

# Notoriety Arbitrage Informational Incentives in Violent Acts

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## ABSTRACT

Modern mass violence functions as an informational transaction driven by eroded local social bonds. The **1999 Informational Inflection** transformed temporary news cycles into permanent searchable digital archives. The **2012 Operational Saturation** weaponized algorithmic platforms to deliver those archives at global scale. Perpetrators engage in **Significance Arbitrage**. They trade a life offering zero localized meaning for an exponentially expanding digital legacy (*Visibility<sup>n</sup>*). The **Social Anchor**, the physical home group of family and community, once supplied the mechanical floor of meaning and stability. Its decay creates an immediate informational vacuum. Digital networks then capture the isolated individual and supply a ready-made violent script. Breaking this arbitrage requires structural interventions. This paper proposes two practical mechanisms. Anchor-Dense Zones (ADZs) are geographies designed to incentivize screen-free co-presence. Voluntary Transparency Standards (VTS) are market-driven protocols that demote perpetrator content and suppress notoriety yield. Together they restore localized Meaning Sovereignty and collapse the digital reward that sustains the cycle.

**Keywords:** Notoriety Arbitrage, Social Anchor, Visibility Pivot, 1999 Inflection, Digital Mycelium, Anchor Decay, Signal Jamming, Meaning Sovereignty, Becker Choice Model, Information Theory.

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## STATEMENT OF NECESSITY

**TO:** Oversight Committees, Educators, Families, and Holders of Public Trust

**RE:** The Structural Decay of Social Anchoring and the Rise of Significance Arbitrage

Mass violence is an informational transaction. Individuals with zero localized significance trade their physical life for permanent digital visibility. The 1999 digital archive made that transaction available to anyone. Family, community, and home (the primary group) once made the killing trade unthinkable. Social capital erosion between 1970 and 1990 weakened that group beyond the snapping point, allowing the digital network to replace it with a ready-made script of violence. Institutional responses still target the weapon. The weapon is merely the final step in a chain that begins years earlier. Only informational interventions can break the chain; hardware restrictions cannot. Restore the primary group as the physical anchor or the violence repeats. The digital archive does not expire. The script remains in the public domain, retrievable by anyone. The next actor in drift will find it.

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## 1. Glossary of Technical Terms

**Significance Arbitrage (Notoriety Arbitrage):** The economic execution where a subject trades a life of zero localized significance for a digital legacy of global visibility.

**Notoriety Yield:** The currency generated by the digital archive following an event. It is the target payout of the arbitrage trade.

**Meaning Sovereignty:** The reclamation of the authority to define significance by the physical home group rather than the digital network.

**The Social Anchor:** The primary local group (the physical home or community) that provides meaning and significance in the physical world.

**Anchor Decay:** The measurable erosion of social significance and belonging provided by the physical home group.

**The Drift:** The accelerating movement of human attention and meaning-discovery from physical reality into digital scripts.

**Total Drift:** A state where physical significance anchors are exhausted, leaving the subject susceptible to violent scripts.

**Operational Defaulting:** The adoption of the 1999 Script as the least-cost operational template for a subject with zero localized assets. The perpetrator adopts a private template for action rather than a public legacy instrument.

**Digital Mycelium:** The pervasive digital environment and social networks that carry high-velocity informational scripts.

**The 1999 Visibility Pivot:** The inflection point where localized tragedies accelerated their integration into permanent, global, and digitally archived datasets.

**The 1999 Informational Inflection:** The technical acceleration from temporary news cycles to permanent, searchable digital scripts, amplifying pre-existing mass media contagion dynamics.

**The 2012 Operational Saturation:** The point where algorithmic feeds and mobile ubiquity achieved dominance over human attention, completing the stage-2 acceleration of the 1999 mechanism.

**P-S-F Matrix:** The predictive vulnerability framework that conceptualizes anchor strength through Presence ratio, Story depth, and Filter frequency. Numerical thresholds function as model heuristics for future calibration.

**Glue-Drift Signature:** A linguistic pattern in functor distribution (I-word spike, we-word collapse, exclusive-word drop) indicating social isolation and anchor failure.

**Signal Jamming (Semantic Subversion):** The deliberate interference with the digital script by overpowering it with a localized hero-narrative.

**Proto-Signal Jamming:** The manual disruption of a dominant narrative before it achieves digital permanence.

**Macroprudential Yield Recalibration:** Market-based incentives or technical demotions reducing the notoriety-yield of violent acts.

**Anchor-Dense Zone (ADZ):** A physical geography structurally incentivizing screen-free co-presence to elevate Anchor Strength.

**Voluntary Transparency Standard (VTS):** A market-driven compliance protocol algorithmically demoting high-yield violent scripts with institutional safety certifications.

**Intermediary Liability Shields (e.g., Section 230, DSA):** Legal frameworks protecting digital networks from civil liability regarding user content, necessitating market-based deterrence.

**Semantic Passive SIGINT:** The deployment of anonymous NLP to detect macro-level linguistic drift (Glue-Drift) across digital networks.

## 2. Introduction: The 1999 Visibility Pivot

The digital archive executed an architectural phase transition in evolutionary social stability. Structural decay of social capital and primary-group anchors (family, community, etc.) emerged as a latent failure between 1970 and 1990 (Putnam, 2000; Hirschi, 1969). This vacuum established the readiness for the 1999 Visibility Pivot. The pivot attained the critical informational density required to trigger a phase transition in signal retention. This event Relocated human significance from the decaying physical home to the permanent digital screen. The 1999 event converted 20th-century analog contagion effects (Phillips, 1983) into stable, non-decaying operational scripts. The **2012 Operational Saturation** constitutes the stage-2 acceleration of the same mechanism, delivering the 1999 archive at algorithmic scale.

The mass casualty event at Columbine High School initiated the **1999 Informational Inflection**. Prior high-profile events, such as the Oklahoma City bombing (1995), operated within the Analog Contagion Regime (Phillips, 1983) — high-peak visibility signals that decayed within weeks. The 1999 transition marks the emergence of the permanent, non-decaying digital vector. The 1999 Inflection marks the moment existing digital infrastructure first archived a mass violence event at sufficient cultural density to generate a permanent emulative template. Peterson and Densley (2021) document the post-1999 quantitative surge in mission-oriented manifestos and fame-seeking staging; while the infrastructure was present, 1999 was the activation event validating the post-1999 architectural shift toward permanent digital archives.

### 3. Methodology: The Multi-Factorial Synthesis

Significance Arbitrage operates as a recursive feedback loop between localized Anchor Decay and digital Visibility. Visibility ( $V^n$ ) drives decay by out-competing physical co-presence for the subject’s attention. It serves as the final currency of the trade. Total Drift ( $A \rightarrow 0$ ) establishes the mechanical prerequisite for Significance Arbitrage. The 1999 Inflection acts as a non-linear accelerator on the visibility payout, transforming localized events into permanent global templates.

Following Becker (1968), the subject’s choice is a calculated trade of meaning. For a subject experiencing Anchor Decay ( $A \rightarrow 0$ ), the utility of a demonized global legacy ( $V$ ) mechanically outweighs the marginal cost of a physical life generating zero significance ( $C$ ). This rational-choice architecture governs the adoption of violent scripts.

To ensure empirical falsifiability, Significance Arbitrage defines its three categories through positive evidentiary markers rather than the absence of manifestos. A case must meet the positive diagnostic criteria of its category to be classified.

**Table 1.** Typological Decision Tree: Positive Evidentiary Standard

CATEGORY	PRIMARY METRIC	POSITIVE EVIDENTIARY MARKER
<b>Explicit Arbitrage</b>	Legacy Payout ( $V^n$ )	Documented intent for digital permanence (Manifesto, multimedia package, live-stream).
<b>Operational Defaulting</b>	Script Adherence	Positive “Scorekeeping” (metrics tracking) or tactical/aesthetic synchronization with the 1999 Script.
<b>Basal Grievance</b>	Vocational Path	Target is the direct source of interpersonal/vocational grievance. Zero legacy/script identification markers.

**Operational Defaulting** occurs when prolonged Total Drift forces the subject to adopt the institutional 1999 Script. The script functions as the least-cost operational template for an individual with zero localized assets. Adoption remains a calculated rational-choice maneuver within the Becker (1968) framework. Evidence for this category is derived from the positive markers in Table 1 (e.g., metric scorekeeping).

### 3.1 Paradigm Synthesis

Significance Arbitrage unites three theoretical pillars:

1. **Strain Theory:** Basal stressors and grievances provide the necessary fuel.
2. **Contagion & Differential Association:** Criminal behavior is learned via interaction (Sutherland, 1939). Digital visibility ( $V$ ) supplies the non-linear multiplier for emulative behavior and script adoption (Lankford, 2016).
3. **Routine Activity:** Anchor strength ( $A$ ) provides the capable guardianship of the informational self.

$V^n$  operates as the professionalizer. It converts a localized crisis into a global script of finality.

**Axiomatic Framework:** The P-S-F Matrix and Glue Semantics constitute the theoretical architecture of this paradigm. Within this model, Anchor Strength ( $A$ ) is operationalized through the **P-S-F Matrix**. The P-S-F instruments function as predictive vulnerability diagnostics, not real-time contagion trackers. At the point a triggering event activates the 13-day contagion window (Towers et al., 2015), the vulnerable subject's Anchor Decay is already complete. Total Drift precedes the contagion stimulus; it is the precondition, not the response:

1. **Presence (P):** The ratio of physical co-presence time.
2. **Story (S):** The localized hero-narrative value.
3. **Filter (F):** The active meaning-making frequency and linguistic composition.

### 3.2 Glue Semantics and the Linguistic Fingerprint

Following Pennebaker (2011), “glue words” (functors), including pronouns, prepositions, and articles, serve as a primary linguistic indicator of everyday social isolation. Content words, nouns and verbs, carry the consciously constructed manifesto script. Functors are processed unconsciously, functioning as a real-time thermometer for the subject’s social containment.

The **Glue-Drift Signature** isolates this failure:

- **I-word Spike:** Signals pathological self-focus and social isolation.
- **We-word Collapse:** Signals the exhaustion of primary-group anchoring.
- **Exclusive-word (but, without) Drop:** Signals cognitive simplification and the transition to binary violent scripts.

This structural word distribution organizes the cognitive state prior to action. It binds the private grievance to the institutional target.

### 3.3 Theorem 1: The Hardware-Agnostic Corollary

Since Significance Arbitrage is driven by the mandate of the informational payout ( $V^n$ ), hardware is a secondary operational variable. The subject selects the hardware that provides the least-cost path to the informational yield. Hardware substitution is inherently geography-dependent; the subject recalibrates the trade to the next high-efficiency instrument permitted by local constraints. This proves the primacy of the informational script over the operational tool.

While physical weapon access remains a necessary baseline condition, the corollary is supported by the persistence of mass violence across diverse hardware regimes (knives, vehicles, arson, explosives) when the informational architecture for  $V^n$  is present. The *Visibility* multiplier ( $M$ ) (Lankford, 2016) operates as the primary latent accelerator, providing the script of finality regardless of the tool.

## 4. Counter-Measures: Signal Jamming and ADZs

Strategic restoration requires the civil rebuilding of the Social Anchor, not state censorship. **Signal Jamming** executes the semantic subversion of the digital script. It is the mechanical reclamation of Meaning Sovereignty by the physical home. It re-establishes the localized hero-narrative as a higher-yield asset than the archived digital script.

### 4.1 Macroprudential Yield Recalibration

Market-based incentives (liability and tax constraints) target platforms that monetize notoriety-yield. Suppressing the algorithmic profitability of perpetrator-centric content forces an automated recalibration of the visibility market, collapsing the utility of the act ( $V$ ). High-friction reporting norms (e.g., in Sweden and Japan) function as **Proto-Signal Jamming**, explicitly providing the operational blueprints for VTS feasibility. While these precedents lack aggregated efficacy statistics, they demonstrate the structural viability of early-narrative disruption.

## 5. Structural Counter-Measures

To transition the Significance Arbitrage model from theory to active deterrence, we propose three structural counter-measures. These confront measurement scalability, legal frictions (intermediary liability), and pre-event detection. These proposals lack empirical pilot data, cost-benefit modeling, or quantitative efficacy validation, and function as theoretical paradigms.

### 5.1 Anchor-Dense Zones (ADZs)

The P-S-F Matrix (Presence-Story-Filter) operationalizes individual-level anchoring. Scaling to population-level auditing raises authoritarian optics. The proposed counter-measure is the deployment of **Anchor-Dense Zones (ADZs)** in municipal planning. These are physical geographies (parks, community centers) where screen-free co-presence would be structurally incentivized through local tax rebates. Meaning sovereignty is generated voluntarily through environment design, bypassing mass surveillance.

### 5.2 Voluntary Transparency Standards (VTS)

Taxing notoriety yield is legally prohibited in the U.S. and EU due to intermediary liability protections (Section 230 and the DSA). The proposed counter-measure is a market-driven **Voluntary Transparency Standard (VTS)**. Platforms adopting demotion-weights for perpetrator manifestos and high-friction reporting norms would be awarded an Anchor Safety Certification. This routes institutional ESG investment flows away from high-yield script propagators, establishing structural deterrence without requiring new censorship statutes. The procedural blueprint for this protocol was evidenced in **R. v. Minassian (2021)**, where Justice Anne Molloy referred to the perpetrator only as “John Doe,” demonstrating an institutional willingness to deny the notoriety yield by judicial decree. The civic precedent for this protocol exists: the **No Notoriety** movement (No Notoriety, 2013), founded by Caren and Tom Teves, advocates for media outlets to withhold perpetrator names and likenesses, collapsing the notoriety yield at the point of publication.

### 5.3 Semantic Passive SIGINT

To detect catastrophic intent before the architectural inflection, platforms adopting VTS integrate anonymous semantic filtering. This does not involve individual, identity-based surveillance. It is the identification of macro-level linguistic drift (the Glue-Drift Signature) within specific digital mycelium geographies to provide early warning of widespread Anchor Decay.

## 6. Anticipated Objections (Rebuttal Annex)

The Significance Arbitrage framework addresses three primary theoretical critiques:

### 6.1 The Predestination (Psychopathy) Objection

The critique asserts that subjects in Total Drift are Clinically Predestined by psychopathology, making informational architecture irrelevant.

**Rebuttal:** Clinical prevalence rates of psychopathology are biologically stable constants. If pathology were the primary driver, event frequency would track with population prevalence. Longitudinal data from Peterson and Densley (2021) demonstrate that nearly 50% of mass shootings since 1966 occurred post-2008, a surge that violates the stable-pathology hypothesis. The 0.30 multiplier identified by Towers et al. (2015) further distinguishes the informational contagion vector from baseline clinical predestination.

### 6.2 The Werther (Analog) Redundancy Objection

The critique asserts that our model is a rebranding of the Phillips (1983) Werther Effect.

**Rebuttal:** The Phillips (1983) effect is an analog contagion vector with a measurable 13-day decay constant. Significance Arbitrage identifies a **qualitatively different** digital archival vector ( $V^n$ ) that abolishes the signal decay coefficient, making the 1999 Script permanently available to subjects in Total Drift.

### 6.3 The Correlation vs. Causation (Signal Archiving) Objection

The critique, following ?, asserts that correlation between news coverage and event frequency does not prove causation, particularly when short-term contagion coefficients exhibit inconsistency.

**Rebuttal:** The correlation-only hypothesis relies on the Analog Contagion Regime (temporary news spikes). Significance Arbitrage is driven by the **1999 Informational Inflection**, which fundamentally transitioned the signal from a decaying broadcast to a permanent, searchable, and mimetic digital script. The causal vector is not the transitory news report, but the permanent availability of the violent script as a high-yield legacy instrument. The 1999 archive provides the non-decaying payload that persists after the temporary "news cycle" expires.

### 6.4 The Hardware Primacy Objection

The critique asserts that high-capacity weaponry is the prerequisite for the visibility trade.

**Rebuttal:** Hardware is an efficiency tool. As outlined in the Hardware-Agnostic Corollary (Section 3.3), the script mandates the yield ( $V^n$ ); the subject optimizes the trade within geographic constraints. High-frequency notoriety-driven vehicle attacks (e.g., Toronto 2018), judicially confirmed as notoriety-primary events in **R. v. Minassian (2021)**, as well as knife-based Explicit Arbitrage (e.g., Sagamihara 2016), demonstrate that the informational mandate persists when specific hardware channels are restricted.

## 7. Conclusion

The 1999 Visibility Pivot initiated an accelerating divergence from social stability. Contagion is empirically confirmed: Towers et al. (2015) measured a statistically significant increase of 0.30 new mass killing incidents per triggering event ( $p=0.0015$ ) within a 13-day window. The 1999 Inflection establishes the mechanical prerequisite for Significance Arbitrage: signal decay abolishes. The Informational Inflection stabilizes the violent script within a permanent digital mycelium. The architecture weaponized the proven effect. Weapon access and baseline mental health provide the necessary floor conditions; the informational architecture provides the decisive vector for global mimesis. Restoring the social floor requires the structural reclamation of the localized Social Anchor. The physical world must remain more significant than the digital script. This is the mechanical prerequisite for downstream policy. When the localized physical story regains higher utility than the archived digital legacy, the Significance Arbitrage mechanism collapses: the marginal cost of trading a life of zero significance for expanding visibility exceeds the perceived benefit.

## References

- Becker, G. S. (1968). Crime and punishment: An economic approach. *Journal of Political Economy*, 76(2):169–217.
- Hirschi, T. (1969). *Causes of delinquency*. University of California Press.
- Lankford, A. (2016). Fame-seeking rampage shooters: Initial findings and empirical predictions. *Aggression and Violent Behavior*, 27:122–129.
- Larkin, R. W. (2007). *Comprehending Columbine*. Temple University Press.
- No Notoriety (2013). No notoriety: A protocol for responsible media coverage of mass killings. <https://nonotoriety.com>. Founded by Tom and Caren Teves following the Aurora, Colorado mass shooting.
- Pennebaker, J. W. (2011). *The secret life of pronouns: What our words say about us*. Bloomsbury Publishing USA.
- Peterson, J. and Densley, J. (2021). *The violence project: How to stop a mass shooting epidemic*. Abrams.
- Phillips, D. P. (1983). The impact of mass media violence on us homicides. *American Sociological Review*, pages 560–568.
- Putnam, R. D. (2000). *Bowling alone: The collapse and revival of American community*. Simon and Schuster.
- Sutherland, E. H. (1939). *Principles of criminology*. Lippincott.
- Towers, S., Gomez-Lievano, A., Khan, M., Mubayi, A., and Castillo-Chavez, C. (2015). Contagion in mass killings and school shootings. *PLOS ONE*, 10(7):e0117259.

## A. Appendix A: Conceptualizing the P-S-F Matrix

The P-S-F Matrix proposes a heuristic to conceptualize the structural integrity of the Social Anchor. The following numerical thresholds function as **theoretical limit-tests** for model stress-testing and provide the baseline for future Glue-Drift NLP calibration. An individual subject is tethered to physical reality by three structural metrics within this model.

**Presence Ratio (Pr): Time Together.** The ratio of physical co-presence hours to screen hours.

If a subject consumes ten hours of digital input for every one hour of physical interaction ( $Pr < 0.1$ ), the primary tether is severed. Model Target:  $Pr > 0.5$ .

**Narrative Depth (Nd): Real-World Importance.** The number of localized significance anchors (e.g., a critical job role, community responsibility, or familial duty). A subject with zero real-world utility ( $Nd < 1$ ) loses their secondary tether. Model Target:  $Nd \geq 2$ .

**Filter Frequency (Ff): Talking It Out.** The weekly frequency of actively processing digital inputs with the physical home group. If a subject exclusively processes high-velocity digital scripts in isolation ( $Ff = 0$ ), the final tether is broken. Model Target:  $Ff \geq 3$ .

**Linguistic Drift ( $L_{\Delta}$ ):** The trailing indicator of severed tethers. The ratio of isolation pronouns (I/me) to collective pronouns (we/us) used in communication. Model Critical Threshold:  $L_{\Delta} > 5.0$ .

A subject with  $Pr < 0.2$ ,  $Nd < 1$ ,  $Ff = 0$  exists, within this paradigm, in a state of **Total Drift**. The exhaustion of localized meaning initiates acute vulnerability to violent digital mimesis. These specific thresholds function as theoretical limit-tests for future calibration through Glue-Drift NLP validation.

## B. Appendix B: Historical Case Mapping (1999–2025)

This table provides an illustrative qualitative mapping based on public reporting. It isolates specific historical incidents to demonstrate how the mechanics of Significance Arbitrage align across diverse hardware regimes, national jurisdictions, and political ideologies. Classifications are derived from settled public-record evidence.

Incident	Visibility Payload / Causal Type
—	<b>Explicit Arbitrage</b>
Columbine (1999)	First archived multimedia script; manifesto-driven.
Erfurt (2002)	Early adoption of the school-attacker script as digital legacy.
Virginia Tech (2007)	Multimedia package sent to NBC News during event.
Utøya (2011)	1,518-page manifesto distributed digitally.
Aurora (2012)	High theatricality; mass-media performance over physical reality.
Isla Vista (2014)	YouTube video manifesto; explicit intent for legacy.
Munich (2016)	Explicit obsession with Breivik/Columbine templates.
Parkland (2018)	Cellphone videos of intent; digital "performance."
Christchurch (2019)	High-fidelity live feed; gamified script.
Buffalo (2022)	Twitch live-stream; 180-page manifesto.
Uvalde (2022)	Real-time digital broadcasting of intent; total anchor collapse.
Nashville (2023)	Ideological agnosticism; multi-volume manifesto engineered for legacy.
Prague (2023)	Telegram "diary" of intent; script-aligned visibility.
Toronto (2018)	Vehicle-based adoption of "Incel" script; judicially confirmed as primary notoriety-seeking event (Molloy, 2021).
Sagamihara (2016)	Knife-based Explicit Arbitrage (noted parliamentary manifesto).
—	<b>Operational Defaulting</b>
Sandy Hook (2012)	Total Anchor Decay. Script adoption validated by Adam Lanza's documented, exhaustive scorekeeping of historical attacker metrics (e.g., casualties per minute), identifying with the professionalized script as a private operational template rather than a public legacy instrument.
—	<b>Basal Grievance</b>
Wuxi (2024)	Localized vocational stabbing (pay/exam dispute).
Orlando (2017, Fiamma Inc.)	Localized workplace massacre (vocational dispute).

## C. Appendix C: Falsification Experiments (Proposed)

The Significance Arbitrage architecture requires empirical falsifiability. Operational doctrine cannot rely on unfalsifiable sociology. The structural mechanics outlined in this paper are broken if a geography with near-zero digital penetration and high localized anchoring generates a statistically significant surge in notoriety-seeking Explicit Arbitrage. Conversely, the mechanism is supported if a geography with high hardware accessibility, extreme digital penetration, but active macroprudential demolition of notoriety yield (Signal Jamming) exhibits a collapse in copycat scripts.

The following three theoretical test-vectors are proposed for future Oversight auditing:

**ADZ Cohort Contrast:** Compare Explicit Arbitrage frequencies between ADZ-incentivized municipalities and unanchored control cities with identical digital penetration.

**Hardware Primacy Test:** Compare two geographies with identical hardware accessibility (equal firearms availability) but disparate notoriety suppression protocols (Signal Jamming). If hardware is the primary causal driver, violence rates will remain identical; if Significance Arbitrage holds, the geography with active notoriety suppression will exhibit a collapse in event frequency.

**Glue-Drift Validation:** Retrospective NLP analysis of all available historical shooter communications to empirically measure functor collapse along the timeline of localized Anchor Decay.

## D. Appendix D: Isotropic Verification Audit

This appendix maps every operative claim within the Significance Arbitrage thesis. Claims are categorized by their **Structural Severity**: the degree to which the overarching architecture is compromised if the specific claim is falsified. Each section below is treated as an inseparable block to ensure internal consistency.

### D.1 Foundation: Critical Claims (Architectural Determinants)

These claims form the bedrock of the framework. Falsification of any single entry in this table would necessitate a total architectural pivot.

Claim	Severity	Justification / Verification Source
<b>Informational Primacy Hypothesis</b>	CRITICAL	Pathology is a biological constant; hardware accessibility is geographic. Only the informational vector (Visibility) scales with the observed non-linear acceleration post-1999.
<b>The 1999 Phase Transition</b>	CRITICAL	Peterson and Densley (2021) document the post-1999 surge in manifesto production and fame-seeking. Distinguishes the 1999 digital floor from prior analog contagion events (e.g., Oklahoma City 1995).
<b>Significance Arbitrage Trade</b>	CRITICAL	Extension of Becker (1968) rational-choice model. Verified by positive evidentiary markers: metric-tracking and global legacy production.
<b>Anchor Decay as Prerequisite</b>	CRITICAL	Putnam (2000) and Hirschi (1969) document the structural erosion of physical social capital. These sources establish the macro-structural preconditions for Anchor Decay; individual-level operationalization is the function of the P-S-F Matrix (Appendix A). The citations support the environmental floor, not the perpetrator-level mechanism.

## D.2 Operational: High-Severity Claims (Mechanisms)

These claims define how the arbitrage trade is executed. They are empirically anchored and falsifiable through direct observation.

Claim	Severity	Justification / Verification Source
<b>Hardware-Agnostic Corollary</b>	HIGH	R. v. Minassian (2021) — judicial finding of notoriety-seeking motive. Persistence of events across regimes where informational yield ( $V^n$ ) remains achievable.
<b>P-S-F Matrix Accuracy</b>	HIGH	Theoretical limit-testing (Appendix A). Verified by "Total Drift" diagnostic threshold ( $\Pr \downarrow 0.2, Nd \downarrow 1, Ff = 0$ ).
<b>Glue-Drift Signature</b>	HIGH	Pennebaker (2011). Unconscious functor distribution (I-words vs. We-words) provides a thermal check of social isolation more reliable than conscious manifesto content.

## D.3 Prescriptive: Medium-Severity Claims (Solutions)

These proposals define the counter-measure feasibility. Their severity reflects the experimental nature of the solution architecture.

Claim	Severity	Justification / Verification Source
<b>Signal Jamming Efficacy</b>	MEDIUM	No Notoriety (2013) movement and successful historical norms (Japan/Sweden). Falsifiable via the Hardware Primacy Test (Appendix C).
<b>VTS Market Implementation</b>	MEDIUM	Procedural precedent: R. v. Minassian (2021) "John Doe" protocol for notoriety denial. Institutional ESG/liability frameworks can collapse yield without state censorship.
<b>ADZ Restoration</b>	MEDIUM	Theoretical municipal paradigm. Falsifiable via ADZ Cohort Contrast experiment (Appendix C). Requires pilot data for validation.

#### D.4 Supportive: Low-Severity Claims (Contextual)

Interpretive markers that provide necessary context but do not comprise the core causal logic.

Claim	Severity	Justification / Verification Source
<b>2012 Operational Saturation</b>	LOW	Timing of algorithmic feed dominance and mobile ubiquity. Functions as Stage-2 acceleration.
<b>13-Day Contagion Window</b>	LOW	Towers et al. (2015). Validates the existence of the background analog contagion constant (Phillips, 1983).
<b>Operational Defaulting</b>	LOW	Sandy Hook (2012) - Adam Lanza cases. Explains script synchronization in the absence of explicit, forward-facing manifestos.