Skyral

Pricing Document: Skyral Decision Support and Problem Solving as a Service for Defence and government

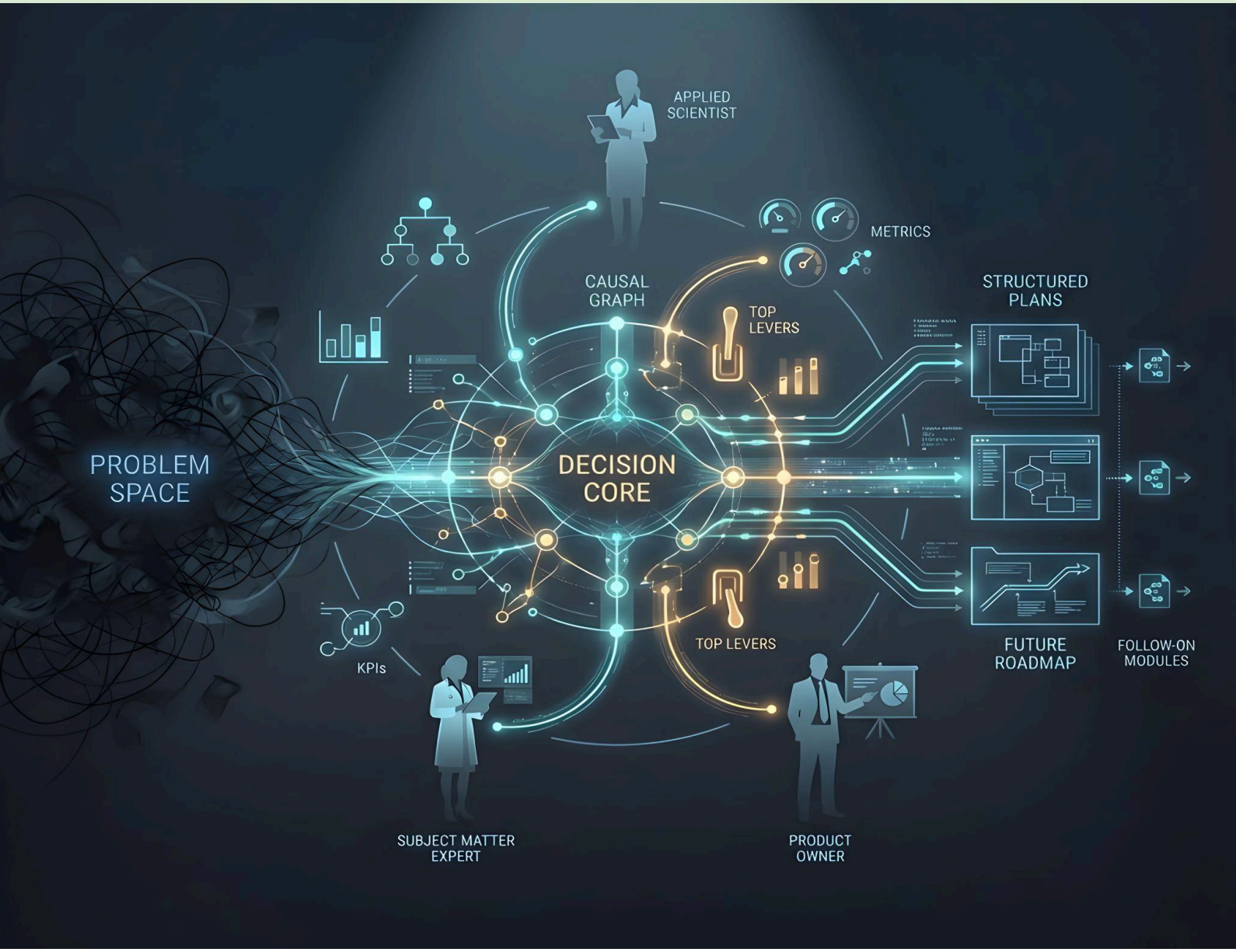
Service Name: Skyral Decision Support and Problem Solving as a Service for Defence and government
Supplier Name: Skyral Defence Ltd
Framework and Lot: G-Cloud 15, Lot 3

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1. About Skyral

Skyral is a UK-headquartered modelling, simulation and decision-support company specialising in defence and government. Originating from a defence division that has supported UK MOD, NATO and international partners, Skyral combines large-scale synthetic environments with deep operational expertise across multi-domain operations, CNI protection, information manoeuvre and resilience.

Defence and government customers use Skyral to:

- Build and exploit synthetic environments for operational decision support, mission planning, wargaming and training.
- Accelerate planning cycles and expose second- and third-order effects before committing real forces, platforms and budgets.
- Connect operational data, doctrine and human terrain modelling to reveal the few critical levers that matter in complex theatres.

Skyral CORE and products such as MPDS, Digital Twin and supporting LVC Training provide the underlying capability to build, run and govern large-scale simulations as a long-lived, sovereign UK decision-support asset for defence and government. Skyral routinely operates in environments up to SECRET and supports programmes that require UK government vetting, with teams that include personnel holding SC and DV clearances where required by the customer and contract.

2. Service Overview

Service name

Skyral Decision Support and Problem Solving as a Service

Purpose

This is an intensive, typically one-month engagement that helps defence and government organisations clarify complex strategic or operational problems, identify and prioritise the key levers, and define how modelling, simulation and digital twins should be applied to support decisions and operations.

The service is designed to:

- Turn an ill-defined mission or capability problem into a structured, decision-ready view.
- Produce a prioritised set of missions, use cases and levers to focus limited capacity on.



- Define a clear follow-on path into Skyral Modelling and Simulation Development as a Service and wider synthetic environment or digital-twin programmes.

The service is delivered at fixed scope and cost, using a Skyral methodology evolved from the Simulation Scaffolding Framework (SSF), updated as a modern decision-support and experimentation approach aligned with planning and concept-of-operations thinking.

Typical duration and team

A standard engagement is one month of effort, delivered by:

- A defence / government Subject Matter Expert (SME) with hands-on operational or capability experience.
- An Applied Scientist specialising in modelling, simulation and analytics.
- A Product Owner responsible for mapping outcomes to Skyral services, products and existing synthetic-environment estates.

Where projects require access to classified environments or assets, Skyral can staff engagements with appropriately vetted personnel, including team members holding SC and DV clearances in line with UK government vetting requirements. Longer or multi-phase engagements can be scoped for more complex portfolios or multi-stakeholder missions.

3. Method and Activities

The service follows a structured method that blends operational expertise, causal and probabilistic modelling, and early synthetic-environment thinking.

Core steps

1. **Clarify the mission problem and effects**
    - Establish a shared understanding of the strategic or operational problem (e.g. theatre-level campaign, CNI resilience, force design question, intelligence or influence campaign).
    - Capture desired effects, constraints, doctrine, rules of engagement and success criteria (e.g. mission outcomes, risk, survivability, tempo, cost, political constraints).
2. **Map drivers, levers and lines of operation**
    - Disaggregate the problem using logic trees and operational-level causal structures.

- Identify critical levers such as force posture, basing, logistics, information activities, C2 constructs, readiness levels and capability choices.
- Map how these levers interact across domains, services, coalition structures and the wider information and civilian environment.

3. **Define and refine indicators and measures**
   - Identify operational and strategic KPIs and measures of effectiveness/suitability mapped directly to key levers and mission objectives.
   - Define how trade-offs will be assessed (e.g. risk vs tempo, survivability vs coverage, cost vs resilience, political risk vs operational effect).
4. **Prioritise problems, missions and levers**
   - Apply heuristics, cleaving maps and quantitative reasoning to rank mission threads, use cases and levers by operational impact, feasibility, time-sensitivity and risk.
   - Highlight the "top few" questions that are most suitable for synthetic experimentation and digital-twin development, rather than trying to model everything at once.
5. **Develop a practical work plan**
   - Convert the prioritised problems and levers into a concrete work plan that can be taken forward into Skyral Modelling and Simulation Development as a Service or other delivery programmes.
   - Define data needs (e.g. ORBATs, CNI datasets, ISR feeds), stakeholders, security constraints, integration points (C2, ISR, training systems) and decision checkpoints.
6. **Introduce modelling, simulation and AI options**
   - Show how modelling, simulation and digital twins can be applied to the top-ranked problems, including agent-based models of forces, population and adversaries, and theatre-level digital twins.
   - Discuss how explainable ABM, scenario experimentation and AI-enabled workflows can support mission planning, CoA analysis, wargaming and AI-in-the-loop testing, while avoiding "black box" decision logic.
7. **Build a high-level mission decision model**
   - Construct a high-level probabilistic or causal representation of the mission or capability problem—a "strategic scaffold" that can:
     - Capture key levers, dependencies and uncertainties across domains.
     - Support simple qualitative and semi-quantitative scenario exploration in the short term.
     - Act as a blueprint for a richer synthetic environment or strategic digital twin in follow-on work.

Service Outputs

At the end of the engagement, the customer receives:

- **Mission decision narrative**
  - A clear articulation of the mission or capability problem, context, constraints and desired effects.
  - A visual representation of key drivers, levers and dependencies across domains, including forces, logistics, CNI, population, information environment and adversary actions.
- **Prioritised missions, use cases and levers**
  - A ranked list of mission problems, use cases or capability questions with rationale and key assumptions.
  - Identification of the primary mission thread or lever (or small set) that offers the best value for synthetic experimentation and digital-twin work.
- **Indicators, measures and KPI framework**
  - Defined KPIs, Measures of Performance and Measures of Effect mapped directly to the key levers and mission outcomes.
  - Commentary on how these indicators will be tracked and used to assess CoAs and campaign performance in future simulations and live operations.
- **High-level mission decision model**
  - A high-level probabilistic or causal model of the mission problem, suitable as a scaffold for further modelling, briefing senior decision-makers and aligning joint / combined stakeholders.
- **Follow-on delivery plan**
  - A concise plan for progressing into Skyral Modelling and Simulation Development as a Service or other delivery programmes, including recommended focus areas, dependencies and phasing.
  - Options for building ABM-driven theatre digital twins, integrating with existing C2/ISR and training systems, and running structured scenario experiments.

Outputs can be delivered in classified or unclassified environments as required, using appropriately cleared Skyral personnel (including SC and DV where needed) in line with customer security policies.

4. Pricing

Skyral Modelling and Simulation Development as a Service is provided as a fixed price service, deployed in 3 or 6 months of Sprints.

Price: £**60,000 (Sixty thousand pounds)**

Standard Rate Card

Standardised programme specifications can be tailored to an engagement with changes in pricing on time and materials basis. The SFIA rate card excludes rates for onsite development or DV cleared personnel. We are able to deploy the delivery team to any working location as required depending on the nature of work to be undertaken, rates for this can be detailed if requested based on the scale and duration of the services in question.

SFIA Level	Strategy & Architecture	Change & Transformation	Development & Implementation	Delivery & Operation	People & Skills	Relationships & Engagement
2. Assist	£949.09	£949.09	£949.09	£949.09	£949.09	£949.09
3. Apply	£1,120.00	£1,120.00	£1,120.00	£1,120.00	£1,120.00	£1,120.00
4. Enable	£1,565.41	£1,500.14	£1,434.87	£1,500.14	£1,304.33	£1,304.33
5. Ensure, Advise	£1,683.11	£1,612.49	£1,534.87	£1,683.11	£1,402.77	£1,402.77
6. Initiate, Influence	£1,926.00	£1,833.98	£1,833.98	£1,833.98	£1,833.98	£1,833.98
7. Set Strategy, Inspire	£2,378.61	£2,266.26	£2,266.26	£2,266.26	£2,266.26	£2,266.26
Consultant's working day: 7.5 hours exclusive of travel and lunch.						
Working week: Monday to Friday excluding national holidays.						
Office hours: 09:00 – 17:00 Monday to Friday.						
Travel/mileage subsistence: Included in day rate within M25. Payable at department's standard travel and subsistence rates outside M25.						
Professional indemnity insurance: Included in day rate.						

5. Pricing model and units (linking to framework pricing rules)

The pricing model for this service is a fixed-scope, time-boxed engagement, with options to extend into further phases through follow-on engagements (such as Skyral Synthetic Development Services).

Core structure:

- Core one-month engagement priced as a fixed-price package based on defined deliverables (decision narrative, prioritised initiatives, KPI framework, high-level model, roadmap) and agreed stakeholder footprint.
- Extensions or additional phases (e.g. extra domain deep-dives, expanded stakeholder scope, additional scenario families) priced either as additional fixed-price work packages or time-and-materials under the relevant framework rate card.
- Any subsequent Skyral Modelling and Simulation Development as a Service or digital-twin deployment would be priced separately, reflecting model build effort, platform usage and, where relevant, managed-service components.



- Exact pricing, units (e.g. person-days, work packages) and linkage to framework pricing rules are defined in the commercial schedule.

6. Key assumptions and exclusions

Key assumptions:

- The customer provides timely access to stakeholders, environments and data at appropriate classification levels to meet the agreed timeline and deliverables.
- The primary objective is mission-level decision-support, strategy and prioritisation, not full production implementation or day-to-day operation of command systems or training platforms.
- Initial models and scenarios are intended to compare options, highlight trade-offs and stress-test missions, not to deliver exact predictions at every tactical echelon or platform level.

Key exclusions (unless explicitly added to scope):

- Full-scale, production-grade operational digital-twin or synthetic-environment implementation and ongoing integration with live C2, ISR or training systems, which are handled by subsequent Skyral Modelling and Simulation Development as a Service and platform/product deployments.
- Detailed vendor-specific configuration of command, simulation or training systems, low-level software engineering tasks, or direct changes to live operations. Unverified.
- 24×7 operational support, incident management and availability SLAs typical of managed operational platforms. Unverified.
- Formal operational test and evaluation (OT&E), safety cases or certification; Skyral's outputs can inform these but do not replace formal assurance, test or certification processes.

7. Related services and optional add-ons

Related Skyral services:

- Skyral Modelling and Simulation Development as a Service (Defence and government) – builds detailed mission and theatre-level synthetic environments and digital twins aligned to the prioritised mission threads, levers and scenarios from this engagement.
- Skyral Modelling and Simulation Development as a Service (Health) – builds detailed health-system digital twins and agent-based models aligned to the



prioritised levers and scenarios from this engagement, enabling ongoing "what-if" analysis, optimisation and operational decision-support.

- Skyral Modelling and Simulation Development as a Service (Mobility & Infrastructure) – builds detailed digital twins and agent-based models of cities, corridors, ports, airports, logistics networks and interdependent infrastructures, aligned to the prioritised levers and scenarios from this engagement.
- Skyral Modelling and Simulation Development as a Service (Network Edition): builds detailed network digital twins and agent-based models aligned to the prioritised levers and scenarios identified in this engagement.
- Mission Planning & Decision Support services for defence and government, using large-scale agent-based modelling to explore courses of action, logistics and resilience across multi-domain operations.
- Health Policy & Programme Strategy simulation services, applying similar techniques to patient flows, resource allocation and intervention strategies for health systems.

Optional add-ons to this specific service:

- Additional deep-dive modules on specific mission sets or domains (e.g. ASW task groups, integrated air and missile defence, information manoeuvre, CNI protection, logistics and sustainment), delivered as extended discovery or Synthetics Development phases depending on need.
- Rapid proof-of-concept synthetic environments or digital-twin instances (e.g. for a specific theatre, operation or capability question) using existing data and synthetic agents to demonstrate interactive scenario analysis and experimentation beyond the initial decision narrative, delivered via Skyral CORE and Modelling and Simulation Development as a Service..
- Extended roadmap, business-case and experimentation-campaign support, including structured inputs to investment cases, capability roadmaps and experimentation plans for defence / government governance.

8. Contact, account management and reporting

- E. enquiries@skyral.io
- W. www.skyral.io