

# Sovereign Multi-Agent Platform

## Defence & National Security Capabilities

### Governed Multi-Agent AI for Sovereign Defence Environments

Complete auditability · Canadian-built and hosted · Model-agnostic · PoC in weeks

**G7 GovAI Grand Challenge Winner** — Validated for responsible, production-grade AI in regulated public-sector environments.

## The Strategic Problem

**The gap is not in individual AI capability.** It is in orchestration, governance, and auditability across coordinated AI workflows — where partial failure is not acceptable and every decision must be traceable. Adversaries operate at machine speed; the defence community's response has largely been siloed point solutions that do not coordinate, share context, or execute governed multi-step workflows.

**X Point solutions**  
Siloed.

**X General-purpose LLMs**  
No guarantees. No audit trail.

**X Internal builds**  
12–18 month timelines.

## The Innervation Platform

An orchestration layer coordinating specialised AI agents on complex, multi-step problems — with **mathematical workflow guarantees** (no race conditions, no partial failures, no silent failure mode), **complete observability** (every agent decision logged live), **sovereign infrastructure** (Canada/AWS, air-gap capable, configurable data residency), and **model-agnostic architecture** — run commercial, open-source, or classified models interchangeably.

## Defence Capability Pillars

Pillar	Capabilities
<b>01 Cyber Defence &amp; Continuous Vulnerability Management</b>	<b>Coordinated white-hat agent teams at machine speed.</b> Continuous red-team operations across the full attack surface; coordinated vulnerability discovery across app, infrastructure, and supply chain; automated blue-team response validation; compliance-mapped hardening with full audit trail.
<b>02 Intelligence Analysis &amp; Document Workflow Automation</b>	<b>Multi-source synthesis and analyst augmentation.</b> Multi-source intelligence synthesis with confidence scoring; cross-reference against holdings and watchlists; structured report drafting (ACH, SWOT, Red Team); document bias and quality auditing; translation and summarisation with provenance tracking.
<b>03 Sovereign AI Infrastructure &amp; Supply Chain Governance</b>	<b>Auditability and governance for AI in regulated defence environments.</b> Unified observability across multi-vendor, multi-model environments; supply chain AI risk assessment; policy-constrained workflow execution enforced at the orchestration layer (not prompt guardrails); procurement automation under Treasury Board frameworks; configurable human-in-the-loop escalation.

## Technical Guarantees

Guarantee	Operational Meaning
<b>No race conditions</b>	Concurrency managed at the orchestration layer. Agents cannot produce conflicting outputs or corrupt shared state. Mathematical property, not a runtime check.
<b>No partial failures</b>	A workflow completes fully or fails explicitly — never a silent degraded state. Every failure surfaces with a full diagnostic trace.
<b>Guaranteed run completion</b>	Workflows terminate: successfully or with an explicit logged failure. No infinite loops, hanging processes, or orphaned agent states.
<b>Complete audit trail</b>	Every invocation, input, output, and decision logged in real time with timestamp, agent identity, model version, and full provenance. Immutable and exportable.
<b>Policy-constrained execution</b>	Operational boundaries enforced at the orchestration layer. A policy violation fails the workflow — it does not produce a non-compliant output.

## Sovereignty & Compliance Posture

Infrastructure	Governance & Compliance
<ul style="list-style-type: none"> <li>✓ Data residency configurable — stays within defined perimeter</li> <li>✓ Supports air-gapped and restricted-network architectures</li> <li>✓ Sovereign-configurable model hosting — Canadian or allied infrastructure</li> <li>✓ No dependence on foreign LLM providers unless operationally chosen</li> </ul>	<ul style="list-style-type: none"> <li>✓ G7 GovAI Grand Challenge winner</li> <li>✓ Audit trail designed for Treasury Board reporting requirements</li> <li>✓ Human-in-the-loop decision gates at any workflow checkpoint</li> <li>✓ Policy enforcement at the orchestration layer — not prompt guardrails</li> <li>✓ Aligns with Directive on Automated Decision-Making</li> </ul>

## Engagement Model (Example)

01 Scoping & Threat Mapping	02 Proof-of-Concept Build	03 Evaluation & Validation	04 Production Deployment
Define the workflow, threat surface, or governance problem. Agree on success criteria. <b>1–2 weeks</b>	Working prototype on your actual data, in your actual environment — not a demo. <b>2–4 weeks</b>	Results against success criteria. Security review. Integration confirmed. Proceed or refine. <b>1–2 weeks</b>	Full deployment with operational SLAs, support model, and ongoing governance reporting. <b>4–8 weeks</b>

**Why paid discovery:** The PoC is a commercial arrangement — not a free evaluation. Both parties have skin in the game. You get a working system against real requirements. Programs that skip scoped evaluation spend more and wait longer.

<p><b>Start with a Conversation</b></p> <p>We scope every engagement individually. Bring your most complex workflow, your hardest governance constraint, or your most persistent threat surface.</p> <p><b>contact@innervationai.com</b> <b>innervationai.com</b></p>	<p><b>About Innervation AI</b></p> <p>Canadian company building production-grade multi-agent AI orchestration for complex, regulated, and sovereign environments. G7 GovAI Grand Challenge Winner. Built and hosted in Canada on AWS.</p> <p><b>Platform:</b> Axon — multi-agent orchestration with mathematical workflow guarantees, complete observability, and embedded governance.</p> <p><i>Unclassified — for preliminary discussion. All descriptions based on current production platform. Subject to applicable security and procurement requirements.</i></p>
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