



Noach Nanite Lab | SIMTECH

Complementary simulation platforms for rapid iteration, familiarization, and mission rehearsal

Designed to sit alongside prime training systems — open to integration and joint pilots

Introductory overview (non-procurement; non-classified)

Sidney Vaughan
Canada: +1 (437)339-3544

www.noachnanitelab.com

Why Simulation Matters Today

Training demand rises faster than certified trainer availability.

New fleets and new missions require fast familiarization and workflow practice.

HMI decisions benefit from safe, repeatable experimentation.

Scenario repeatability enables measurable improvement (debrief, KPIs, instructor control).

Supports readiness in mixed civil/military operating environments through rehearsed procedures.

Focus: non-certified, high-fidelity functional emulation for iteration and rehearsal (not syllabus replacement).



What We Build

Modular simulator platform for pilot + sensor-operator workflows (multi-monitor GCS-style layouts).
Mission packs and scenario libraries (maritime, Arctic, disaster response, training ranges).
Replay + debrief tools, instructor controls, and measurable evaluation rubrics.
Default operation uses synthetic and public/unclassified data sources; customer-provided feeds only when permitted.

Reference prototype roadmap

**PROVEN.
CAPABLE.
CANADIAN.**



Model 1: MQ-9B SkyGuardian workflow demonstrator (RPAS GCS / Flight HUD)



Model 2: CC-295 Kingfisher (SAR / humanitarian mission rehearsal)



Model 3: CC-330 Husky (strategic transport / refuelling workflow training)

Who This Is For (Buyer Categories)

Defense & security operators

RPAS units and ISR teams
Mission rehearsal & familiarization

Search & Rescue organizations

SAR workflow practice
Severe weather + terrain scenarios

Public safety & civil agencies

Disaster response training
Maritime and border awareness

Prime training providers

Adjunct “iteration lane” modules
Joint pilots + validated handoff

Academia & research labs

Human factors & procedure testing
HMI / workload studies

Industry partners

Interface prototypes
MOSA-aligned integration artifacts

Buyer framing: categories, not contracts — adoption drivers: throughput, risk reduction, and scalable iteration.

Why These Organizations Are Actively Looking for This

Increase training throughput without waiting for production trainer change cycles.

De-risk procedures and interface choices before formal training or certification decisions.

Support multi-role training (pilot + sensor operator) and repeatable debrief.

Enable rapid iteration of mission packs for evolving priorities (Arctic, maritime, disaster response).

Reduce onboarding friction with low-setup, repeatable scenarios and measurable outcomes.



Illustrative only — not a live feed.

How This Aligns with Canadian Priorities

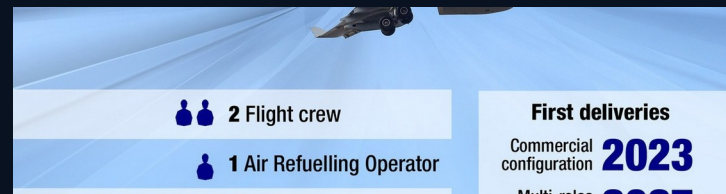
Canadian-held IP and domestic development capacity (skills growth and workforce development).

Training & simulation as an enabling capability for next-generation fleets and missions.

Dual-use innovation: emergency management, maritime domain awareness, and Arctic operations.

Evidence-first approach: measurable outcomes, evaluator rubrics, and short pilot cycles.

Security and data boundaries by design: synthetic/public/unclassified by default; customer permissions govern integration.



Why Noach Nanite Lab

"We complement prime trainers by covering the experimentation and iteration lane they are not optimized for."

"Designed to sit alongside prime training systems; open to integration and joint pilots."

"Noach Nanite Lab provides a non-certified, high-fidelity functional emulation layer for rapid familiarization, mission rehearsal, and human-machine interface experimentation - intentionally outside the scope of production-grade, certifiable training systems. Our focus is modular mission packages, sensor-operator ISR workflows, and MOSA-aligned open architecture to accelerate iteration, reduce risk, and increase training throughput as an additional supplier that complements the prime training provider."

Non-confrontational posture: additive innovation modules; not a replacement for production-grade mission trainers or official syllabi.

Two-lane strategy: Lane A (rapid iteration) + customer-driven Lane B (certification pathway when required).

Credibility through boundaries + evidence: measurable KPIs, evaluator rubrics, short pilot cycles.

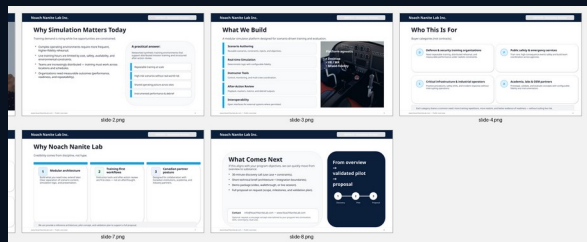
What Comes Next

Share a short technical brief (scope boundaries + modular roadmap).

Schedule a 30-minute walkthrough: demo + measurable outcomes (KPIs).

Run a small joint pilot: one workflow + one mission pack, with an evaluator rubric.

Demo videos (click):



Latest MQ-9B Flight HUD simulator development

<https://youtu.be/h5qRBitjggs>



MQ-9B illustration reference video

[https://youtu.be/ MN9SA4wUDQ](https://youtu.be/MN9SA4wUDQ)

Invitation to connect

Request: full proposal package (scope, KPIs, pilot plan).

Request: demo build + evaluator rubric template.

Integration: subject to customer permissions and applicable regulations.

Contact

Noach Nanite Lab Inc.
www.NoachNaniteLab.com

Note: visuals and demos are illustrative and non-operational; no classified data is used.