



G-Cloud 15 Service Definitions

Discrete Event Simulation



Introduction to Squarcle

Squarcle is a digitally native supply chain consultancy, dedicated to driving transformative results for our clients. As a leader in the field, we leverage cutting-edge data science and digital solutions to optimise supply chain operations and propel businesses towards success. At Squarcle, we believe that every challenge holds an opportunity for transformation.

With a strong focus on digital innovation, data science, and collaborative problem-solving, we drive success by designing and executing tailored strategies that optimise supply chain efficiency, enhance operational performance, and fuel sustainable growth.

Supported by data science and a suite of agentic AI tools, we bring a differentiated approach, harnessing innovation and insights to enhance operational performance and outcomes. Underpinned by deep supply chain experience, our unique blend of military, industrial, and consulting expertise enables us to work in partnership to understand our clients' unique needs, navigate complexities, and co-create innovative solutions to drive tangible and lasting results.

Why Squarcle?

Deep Specialist Insight

With decades of military and industry knowledge; our approach is based on firsthand delivery experience



Supply Chain DNA

We possess deep procurement and supply chain expertise, aligned to SCOR and tailored to complex environments



Data & AI at our core

We have focused on leveraging the power of data since day one, driving insight to deliver sustainable impact



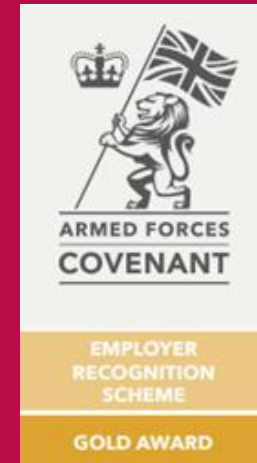
Independence

We are founder led, unencumbered by external constraints, enabling us to work without restriction



Delivery Focused

We are collaborative implementation partners, delivering impact and sustainability for clients



Discrete Event Simulation

Service description

Modelling and simulating complex systems and processes with discrete event methodologies. Through advanced simulation techniques, our platform empowers organisations to optimise workflows, identify bottlenecks, and enhance operational efficiency. Accuracy and flexibility enables businesses to experiment with various “what-if” scenarios and make informed business decisions to achieve their objectives.



Service Features and Benefits

Service features

- Suite of tools for modelling discrete and complex events
- AI enabled workflow optimisation
- "What-If" analysis to simulate multiple operational scenarios
- Confidence figure calculations of simulated results for Business Cases.
- Identification of bottlenecks for proactive problem solving
- Reliable and predictable forecasting for decision making and strategic planning
- Assessment of impact before implementation

Service benefits

- Enhanced cost and demand forecasting
- Manage and mitigate risks through variable outcome analysis
- Evidence based and data informed decision making
- Test multiple scenarios simultaneously with a sole data model
- Identification of System Bottlenecks
- Accurate Capacity Planning and Forecasting



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