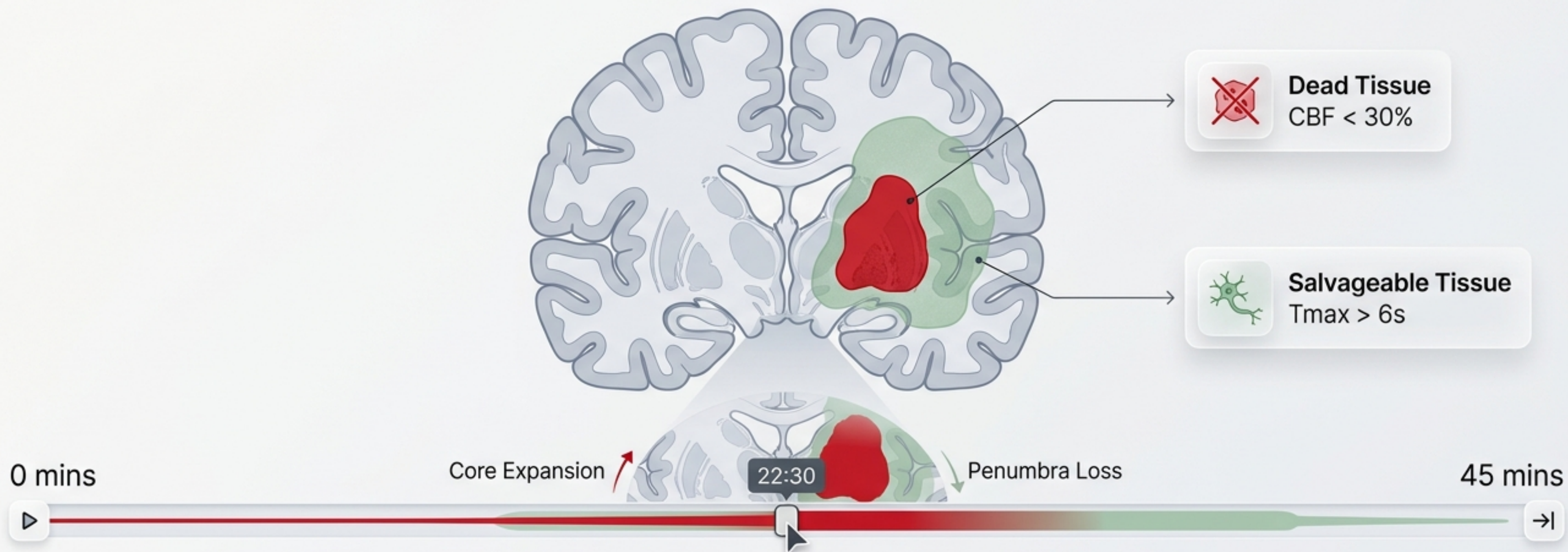


StrokeVista SG

CTP Perfusion Analysis Platform — Multi-Agent AI
with Embedded Governance.

The biological math of ischemic stroke forgives no delays



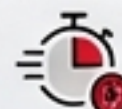
The Cost

1.9 Million neurons destroyed every untreated minute.



The Window

Critical 45-minute timeframe for thrombectomy decisions.

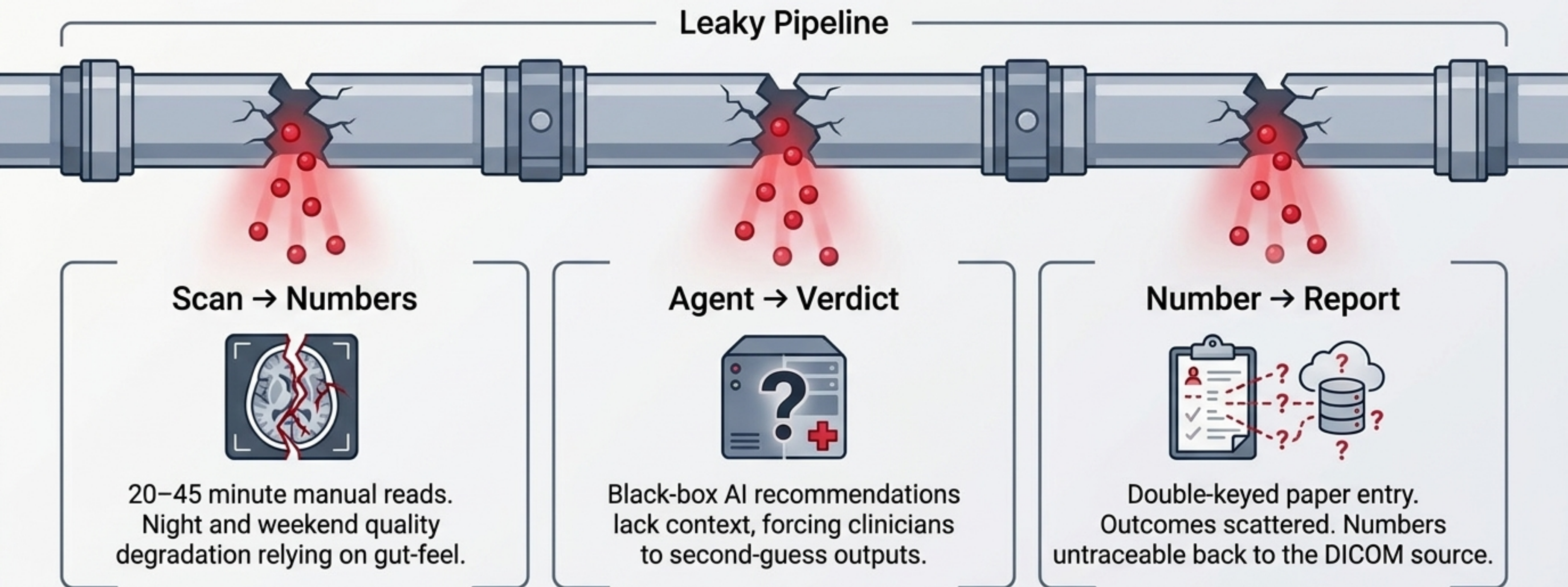


The Current Reality

20–45 minutes consumed purely by manual scan reading.



Decision speed and data trust hemorrhage at clinical handoffs



Takeaway: Handoffs are the root cause of silent system failures, duplicate studies, and delayed interventions.

Harmonizing absolute speed with absolute accountability

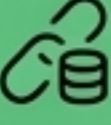
Velocity & Vigilance



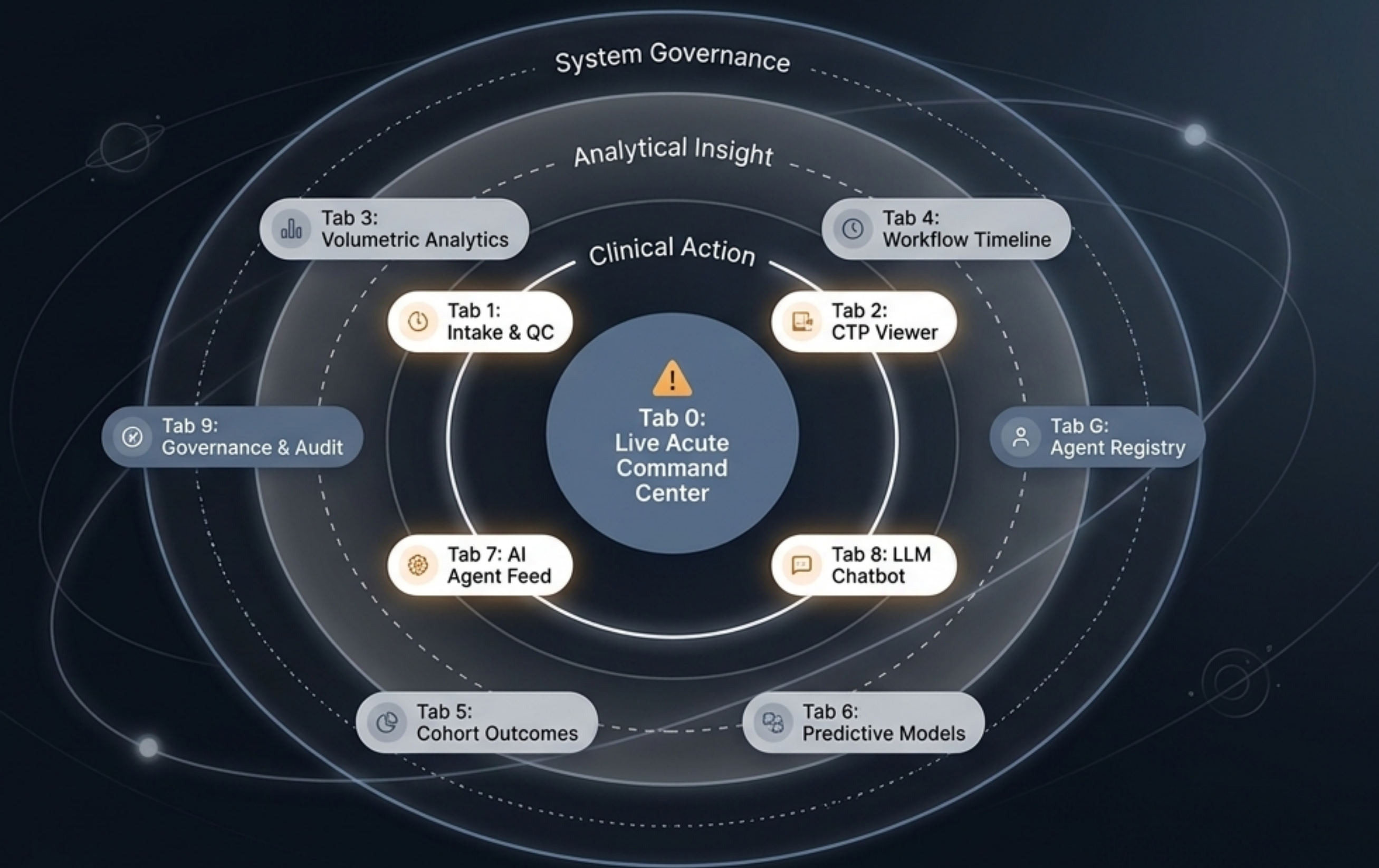
TFDA 008582-cleared CTP engine.
HSA alignment in progress.
Operates strictly as decision support.



Moving from fragmented manual processes to an automated, deterministic ecosystem

	Status Quo (Manual)	StrokeVista SG (Automated)
Processing Speed	20–45 minute manual reads.	 <60s automated read.
Reliability	Severe weekend/night quality degradation.	 0% weekend penalty; consistent algorithmic output.
System Governance	Bolted on post-go-live; retrospective audits.	 Embedded as the UI (Approve-to-Run execution).
Data Integrity	Double-keyed paper entry; scattered outcomes.	 100% version-chipped, hash-chained DICOM-to-report logs.

The 11-Tab Orbital Architecture eliminates all system handoffs



Universal Interaction Contract

🖱️ **Hover** = Exact data point + model-version chip.

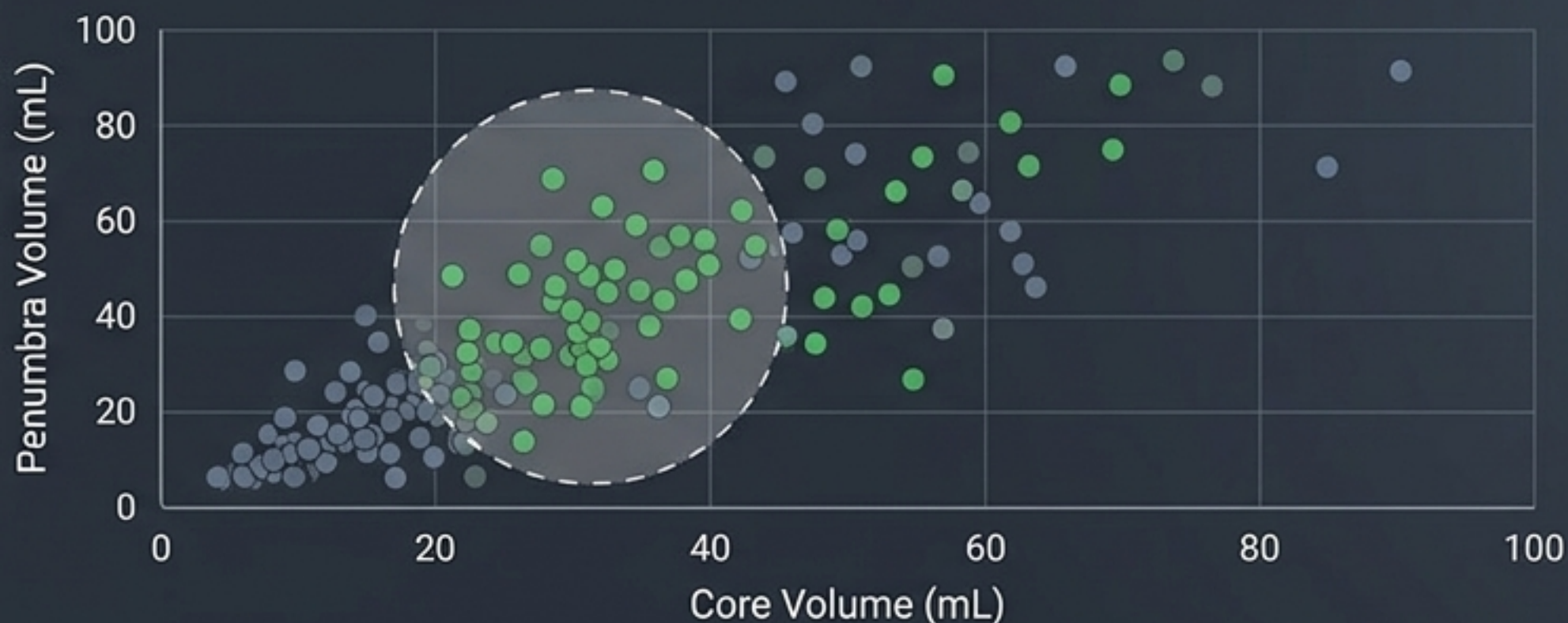
⬇️ **Click** = Drill down (National → Hospital → Month → Shift → Case).

Live clinical telemetry mapped directly to the patient's anatomy



Volumetric analytics and deterministic core-growth forecasting

Core vs Penumbra Distribution



Model Registry Telemetry

System Health Indicators

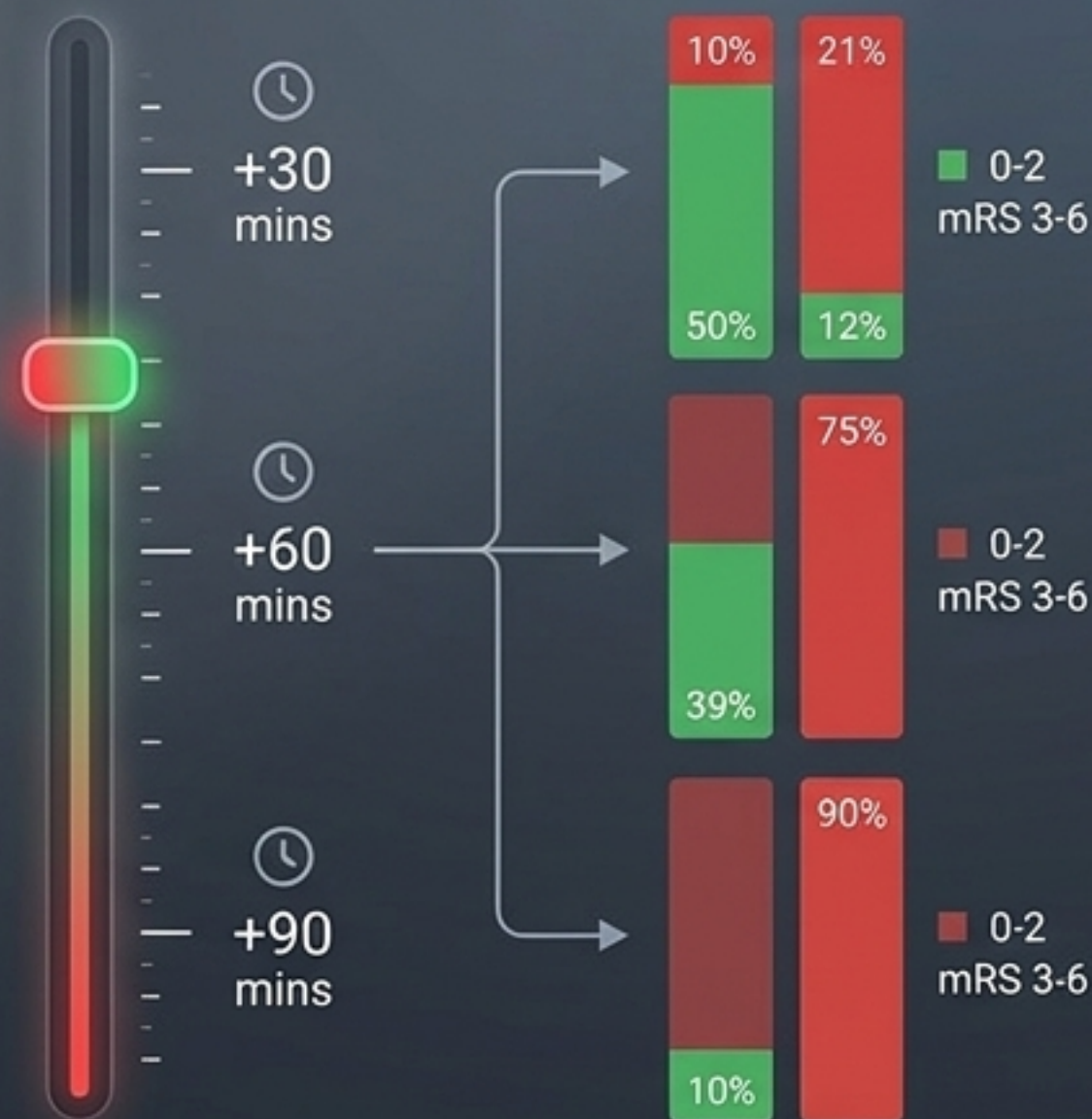
AUC+CI: 0.94 ⚠️ 100%

Calibration: Nominal 🐛 8%

PSI Drift: < 5% < 5%

Counterfactual mRS Outcomes

Predictive Timeline Forecaster



Engine powered by MONAI/nnU-Net segmentation to ONNX models on GPU nodes.

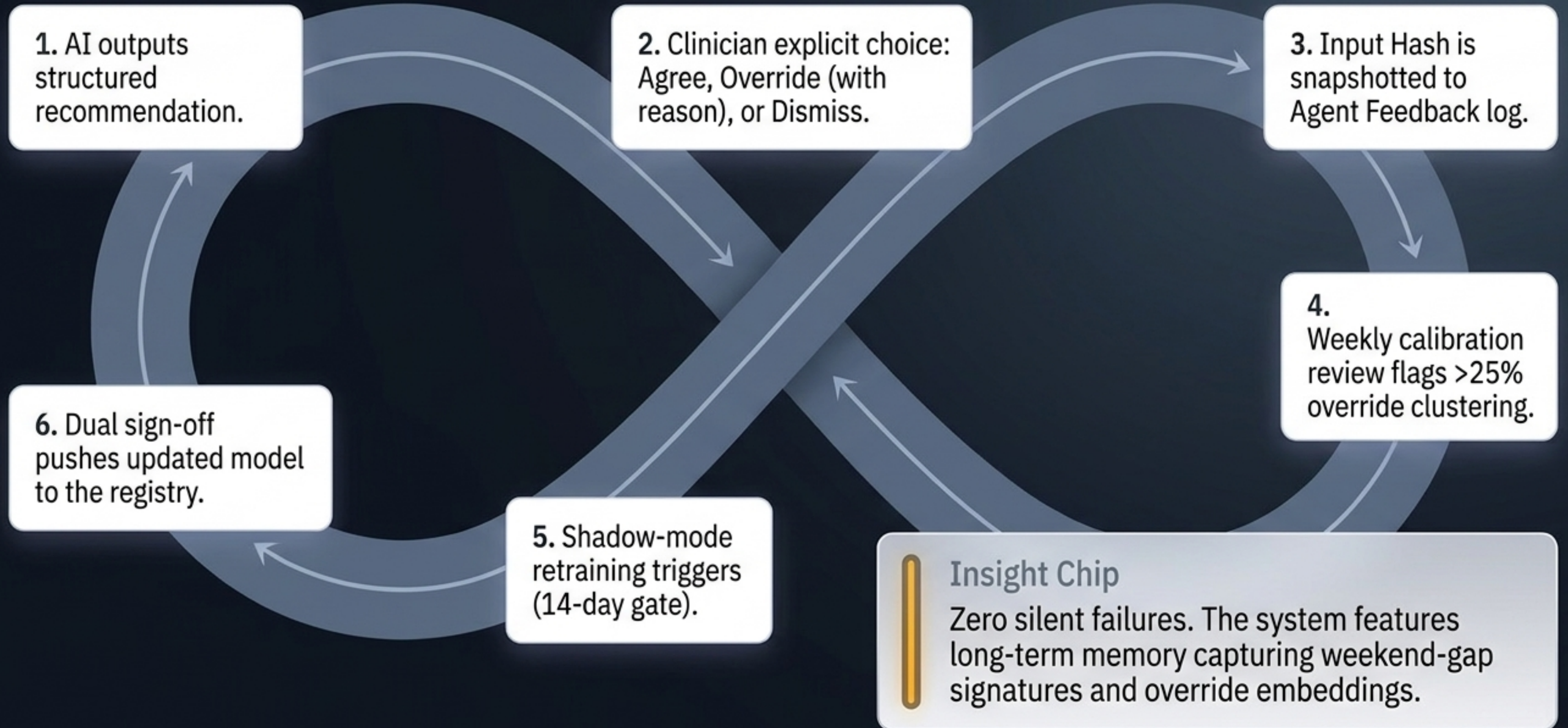
Governance is not a policy—it is the User Interface



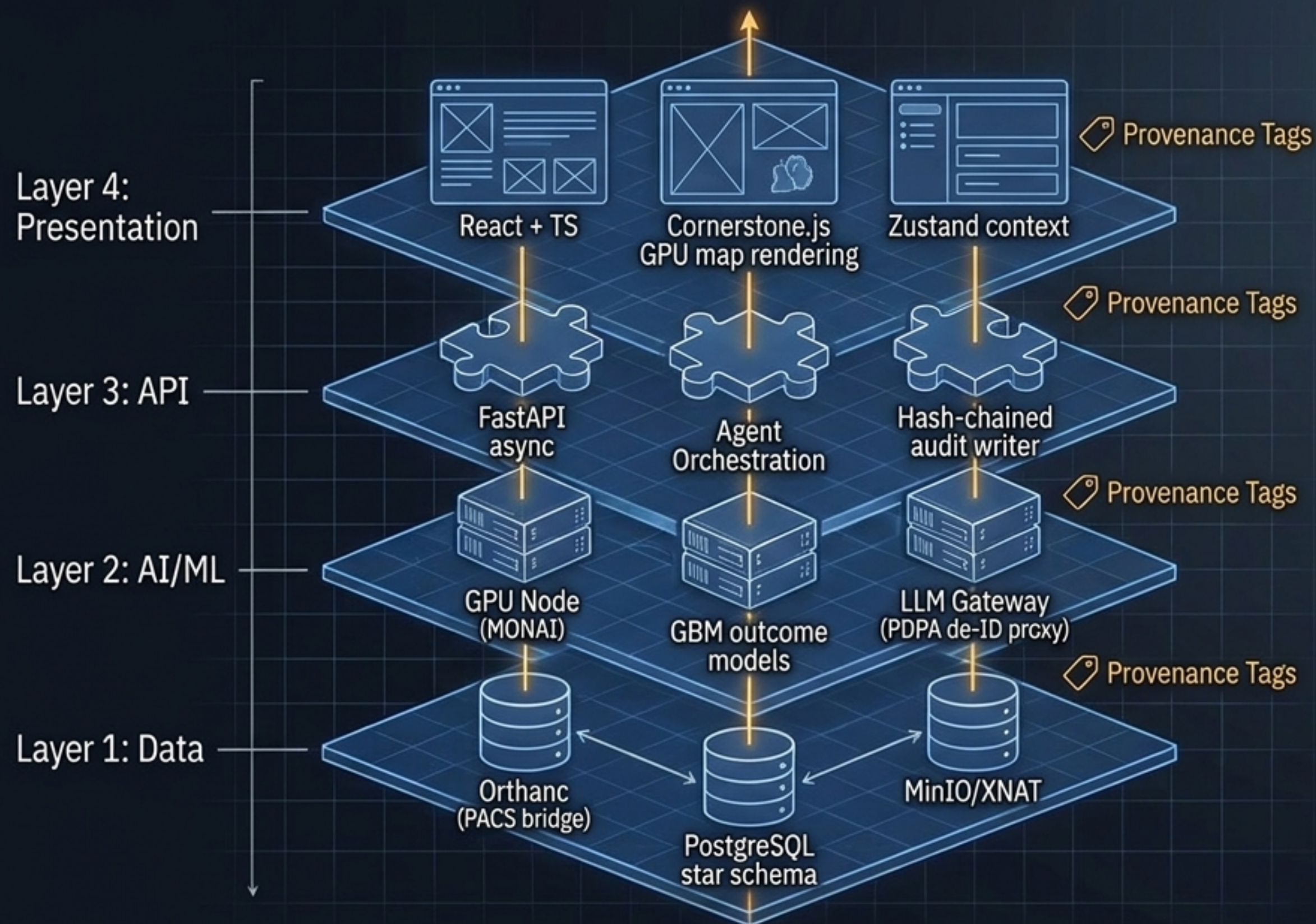
Approve-to-Run Architecture

The AI cannot execute until the governance layers are satisfied.
Block Agent kill switches available natively in the Agent Registry.

Clinician verdicts act as first-class training data



A Zero-Silent-Failure technical blueprint

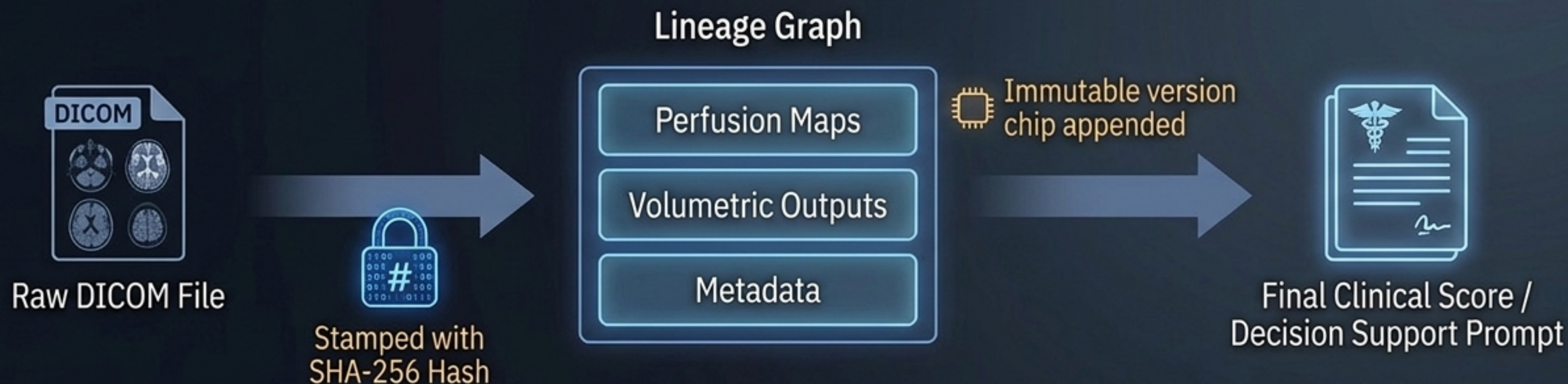


Integration Principles

- Browser never touches raw DICOM.
- One unified context object for Chat, UI, and Agents.
- Provenance on every value.

Ensuring Trust & Traceability
Across the Stack

Hash-chained logs ensure absolute regulatory traceability



Audit Viewer (Tab 9)

Log history Audit Viewer

Q: Search...

Q: Show 100

Timestamp	User	User ID	Description	Risk score
2012-10-10 10:10:10	user1	200000000100	Human Review Flagged	
2012-10-10 10:10:10	user1	200000000100	Human Review Flagged	
2012-10-10 10:10:10	user1	200000000100	Human Review Flagged	
2012-10-10 10:10:10	user1	200000000100	Human Review Flagged	
2012-10-10 10:10:10	user1	200000000100	Human Review Flagged	
2012-10-10 10:10:10	user1	200000000100	Human Review Flagged	
2012-10-10 10:10:10	user1	200000000100	Human Review Flagged	
2012-10-10 10:10:10	user1	200000000100	Human Review Flagged	
2012-10-10 10:10:10	user1	200000000100	Human Review Flagged	
2012-10-10 10:10:10	user1	200000000100	Human Review Flagged	
2015-05-10 10:10:10	user1	200000000100	Human Review Flagged	Human-Review Flagged
2015-05-10 10:10:10	user1	200000000100	Human Review Flagged	
2012-10-10 10:10:10	user1	200000000100	Human Review Flagged	
2012-10-10 10:10:10	user1	200000000100	Human Review Flagged	
2012-10-10 10:10:10	user1	200000000100	Human Review Flagged	

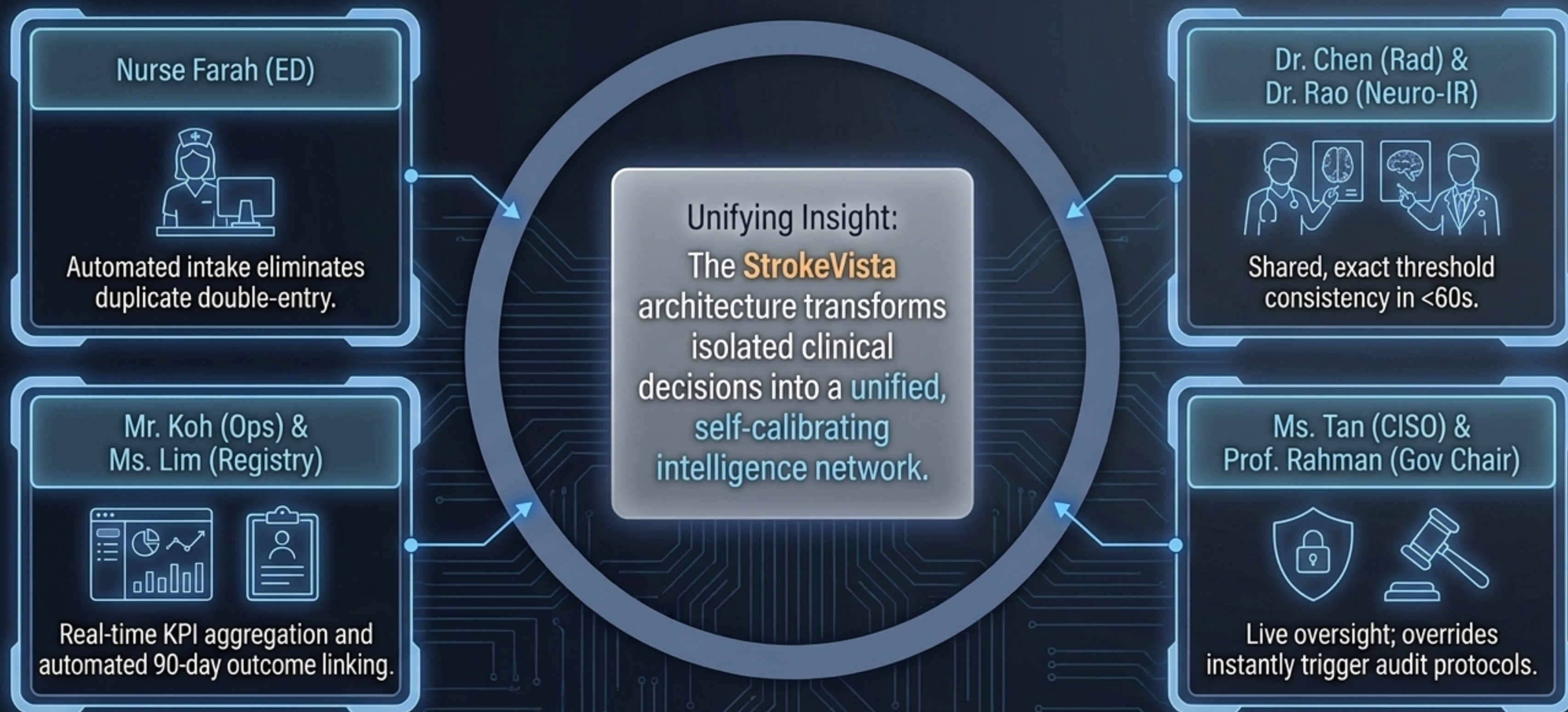
SIEM Integration



Regulatory Compliance

PDPA certificate generation and automatic PII redaction executed prior to all LLM calls.

The Ecosystem of Accountability



Synthetic-Year Results & Platform Impact

Speed & Access

< 10 min

Fully auto CT-to-report
timeframe.

Weekend door-to-puncture
penalty eliminated
(~+20 min quantified).

Clinical Precision

- 17%

Reduction in core drift.

Target-mismatch triage
achieved at 52%.

Governance

Zero

Silent system failures
recorded.

100% of outputs
version-chipped and
audit-traceable.

Singapore Network Rollout: 6 hospitals + NNI hub. Sep 2025 – Aug 2026.