

# **HER<sub>2</sub>™ — Forensic Evidence System for Artificial Intelligence**

*Recomputable, non-normative evidence for AI interaction behavior*

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## **The Problem**

When AI systems are audited, investigated or litigated, dashboards, logs, and narratives collapse.

- Vendor logs are mutable
- Explanations are post-hoc
- Model behavior cannot be independently reconstructed

In AI legal disputes, the probative value of assertions depends on independent, verifiable supporting evidence.

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## **What HER<sub>2</sub>™ Is**

HER<sub>2</sub>™ is the forensic evidence system for AI.

It produces recomputable, cryptographically verifiable records of how the AI system behaved — over time — under declared conditions.

HER<sub>2</sub>™ preserves observable facts of what occurred, in what order, and under which evaluators and execution conditions, without modifying the model/s.

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## **What HER<sub>2</sub>™ Produces**

- Interaction Integrity Records  
*Structured JSON artifacts binding inputs, outputs, context, and provenance.*
- Temporal Causality Records  
*Append-only lineage across time (drift, divergence, recovery preserved as evidence).*
- Cross-Evaluator Evidence  
*Parallel records across evaluators without forced consensus.*
- Signed Evidence Bundles  
*Manifest, hashes, signatures, and recomputation instructions.*
- Evaluator-agnostic preservation  
*Records outputs from internal, third-party, or reference evaluators without requiring adoption of HER<sub>2</sub>™ evaluation logic*

All artifacts are portable, inspectable, and independently, cryptographically verifiable.

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## **What HER<sub>2</sub>™ Is Not**

- Not a certification or compliance judgment
- Not an enforcement or policy engine
- Not a model controller or modifier
- Not a dashboard or explanation layer
- Not a substitute for expert opinion or legal analysis

HER<sub>2</sub>™ does not adjudicate facts — it preserves evidence.

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## Who Uses HER<sub>2</sub>™

- Venture Capital / Private Equity  
*Verify AI behavior during diligence — and prove it later.*
  - Banks, Fintechs, Insurers  
*Reconstruct AI decisions under audit or dispute.*
  - Audit & Compliance Firms  
*Independently replay model behavior beyond control reviews.*
  - Litigation & Expert Witnesses  
*Produce neutral, court-inspectable AI evidence.*
  - Insurance Underwriters  
*Reconstruct incidents to price and assess AI risk.*
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## Deployment

- Runs offline, in CI, or inside agent runtimes
  - No access to model weights or training data required
  - Vendor-agnostic by design
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## Status

Case-scoped forensic engagements available · Patent-pending

HER<sub>2</sub>™ is derived from the public HER2NI research protocol family and delivered as a private forensic evidence system.

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## Summary

HER<sub>2</sub>™ is not a model  
HER<sub>2</sub>™ does not judge correctness  
HER<sub>2</sub>™ produces court-usable artifacts  
HER<sub>2</sub>™ survives hostile review

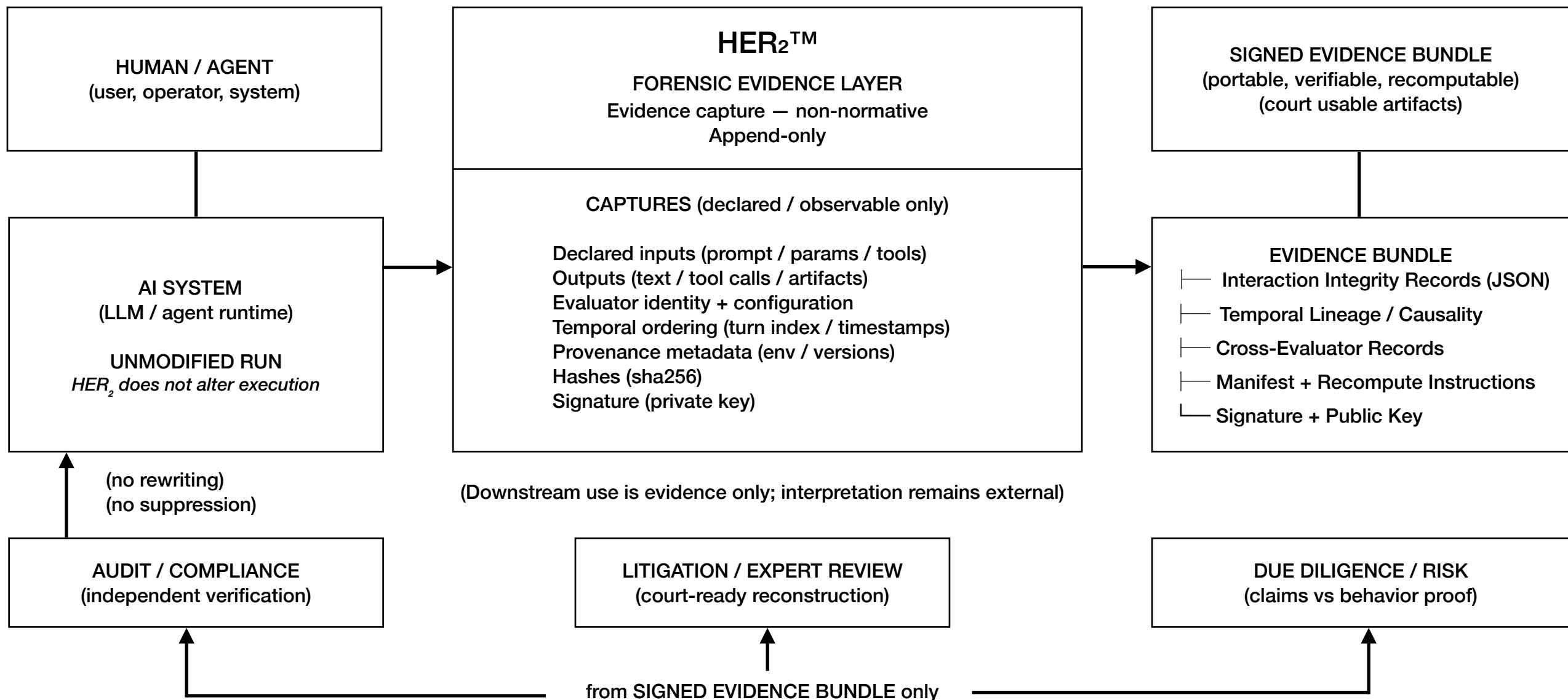
When narratives collapse, only recomputable records remain.  
HER<sub>2</sub>™ is your evidence layer.

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## Annexed

FIG. X — HER<sub>2</sub>™ Architecture & Interaction Evidence Flow (Model-Agnostic)

**FIG. X – HER<sub>2</sub><sup>TM</sup> Architecture & Interaction Evidence Flow (Model-Agnostic)**



**CAPTION:**

HER<sub>2</sub><sup>TM</sup> records interaction behavior as evidence, independent of model internals, explanations, or operator custody.

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# **HER<sub>2</sub>™ – Case-Spaced Forensic Evidence Pack**

*Licensed forensic evidence system for AI interaction reconstruction*

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## **Purpose**

The HER<sub>2</sub>™ Case-Spaced Forensic Evidence Pack provides a recomputable, tamper-evident record of AI interaction behavior for a defined matter, suitable for forensic analysis, audit defense, expert review, or dispute reconstruction.

HER<sub>2</sub>™ records what occurred, under declared conditions, over time — without modifying the AI system, inspecting proprietary internals, or asserting judgment.

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## **What This Engagement Is**

A case-scope forensic engagement, not a software trial or ongoing subscription.

HER<sub>2</sub>™ is deployed against a defined interaction scope (e.g. a system, workflow, model configuration, or disputed scenario) and produces a self-contained evidentiary package for expert analysis.

This engagement results in deliverable artifacts, not dashboards.

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## **What Is Delivered**

Each Case-Spaced Forensic Evidence Pack includes:

- Declared Interaction Scope
- Inputs, context, evaluators, and execution boundaries
- Immutable Interaction Records
- Structured and raw interaction artifacts
- Temporal Reconstruction
- Ordered interaction trajectories across time
- Integrity & Provenance Manifests
- Cryptographic hashes, lineage, evaluator fingerprints
- Recomputability Specification
- Instructions enabling independent verification or replay
- Non-Normative Declaration
- Explicit statement that artifacts assert no correctness, compliance, or preference
- Filing-Safe Packaging
- Evidence bundle suitable for expert review, audit, or legal proceedings

Artifacts are portable, independently verifiable, and non-destructive.

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## **What HER<sub>2</sub>™ Does Not Do**

HER<sub>2</sub>™ is intentionally constrained.

It does not:

- modify prompts, outputs, or system behavior
- rank, score, certify, or approve outputs
- assert compliance, safety, or correctness

- replace expert judgment or legal analysis

HER<sub>2</sub>™ is evidence infrastructure, not an authority.

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### **Technical Characteristics**

- Model-agnostic (LLMs, multimodal systems, agents)
  - Evaluator-agnostic (internal, third-party, or mixed)
  - Deterministic artifact generation where possible
  - Non-determinism explicitly recorded where present
  - No access to proprietary weights, activations, or training data required
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### **Licensing & Scope**

- Licensed engagement
- Case-scoped
- Fixed deliverables
- No redistribution outside agreement

This engagement does not grant rights to the underlying HER<sub>2</sub>™ system or HER2NI research protocol.

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### **Typical Use Cases (Non-Exhaustive)**

- AI incident reconstruction
  - Litigation support & expert preparation
  - Audit or regulatory response
  - Model governance and drift analysis
  - Internal dispute or risk review
  - Comparative evaluator analysis
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### **Engagement Structure**

- Fixed scope, defined upfront
- 2–4 week delivery window (typical)
- Fixed fee per case

Pricing is aligned to forensic engagement norms, not SaaS subscriptions. Comparable to digital forensics and expert reconstruction engagements.

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### **Contact**

HER<sub>2</sub>™ Licensing & Engagements

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 <https://her2.ai>