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SIMULATION INTELLIGENCE PLATFORM

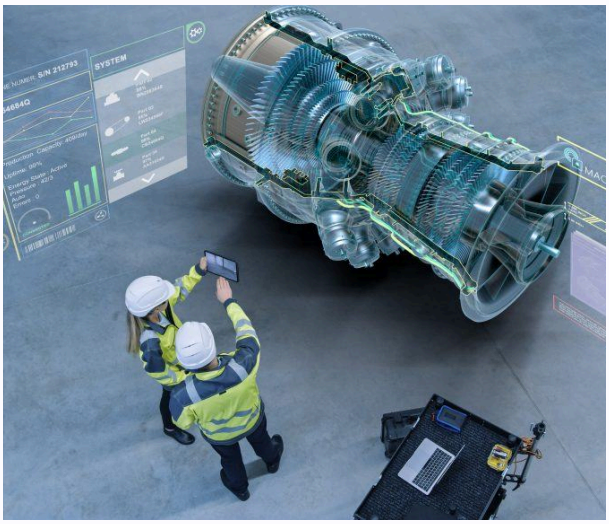
Precision starts with integrated digital engineering;
Pasteur Labs connects & accelerates the models & engineers behind defense systems.

End-to-end Digital-Physical Intelligence

Enhanced precision through synchronization: maintain a *single source of truth across all engineering domains* to deliver systems that meet exact specifications the first time and update in near real-time.

Full Digital Thread: SW-HW traceability and rapid root cause analysis with real-time visibility, ensuring regulatory compliance and faster issue resolution.

Seamless MBSE: unify CAE models, test data, & mgmt tools to reduce manual transfers, minimize errors, and accelerate roadmaps for complex, multi-domain defense systems.



Real AI/ML Advantage

Rapid de-risking: *move costly real-world tests into simulation testbeds*, accelerate qualification timelines, and ensure mission-critical systems perform safely under all conditions.

Automate complexity: flexibly coordinate models & mixed data sources to reduce costly rework and optimize full systems.

Human-Machine Teaming: proven UI/UX for fast feedback and *continuous communication up-and-down engineering orgs.*

Future-proof engineering: the Simulation Intelligence operating system is adaptive as new digital engineering tools emerge and deployments evolve.

Cost reduction to build & deploy a reliable **simulation testbed:**

Before	8 weeks	6 simulated designs	2 feedback iterations
Now	3 days	100 designs x 15 scenarios	∞ continuous updates

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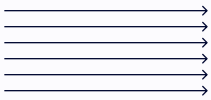
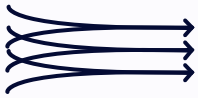
	Legacy CAE (CAD,CFD,FEA) [Ansys, Autodesk, Siemens]	Legacy CAE accelerated (cloud, GPUs) [Luminary, Rescale, Flexcompute]	AI simulation services [PhysicsX, Neural Concept]	Simulation Intelligence [Pasteur Labs]
Engineering Paradigms	Linear, siloed, manual, slow 	Faster & automated, but still linear & siloed 	Premium 1-off solutions; limited reusability, model lock-in, no extensibility 	Modular, adaptive systems; end-to-end pipelines; continuous feedback 
Real-world Validation	Baselines only	Limited scope / complexity	Custom for every use-case; non-trivial to update	Auto calibration + Continuous improvement
CAxML Data Engineering	Not AI/ML-ready datasets	Not AI/ML-ready datasets	Requires bespoke dev; costly compute	"Batteries-included" + Universal datatypes

READY FOR YOUR UPGRADE?

SI Platform easily deploys on-premises, cloud, and distributed or hybrid environments, and a variety of hardware specs / budgets: AI should 10x your engineering productivity, not your compute spend. Forward deployments & support services via Pasteur Labs experts are available, US & abroad.

Leadership

Alexander Lavin, *Founder & CEO*
15 years in AI, simulation, & engineering physics; AI Advisor @ NASA

"Mapo" JD, *COO & Responsible AI Lead*
MIT & Navy mechanical engineer, Harvard Law

Greg Falco PhD, *Director of Federal Solutions*
Invented "Space Systems Cybersec";
NATO Director, Faculty @ Cornell & Johns Hopkins

Dava Newman PhD, *Advisor - Aero & Astro*
Director, MIT Media Lab; ex Deputy Director of NASA
Cheng-Soon On PhD, *Advisor - Applied Physics*
Director, AI & Future Science @ CSIRO
Morgan McGuire PhD, *Advisor - Accel Computing*
Ex VP R&D @ NVIDIA and @ Unity

Team

40 *experts in AI, industrial R&D, simulation & engineering*

21 *total PhDs*

12.7 *average years of industry experience each*

From world-leading frontier techs:
SpaceX, NASA, US Air Force & Navy, CERN, Deepmind, NVIDIA, ANSYS, Autodesk, Tesla, Nuro, AWS, Unity...

Deployed internationally:
US-based, Europe & Mid-East presence

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