



Custom Vertex AI Agent Development Definition

G-Cloud 15

Work Smarter

Engage Personally

Stay Secure

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Who We Are

01

We are the secure arm, and public sector lead of the Qodea group, a global powerhouse that helps organisations

thrive through change



“Change will be the only constant
in the next decade”

Sir Demis Hassabis
CEO, Google DeepMind

tmc3 – A Qodea Company

tmc3 is a key part of the Qodea group, operating as its specialist cyber security arm.

This relationship combines tmc3's deep cyber security and resilience expertise with Qodea's broader cloud & data transformation capabilities, and digital & AI engineering expertise.

This enables us to deliver a wider, more integrated range of services.

Our Core Capabilities

Cloud & Data Transformation

Accelerating growth with strategic cloud migration, FinOps optimisation, and robust data architecture on Google Cloud and AWS.

- **Cloud Infrastructure:** Google Cloud and AWS Infrastructure & Engineering, Google Cloud Partner-Led Premium Support, and 24/7 Managed Services.
- **Strategic Migration:** Cloud Migration (Legacy apps, VMware, Data Warehouse) to Google Cloud (GCP, BigQuery, Gemini, Workspace).
- **Data & Optimisation:** Data Architecture and Infrastructure Design, Cloud FinOps & GreenOps (Cost Reduction/Sustainability), and BI Dashboard Development.

Digital & AI Engineering

Building the future through custom application development, intelligent AI agents, and exceptional user-centric design.

- **Custom AI & ML:** Custom Vertex AI Agent Development, Gemini Enterprise AI Agents, and Data Science/ML/AI for Healthcare.
- **Digital Product Design:** Service Design, User Experience (UX), Customer Portals, and Mobile/Web Application Design & Build.
- **Platform Development:** Frontend Engineering, Agentic Software, Knowledge Tools, and eCommerce/eLearning Platform Development.

Cyber Security & Resilience

Protecting your business with proactive managed services, expert strategy, and immediate incident response. We embed security across your entire digital footprint.

- **Managed Defense:** Managed Detection and Response (MDR/SOC) and Vulnerability Management as a Service (VMaaS).
- **Security Strategy:** Cyber Security Strategy and Transformation, Cyber Resilience, and Security in Supply Chain.
- **Trust & Compliance:** Data Protection Consultancy (One Trust, Inquiry Support), Cyber Security Frameworks, and Cyber Incident Response.

We deploy frontier technology to help our customers:

01

Work
Smarter

02

Engage
Personally

03

Stay
Secure

01

Work Smarter

We build the secure, modern, scalable infrastructure, apps and workflows that boost bottom lines.

Key Outcomes

- Increased profitability
- Scalability, reliability & Uptime
- Resilient, "secure by design" architecture
- Trusted, timely, self-serve insights & analytics
- Predictable, optimised cloud spend
- Collaborative, digital workspaces
- Carbon footprint reduction
- Reduced total cost of ownership



Enabling the UK's National Data Transformation via Google Cloud (Integrated Data Service)

Secure Data

UK

Government

National Data Transformation

Google Cloud

Challenge The ONS needed to build the Integrated Data Service (IDS) – a secure, national data platform on Google Cloud. The critical obstacle was the lack of predictable, SC-cleared technical capacity to build, maintain, and scale the complex, secure environment.

Solution We provided a dedicated, SC-cleared Google Cloud Managed Support Service (MSP) team. The solution delivered flexible Platform and Application Development engineering capacity, uniquely supporting the rapid, agile needs of the IDS Hub.

Outcome Our support ensured the IDS successfully moved through three Public Beta phases and achieved stable operation. The result is transformed analytical use of government data, enabling national policy-makers and decision-makers to make better, faster decisions affecting citizens' lives.



02

Engage Personally

We create delightful digital touch points that capture attention, convert sales, and keep customers coming back.

Key Outcomes

- Delightful, intuitive, frictionless digital experiences
- Improved customer experience & intelligence
- Conversion rate optimisation
- Revenue uplift
- Increased loyalty
- Pricing & discount optimisation
- Improved paid media performance

Google

Building immersive digital products and experiences for billions of global users.

Engage Personally

Global

Tech

Customer Platforms

Google Cloud

Challenge Google wanted to create a platform that would help people learn and adopt the digital skills they needed to find a job and grow in their career, or boost their own business.

Solution Since 2017 we've designed, built and maintained three platforms; the Digital Workshop platform, the AI for Business tool, and the Grow with Google marketing site.

Outcome The platforms host 153 courses in 53 markets and 31 languages. There are 11 million + users globally and 1 million + have seen a positive impact in the EU.



03

Stay Secure

We establish and maintain the systems that protect businesses from threats, fines, and downtime.

Key Outcomes

- Improved cyber resilience
- Proactive threat detection and response
- Threat noise reduction & prioritisation
- Data governance, trust and reportability
- Regulatory compliance

[dstl]

Secure by Design for Mission-Critical Defence Systems

Defence

Government

Assurance

Cyber Security

Secure by Design

Challenge Dstl (part of UK MOD) needed to deploy a new system onto Royal Navy warships. This highly sensitive project required expert support to implement a Secure by Design (SbD) approach, manage high operational risk, and adhere to deep MOD security policy knowledge (JSP 440/453) in a highly classified environment.

Solution A multi-disciplinary, security-cleared team was deployed for a two-phase engagement. This included detailed threat modelling, SbD policy alignment, and developing a technical roadmap. The solution focused on the rigorous implementation and testing of robustness controls, including encryption and OS hardening.

Outcome Dstl received a robustly secured system component and a compelling Security Assurance Report, providing clear evidence for accreditation support. This successful, risk-managed delivery enabled the client to securely proceed with deploying the critical naval capability.



Public Sector Focus 02

We provide the creative approaches and specialist knowledge needed to build a cyber resilient public sector and transform services from end-to-end

Core Public Sector Challenge	The Qodea's GroupMulti-Disciplinary Focus	Supporting Capabilities
Maximising Public Value and Efficiency	Delivering accessible and efficient services that secure citizen trust and deliver better value for public money.	Digital & Application Services (UX/CX, Web/App Development), Cloud & Infrastructure Engineering (Cost Reduction, Optimisation), Data, AI & Analytics (BI, Prediction Modeling).
Strategic Resilience and Compliance	Operating securely and compliantly amid global uncertainty and changing regulations. Aligning with the Government Cyber Security Strategy 2022-2030.	Cyber Security & Governance (DSPT, NCSC CAF, Supply Chain Assurance), Cloud & Infrastructure Engineering (Security, Support), Data, AI & Analytics (AI Security/Governance).
Data-Driven Policy and Service Design	Leveraging data, ML, and AI to improve citizen outcomes and policy effectiveness through innovation at scale.	Data, AI & Analytics (Custom AI, Data Science, Data Architecture), Digital & Application Services (Service Design, Knowledge Tools).

Service Definition

03

Custom Vertex AI Agent Development: Definition

Delivering Value to the Public Sector

In a landscape of "global uncertainty and changing regulations," public sector organisations require more than off-the-shelf tools; they need robust, custom-engineered AI that delivers strategic resilience and compliance.

Our custom Vertex AI Agent development enables departments to move beyond the limitations of low-code, creating autonomous workflows that transform services from end-to-end. By integrating advanced techniques like hybrid search and custom function calling, we help you build a "cyber resilient public sector" while automating complex tasks that once required heavy manual intervention.

Our solutions are explicitly aligned with the Government Service Standard and Technology Code of Practice, ensuring that every ambitious technical leap is matched by rigorous adherence to mandatory UK government standards.

Service Overview

We provide an expert AI engineering team to build the future through custom application development and intelligent AI agents. While low-code platforms have their place, complex mission-critical challenges often demand the sophisticated orchestration provided by the Vertex AI Agent Development Kit (ADK), LangChain, and LlamaIndex.

We act as an organic extension of your team, providing the specialist knowledge needed to implement advanced RAG techniques, vector databases, and multi-agent systems. Our process is "evidence-based," covering everything from initial architecture design to full LLMops pipelines. We focus on high-fidelity text rendering and user-centric design to ensure these complex agents remain intuitive and frictionless for both staff and citizens

Service Benefits and Features

04

Service

Benefits

- 01 Break Low-Code Limitations: Build complex, custom AI applications that off-the-shelf builders cannot support.
- 02 Superior Accuracy: Achieve higher-quality responses through custom RAG architectures tailored to your data.
- 03 Deep Enterprise Integration: Connect AI logic directly into your unique legacy systems and workflows.
- 04 Total Behavioral Control: Maintain full authority over AI logic and decision-making processes.
- 05 Cost Optimisation: Reduce spend through efficient prompt engineering and strategic model selection.
- 06 Production-Grade Reliability: Ensure stable operations with comprehensive monitoring and error-handling frameworks.
- 07 Reduced Operational Overhead: Enable autonomous workflows that free up significant internal staff capacity.
- 08 Access to Frontier Tech: Leverage the latest research and techniques from an expert engineering team.
- 09 Future-Proof Design: Modular and extensible codebases designed to evolve alongside emerging AI capabilities.
- 10 Documented Social Value: Partner with a group committed to Net Zero by 2030 and community skills transfer.

Service

Features

- 01 Custom Architecture Implementation: Professional deployment using the Vertex AI Agent Development Kit (ADK).
- 02 Advanced Framework Integration: Specialist development with LangChain and LlamaIndex for complex AI logic.
- 03 Multi-Agent Orchestration: Building systems with task delegation and autonomous decision-making capabilities.
- 04 Custom Function Calling: Deep integration with enterprise APIs, databases, and business systems.
- 05 Vector Database Setup: Implementation of Vertex AI Vector Search, Pinecone, or Weaviate for high-performance retrieval.
- 06 Optimised RAG Strategies: Advanced hybrid search, re-ranking, and context optimisation for superior accuracy.
- 07 Quality Assurance Frameworks: Model fine-tuning, evaluation frameworks, and rigorous hallucination reduction testing.
- 08 LLMOps & Observability: Production pipelines for versioning, monitoring, cost tracking, and performance tuning.
- 09 Enterprise-Grade Security: Robust data governance, PII handling, and audit logging to maintain citizen trust.
- 10 Full-Stack Scaling: Production deployment and continuous improvement services on enterprise-grade infrastructure.

Qualifications and Certifications

05

Qualifications and Certifications



Note on the ERS Gold Award: The Gold Award under the Armed Forces Covenant Employer Recognition Scheme (ERS) is held by tmc3.

Our Google Experience: Accreditations and Certifications

Data modernisation



Generative AI
Modern data platform
Data analytics & Machine learning

Cloud training



Google Cloud and AWS
Training – for engineers by
engineers.

Cloud security



Chronicle and Mandiant
Consulting
Managed security services

Google Workspace



Migration and deployment
Complex change management
Insights as a service
Training and Managed Services

Infrastructure modernisation



VM migration
High performance
Compute

Managed services



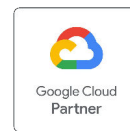
Value-Add operational
Services

Cloud foundations



Cloud centre of excellence
Secure Landing Zones
Cloud Assure/Finops

Application modernisation



App modernisation
Apigee
Anthos

Our Customers

06

Entrusted by Government
to Deliver Compliant,
Citizen-Centric Change,
and Solve Complex
Challenges

[dstl]



nationalgrid



The world's biggest brands
trust us with their biggest
problems



Why They Keep Coming Back

07

Partnership Focus

01

People Centric

We embed with your team, acting as an organic extension. Your success is our sole measure of achievement.

02

In Your Language

We translate technical complexity into clear business terms, ensuring alignment and informed decision-making across all levels.

03

Laser-Focused

Every solution is custom-designed based on your unique context, needs, and strategic objectives. No 'one-size-fits-all' templates.

Drive and Excellence

01

Relentless Drive

We challenge the status quo and push boundaries, ensuring the best possible, highest-value outcomes are achieved, every time.

02

Adaptive Expertise

Our consultants maintain an unwavering commitment to continuous learning, keeping you at the forefront of emerging technologies and best practices.

03

Total Accountability

We own our decisions and commitments. The buck stops with Qodea – we deliver on our promises, and we learn from every experience.

Outcomes at pace

We fill the void between niche boutiques and bloated GSIs.

We're agile experts with the scale to deliver full-stack solutions on enterprise-grade infrastructure.

We're called in when competitors say it's impossible, or have already failed.

We ship tangible outcomes into production, fast.



Social Value

08

Environment

The Qodea Group is deeply committed to achieving Net Zero emissions by 2030 , well ahead of the UK Government's 2050 target. Since our 2022 baseline , we have achieved a reduction equivalent to 51% of our total emissions (487.7 tCO₂e reduction). Our Carbon Reduction Plan is completed in accordance with PPN 06/21 guidance and has been formally reviewed and signed off by a Director. Our commitment is integrated into our strategic plans to deliver long-term, verifiable sustainability.

Wellbeing

As a modern business, which operates in complex environments, we know the importance of health and wellbeing. We provide an Employee assistance Programme including access to an online platform and 24hr confidential helpline. This provides counselling support and a library of wellbeing information, ensuring all staff have practical support for all aspects of physical and mental wellbeing.

Economic Inequality

Qodea is committed to addressing economic inequality through community support and skills transfer. Our employees are entitled to paid time off to engage in volunteering activities, supporting both company-endorsed initiatives and charities of their personal choosing. This flexibility ensures maximum social impact while being managed via robust internal governance to maintain service delivery standards.