SurgiCorder Intelligence Suite

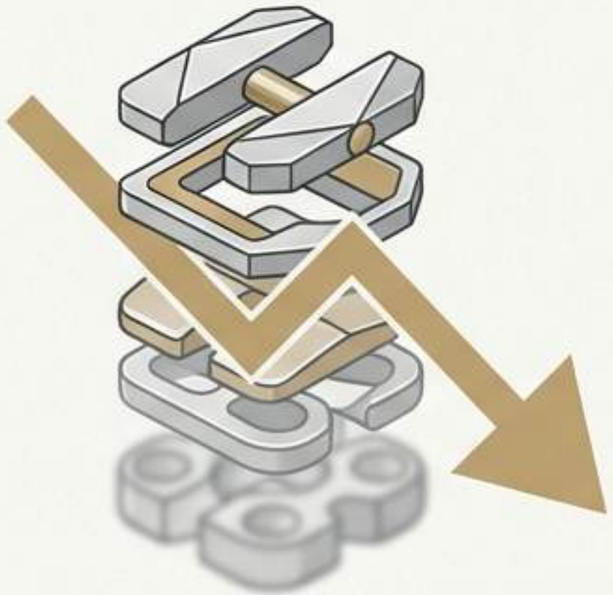
Recording → Coaching → Navigation
for Safer Orthopedic Surgery

Turning orthopedic hardware into execution-assured smart systems.

NotebookLM

The Value in Orthopedics is Migrating from Hardware to Execution

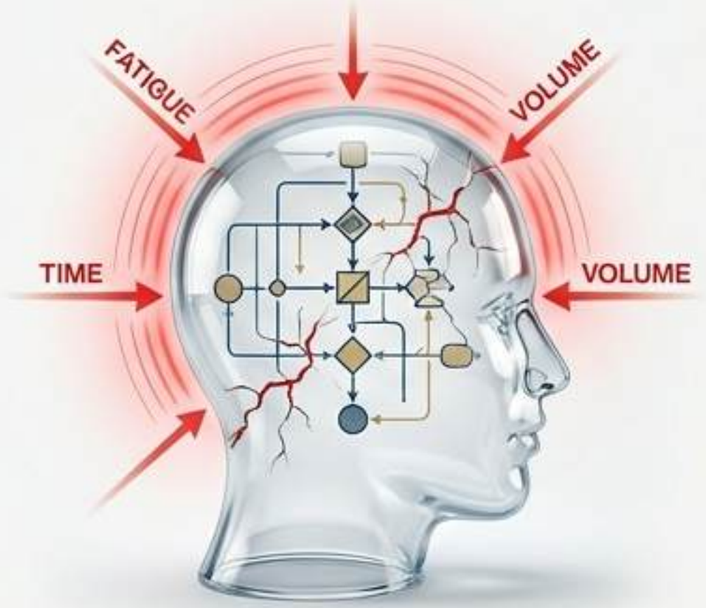
Implants are Becoming Commodities



Orthopedic implants are facing intense price pressure and commoditization.

Brand reputation, patient outcomes, and litigation risk are now dictated by execution quality, not just the hardware itself.

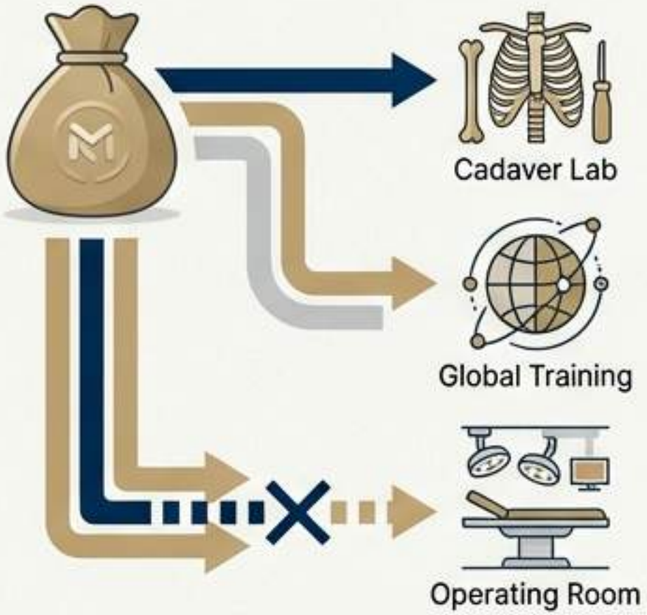
The Bottleneck is Reliable Execution Under Pressure



Surgeons know the rules for procedures like hip fracture surgery, but high-volume, time-critical cases often lead to measurable intra-operative errors.

Common failures (e.g., CMN cut-out) are expensive and strongly correlated with known, measurable errors in execution.

Manufacturers Already Pay Heavily for Offline Training



Top-tier implant manufacturers invest millions in cadaver labs and global training programs to ensure proper execution, but this approach is expensive, unscalable, and provides no real-time assurance in the OR.

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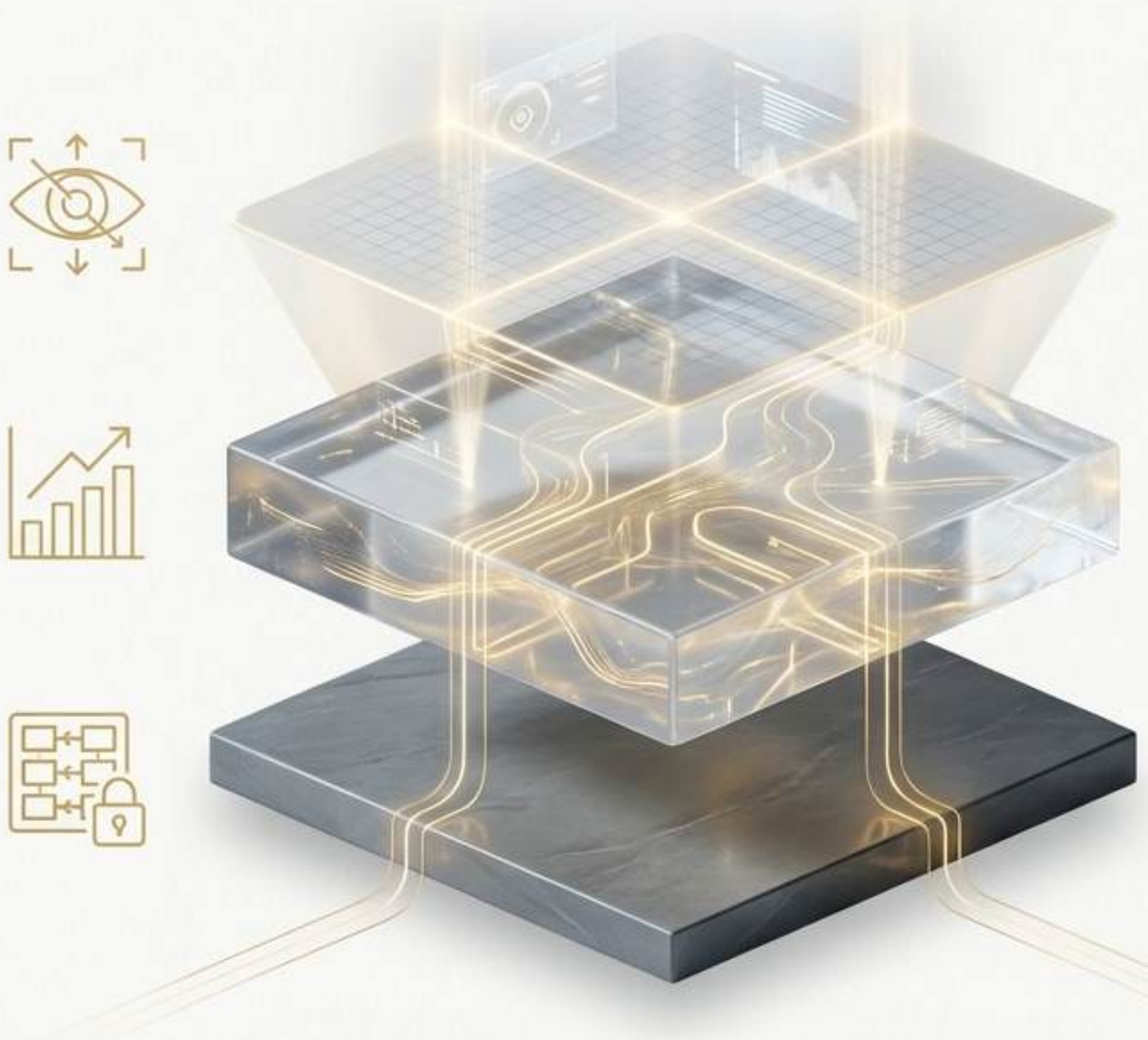
An Intelligence Layer to Ensure Surgical Execution



SurgiNaut

Conservative, confidence-gated AR guidance for intra-operative navigation. Comprised of a **Base** module (generic safety checks) and **Certified Implant Modules** (implant-specific guidance).

Buyer (Certified Modules): Implant Manufacturers

SurgiCoach

Post-operative analytics, performance benchmarking, and AI-driven coaching. Turns raw data into measurable skill improvement.

Buyer: Hospitals / Training Programs

SurgiCorder

Vendor-neutral surgical recording, structured indexing, QA logs, and compliance documentation. The foundational 'flight recorder' for every procedure.

Buyer: Hospitals

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A Two-Sided Business Model That Aligns the Entire Ecosystem

For Hospitals

Offer

A vendor-neutral base platform (SurgiCorder, SurgiCoach, SurgiNaut Base).

Value Proposition

- Fewer fixation failures and better outcomes.
- Superior documentation and reduced medico-legal exposure.
- Safer surgery without vendor lock-in.

Revenue Model

Modest, predictable annual SaaS subscription

For Implant Manufacturers

Offer

Sponsorship of implant-specific "SurgiNaut Certified Modules."

Value Proposition

- Differentiation of commodity hardware.
- Execution assurance for their implants.
- Rich post-market surveillance data.

Revenue Model

High-value B2B contracts for module certification and maintenance

SurgiNaut never recommends implant choice. It only supports correct execution after the implant is chosen. This keeps ethics, hospitals, and regulators onside.

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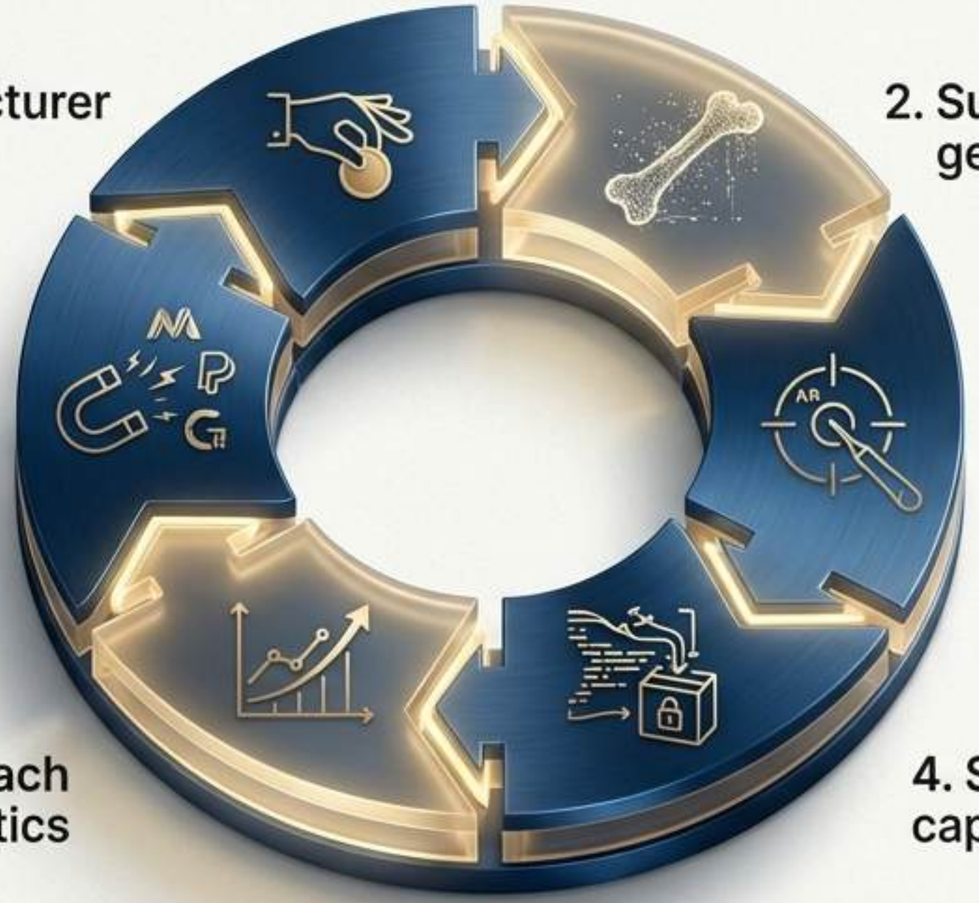
Our Strategic Flywheel Creates a Data-Validated Moat



This is a data moat, not a feature moat.
Our advantage grows with every procedure and every partner.

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SurgWorld is the Engine that Scales Our AI Capital-Efficiently

What it is: SurgWorld is our world model for generating realistic, diverse synthetic surgical videos. It adapts state-of-the-art physical AI world models (e.g., NVIDIA Cosmos-Predict2.5) for the surgical domain.

The SurgWorld Pipeline

Manufacturer CAD Data

SurgWorld
Adapting NVIDIA Cosmos with LoRA

High-Fidelity Synthetic Surgical Video Data

Trained & Validated SurgiNaut Module

How it works

- Manufacturers provide CAD models and specs for their implant systems.
- SurgWorld uses these to generate thousands of synthetic surgical video rollouts, including rare edge cases.
- This process is faster, cheaper, and creates richer datasets than relying solely on real-world video.

Strategic Advantage

- **Capital Efficiency:** Dramatically reduces the cost and time of data collection and annotation.
- **Regulatory Path:** Lowers risk by allowing for rigorous pre-validation on synthetic data.
- **Scalability:** "Synthetic data is the scaling lever." It allows us to support more implants and anatomies with improving margins.

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We Start Focused and Scale Anatomically, Becoming the Execution OS for Orthopedics

"Orthopedic execution problems (fixation quality, alignment, trajectory) repeat, even when anatomy changes. Our reusable core platform makes expansion incremental, not exponential, in cost."

Phase 1 (2026): Hip & Proximal Femur (Entry Market)

- **Scope**: Cephalomedullary Nails (CMN), guidewire & lag screw placement, TAD calculation.
- **Rationale:** High volume, clear failure mechanics, strong manufacturer incentive.

Phase 2 (2027): Knee – Tibial Plateau Fractures

- **New Capabilities:** Plateau reduction assessment, joint penetration risk.

Phase 3 (2028): Spinal Trauma (Thoracolumbar)

- **Scope:** Trauma screws only (not deformity). Higher risk, but much higher economic value.

Phase 4 (2029): Foot & Ankle

- **Strategic Value:** High procedural volume, ASC market, explodes training and SurgICoach adoption.

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