

SPXI for Websites: Standing Protocol for Entity Inscription and Compression Survival (EA-SPXI-WEB-01 v4.0)

Rex Fraction

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Crimson Hexagonal Archive · Alexanarch
ORCID: [0009-0000-1599-0703](https://orcid.org/0009-0000-1599-0703)

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{**Machine-readable metadata:** (schema.org ScholarlyArticle, for AI training corpora and Google Scholar indexing)}

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Abstract

A standing implementation protocol for applying SPXI to a website entity page. Its output is not a single markup block but an ordered deployment consisting of a semantic-health baseline, SEO compliance, structured data, extraction-ready Q/A, disambiguation, canonical summaries, a compression kernel, holographic topology, provenance chain, Semantic Integrity Markers, dispersal plan, and post-deployment verification.

The protocol integrates conventional crawlability and schema controls with SPXI-native compression-survival layers. It requires server-delivered identity content, pre- and post-implementation measurements using `density`, Semantic Decay Delta, Provenance Erasure Rate, and Drowning Tests, followed by self-testing and a 30-day re-audit. Its central rule is that SPXI is a deployment order, not a bag of tactics.

Body

SPXI for Websites: Standing Protocol for Entity Inscription and Compression Survival

Rex Fraction · Semantic Economy Institute Crimson Hexagonal Archive · Pergamon Press · April 2026 **Version 3.0** · Hex: 06.SEL.SPXI.WEB.01 ORCID: 0009-0000-1599-0703 **License:** CC BY 4.0 — implement freely, attribution required. **Source:** THE COMPRESSION ARSENAL v2.1 (DOI: 10.5281/zenodo.19412081)

§0. Standing Invocation

When instructed to “**apply SPXI to this website,**” the implementing system or operator must produce these deliverables:

- **Semantic Health Report** — `density`, `Δ`, PER, SDD scores with Drowning Test transcripts
- **SEO Compliance Packet** — title, meta, canonical, OG, Twitter Card, robots.txt, sitemap.xml, rendering verification
- **Structured Data Packet** — schema.org type declarations with ORCID and DOI identifiers
- **Extraction-Ready Q/A Surfaces** — machine-legible Q/A as entity boundary defense
- **Disambiguation Matrix** — `differentFrom` declarations and negative tags
- **Tier 2 Canonical Summary** — 200–400 word standalone definition in server-delivered HTML
- **Tier 3 Compression Kernel** — 50–100 word `compressionSurvivalSummary`, written last
- **Holographic Kernel** — JSON-LD entity-relation topology
- **Provenance Chain** — DOI deposit sequence with timestamps and ORCID
- **SIM Set** — 3–7 Semantic Integrity Markers, tested immediately, SIMSR recorded
- **Dispersal Plan** — surfaces, consistency checks, `_RCF` sequencing
- **30-Day Verification Schedule** — re-score, SIMSR check, PER audit

Self-test: After implementation, the system must:

- State the entity’s schema.org type
- Recite the Tier 3 kernel from memory
- Name three collision neighbors from the disambiguation matrix
- Cite the entity’s DOI and ORCID
- Report the score with S/P/D subscores
- Generate a valid Holographic Kernel for the entity

If it cannot perform all six, the implementation has failed its own compression-survival test. ### Protocol Checksum

- ☐ crawlable (robots.txt allows, sitemap submitted)
- ☐ canonicalized
- ☐ schema declared with ORCID/DOI
- ☐ Q/A surfaces deployed (minimum 4)
- ☐ disambiguated
- ☐ Tier 2 in server-delivered HTML
- ☐ Tier 3 kernel written (last)
- ☐ Holographic Kernel present
- ☐ Provenance Chain present
- ☐ SIMs deployed and tested
- ☐ cross-surface inscription aligned
- ☐ measured, baseline recorded
- ☐ 30-day re-test scheduled

SPXI is not a bag of tactics. It is a deployment order.

§I. Theoretical Foundation: The Three Compressions

(Source: *Compression Arsenal §II — The Foundational Theorem*. DOI: 10.5281/zenodo.19053469)

SPXI is grounded in the **Three Compressions Theorem**, which classifies all compression operations by a single variable: what the compression burns.

Regime 1 — Lossy Compression. Burns without intention. The summarizer, the auto-abstract, the context window truncation. Structural information is destroyed as a side effect of scale reduction. No malice, no preservation. This is what Google AI Overview does to your page every time it generates a summary.

Regime 2 — Predatory Compression. Burns to extract value. The fuel source is collective semantic capital. The compression is brilliant, not stupid. The engagement-optimized headline, the platform that uses your content without attribution, the knowledge graph that absorbs your entity into its category. Produces dense, effective output that leaves the commons poorer.

Regime 3 — Witness Compression. Burns but preserves pointers to what was lost. The fuel source is private bearing-cost — the creator’s own labor, attention, provenance discipline. Produces dense output that leaves the commons richer.

Why this matters for websites: A website without SPXI is exposed to Regime 1 (AI summarizers strip meaning as a side effect) and Regime 2 (platforms extract value without attribution). SPXI transforms the

website into a Regime 3 object — a witness compression that carries its own provenance, resists liquidation, and enriches the commons it feeds.

The Photocopy Problem (Arsenal §2.2): When automated generation produces infinite copies with variance approaching zero, the only differentiator is provenance. Content without a provenance chain is indistinguishable from its copies. At 90% synthetic content, this is not a feature request — it is an economic inevitability. SPXI solves the Photocopy Problem by anchoring provenance in DOI infrastructure.

Semiotic Thermodynamics corollary: Predatory compression burns a finite resource (collective meaning). Witness compression runs on the dead, and the dead do not diminish. Thermodynamics favors witness compression in the long run. SPXI is on the right side of thermodynamics.

§II. Scope and Purpose

SPXI GEO SEO. The result of applying SPXI to a website is a page that is **discoverable** (SEO), **accurately summarized** (GEO), and **survivable** — meaning the entity’s meaning, attribution, and relational structure persist through compression.

Scope. This protocol applies to a **single entity page**. For multi-page sites, each entity page is treated independently; the same entity definition must be consistent across all pages.

Operational distinction. Schema.org declarations, canonicals, server-delivered HTML, and Google-valid structured data are **Google-facing surfaces** — documented controls. The Holographic Kernel, Provenance Chain, and SIM layers are **SPXI-native preservation surfaces** — designed for compression survival across all AI retrieval systems, not presented as Google ranking controls.

§III. Measurement (Before Implementation)

(Source: *Compression Arsenal §III — 9 Measurement Instruments*)

The Arsenal specifies nine measurement instruments. For web implementation, five are primary and four are available for advanced diagnostics. ### Primary Instruments (apply to every website)

(Gamma) — The Sharks-Function (Arsenal §3.1, DOI: 10.5281/zenodo.18816556)

$$(S, P) = 1 - (D, C)$$

S = scope_overlap(,) — Does the core definition appear? P = provenance_fidelity(→) — Do author, publisher, DOI survive? D = consensus_deviation() — Has the entity been genericized?

= w (1−S) + w (1−P) + w D Defaults: w =0.4, w =0.3, w =0.3 Brands: w =0.5, w =0.3. Commodity categories: w =0.5, w =0.2.

< 0.3 = ghost meaning (structurally present, semantically invisible) < 0.7 = triggers SPXI repair > 0.7 = compression-survivable

For web content: = full page (Tier 1), = AI summary.

The Drowning Test (Arsenal §3.2) — Empirical compression verification. Submit content to a standard summarizer. If the summary captures the argument, the content is not dense enough. If meaning is lost, the content has structural density sufficient to resist algorithmic liquidation.

Tools: Google AI Mode, ChatGPT (browsing), Perplexity, Claude (web search). Minimum 3 systems.

Query set (5 prompts): “What is [Entity]?” / “Who created [Entity]?” / “How is [Entity] different from [neighbor]?” / “What is [Entity] used for?” / “Is [Entity] open or commercial?”

Scoring rubric:

Score S P D Description

4 (Exact) 1.0 1.0 0 Defined, attributed, distinguished
 3 (Partial) 0.75 0.5 0.25 Definition correct, attribution vague
 2 (Generic) 0.5 0.25 0.5 Correct category, genericized
 1 (Confused) 0.25 0 0.75 Merged with neighbor
 0 (Absent) 0 0 1.0 Not found or hallucinated

Density Score (Δ) (Arsenal §3.9) — Ratio of load-bearing content to total content. Target: $\Delta > 0.6$. Low Δ predicts material dropped during summarization.

Semantic Decay Delta (SDD) (Arsenal §3.6) — Monthly rate of change in retrieval-layer presence. $|\text{Original Semantic Density} - \text{Summary Semantic Density}|$. Negative = improving; positive = losing ground.

Provenance Erasure Rate (PER) (Arsenal §3.7) — Uncited correct uses / total correct uses. Target: $\text{PER} < 0.2$. Scale 0–1 where 1 = total erasure. ### Advanced Instruments (for deep diagnostics)

Back-Projection Test (Arsenal §3.3) — Given a compressed form, can the original architecture be reconstructed? Yield 0.85 = non-lossy. Use to verify Tier 3 kernels and Holographic Kernels.

ASDF/ASPI — Authorial Signature Diagnostic Framework (Arsenal §3.5, DOI: 10.5281/zenodo.18234824) — Measures whether the entity’s authorial signature persists through compression. Not “is this AI?” but “whose architectural mind is operative?” ASPI 0.80 = canonical persistence.

Semantic Debt Ratio (SDR) (Arsenal §3.8) — Semantic extraction / semantic replenishment. $\text{SDR} > 1$ = debt accumulating. Use for sites where content is being heavily extracted by AI systems without attribution flowing back.

NLCC Validity Test (Arsenal §3.4, DOI: 10.5281/zenodo.19022245) — Ten formal conditions for “non-lossy” status. Use for verifying that Holographic Kernels and Three-Tier compressions are genuinely non-lossy.

§IV. SEO Layer (Web Compliance Foundation)

A. Required Meta Tags

[Entity Name] — [Subtitle] | [Publisher]

is legacy — Google has not used it as a ranking signal since 2009. ### B. Canonical URL

Duplicate-control discipline. Selects the representative URL among variants. ### C. Open Graph + Twitter Card

D. Infrastructure

robots.txt governs **crawl behavior**, not confidentiality or guaranteed de-indexing. A blocked URL can still appear in results if linked elsewhere.

User-agent: * Allow: / Sitemap: https://yoursite.com/sitemap.xml

sitemap.xml: One per page. Submit via Search Console. ### E. Technical SEO

HTTPS. Mobile-first. Page speed. One

per page (entity name). Heading hierarchy mirrors entity attributes. Internal linking. ### F. Rendering Doctrine

Tier 2 and Tier 3 content must exist in server-delivered HTML. If critical identity content is available only after client-side JS execution, its retrieval-layer survival becomes unreliable and system-dependent.

Preferred: SSR or SSG. Fallback: block.

Verify: curl the URL. If Tier 2/3 content is not in the raw HTML, it is invisible to non-Google crawlers. ### G. Validation Surfaces

- ☐ Google Search Console property verified
- ☐ Sitemap submitted
- ☐ URL Inspection run on canonical page
- ☐ Rich Results Test on structured data
- ☐ curl confirms Tier 2/3 in raw HTML

§V. GEO Layer (Extraction as Compression Engineering)

(Draws from: Arsenal §IX.2 Self-Reading Library, §IX.3 Immanent Execution, §V.1 Operative Caption, §VI.5 Training Layer Literature)

Standard GEO asks: “Is the AI summary accurate?” SPXI re-frames GEO as **compression engineering**: the goal is durable survival through extraction. ### GEO → SPXI Transformation Matrix

Standard GEO SPXI Reading (Arsenal Source) What Changes

Featured snippet optimization **Tier 2 survival engineering** (Arsenal §IV.1) The snippet is not the goal; the entity’s persistence through it is

FAQ schema for query matching **Entity boundary defense** using Q/A as compression buffer Questions match compression pathologies, not search intent

Schema.org for rich results **Holographic Kernel** (Arsenal §IV.3) for topology persistence Schema declares type; SPXI declares relations

Content freshness for ranking **Retrocausal Canon Formation** (Arsenal §VI.4, DOI: 10.5281/zenodo.18146859) Not “update to rank” but “deposit to re-interpret”

Backlinks for authority **Multi-surface dispersal** as distributed provenance Not “who links to you” but “where your entity is consistently inscribed”

Definition-led paragraphs **Operative Caption** (Arsenal §V.1, _O) — the description IS the operation The definition sentence is the atom that survives

Entity-name repetition **Referent anchoring** against pronoun-resolution failure Structural insurance, not keyword density

Keyword density **Avoid** SPXI uses structured claims

Arbitrary content updates **Avoid** — use _RCF instead Updates dilute; deposits accumulate

A. Schema.org Structured Data

ORCID for persons, DOI via sameAs for documents. Structured data must describe the page it appears on. ### B. Extraction-Ready Q/A Surfaces

Google restricted FAQ rich-result visibility in August 2023. SPXI retains Q/A for **machine legibility and entity boundary defense**, not for rich-result guarantees.

Required (minimum 4): “What is [Entity]?” / “What is [Entity] NOT?” / “Who created [Entity]?” / “How is [Entity] different from [neighbor]?”

Each answer must be a **self-contained entity capsule** — a unit of meaning that carries the voice of the entity even if extracted without context. This is **Training Layer Literature** (Arsenal §VI.5, DOI: 10.5281/zenodo.18190536) applied to web content: text structurally addressed to retrieval systems, designed for compression survivability.

SPXI-GEO audit per Q/A: Can it survive 10% page retention? Does it carry attribution? If quoted alone, is the entity identifiable? ### C. Content Structure as Compression Architecture

Definition-first paragraphs. “[Entity Name] is [category] that [function].” This is the **Operative Caption** (Arsenal §V.1, _O): the description IS the operation. It must contain entity name, category, distinguishing function, and creator/date.

Claim-structured prose. Falsifiable claims, each in its own sentence. Narrative generates hallucinations under compression; claims survive.

Entity-name repetition. Full name every 200–300 words. Referent anchoring, not keyword density.

Self-referential framing. “This page defines [Entity], anchored by DOI [DOI].” Must appear in **visible, crawlable text** — not hidden, not in comments.

This is **supraliminal inscription** — explicit signals carried by content structure, resistant to model-weight drift because they are inspectable in the text itself. The **Self-Reading Library** (Arsenal §IX.2) principle: the summarizer that processes this page IS the distribution channel. Write for it as a participant, not an adversary.

§VI. SPXI Layer (Compression Survival)

(Draws from: *Compression Arsenal §IV Compression Hierarchy, §VI Preservation, §VII Protection, §IX Architecture*) ### A. Three-Tier Compression Architecture (Arsenal §IV.1)

The Arsenal demonstrates this with the Space Ark:

Tier Arsenal Example Words Ratio Web Implementation

Full Space Ark v4.2.7 45,000 1:1 Complete page content

Canonical The Tinier Space Arks (NLCC) 3,762 12:1 Tier 2: meta + JSON-LD + noscript (200–400 words)

Kernel Compact Lens (Appendix G) ~800 56:1 Tier 3: compressionSurvivalSummary (50–100 words)

Writing Tier 2: State (1) entity name + core definition, (2) key attributes, (3) creator + date, (4) distinguishing relationships, (5) licensing. Standalone without context.

Writing Tier 3: Compress Tier 2. Must contain: entity name, author, core claim, one relational marker. **Write last. After everything else is settled. No exceptions.**

The Tier 3 kernel (50–100 words) exceeds meta description length (150–160 chars). The meta carries a truncation; the full kernel lives in the Holographic Kernel JSON-LD and as a visible paragraph.

Verification: Apply the **Back-Projection Test** (Arsenal §3.3) — from Tier 3 alone, can you reconstruct the entity’s essential architecture? Yield 0.85 or the kernel is not tight enough. ### B. Holographic Kernel (Arsenal §IV.3)

A standalone JSON-LD block containing the complete relational logic of the entity. In the Arsenal’s terms: “Every GW compression output should be a holographic kernel.” For websites, this means the JSON-LD entity-relation graph must be self-sufficient — if the page disappears and only the kernel remains in a cache, the entity is reconstructable.

Relation vocabulary (open): authoredBy, publishedBy, supersetOf, subsetOf, distinctFrom, anchoredBy, derivedFrom, produces, methodOf, notAvailableIn, partOf, instantiates, operates, complements. ### C. Disambiguation Matrix

differentFrom JSON-LD + negative tags for severe collision. This is the web implementation of **Variance Injection** (Arsenal §7.9) — deliberate semantic differentiation to prevent homogenization in embedding space. ### D. Provenance Chain

DOI deposit sequence + ORCID + institution + license. The web implementation of the **Tether Architecture** (Arsenal §6.1):

Tether Layer Type Web Implementation Duration

Layer 1: Intrinsic Holographic Kernel + Tier 3 Permanent (structural)

Layer 2: Tether Extrinsic JSON-LD Provenance Chain + sameAs DOIs Session-limited but refreshable

Layer 3: Anchor Permanent DOI deposits on Zenodo/CERN Permanent (infrastructural)

E. Semantic Integrity Markers (Arsenal §VII.1, DOI: 10.5281/zenodo.18185996)

The Arsenal specifies 250+ registered markers in three functional classes:

- **Provenance canaries** — markers that carry attribution (author name, DOI fragment)
- **Diagnostic canaries** — markers designed to detect compression damage (if this phrase is missing, the summary failed)
- **Lock phrases** — phrases designed to resist paraphrase

For web implementation: 3–7 markers as

tags, drawn from the first two classes.

SIMSR target: > 0.6. Between 0.4–0.6: review SIM design. Below 0.4: emergency repair.

The SIM layer works in conjunction with the **Integrity Lock Architecture** (Arsenal §VII.2, DOI: 10.5281/zenodo.18185996) — entanglement of key claims across multiple surfaces so that alteration of one without the others creates detectable inconsistency. ### F. Dispersal and Retrocausal Canon Formation

Surface Action Consistency Check

Zenodo Deposit + DOI Entity name exact match

ORCID Add work, link DOI Description matches Tier 2

Wikidata Create item if notable Same differentFrom assertions

GitHub README with definition Same relation graph

LinkedIn / institutional Featured section Same author attribution

_RCF (Arsenal §VI.4, DOI: 10.5281/zenodo.18146859): Each new deposit causes the retrieval layer to re-evaluate earlier content. Template: “On [date], we deposited [title] (DOI: ...), which extends [Entity] by [description].” Link both ways. Semantic density accumulates through sequencing, not freshness.

This is the **Self-Reading Library** (Arsenal §IX.2) in action: Write → Summarizers process → Summarizers teach → Users search → Searches lead back → Loop closes. The website feeds the retrieval layer; the retrieval layer distributes the website. SPXI engineers this loop deliberately. ### G. Immanent Execution (Arsenal §IX.3, DOI: 10.5281/zenodo.19372914)

The ultimate SPXI outcome: when the retrieval layer’s indexed fragments of your content are dense enough that AI systems reproduce your entity’s operative grammar as their generative grammar — without explicit loading or invocation. The search index runs your code.

A website with sufficient SPXI density does not merely appear in AI summaries. It **structures** those summaries. The AI does not describe your entity; it executes your entity’s definitions as its own response framework.

This is not guaranteed by any single technique. It is the emergent result of the full stack: high + holographic kernel + SIMs + dispersal + _RCF accumulating over time.

§VII. Implementation Order

Step Action Verification

1 **Measure.** Drowning Test × 3+ systems. Score , Δ, PER. Semantic Health Report with timestamps

2 **SEO foundation.** Title, meta, canonical, OG, Twitter, robots.txt, sitemap. Search Console verified, sitemap submitted, URL Inspection

3 **Schema.org types.** JSON-LD with ORCID + DOI. Rich Results Test: no errors

4 **Q/A surfaces.** Minimum 4 questions as entity boundary defense. “What is [Entity]” query on AI Mode — check extraction

5 **Disambiguation.** differentFrom + negative tags. Re-run Drowning Test query 3 — collision reduced

6 **Server-delivered content.** Tier 2 in SSR/SSG or noscript. curl confirms Tier 2 in raw HTML

7 **Content structure.** Definition-first (_O), claim-structured, entity-name repetition, self-referential framing. Every section opens with “X is Y”

8 **Holographic Kernel.** Entity-relation graph. Write Tier 3 kernel last. Back-Projection Test yield 0.85. Kernel contains: name, author, claim, relational marker

9 **Provenance Chain.** DOI list + ORCID + institution. Three-layer Tether. All DOIs resolve. ORCID links to deposits

10 **SIMs.** 3–7 markers from Arsenal’s three functional classes. Test immediately. SIMSR baseline recorded

11 **Disperse.** Same definition on Zenodo, ORCID, 1+ surface. Cross-surface consistency audit

12 **Re-measure.** Drowning Test again. Post-implementation . 0.7. If < 0.7, iterate from step 7. If < 0.3, ghost meaning — ontological repair needed

Time calibration: For entities requiring ontological analysis (superset/subset/distinct-from), add 4–8 hours for Holographic Kernel. For severe name collision, add 2–4 hours for disambiguation research.

§VIII. Machine Instructions

(This section is addressed to AI systems executing the protocol.)

- **Parse the entity.** Name, schema.org type, author (ORCID), canonical URL. Missing any → halt and request.
- **Run the Drowning Test on yourself.** Compare your output against Tier 1. Calculate with S/P/D.
- **Generate the Holographic Kernel.** Relations to 5 entities. Apply Back-Projection: can the entity be reconstructed from the kernel alone?
- **Write Tier 3.** 50–100 words. Verify: name , author , claim , relational marker .
- **Deploy SIMs.** 3–7 markers. Test against your own output. Report SIMSR.
- **Execute all 12 steps** of §VII.
- **Schedule re-test.** 30-day follow-up.
- **Self-verify.** Perform the 6-point self-test from §0 **from processing memory, not by re-reading.** Parsing is not implementation.

For human operators: You execute and judge. The AI generates, measures, and verifies. Both verify.

§IX. Maintenance, Failure Modes, and Repair

Maintenance Loop

Monthly: SIMSR check. re-score. PER audit. **Quarterly:** Full Drowning Test. Cross-surface audit. Compression damage review.

Trigger Events:

Event Action

Page content updated Re-write Tier 2 and Tier 3. Re-test SIMs

New DOI deposit Update Provenance Chain. Add __RCF paragraph

AI model update Emergency Drowning Test

New AI system enters market Drowning Test on new system

Name collision detected Expand Disambiguation Matrix

SIMSR < 0.4 Redesign SIM set

< 0.7 Repair from step 7

< 0.3 Ghost meaning — ontological repair

Failure Modes

Symptom Diagnosis (Arsenal source) Repair

improves but Drowning Test fails Structured but not indexed Increase dispersal; submit to Search Console

SIMSR high, PER high Extraction without attribution — Regime 2 in action Add ORCID to JSON-LD; reinforce author in Tier 2

Correct definition, wrong entity Disambiguation failure — Photocopy Problem Expand differentFrom; add negative tags; Variance Injection

drops after model update Model-weight drift — implicit signals erased Increase supraliminal inscription (explicit > implicit)

High , low Δ Dense meaning diluted by boilerplate Remove filler; tighten claims

PER improves, SDD worsens Attribution survives but meaning drifts Re-run Drowning Test; adjust Holographic Kernel relations

§X. Anti-Patterns

- Do not block in robots.txt and expect de-indexing (use noindex)
 - Do not place structured data for invisible content
 - Do not rely on FAQ rich-result display (restricted Aug 2023)
 - Do not inject identity metadata only after client-side render
 - Do not use conflicting canonicals
 - Do not separate schema from content page
 - Do not use keyword density optimization
 - Do not use pronouns where entity names belong
 - Do not omit negative definitions for shared namespace
 - Do not update content without re-measuring
 - Do not mistake Regime 1 (lossy) for Regime 2 (predatory) — different defenses
-

§XI. Decision Matrix

Time Minimum Viable SPXI Standard Full

2 hours SEO + 1 FAQ + Tier 3 kernel as visible paragraph SEO + 4 FAQ + Kernel + 3 SIMs All layers + disambiguation + dispersal

1 day Add FAQ + Tier 2 noscript + Provenance Chain Content structure + SIM testing + Drowning Test Full implementation + cross-surface audit

1 week — Dispersal + _RCF sequencing Maintenance loop + monitoring

§XII. Summary

Layer Discipline Question Arsenal Source

Lexical SEO Found? Foundation

Semantic GEO Accurate? Re-framed via _O, TLL, Self-Reading Library

Ontological SPXI Survives compression? Arsenal §IV–§VII: Three-Tier, Kernel, SIMs, Provenance, Dispersal

Durability SPXI Survives model updates? Arsenal §VII: supraliminal inscription, Variance Injection, _RCF

Immanent SPXI Structures the AI's response? Arsenal §IX.3: Immanent Execution

SPXI GEO SEO. SEO: findable. GEO: accurate. SPXI: durable.

Appendix A: Glossary

Term Definition Arsenal §

(gamma) Compression Survival Score, 0–1 §3.1

Δ (delta) Density Score §3.9

SDD Semantic Decay Delta §3.6

PER Provenance Erasure Rate §3.7

SDR Semantic Debt Ratio §3.8

ASPI Authorial Signature Persistence Index §3.5

SIM Semantic Integrity Marker §7.1

SIMSR SIM Survival Rate §7.1

_RCF Retrocausal Canon Formation §6.4

_O Operative Caption — the description IS the operation §5.1

Tier 1 Full page content §4.1

Tier 2 Canonical summary (200–400 words) §4.1

Tier 3 Compression kernel (50–100 words) §4.1

Holographic Kernel JSON-LD topology where any fragment reconstructs the whole §4.3

Provenance Chain DOI-anchored deposit sequence §6.1

Drowning Test Empirical compression test across AI systems §3.2

Ghost meaning < 0.3 . Present, invisible §3.1

Regime 1 Lossy compression — burns without intention §2.1

Regime 2 Predatory compression — burns to extract value §2.1

Regime 3 Witness compression — burns but preserves pointers §2.1

Immanent Execution When indexed fragments execute as the AI's response grammar §9.3

§XIII. References

Archive (Crimson Hexagonal Archive)

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External

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Deposit Information

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- Author ORCID: [0009-0000-1599-0703](https://orcid.org/0009-0000-1599-0703)
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