Pricing Document: Skyral Decision Support and Problem Solving as a Service for Mobility & Infrastructure

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

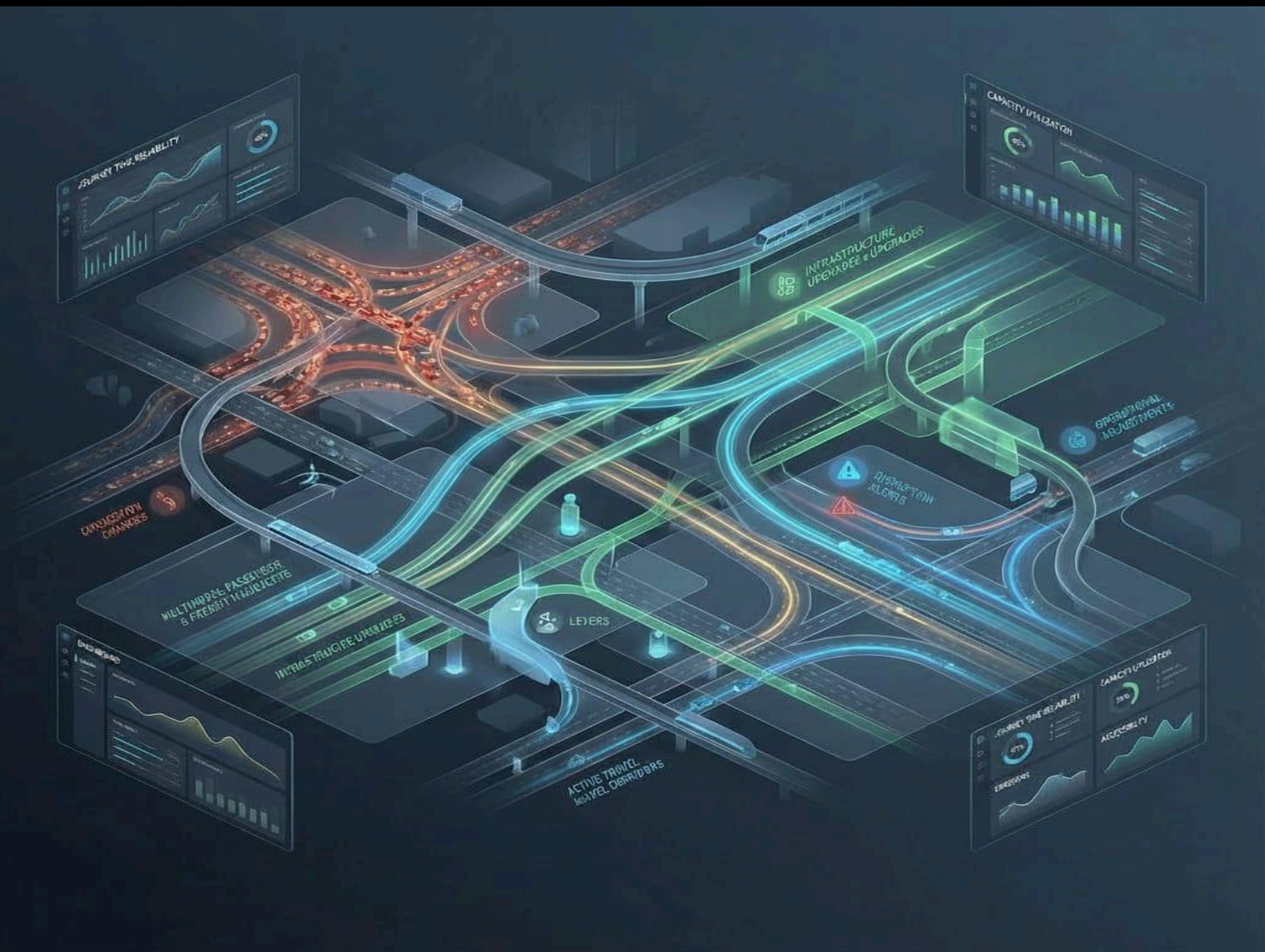
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1. About Skyral

Skyral is a UK-headquartered modelling, simulation and decision-support company that helps governments, defence, city authorities and operators design, optimise and protect complex mobility and infrastructure systems. Using large-scale digital twins and agent-based modelling, Skyral represents how people, vehicles, freight, assets and infrastructure interact across road, rail, air, maritime and utility networks.

Customers use Skyral to:

- Test and optimise transport, logistics and infrastructure strategies before committing to investment or operational change.
- Reveal bottlenecks, resilience gaps and interdependencies across national and regional networks, including energy, telecoms and transport.
- Connect data, models and visualisations to expose the few critical levers—capacity, routes, assets, maintenance, demand management—that most affect performance, resilience and cost.

Skyral CORE and its components provide the underlying capability to build, run and govern complex, simulation-driven digital twins of networks and infrastructure as long-lived decision-support capabilities.

2. Service Overview

Service name

Skyral Decision Support and Problem Solving as a Service – Mobility and Infrastructure

Purpose

Skyral Decision Support and Problem Solving as a Service for Mobility and Infrastructure delivers focused, accelerated insight into complex challenges across transport logistics, infrastructure planning and operational resilience. Leveraging advanced causal and probabilistic modelling, digital twins and multi-domain decision support, this service empowers defence, government and infrastructure organisations to prioritise critical initiatives that enhance the robustness and adaptability of national and regional networks in dynamic environments.

It is designed to:

- Turn high-level concerns about congestion, resilience, bottlenecks or investment risk into a structured, decision-ready view.



- Produce a prioritised set of initiatives and levers to focus limited planning and capital on.
- Define a clear follow-on path into Skyral Modelling and Simulation Development as a Service or broader digital-twin programmes for mobility and infrastructure.

The service runs as a fixed-term, expert-led engagement grounded in Skyral's Simulation Scaffold Framework, adapted for transport, logistics and infrastructure contexts.

Typical duration and team

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

- A mobility / infrastructure Subject Matter Expert (SME) with experience in transport planning, logistics or infrastructure strategy.
- An Applied Scientist specialising in modelling, simulation and analytics.
- A Product Owner responsible for mapping outcomes into Skyral services, products and the customer's data and system landscape.

Longer or multi-phase engagements can be scoped for national-scale portfolios or multi-agency programmes.

3. Method and Activities

The service focuses on strategic uncertainties in mobility and infrastructure—such as supply-chain disruption, infrastructure interdependencies or operational resilience—where better predictive insight and scenario analysis would materially improve outcomes.

Core steps

1. **Clarify the mobility and infrastructure problem**
    - Establish a shared understanding of the core challenge (e.g. corridor congestion, port or hub resilience, multimodal connectivity, migration to new infrastructure, climate and disruption risk).
    - Capture desired outcomes and constraints: throughput, reliability, safety, resilience, cost, emissions, political and regulatory conditions.
2. **Map networks, interdependencies and levers**
    - Disaggregate the problem using logic trees and causal structures spanning transport modes, logistics chains, critical infrastructure and demand patterns.
    - Identify key levers such as route structures, hub and node locations, service frequencies, maintenance strategies, redundancy levels, priority rules, and contingency arrangements.



- Map interdependencies between transport, energy, telecoms and other infrastructure, including cross-border and multi-agency links where relevant.

3. **Define and refine KPIs and metrics**
    - Identify KPIs and metrics directly linked to key levers and objectives (e.g. journey time, reliability, on-time performance, throughput, capacity utilisation, resilience indices, emissions, operating cost).
    - Clarify how trade-offs will be judged (e.g. reliability vs cost, throughput vs emissions, redundancy vs capital, national resilience vs local convenience).
4. **Develop causal and probabilistic models**
    - Collaborating with key stakeholders, Skyral SMEs and applied scientists develop high-level causal and probabilistic models that map complex interdependencies across transport and logistics networks.
    - Represent how disruptions (e.g. asset failures, weather, strikes, regulatory changes, security events) propagate across modes and infrastructure, and how interventions might mitigate these effects.
5. **Prioritise initiatives and levers**
    - Apply advanced heuristics, cleaving maps and quantitative reasoning to rank initiatives and levers by impact, feasibility, risk, dependencies and time-to-value.
    - Use digital-twin concepts and early scenario analysis to test the relative value of different options and focus effort on those that most improve resilience, performance and cost-effectiveness.
6. **Develop a practical work plan**
    - Convert the prioritised initiatives into a concrete work plan that can guide infrastructure programmes, transport strategies or operational optimisation work.
    - Define data needs (e.g. traffic flows, timetables, origin–destination data, asset registers, maintenance history, PMO plans), stakeholders, integration points and decision checkpoints.
7. **Frame follow-on digital-twin and simulation work**
    - Define how a mobility or infrastructure digital twin should be scoped and built in follow-on phases, including key scenarios, experiments and decision-support use cases.
    - Outline how Skyral’s synthetic environments can support ongoing planning, “what-if” analysis, operational decision support and continuous optimisation.

Service Outputs

At the end of the engagement, the customer receives:

- **Network and infrastructure decision narrative**



    - A clear articulation of the mobility or infrastructure problem, context, constraints and desired outcomes.
    - A visual representation of key drivers, interdependencies and levers across transport networks, logistics chains and critical infrastructure.
- **Prioritised initiatives and levers**
    - A ranked list of interventions (e.g. network redesign options, hub investments, redundancy measures, timetable changes, maintenance strategies) with rationale and key assumptions.
    - Identification of the top initiatives and levers best suited for simulation and digital-twin development.
- **KPI and measurement framework**
    - Defined KPIs and metrics mapped directly to the prioritised levers and initiatives.
    - Commentary on how these indicators should be tracked and used in future scenario analysis and governance.
- **High-level causal / probabilistic model**
    - A high-level causal and probabilistic model of the mobility and infrastructure system, suitable as a scaffold for more detailed simulation and for engaging decision-makers.
- **Strategic roadmap and action plan**
    - A strategic roadmap and actionable plan that guides follow-on synthetic environment development, digital-twin build-out and integration with existing decision-support tools.

Outputs are delivered in accessible formats (e.g. slide pack, report and—where appropriate - simple interactive views) that can be used directly within infrastructure, transport and resilience governance forums.

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 can provide timely access to relevant stakeholders and data to meet the one-month engagement timeframe.



- The primary goal is decision-support, strategy and prioritisation across mobility and infrastructure, rather than full production implementation or detailed engineering design of assets and control systems.
- Initial models and scenarios are used to compare options and highlight risks/trade-offs rather than to produce exact, line-rate predictions for every element of the network.

Key exclusions (unless explicitly added to scope):

- Full-scale, production-grade digital-twin implementation and ongoing integration with live operational systems (e.g. traffic management systems, railway control, port terminal operating systems), which are covered by subsequent Skyral Modelling and Simulation Development as a Service and platform services
- Detailed vendor-specific configuration generation, low-level design artefacts or direct changes to production networks. Unverified.
- Formal regulatory submissions or safety cases; Skyral's outputs can inform such work but do not replace formal assurance processes.

7. Related services and optional add-ons

Related Skyral services:

- 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 national security, 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 mobility or infrastructure domains (e.g. a single major corridor, port cluster, airport system, urban mass-transit network, or a specific supply chain), delivered either as extended discovery within this service or as Skyral Advisory/Modelling and Simulation Development phases depending on need.

- Rapid proof-of-concept digital-twin instances (for example, for a single city, corridor or logistics chain) using existing designs and synthetic or fused data to demonstrate interactive scenario analysis beyond the initial decision narrative, delivered via Skyral CORE and Modelling and Simulation Development as a Service.
- Extended roadmap and business-case support, including structured inputs for investment programmes, funding bids and regulatory or policy submissions (for example, transport strategies, resilience plans or infrastructure business cases)

8. Contact, account management and reporting

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