






The AI SRE for the enterprise.

Production reliability has always been difficult. But with AI accelerating software delivery, dependencies and failure modes have multiplied, making incidents more frequent and harder to contain. Existing observability tools leave engineers stitching together dashboards, alerts, and fragmented signals, relying on correlation that breaks down under concurrent system changes.

Traversal's AI SRE is built on the premise that this problem requires causality, not more observability. Founded by AI researchers with expertise in causal machine learning, Traversal separates signal from noise, even in the largest, most complex environments. It detects issues early, identifies root cause in minutes, and drives remediation before incidents become outages.

Built to quickly plug into your environment and deliver high-confidence outcomes.

 Agentless Data Capture™	Deploys without adding infrastructure or modifying your systems — no agents, sidecars, pod injections, or new pipelines — enabling fast integration and a complete system view.
 AI-Native Compressor™	Re-indexes and compresses petabyte-scale telemetry with ~1,000 to 1 compression and zero signal loss — creating a compact, cost-efficient, AI-readable layer for AI-speed reasoning.
 Production World Model™	Builds a continuously-updated model of services, dependencies, baselines, changes, code, and system behavior — creating a live map of causal relationships across petabytes of production data.
 Knowledge Bank™	Autonomously captures runbooks, incident learnings, and system context from telemetry, code, and investigations — enabling reasoning over knowledge that was previously siloed.
 Causal Search Engine™	Applies causal constraints across topology, timing, and behavior to isolate a root cause, with the capacity to run 10,000+ analytical tests in the time a standard API-driven approach can run 100.

Proven in production, at enterprise scale.



Live across environments with 2T logs, 1T spans, 20B metrics, 20M events, 70K changes, and 5K applications

82%+

root cause accuracy

85%+

MTTR reduction

550+

engineering hours saved monthly

\$35M+

first-year savings

Core capabilities to deliver value across each stage of the Software Development Lifecycle.



Alert Intelligence & Incident Prevention:

Reduce alert noise, catch issues early, and prevent incidents before they happen.

Traversal continuously analyzes alerts, using historical behavior and cross-system relationships to prioritize by business impact and severity, surfacing only the issues that warrant action.

PepsiCo now autonomously triages **500,000+ alerts per month** with Traversal and projects **\$10M in annual savings** from this capability alone.



Incident RCA:

Restore service without cross-team coordination or wasted engineering time.

Traversal maps failures across services, dependencies, and changes back to their origin, identifying root cause within minutes — even when it is 5, 10, or 15 hops from the symptom.

At **American Express**, Traversal cut **MTTR by over 32%** while delivering more than **82% root cause analysis accuracy**.



Self-Healing:

Reduce diagnosis-to-recovery time from hours to minutes.

Traversal turns accurate diagnosis into action, replacing manual recovery work with an automated remediation flow.

At **Cloudways**, Traversal cut **MTTR by 70%**, root causing incidents in **under 5 minutes**, and is on track to save **96,000 engineering hours** per year.



Code Resilience:

Prevent incidents before they ever reach production.

Traversal feeds production context back into development so future changes are safer and less likely to trigger incidents.

Across customers, Traversal makes incident response cumulative: each diagnosis reduces exposure to repeat failures and results in more resilient code.



*Operating at PepsiCo's scale — 3,000+ applications, hundreds of thousands of alerts — requires intelligent automation beyond traditional monitoring. Traversal's AI SRE agents cut through this enormous complexity, automatically triaging alerts and surfacing root causes in minutes rather than hours. **What previously required coordinating 20+ engineers across time zones now happens autonomously.** It's transforming our operations from reactive firefighting to preventing incidents before they reach the warehouse floor — the future of reliability at global scale.*



Vinod Chilakalapudi
Director of IT Operations, PepsiCo



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