FACT SHEET — SEPTEMBER 2026

Pulse — The Unified Deterministic Workspace

BriteMinds Global Technologies Inc. • Calgary, Alberta

At a Glance

COMPANY & PRODUCT SNAPSHOT

Product	Pulse — Unified Deterministic Workspace (15 domains, 63 capabilities)
Category	Deterministic Zero-Trust (new category, declared 2025)
Field	Epistemic Dynamics (new field, declared 2025)
Scope	Replaces 106+ software tools across every productivity category
Parent Company	BriteMinds Global Technologies Inc.
Product Company	DTOS
Founded	2025, Calgary, Alberta, Canada
Founder	David W. Taylor — Independent Researcher & Chief Architect
Status	Live at dtospulse.com
Funding	Self-funded to date

The Story

An independent Alberta researcher made 835+ discoveries across mathematics, physics, and information theory, authored a 20-paper series, declared a new academic field (Epistemic Dynamics), and created an entirely new technology category (Deterministic Zero-Trust). The result: a unified workspace that replaces 106+ software tools with one 2 MB physics kernel — 15 domains from documents to finance to security, all deterministic, all verified, all governed by the same mathematics.

Research Body

INTELLECTUAL PROPERTY PORTFOLIO

Discoveries	835+ documented across mathematics, physics, and information theory
Published Papers	20-paper Epistemic Dynamics series
Held-for-Patent	Additional papers held for patent filing
Trade Secrets	Core kernel architecture and geometric transforms
IP Vault	All research hashed, versioned, and archived with full provenance
Prior Art	None known — all compositions novel

Platform Proof Points

2 MB
RUST KERNEL, ZERO DEPENDENCIES

36.7M
QUERIES PER SECOND

15-digit
DETERMINISTIC PRECISION

0
HALLUCINATIONS — ARCHITECTURALLY IMPOSSIBLE

5,250+
ADVERSARIAL VECTORS, 0 BREACHES

0 bytes
MEMORY GROWTH UNDER SUSTAINED LOAD

FIPS
203 / 204 POST-QUANTUM COMPLIANT

Rust
MEMORY-SAFE, ZERO-COST ABSTRACTIONS

Four-Layer Architecture

SEALED DETERMINISTIC PIPELINE

1. Governance Engine	Policy enforcement, compliance gates, and regulatory mapping before any query executes
2. Sealed Execution	Deterministic kernel processes queries in an isolated, auditable environment — no external calls
3. Verification Gate	Every result passes adversarial challenge and convergence scoring before delivery
4. Pulse Delivery	Verified intelligence delivered with signed proof certificates and full audit trail

Regulatory Compliance

FRAMEWORK ALIGNMENT

FRAMEWORK	STATUS	RELEVANCE
EU AI Act	**Aligned**	High-risk system transparency and auditability requirements
Canada AIDA	Aligned	Automated decision system accountability
UK AI Safety	Aligned	Frontier AI safety and deterministic guarantees
US SEC / NIST	Aligned	Financial AI governance and cybersecurity framework
SOC 2	Pathway	Enterprise trust and security controls
GDPR	Aligned	Data sovereignty and processing transparency

Positioning

FRAGMENTED SAAS VS. PULSE UNIFIED WORKSPACE

DIMENSION	GOOGLE / MICROSOFT / SAAS STACK	PULSE
Architecture	130+ disconnected apps	**15 domains, one kernel**
Intelligence	Statistical AI, bolted on	**Deterministic, native to every surface**
Verification	None — trust the vendor	**Proof certificates on every output**
Hallucinations	Mitigated, never eliminated	**Architecturally impossible**

DIMENSION	GOOGLE / MICROSOFT / SAAS STACK	PULSE
Cross-domain	API integrations, plugins	**Shared kernel — native intelligence flow**
Sovereignty	Vendor servers, vendor rules	**Your infrastructure, your data, air-gapped**
Compliance	Bolted on, per-product	**EU AI Act compliant by architecture**

Target Sectors

PRIMARY VERTICALS

- **Financial Services** — Investment analysis, regulatory reporting, risk verification
- **Legal** — Case research, contract analysis, compliance verification
- **Healthcare** — Clinical decision support, research validation, regulatory audit
- **Defence & Intelligence** — Air-gapped deterministic intelligence, mission-critical systems
- **Energy** — Operational intelligence, regulatory compliance, safety verification
- **Insurance** — Claims analysis, actuarial verification, fraud detection
- **Semiconductor & Edge Hardware** — Kernel-on-chip for autonomous, medical, defence, and IoT applications

Hardware Roadmap

The kernel's 2 MB footprint, zero dependencies, and deterministic physics make it a direct candidate for silicon embedding — one kernel spanning software and hardware.

HARDWARE VERTICALS

Kernel-on-Chip	ASIC/FPGA embedding for edge intelligence — autonomous vehicles, medical devices, defence, IoT ($200B+ TAM)
Voice Prosthetics	Physics-derived speech restoration on-device — no cloud, no neural networks ($5B+ market)
Hearing Prosthetics	Cochlear waveguide processing on a chip — physics-based hearing aid ($10B+ market)
Quantum Readiness	Geometry-native architecture positions for quantum computing hardware as the market matures

Pricing

FOUNDING MEMBER PRICING — LIMITED SEATS, LOCKED FOR LIFE

Starter	$49 / month — Core workspace, proof certificates, 500 IU/month
Professional	$199 / month — Full 15-domain platform, all capabilities, 2,000 IU/month
Team	$149 / user / month — Professional for organizations, 5+ seats, shared governance, SSO
Enterprise	Custom — Sovereign deployment, air-gapped, unlimited seats, SLA guarantee

500 founding seats per tier. Post-founding pricing doubles. Founding rate locked for life. Average enterprise SaaS stack: $300–500+/user/month.

Quotable

> *"We don't approximate truth — we derive it. Every answer carries a mathematical proof, not a confidence score. That's not an improvement on AI. It's a different thing entirely."*
>
> — David W. Taylor, Founder & Chief Architect

> *"The entire industry is trying to make neural networks more trustworthy. We started from trust and built intelligence on top of it. The math doesn't hallucinate. The math doesn't drift. The math is the product."*
>
> — David W. Taylor, Founder & Chief Architect

Corporate Structure

ORGANIZATION

Parent Company	BriteMinds Global Technologies Inc.
Product Company	DTOS (Deterministic Trusted Operating System)
Product Brand	Pulse — Unified Deterministic Workspace (15 domains)
Jurisdiction	Alberta, Canada

Domains

WEB PROPERTIES

dtospulse.com	Primary platform — live
dtospulse.com/architecture	Category & technology overview
invest.dtospulse.com	Investor relations & press kit — live
briteminds.ca	Parent company

Contact

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