Skyral

Pricing Document: Skyral Modelling and Simulation Development as a Service for Mobility and Infrastructure

Service Name: Skyral Modelling and Simulation Development as a Service for Mobility and Infrastructure
Supplier Name: Skyral Defence Ltd
Framework and Lot: G-Cloud 15, Lot 2b

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1. Introduction to Skyral

Skyral is a UK modelling, simulation and digital twin company that originated from Improbable, a technology “unicorn” known for large-scale virtual worlds and metaverse platforms. In June 2023, Skyral was spun out as a focused, sovereign business to apply this large-scale simulation capability to complex real-world systems including urban mobility, national transport corridors and critical infrastructure.

Skyral’s platforms and services are engineered to operate securely across cloud, enterprise and sovereign environments, with Secure by Design and DevSecOps practices and architectures that integrate with existing systems such as TMS, WMS, traffic management, SCADA, asset management, telematics, and network-management platforms. Delivery is underpinned by robust security controls, ISO-aligned governance and interoperable data pipelines that respect safety, regulatory, commercial and data-protection requirements across road, rail, air, maritime and critical national infrastructure.

2. Service Overview

Description and purpose

Skyral Synthetics Development as a Service (Mobility and Infrastructure Edition) is a 3- or 6-month fixed-term engagement that rapidly stands up or extends trusted synthetic environments, models and digital twins on top of Skyral CORE for mobility, transport and infrastructure customers. The service turns planning and operational questions into validated digital twins that can be reused for corridor and network design, service and timetable planning, infrastructure evaluation, resilience testing and continuous optimisation—rather than one-off pilots or slideware.

The engagement combines secure engineering, domain-aware modelling and data integration to deliver credible, explainable simulations that support high-stakes operational, investment and policy decisions. It is typically delivered as a follow-on to Skyral’s Decision Support and Problem Solving as a Service discovery phase, which defines problems, decision levers (e.g. network topology, service design, hub footprint, capacity, maintenance and resilience measures) and success metrics; it can also operate as a standalone build phase where these are already understood. Throughout, the service is delivered using Secure by Design principles, rigorous data-handling processes and deployment patterns suitable for regulated transport, mobility and infrastructure environments.

3. Method and Activities

This service enables the rapid definition, creation and prioritisation of strategic levers essential for solving mobility and infrastructure problems, and the development of Skyral CORE-based solutions aligned to customer needs.

It builds on **Skyral CORE**, an ecosystem of tooling that transforms how next-generation modelling and simulation solutions are engineered and sustained. CORE is a suite of tools, technologies and APIs used by Skyral engineers that forms the foundation for building, running and analysing complex synthetic environments, enabling rapid delivery and operational support of mobility and infrastructure digital twins.

CORE encapsulates accumulated knowledge from tackling large-scale network and agent-based modelling challenges, including multi-million-agent simulations of people, vehicles, freight, hubs, infrastructure assets and control systems. Its uniform approach delivers insights quickly, ensures a consistent user experience and significantly reduces long-term operational costs through common tooling, APIs and reusable components.

Skyral embeds a **secure-by-design** philosophy across CORE and products, using DevSecOps, automated testing and governance to ensure reliability and security are engineered from the outset. Skyral's modular, cloud-native architecture and iterative delivery model enable agile implementation—reusing proven components, integrating rapidly with existing environments, and iterating with stakeholders so new capabilities can be fielded in weeks.

Service Outputs

Service outputs are customer-driven and agreed at the outset of the engagement, then refined through delivery to ensure they remain aligned to priority questions and constraints.

Typical outputs (tailored per engagement) could include:

- A configured synthetic environment and associated models, implemented on Skyral CORE to represent the agreed system of interest (e.g. missions, organisations, networks, assets, populations, processes) at the required level of fidelity.
- A set of validated configurations and scenarios reflecting the agreed use cases, with documented assumptions, limitations and—where data permits—calibration and validation evidence to support assurance and future enhancement.
- User-facing views and interfaces, plus any in-scope integrations, designed to make the synthetic environment usable by the customer's planners, analysts, trainers or decision-makers in their own workflows.



- Documentation, handover and a roadmap, proportional to the engagement, describing what has been built, how to operate and extend it, and how it can be developed or scaled further within Skyral CORE and the customer's wider programmes.

4. Roles and Responsibilities

Skyral offer this service based on 3 configurations of team size:

- **Small** - able to take on small development projects or augment existing development teams
- **Medium** - able to take on medium complexity projects and/or augment existing development teams
- **Large** - able to take on complex development activities with wider scope and/or augment existing development teams.

Large Team (complex development activities with wider scope and/or augment existing development teams)

Role	SFIA Level	Days (3-month)	Days (6-month)	Indicative activity focus
SME	5	32	63	Lead problem framing, domain assumptions, and validation of models and scenarios.
Solution Architect	5	16	32	Define overall solution architecture, integration patterns and non-functional constraints.
Modelling Engineer 1	4	63	126	Implement core model components, data structures and simulation logic.
Modelling Engineer 2	3	63	126	Build and maintain model features, parameter sets and supporting utilities.
Applied Scientist	5	63	126	Design experiments, calibration and analysis methods; interpret results with SME.
Back End Engineer	4	16	32	Develop and optimise services, APIs and back-end orchestration for the solution.
Front End Engineer	4	63	126	Build and refine user interfaces, visualisations and mission/operator views.
Production Engineer	4	16	32	Set up environments, pipelines, observability and deployment/operational tooling.
Product Owner	4	16	32	Own backlog, scope and prioritisation; align delivery with agreed outcomes.
Project Manager	4	16	32	Coordinate delivery, risks, dependencies and reporting across the engagement.

Medium Team (medium complexity development activities and/or augment existing development teams)

Role	SFIA Level	Days (3-month)	Days (6-month)	Indicative activity focus
Solution Architect	5	16	32	Define overall solution architecture, integration patterns and non-functional constraints.
Modelling Engineer 1	4	63	126	Implement core model components, data structures and simulation logic.
Modelling Engineer 2	3	63	126	Build and maintain model features, parameter sets and supporting utilities.
Applied Scientist	5	63	126	Design experiments, calibration and analysis methods; interpret results with SME.
Back End Engineer	4	16	32	Develop and optimise services, APIs and back-end orchestration for the solution.
Front End Engineer	4	63	126	Build and refine user interfaces, visualisations and mission/operator views.

Small Team (small development projects or augment existing development teams)

Role	SFIA Level	Days (3-month)	Days (6-month)	Indicative activity focus
Modelling Engineer 1	4	63	126	Implement core model components, data structures and simulation logic.
Applied Scientist	5	63	126	Design experiments, calibration and analysis methods; interpret results with SME.
Front End Engineer	4	63	126	Build and refine user interfaces, visualisations and mission/operator views.

Typical deliverables:

- Implemented models and scenarios for the agreed business and risk questions.
- Hosted environments and integrations into the customer's chosen hosting context.
- A final insights report summarising key findings, sensitivities and recommended actions or decision options.
- Where required a six-month Skyral CORE trial licence can be obtained through Skyral CORE provision.

5. Pricing

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

	6-month	Discount against SFIA Rates	**3-month**	Discount against SFIA Rates
Large Project	£750,000.00	32.31%	£400,000.00	27.90%
Medium	£650,000.00	23.68%	£330,000.00	22.50%
Small	£450,000.00	22.50%	£225,000.00	23.68%

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.						

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

Pricing reflects a fixed-term agile delivery engagement with a defined team mix and timeframe, aligned to framework rules.

- Core 3- or 6-month engagements are priced as fixed-scope work packages based on agreed outcomes, team composition and cadence.

- Additional phases or scope extensions (e.g. extra features, integrations, domains or environments) are handled through agreed change processes and may be priced as further fixed-price packages or time-and-materials under the relevant rate card.

- Any ongoing platform hosting, managed service or extended support is priced and contracted separately from this development engagement.

7. Related services and optional add-ons

These agile build services sit alongside other Skyral offerings that can be combined as needed across defence, healthcare, mobility and infrastructure, and business optimisation.

Typical related services:

- Problem Solving / Decision Support as a Service – upstream discovery and framing to define levers, metrics and scope for Synthetics Development phases.
- Domain-specific Modelling and Simulation Development or digital-twin programmes (e.g. defence and national security, health, mobility and infrastructure, networks, business optimisation) that extend or industrialise the capabilities created in this engagement.

Optional add-ons:

- Additional deep-dive modules, extra integrations or extended experimentation/analysis packages delivered as further agile phases.
- Transition and managed-service options for long-term hosting, operation, enhancement and support of Skyral-based capabilities.

8. Contacts

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W. www,skyral.io