challenges: **navigating a maze of emerging regulations & disclosures**; managing a **"data deluge" from disparate systems**; and bridging the significant **"strategy-execution gap" between high-level sustainability ambitions and the tangible technology architecture** required to achieve them. Without a cohesive vision, organisations risk making fragmented, reactive technology investments, accumulating technical debt, and failing to embed sustainability into their core operational processes.

Composable Sustainability Architecture (CSA) is Deloitte's response to this challenge. It is a strategic advisory engagement that provides a structured, data-driven, and collaborative approach to designing your sustainability technology strategy. We empower your organisation to make the right investments today to meet the sustainability demands of tomorrow.

Our service is uniquely accelerated by our proprietary, **AI-enhanced digital platform and methodology**, operated by Deloitte's expert tech sustainability practitioners. The platform standardises and accelerates the delivery of your

sustainability technology strategy by leveraging a comprehensive 4-Level Architecture Framework:

- **L1 - Value:** Captures and aligns leadership around sustainability goals, business priorities, key use cases, and regulatory disclosure requirements.
- **L2 - Systems:** Maps the current-state systems architecture and designs a future-proof target state, leveraging a curated knowledge base of ESG and enterprise solutions to identify gaps and required technology.
- **L3 - Data:** Defines the internal data collection and external data vendor engagement required to support your use cases, systems, and disclosure requirements. It helps identify data gaps, sources, and ownership crucial for assurance-ready reporting.
- **L4 - Infrastructure:** Gathers data about your underlying IT infrastructure to identify opportunities for "Green IT" enablement, from estimating IT carbon footprints to recommending initiatives to improve infrastructure sustainability.

By using Generative AI & Computer Vision to scan client documents, analyse architecture diagrams, and generate draft deliverables, our practitioners can move faster and focus on higher-value strategic advisory, co-creating a robust and defensible roadmap with your team in a fraction of the time of traditional methods.

Capabilities and Proven Impact

CSA delivers alignment between sustainability outcomes, strategic goals, and the specific data and technology capabilities required to achieve them. We provide a holistic,

evidence-based approach to designing your future-state architecture and proving the business case for investment. Key capabilities delivered through our service include:

- **Achievement of Public Sector ESG Commitments through Tech:** Better management of decarbonisation transitions, bringing the public sector within planetary boundaries, mitigating adaption risks, and delivering on use cases for public good.
- **AI-Accelerated Business Case and Roadmap Generation:** We rapidly develop a tailored and defensible sustainable technology business case. By leveraging our AI capability, you can align your business and data requirements to our library of over 500 digital sustainability use cases, link them to tangible business outcomes, and establish a robust investment case to fuel your transformation.
- **Target State Architecture Design:** We move beyond high-level diagrams to design a future-proofed, scalable, and adaptable architecture that minimises technical debt. Our practitioners use the CSA platform to analyse your current architecture, identify gaps and redundancies, and design a target state that leverages existing platforms where possible while integrating necessary new solutions. This includes leveraging our Solution Compass capability to evaluate and compare leading market solutions against over 90 detailed requirements.
- **Data Foundation and Governance Design:** We help you treat your ESG data with the same rigour as financial data. Our service defines the conceptual data models,

data sources, ownership, and lineage required to enable assurance-ready reporting and drive better decision-making. This breaks down data silos and creates a foundation for a trusted, single source of truth.

Proven Impact:

- **For a leading global biopharmaceutical company**, our CSA service was used to align global sustainability, technology, and finance leaders around a single, prioritised set of use cases. We leveraged AI-assisted analysis to rapidly map their existing systems landscape and designed a target-state architecture to break down data silos. The engagement delivered three years' worth of planning and architecture in just eight weeks, producing a clear, actionable technology roadmap that secured C-suite buy-in for a multi-year transformation programme.

"CSA has the key elements of value to the business and the clear alignment between what the business wants to do, how we would deliver in the architecture space, and the understanding for somebody who is not close to the core IT concepts."

Quote from client Senior

Architect & Engagement Sponsor

- **For a major UK conservation agency, our service was used to design a robust data strategy** to support its climate and nature-positive ambitions and support their business case to raise £1B of funding over the next 10 years with improved investor confidence. We focused on defining the conceptual data model and mapping the data flows needed to generate reliable insights from

diverse sources like satellite imagery and on-site sensors. The client received a prioritised data roadmap that validated the need for specific investments in data platforms and analytics, highlighting a clear business case for these initiatives.

Our Service and Delivery Partnership

Our Composable Sustainability Architecture service is delivered as a collaborative, high-impact engagement designed to empower your organisation. We combine our expert practitioners and proprietary technology with your unique institutional knowledge to co-create a strategy that is both ambitious and achievable.

A Phased and Flexible Engagement Model

Our service is typically delivered through a phased approach that allows you to start small and scale fast, ensuring value at every stage:

- **Phase 0 (Chargeable Workshop):** A high-impact, short-duration workshop where our practitioners use the CSA platform to understand your current state, define a preliminary business case, and establish a foundation for your sustainability architecture journey.
- **Phase 1 (Technology Discovery):** A full discovery engagement where we facilitate a comprehensive analysis using the CSA tool. This deep dive delivers a detailed current- and future-state view, strategic recommendations, a vendor shortlist, and a robust implementation roadmap.
- **Phase 2/3 (CSA-infused Delivery & Implementation):** CSA used to accelerate and guide the delivery of the roadmap created in Phase 1. Examples of the kinds of

work within this phase includes vendor selection, downstream implementation, managed services engagements, and data foundations creation, ensuring the strategy we design together becomes a reality.

Delivered by a Multidisciplinary Team

This service is delivered by Deloitte's Sustainable Business Solutions team, a cross-functional group of UK-based experts. Our teams blend deep domain knowledge with cutting-edge technical skill, including:

- **Sustainability Strategists** who understand the regulatory and market landscape.
- **Enterprise and Solution Architects** who design coherent, scalable technology solutions.
- **Data Governance and AI Specialists** who ensure your data foundations are robust and intelligent.

A Partnership for Success

We believe success is a collaborative effort. To ensure the best outcomes, we require a partnership with you that includes clear executive sponsorship, access to key stakeholders across your business and technology functions, and the provision of relevant data and architectural artefacts. Our commitment is to provide **objective, alliance-agnostic advice focused entirely on your business outcomes**. We provide the accelerated analysis and the architectural blueprint; you retain full control and accountability for the final strategic decisions. This partnership approach ensures the roadmap we build together is not only technically sound but also deeply embedded within your organisation and set up for successful execution.

4 Contact Details

Please send your requirement to publicsectorbidteam@deloitte.co.uk.

Alternatively, if you wish to discuss your requirements in more detail, please send us the following information and we will be happy to contact you:

- Deloitte LLP
- Composable Sustainability Architecture
- Paul Ashkar (pashkar@deloitte.co.uk)



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