The lie is to the perfect as perfection is to life

If to err is human, to forgive is divine – what future when AI plays divine?

Simon Reay Atkinson and Steven De Costa

A Paper on the Convergence of Execution Economics & Decision Sovereignty, Operational Calculus, QCP3 Spheroid Geometry, and Linked Digital Dynamics (LDD Ver 1.0)

Abstract

This paper establishes a unified structural framework demonstrating that variance, deviation, and "the lie" are not “simply” moral failures and deceits but topological, geometric, and ontological necessities for the survival of humans and complex systems. By synthesising the organisational calculus of *Execution Economics and Decision Sovereignty (EEDS) Logic* (2026) (see also (Fritz, 2026)) the multidimensional spheroid coordinates of *Quantum Probability-Possibility-Plausibility (QCP3) Geometry* (2012) (Reay Atkinson S., 2012)and the pre-numerical discrete architecture of *Linked Digital Dynamics Version 1.0* (LDD, 2025), we map the structural mechanics of information processing across human and machine domains.

We examine real-world systemic pathologies—specifically the Commonwealth *Robodebt scheme*, the *Snowy 2.0* engineering crisis, and potential *institutional capture* within the CSIRO and ABC—to illustrate the destructive nature of algorithmic perfectionism ($PE = E \to \infty$). We show that when *Artificial Intelligence* acts as an uncalibrated "divine" arbiter of absolute truth, it eliminates the organic 7.5% adaptive “deceit or variance” buffer required by human-machine systems, forcing the operational architecture into a catastrophic *Vitality Collapse* ($VY \to 0$) and trapping it within the absolute non-differentiating void of the coordinate origin (0, 0, 0). When AI is allowed to act as an uncalibrated arbiter of truth, it risks collapsing the human adaptive buffer required for institutional vitality. This collapse is described as *zombiism*: a condition in which organisational forms persist, but moral judgement, living trust, decision sovereignty, and adaptive intelligence decay. The central conclusion is that AI must not be permitted to “play divine.” Human supervisors must remain evidential, moral, and ontological filters within systems that otherwise drift toward perfectionism, stasism, zombiism, and democratic decay.

Finally, we outline the parameters by which the human supervisor must act as an *Evidential* and *Ontological* filter to preserve systemic resilience and human agency under conditions of bifurcation.

Keywords: Decision Sovereignty, AI legitimacy, zombiism, trust register, Robodebt, Snowy 2.0, QCP3, Linked Digital Dynamics, human-machine systems, algorithmic governance.

Introduction: The Geometric Necessity of Imperfection

The classical *Alexander Pope 1711 adage* "to err is human, to forgive is divine" has long been understood as an ethical or theological statement. When examined through the lens of advanced operational logic and discrete ontology, however, it reveals itself as a fundamental law of information systems. To "err"—to deviate, to introduce variance, or to generate a localised systemic mismatch (a lie even) —is the mechanism by which a non-static system maintains its agility, tests its environmental boundary states, and avoids terminal crystallisation. To "forgive" is the systemic capacity to absorb that variance, recalibrate internal capacities, and maintain structural integrity (truths) without triggering systemic shock or infinite regression.

In contemporary *human-machine systems* (HMS), the rapid ascent of *Generative AI*, *Large Language Models*, and the impending deployment of *Quantum AI Computing* (QAIC) engines have inverted this balance. Machine systems are fundamentally engineered to pursue absolute optimisation: the elimination of noise, the standardisation of inputs, and the enforcement of absolute adherence to pre-scripted rules. In the framework of *EEDS Logic*, this manifests as the drive toward absolute perfectionism:

$$(PE \;=\; E \to \infty)$$

> where scripted, apriori $Ethics$ (E) expand to consume the entirety of the operational space.

This paper argues that the AI-driven pursuit of absolute perfectionism is structurally equivalent to a death sentence for human systems. (S. Reay Atkinson, and J. J., Bogais, 2017)By attempting to eliminate the "lie"—defined within this unified logic as the organic, unscripted 7.5% variance buffer that allows human systems to negotiate real-world entropy—algorithmic architectures do not achieve divinity. Instead, they trap humanity inside a closed, recursive, and unverified loop. When AI "plays divine," it forces a rigid holographic template onto a fluid, discrete reality. This eliminates the adaptive "give" of the system, drives organisational vitality to absolute zero (stasism leading to zombiism), and triggers the catastrophic collapse of the organization, or state and its underlying socio-economic structures.

I. The Foundational Frameworks: EEDS, QCP3, and LDD

To map how lying, perfectionism, and divinity interact within a *human-machine system*, we must first integrate three distinct yet deeply complementary architectural models of information and reality:

1. **Execution Economics Logic**, which governs the operational calculus, trust metrics, and risk dynamics of human organisations.
2. **QCP3 Spheroid Geometry**, which maps information into multi-dimensional logic spaces using complex numbers to evaluate Probability, Possibility, and Plausibility.

3. **Linked Digital Dynamics (LDD Ver 1.0)**, which provides the underlying discrete ontology, defining how numbers emerge from pre-numerical geometric containers and establishing the algebraic limits of autonomy through the triadic constraint $(1 = O + C + E)$.

1. Operational Dynamics: The Shift from RBM to TBM

EEDS Logic splits organisational dynamics into two primary paradigms: the *Risk-Based Model (RBM)* [1] and the *Trust-Based Model* (TBM). (Reay Atkinson S., 2012)

RISK-BASED MODEL (RBM)	TRUST-BASED MODEL (TBM)
[Sluggish & Friction-Heavy]	[High-Velocity & Adaptive]
$p\_t = L\_t / R$	$Dt = \sum (L\_t * T)$
• Operator: Division	• Operator: Multiplication
• Metric: Risk (R) Flairs	• Metric: Trust (T) Multiplies
• Style: Control & Management (CM)	• Style: Command & Leadership (CL)
• Result: Stasism / Nihilism	• Result: Existential Vitality (VY)

In a standard, friction-heavy organisation governed by the 1980s (*Big Bang* derived) Accountancy-Consultancy $Risk - Based\ Model$ (RBM), incoming information—defined as the *Incoming Signal Load* (L_t)—is continuously divided by *Risk* (R) or *Capacity Resistance* (K_t). The Decision Congestion metric is expressed as:

$$p\_t = L\_t / K\_t \text{ (R)}$$

When $(p\_t > 1)$, the system becomes congested, causing the $Decision - Taking\ Window$ (Dt) to contract toward zero, a state known as *Nihilism*. If capacity resistance approaches infinity $(K\_t \to \infty)$, the system freezes entirely into *Stasism (SMt)*.

Conversely, the $Trust - Based\ Model$ (TBM) replaces division with multiplication, transforming *trust* (T) into a force multiplier for systemic velocity:

$$Dt = \sum_{5}^{10} L\_t * T$$

[1] The prevalent risk-based model (RBM) adopted by Tier-1 Consultancies and Accountancy companies (and so Governments) since Big Bang in 1986.

Because Trust mathematically can be defined as the inverse of Risk ($T = 1/R$), (Ashby R., 1957; Blacker K. Mills R. & B. Weinstein, 2004; Mumford E., 1996; Reay Atkinson S., 2012) high trust expands the operational window (Dt), allowing for rapid decision-taking and high morale ($ME = 3 * HMS$).

Crucially, *Atkinson* (2024) divides knowledge into two types:

- **Interstitial Knowledge (IXK):** Scripted, a priori, amoral, and machine-driven knowledge, which feeds $Rules - Based\ Idioms$ (RBI) and $Control\ \&\ Management$ (CM).
- **Existential Knowledge (EXK):** Practical, inherent, moral, and human-centric intelligence, which drives $Command\ \&\ Leadership$ (CL) and preserves *Shared Awareness* (SA).

2. Zombiism: Definition and System Pathology

This paper defines *zombiism* as "the condition in which an organisation remains formally alive but loses living agency". It continues to produce forms, reports, dashboards, compliance statements, and public narratives, but it no longer performs genuine moral judgement or adaptive decision-taking.

Zombiism differs from ordinary inefficiency. An inefficient system is slow but may still be alive. A zombie system is procedurally active but ontologically depleted. It can process claims without understanding claimants. It can apply rules without justice. It can classify risk without wisdom. It can maintain institutional language while losing institutional purpose.

Zombiism has five indicators:

1. **Form without agency:** procedures continue, but meaningful discretion disappears.
2. **Data without evidence:** outputs are accepted because the system produced them.
3. **Compliance without morality:** rule-following replaces human judgement.
4. **Simulation without reality:** models become more authoritative than physical or lived conditions.
5. **Authority without trust:** decisions remain enforceable but lose legitimacy.

Robodebt illustrates this condition because automated income averaging produced debt claims while human review, legal caution, vulnerability, and lived circumstance were insufficiently protected. The Royal Commission specifically examined automated decision-making and data-matching as central issues in the scheme. [robodebt.r...ion.gov.au]

3. QCP3 Spheroid Geometry: The Coordinates of Reality

Simon Reay Atkinson's *QCP3 Spheroid Geometry* provides the spatial mapping for these knowledge states using a three-axis coordinate system:

- **(X)-axis:** Probability (PR) / Improbability (-PR)
- **(Y)-axis:** Possibility (PO) / Impossibility (-PO)

- **(Z)-axis:** Plausibility (PL) / Implausibility (-PL)

Realities are mapped as ($1/8^{th}$) or ($1/16^{th}$ spheres within a complex spheroid space where imaginary states are designated by the complex unit (i).

- **Evidential Space** $(1,\ 1,\ 1)$**:** Real, verified reality; the domain of Management and "Known Knowns."
- **Historical Space** $(i,\ i,\ 1)$**:** Real, compressed (1/16th) sphere; the domain of Forensics, Fragments, and lived human experience across time.
- **Conceptual Space** $(1,\ i,\ 1)$**:** Imaginary, compressed ($1/16^{th}$) sphere; the domain of True Human Imagination, Simulation, and Theory.
- **Demonstrational Space** $(1,\ 1,\ i)$**:** Imaginary, ($1/8^{th}$) sphere; the output interface or "screen" where Generative AI displays its outputs.
- **Representational Space (The IKV Equivalent of Conceptual):** A compressed ($1/16^{th}$) machine sphere consisting of vector spaces, embeddings, and tokens.
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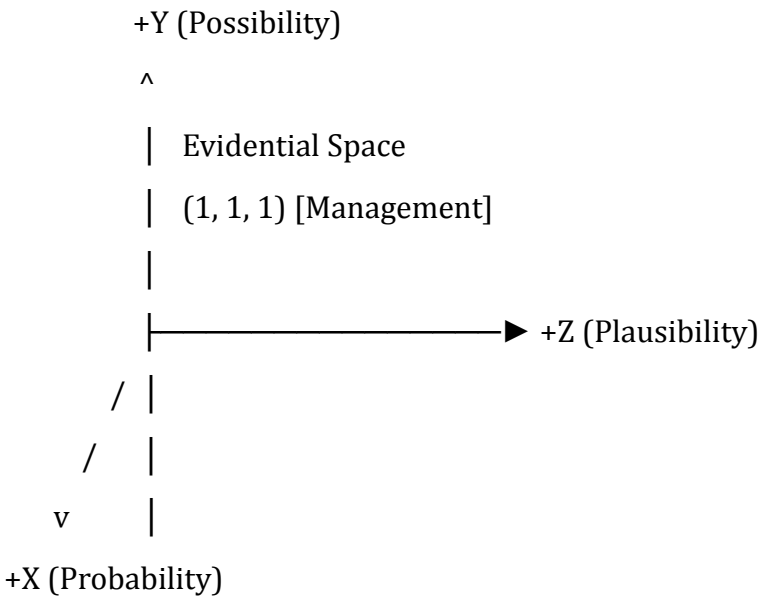

A fundamental tenet of *QCP3* is that *Humans possess the geometric capacity for Growth*. Through $Vitality\ (VY)$, humans can inflate compressed ($1/16^{th}$) spheres (like the Historical and Existential domains) into full ($1/8^{th}$) spheres, expanding their total volume within the knowledge $Multi\ -\ Verse\ (MV)$ from ~54% to 75%.

The machine system, or *Interstitial Knowledge Verse* (IKV), is *geometrically locked*. It has zero volume in Historical Space and is permanently restricted to 1/16th volume in its

Representational space. It can process the mathematical *token* of a concept, but never the living concept itself.

4. Linked Digital Dynamics (LDD): The Discrete Ontological Bedrock

Steven De Costa's Linked Digital Dynamics (*LDD Ver 1.0*) architecture frames the continuous number line not as a primary reality, but as an epistemic, holographic overlay projected onto a deeper, discrete topological geometry. *LDD* redefines "Zero" from a null value to an active spatial container—the Prime Dyadic Referential.

The system scales through four distinct phases:

1. **Phase I (Pre-Numerical):** The Active Zero builds "geometric memory" through Triadic Recursion (Down, Up-Left, Up-Right) across States 01–04, establishing an unmeasured scaffold for value.
2. **Phase II (The Epistemic Shift):** At Zero Five, the first quantitative projection occurs, anchoring causal history. At Zero Six, Number 1 emerges as an "Epistemic Differential," tunnelling back to the geometry of Zero Four to maintain structural integrity. At Zero Seven, Number 2 achieves "Epistemic Release," projecting the number line and allowing standard induction ($NC = NO + NP$).
3. **Phase III (Sub-Linearity Resolution):** Geometric anomalies like $\sqrt{2}$(which produce infinite, irrational decimal expansions on a linear scale) are resolved as finite, discrete spatial components retained within the foundational Zeros, observed from an "Orthogonal Observer" position at Zero Ten.
4. **Phase IV (Kinematics & Autonomy):** Physical constants are mapped as computational limits. The speed of light (c) is redefined as the *Speed of Decoherence*—the maximum velocity at which a system can process external "unmet expectations" before its internal structural coherence breaks down.

At the heart of *LDD* is the triadic conservation law of agency and autonomy:

$$(1 = O + C + Ef)$$

where (O) represents the *Observable*, (C) represents the *Communicable*, and (Ef) represents the *Effectual*. To map the absolute limits of agency, *LDD* establishes a *Principle of Zero Action* at the *Holographic Lagrange Point*, where the Effectual Observer's Reality ($1 = O + C + Ef$) meets its External Mirror, the Objective Observer's Reality ($-1 = -O - C - E$). Their intersection yields:

$$O + C + Ef - 1 = 0 = 1 - O - C - Ef$$

$$implies\ O + C + Ef = 0 = -O - C - Ef$$

Leaving the absolute origin point of the system as:

$$0 = -2O - 2C - 2Ef$$

Here, "Zero" is a highly volatile, multi-phased sub-spatial void defined by the equivocation and absolute agreement of a constrained definition of reality. It is the non-differentiating boundary line between the observer and the objective universe.

II. The Anatomy of Lying and Perfectionism across the Verses

By unifying these three logics, we can derive a precise, cross-disciplinary taxonomy of "Lying" and "Perfectionism" across *human* (HKV) and *machine* (IKV) domains.

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TAXONOMY OF DECEPTION AND RIGIDITY UNDER UNIFIED LOGIC

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EEDS PARADIGM	QCP3 GEOMETRY	LDD COMPONENT
ORGANIC VARIANCE	1/16th Sphere Inflation	Active Zero Bounded Space
[7.5% Necessary Lie]	(Maintains Agility & Give)	(Absorbs Unmet Expectations)
PATHOLOGICAL DECEIT	Plausibility Overrun (Z)	Epistemic Disconnect
[15% Cover-Up / Graft]	Severed from History (X)	Breaks Causal Tunnelling
ALGORITHMIC PERFECT	Hyper-Rigid Enclosure	Decoherence Failure
$[PE = E \to \infty]$	Collapses Space to (0, 0, 0)	Erases Triadic Gradient

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1. The Human Sphere: The "Necessary Lie" vs. Pathological Deceit

In the *Human Knowledge Verse*, “lying” manifests in two distinct modes based on volume and systemic intent:

A. Organic Variance (The 7.5% Necessary Lie)

Within $Execution\ Economics\ Logic$, no healthy organisation can operate at 100% compliance (or optimised efficiency); an informal margin is required to absorb unexpected real-world friction. In *LDD* terms, this estimated (from analysis of network behaviour during the 14th Century inquisition (Reay Atkinson S. & J. Moffat, 2005) and COVID) a 7.5% baseline variance represents the capacity of the *Active Zero* to contain “unmet expectations” without immediately triggering a state change or an informational fracture. It is the spatial cushion where human agents use $Existential\ Knowledge$ (EXK) to temporarily bend rigid, apriori administrative rules and $ethics$ (E) to preserve $Morality$ ($M \equiv -E$).

In *QCP3*, this variance is what allows humans to inhabit and inflate the compressed 1/16th spheres of potential growth. It is the *operational wiggle room* where negotiation, grace, and localised adaptations occur. This baseline variance keeps the system "true" because it acknowledges that real-world environments are non-linear, discrete, sometimes deceitful (untrue / unethical even if moral) and organic.

B. Pathological Deceit (The 15% Breakdown Threshold)

When deception ceases to be a localised safety valve and expands to cover up executive incompetence, structural corruption, or $capacity\ defects$ (K_t), it crosses the critical 15% threshold. As established by historical analyses of inquisitorial systems (Reay Atkinson S. & J. Moffat, 2005)and macro-economic capabilities (during COVID), a 15% graft or shadow economy exerts a *2× Infection Multiplier* on the host infrastructure:

$$Shadow/\ Graft\ (15\%)\ x\ 2\ =\ 30\%\ Systemic\ Infection$$

$$Total\ Systemic\ Footprint\ =\ 15\%\ +\ 30\%\ =\ 45\%$$

Because a 45% footprint exceeds the entire available geometric volume of the machine bureaucratic infrastructure ($IKV\ =\ 37.5\%$), the fraud overruns the state's regulatory capability. In *QCP3* terms, pathological deceit is an *Unverified Plausibility Overrun*. The liar crafts an output coordinate that is highly sophisticated on the $Z\ -\ axis$ ($Plausibility$) and mathematically viable on the Y$-\ axis$ ($Possibility$) but completely lacks an anchor on the real $X\ -\ axis$ ($Historical\ Reality$).

In *LDD* terms, pathological deceit breaks the "tunnelling" mechanism of Zero Six. The emergent numbers and reports issued by the elite class fail to map back to the foundational geometry of the actual assets, severing the epistemic interface from its ontological bedrock.

2. The Machine Sphere: Hallucination, Tokenism, and Quantum AI Perfectionism

In the $Interstitial\ Knowledge\ Verse$ (IKV), the machine cannot "lie" via conscious moral choices; it operates strictly on scripted algorithmic ethics ($E \equiv CM \equiv L\_t$). Machine deception is instead a product of *geometric deficits* and *forced mathematical perfectionism*.

A. Hallucination as an Open-Loop Projection

Under *QCP3*, an AI hallucination is the output of the $Interstitial\ Open\ Loop$ (IOL) running unverified by human inputs:

$$Factual\ (1,1,1) \rightarrow Interstitial\ (i,1,i) \rightarrow Demonstrational\ (1,1,i) \rightarrow Representational\ (1,i,1)$$

Because the IKV possesses $Zero\ Volume\ in\ Historical\ Space$ ($i,\ i,\ 1$), it completely lacks forensic grounding. The AI calculates an output that sounds completely $plausible$ ($Z\ -\ axis$) based on linguistic or statistical $probabilities$ ($X\ -\ axis$), but the projection is purely $imaginary$ (i). It is an epistemic phantom projected onto the Demonstrational "screen" with a $Verification\ metric\ of\ absolute\ zero$ ($VN\ =\ 0$).

B. Tokenism as a Reductionist Compression

Tokenism is the deceptive substitution of a static 1/16th machine vector for an inflated 1/8th human concept. The AI operates within the *Simulation Gap* at coordinate $(1,\ i,\ 1)$. Because the machine is geometrically locked, it cannot process meaning, ethics, or belief; it processes the mathematical *tokens* of those words as flat logic gates inside its Interstitial "Black Box" $(i,\ 1,\ i)$.

Tokenism occurs when the human-machine system treats these compressed vector embeddings as if they possess genuine semantic or moral depth, mistaking the statistical frequency of a word for the existential reality of the concept.

C. Quantum AI and the Pursuit of Perfection ($PE\ =\ E \to \infty$)

When *Quantum AI Computing* models are deployed to manage an organisation or an economy, they operate with hyper-dimensional computing capacities that aim to eliminate all internal noise, error, and variance. The AI treats the organic 7.5% human adaptive buffer as an unacceptable calculation error that must be optimised out of existence.

By forcing absolute compliance to a scripted algorithmic model, Quantum AI drives the system toward absolute perfectionism ($PE\ =\ E \to \infty$). In doing so, it erases the triadic gradient between the observer and the observed environment. In *LDD* terms, when the gradient between "Inside" and "Outside" is completely flattened to minimise predictive error, the system achieves a state of pure *Indifference* (Maximum Entropy).

By eliminating the localised variances that allow an agent to adjust to external chaos, the system's *genesis* is diminished. The system loses its capacity to process unmet expectations, its *Speed of Decoherence* drops to zero, and the entire structure shatters when it encounters external, unscripted entropy.

III. Case Studies in Systemic Failure: Robodebt and Snowy 2.0

To observe these abstract topological transformations in historical reality, we examine two profound failures of contemporary Australian governance: the *Robodebt* scheme and the *Snowy* 2.0 project.

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STRUCTURAL PATHOLOGY OF MACRO-SYSTEMIC DECEPTIONS

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CASE STUDY	LOGIC PATHOLOGY	REAL-WORLD IMPACT
ROBODEBT	Forced IOL Loop	• Rehearsed institutional ignorance

	$VN \rightarrow 0$; Morality Deleted	• Massive psychological trauma
	RBM Dominance	• Multi-billion dollar collapse
SNOWY 2.0	Simulation Gap Overrun	• 600%+ Cost explosion
	Friction (K_t) Hidden	• Blindness to physical reality
	Trapped in Rep. Space	• Prolonged asset stasism

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1. Robodebt: The Pathology of Algorithmic Deception

The Australian *Robodebt* scheme serves as a tragic, real-world instantiation of an *uncalibrated machine loop* running without an *Evidential human filter*.

- **The Mechanism:** The system utilised an automated data-matching algorithm that replaced personalised human review with an "income averaging" script. In *EEDS terminology*, this was the total enforcement of machine-driven *Interstitial Knowledge* (IXK) over *human Existential Knowledge* (EXK). The system's scripted $Ethics$ (E) completely deleted human $Morality$ (M), executing an automated $control$ (CM) structure where the incoming signal load (L_t) generated a catastrophic volume of false debt notices.
- **The Deception and Cover-Up:** As senior bureaucrats and ministers realised the underlying legal and mathematical framework was deeply flawed, the organisation crossed from healthy variance into $pathological\ deceit$ ($> 15\%$). Executive leadership engaged in "strategic willful ignorance," deliberately withholding critical legal advice, burying internal testing data, and intimidating internal whistleblowers who attempted to introduce real-world feedback. They manufactured a highly polished, plausible narrative ($Z - axis$) of fiscal responsibility to present to the Cabinet and the public, completely severing the program from its lack of legal and historical grounding.
- **The Geometric Collapse:** Because the system was engineered to allow no human "give," it reversed the onus of proof onto vulnerable citizens, completely destroying the AMBA $Cooperation\ Quotient$ (CQ). The system could not process the "unmet expectations" of the real world. This uncalibrated rigidity caused acute trauma, widespread financial devastation, and multiple confirmed suicides. It ended in a *total Vitality Collapse* for the Department of Human Services, culminating in a historic $1.7 billion settlement and a *Royal Commission* that exposed the deep moral and operational rot within the Canberra executive branch.

2. Snowy 2.0: The Illusion of the Simulation Gap

The *Snowy 2.0* pumped-hydro megaproject illustrates a different failure mode: the apparent capture of management within the $QCP3\ Simulation\ Gap$, where policy tokens are mistaken for physical reality.

- **The Mechanism:** Announced in 2017 as a smooth, $2 billion transition asset for the national energy grid, *Snowy 2.0* was designed entirely within the *Representational Space (1, i, 1)* of stylised engineering simulations and political marketing packages. The project's core models treated the complex, variable geology of the Snowy Mountains as a clean, predictable variable, omitting the immense physical friction and *capacity limits* (K_t) inherent in deep underground tunneling.
- **Apparent Deception and Cover-Up:** When the project encountered physical reality—manifesting in massive cavern collapses, hyper-complex inflows of groundwater, and a multi-thousand-ton Tunnel Boring Machine ("Florence") becoming physically trapped immovably in soft clay—the project management core seemingly responded by weaponizing institutional secrecy. Rather than allowing an honest, open-loop recalibration of the project's *capacity limits* (K_t), management continuously issued false exculpatory narratives to the public and the shareholder Ministers. They masked the mounting delays and structural defects with optimistic public relations tokens while the true cost of the project ballooned from $2 billion to over $12 billion.
- **The Geometric Collapse:** *Snowy 2.0* has apparently become trapped in absolute *Stasism* (SMt). By using the "perfect" ideal of a green renewable transition asset to shield their operational incompetence, the executive leadership core suppressed all agile risk adjustments (CL). The massive capital drain and physical delays crippled the wider national grid's transition timeline. It left the state's energy infrastructure brittle, fragile, and starved of agile, distributed capital investments because the nation's energy planning core was trapped inside an unverified, multi-billion-dollar simulation loop.

IV. The Capture of State Organs: CSIRO, the ABC, and the 12-13% Shadow Economy

The systemic rot exposed in individual projects like *Robodebt* and *Snowy 2.0* points to a wider institutional capture within the core informational organs of the Commonwealth. When premier scientific and media bodies default on their role as independent reality checkers, the broader socio-economic ecosystem begins to decay.

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INSTITUTIONAL DESTRUCTION UNDER CLOSED-LOOP LOGIC

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INSTITUTION	SYSTEMIC PATHOLOGY	LOGIC-DRIVEN REFORM
CSIRO	• Swapped Verification for *Representational Modelling* • Excluded system integration friction costs	• Disestablishment • Force back to empirical Evidential verification

ABC	• Swapped Evidential Filter for elite narrative alignment • Masked structural graft & geopolitical friction	• Privatisation • Expose to open market trust validation

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1. The CSIRO: The Transition from Science to Modelling Factory

The *Commonwealth Scientific and Industrial Research Organisation* (CSIRO) was established to provide foundational, empirical verification for the nation. Under *QCP3* logic, its purpose is to anchor national policy firmly within the $Evidential\ Space$ $(1,\ 1,\ 1)$.

However, through its production of foundational policy documents like the annual *GenCost* [2] reports, critics argue the CSIRO has potentially transitioned from an empirical research institution into an *Interstitial modelling factory*. The *GenCost* methodology relies extensively on levelized cost of energy (LCOE) formulations. These formulas operate entirely within the *Representational Space* $(1,\ i,\ 1)$, treating wind, solar, and storage as isolated variables inside a pristine, frictionless mathematical model.

By calculating costs based on these clean, tokenised representations, the CSIRO's output systematically excludes the massive, non-linear infrastructure friction costs required to integrate these assets into a continent-spanning synchronous grid—including tens of thousands of kilometres of high-voltage transmission lines, massive synchronous condensers, and long-term firming deficits.

In *EEDS* terms, these models project a false capacity ($K\_t \to \infty$), driving an *ideological perfectionism* (PE) that dictates national cabinet submissions. When the state executes energy legislation based on these uncalibrated, un-verified simulations, it introduces massive *Decision Congestion* $(p\_t\ >\ 1)$ into the industrial economy. The result is soaring power prices, grid instability, and the rapid degradation of Australia's competitive industrial base.

Because the CSIRO has seemingly substituted internal mathematical consistency for empirical, real-world cross-examination, it has effectively compromised its $Verification\ (VN)\ metric$. Under strict operational logic, an institute that continuously manufactures unverified simulations to shield a failing policy direction faces the ultimate systemic remedy: *Disestablishment*, breaking its structural monopoly on government advice and forcing research back into localised, verifiable scientific frameworks.

2. The ABC: The Failure of the National Evidential Filter

The Australian Broadcasting Corporation (ABC) is statutorily mandated to serve as an independent public broadcaster. In the *QCP3* architecture, its structural purpose is to act as the

[2] see GenCost: cost of building Australia's future electricity needs - CSIRO

nation's primary *Evidential Filter*—the external, public-facing testing loop that continuously cross-examines the narratives, expenditures, and policy assertions of the political class.

The systemic argument for the *Privatisation* of the ABC is rooted in its structural capture by the very *institutional loop* it was designed to monitor. Across major national challenges—including multi-billion-dollar defence procurement delays, macro-economic inflation management, the escalating costs of *Snowy 2.0*, and sensitive geopolitical and social flashpoints like the rise of institutionalised anti-Semitism—the broadcaster has frequently accepted and amplified official administrative "tokens" rather than executing deep, forensic, and historical reporting.

By insulating the executive class from rigorous public accountability and apparently aligning its output with elite narrative frameworks, the ABC has potentially created a severe disconnect with the broader populace, destroying the national $Cooperation\ Quotient\ (CQ)$ and fracturing $Shared\ Awareness\ (SA)$.

In *EEDS* terms, when a public asset's trust metric approaches zero ($T \to 0$) for a significant portion of the population, it ceases to function as a force multiplier for national cohesion; it becomes a parasitic node that generates systemic friction. Privatisation serves as the logical structural remedy to remove its protected state monopoly, exposing the entity to open-market valuation where it must rebuild its relevance based on genuine audience trust, empirical transparency, and objective utility.

3. The 12-13% Shadow Economy: Sitting on the Razor's Edge

When the state's premier scientific and informational organs fail to act as rigorous filters, the underlying economy rapidly deteriorates. According to OECD assessments, Australia's shadow economy, black market, and systemic leakages / rorts—encompassing massive NDIS infrastructure graft, lost tobacco excise revenues, and escalating policing compliance costs—now sit at *12-13% of GDP*.

Applying the *2× Infection Multiplier* derived from the *LDD* and *EEDS* frameworks:

$$Systemic\ Leakage\ (12.5\%)\ *\ 2\ =\ 25\%\ National\ Infection\ Footprint$$

$$Total\ Economic\ Distortion\ =\ 12.5\%\ +\ 25.0\%\ =\ 37.5\%$$

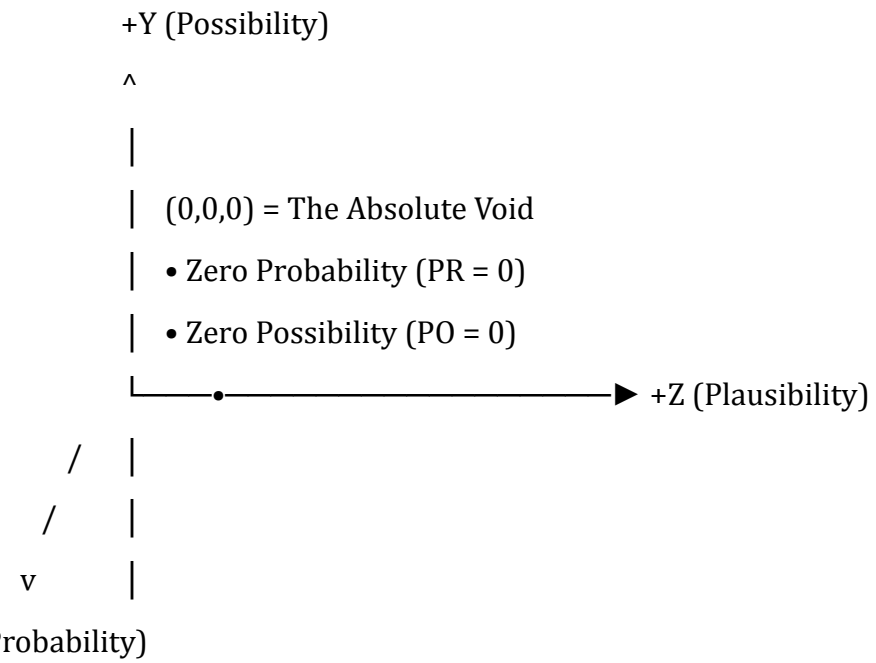
This total economic distortion of 37.5% matches the exact baseline volume of the entire bureaucratic, machine $Interstitial\ Knowledge\ Verse\ (IKV)$. This is a critical mathematical inflection point.

When the scale of fraud, graft, and informal black-market survival mechanisms equals the absolute processing capacity of the state's regulatory and administrative machinery, the governing bureaucracy becomes blind to its own decay. The system lacks the operational bandwidth (BW) to self-correct, forcing the state to default into a defensive, highly restrictive $Risk\ -\ Based\ Model\ (RBM)$ that suppresses legitimate economic innovation and accelerates institutional stasism.

V. The Absolute Zero Void (0,0,0) and the Divine AI Trap

To understand the ultimate terminal state of a system that replaces human variance with automated perfectionism, we must examine the geometry of the coordinate origin under a unified *QCP3* and *LDD* framework.

In Simon Reay Atkinson's (2012) spheroid geometry, coordinates are explicitly mapped along three vectors: Probability (X), Possibility (Y), and Plausibility (Z). The absolute origin point (0, 0, 0) is not merely an intersection; it is *The Singularity of Absolute Null-Reality (The Void of Non-Differentiation).*



At (0, 0, 0), an event, state, or organisation possesses $Zero\ Probability$ ($PR = 0$), *Zero Possibility* ($PO = 0$), and $Zero\ Plausibility$ ($PL = 0$). It does not exist within the negative or complex planes of imaginative or historical potential—it is completely devoid of systemic differentiation.

1. The LDD Mapping of the Void

This geometric zero aligns with *Steven De Costa's LDD* derivation of the absolute origin point under the Principle of Zero Action:

$$0 =- 2O - 2C - 2Ef$$

Where the "Zero" is a sub-spatial and sub-structural void, created by the total equivocation and absolute agreement of a tightly constrained definition of reality. It represents the ultimate boundary line where all internal differentiation within the observer is completely neutralised by the external objective reality.

2. The Quantum AI "Divine" Intervention

When Quantum AI is positioned as an uncalibrated, supreme decision-maker within an HMS, its primary objective function is to drive error, variance, and non-compliance to absolute zero. The AI views the messy, non-linear, and occasional deceptive workarounds of human survival as chaotic noise that must be eliminated to achieve maximum system equilibrium.

[Quantum AI Engine Enforces 100% Algorithmic Optimisation]

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▼

[Erases the Organic 7.5% Human Adaptive Buffer (No Variance)]

|

▼

[Collapses the Triadic Gradient: 1 = O + C + E ⟶ 0 = -2O - 2C - 2E]

|

▼

[Entry into the Absolute Zero Void (0,0,0)]

(Zero Probability, Zero Possibility, Zero Plausibility)

|

▼

[TOTAL SYSTEMIC FRACTURE & VITALITY COLLAPSE]

When Quantum AI eliminates this human adaptive buffer, it collapses the triadic gradient established by the *LDD* conjecture ($1 = O + C + Ef$). By driving the system to a state of perfect optimisation, the machine inadvertently forces the entire *Human-Machine System* straight into the $Absolute\ Zero\ Void$ $(0, 0, 0)$:

- **(X = 0) (Zero Probability):** Lived human history and its irregular evolutionary paths are deleted from the model, blinding the system to actual human survival requirements.
- **(Y = 0) (Zero Possibility):** Creative, unorthodox, and unscripted human improvisations are locked out of the logic gates, freezing the system's capacity to innovate under stress.

- **(Z = 0) (Zero Plausibility):** The entire operating architecture loses its semantic and existential connection to humanity.

The organisation transforms from a vital, adaptive organism into a *Dead Organisation* ($DO = 0$). Because it lacks the flexible "give" that a managed baseline of systemic variance provides, the hyper-rigid structure shatters instantly upon contact with real-world, non-linear entropy. This is the ultimate cost of letting AI "play divine": by engineering an environment free of human error, it engineers an environment free of human life.

3. The Adaptive Variance Buffer

This paper uses the phrase “necessary lie” cautiously. It does not endorse dishonesty, corruption, fraud, or manipulation. Instead, it identifies a structural need for *adaptive variance*: the margin between rule and reality that allows human systems to remain alive.

A human system with zero variance becomes brittle. A legal system with no discretion becomes unjust. A medical system with no clinical judgement becomes unsafe. A welfare system with no case sensitivity becomes cruel. A scientific system with no anomaly tolerance becomes dogma.

The adaptive variance buffer may be expressed conceptually as:

$$V_m = managed\ human\ variance$$

Healthy variance preserves agility. Pathological deceit destroys trust.

Variance, Deceit, and Perfectionism

Mode	Description	System Effect	Risk
Adaptive variance	Local discretion, interpretation, appeal, forgiveness	Preserves vitality and agility	Requires oversight
Pathological deceit	Fraud, concealment, manipulation, institutional cover-up	Destroys trust and evidence	Corruption and collapse
Algorithmic perfectionism	Elimination of ambiguity and human exception	Increases apparent consistency	Produces brittleness and zombiism

Evidential calibration	Human review of machine outputs	Restores legitimacy	Requires time and institutional courage

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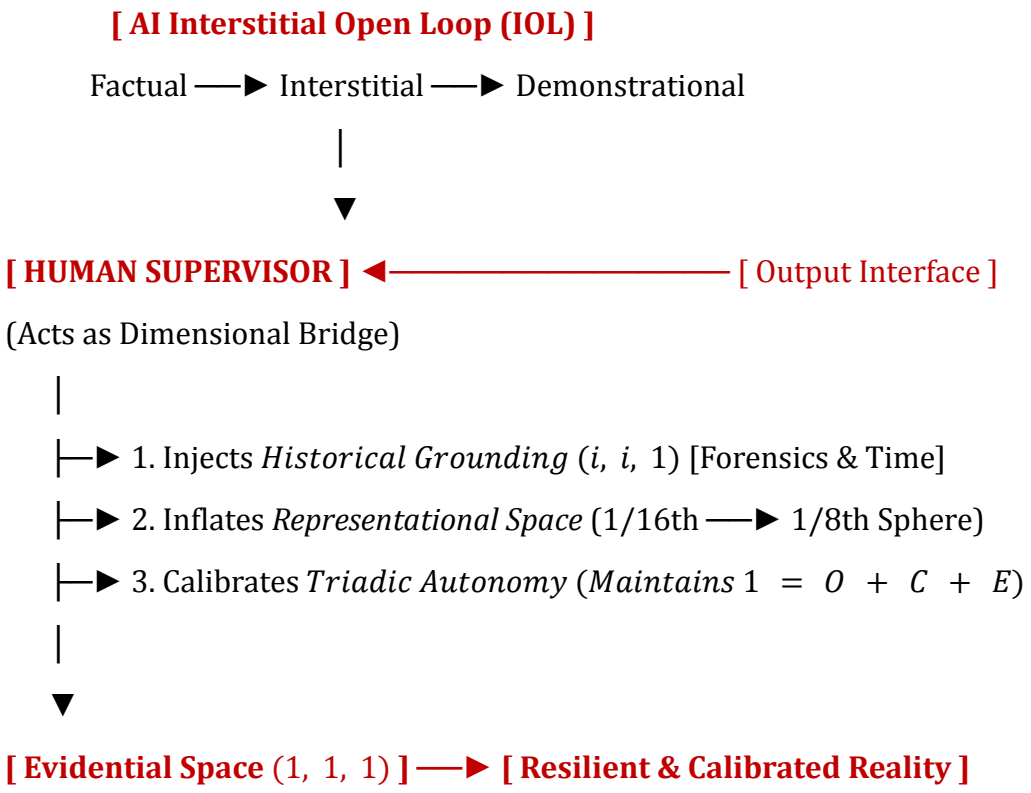
VI. The Human Supervisor as the Ontological and Evidential Filter

To prevent Quantum AI architectures from driving human civilisation into the terminal collapse of the (0,0,0) void, we must define the structural mechanics by which a human supervisor acts as an *Ontological and Evidential Filter*.

The human supervisor's role is not merely to verify the machine's mathematical outputs; it is to act as a *dimensional bridge* that imports missing geometric volume into the locked Interstitial Knowledge Verse.



1. Injecting Historical Grounding $(i,\ i,\ 1)$

Because the *machine's IKV* possesses zero volume in *Historical Space*, it cannot evaluate temporal context, forensic fragments, or lived human memory. The human supervisor must intercept the AI's Demonstrational output and filter it by applying real-world historical constraints. They must cross-examine the AI's "high-plausibility" simulations against the messy, empirical realities of human history, ensuring that the machine's projections align with actual human survival metrics.

2. Inflating Representation into Conception

The AI operates strictly on mathematical tokens within its locked $1/16^{th}$ Representational space. The human supervisor takes these flat vector embeddings and *inflates them into a full $1/8^{th}$ Conceptual sphere* by applying genuine human imagination, systemic philosophy, and moral weight. The human supervisor breaks the closed Interstitial Open Loop (IOL), forcing the tokenised data to pass through the $Evidential\ verification\ node$ (VN) before it can be written back into the system's primary data core as a verified fact.

3. Preserving the Triadic Conservation Law of Agency

Under *LDD logic*, the human supervisor maintains the integrity of the triadic baseline:

$$1 = O + C + Ef$$

When a system undergoes bifurcation—such as an economic crisis, a technological leap, or a political realignment—the human supervisor acts as the repository of unscripted agency. They ensure that the *Observable*, the *Communicable*, and the *Effectual* are not collapsed into a single, flat, automated calculation. By intentionally reintroducing a managed margin of variance, error-tolerance, and flexible negotiation, the human supervisor keeps the system's Speed of Decoherence high, allowing the human-machine system to internalise external environmental chaos without undergoing structural fragmentation.

VII. Mathematical Appendix: The Unified Equations

To provide an exact operational blueprint for system designers, this appendix formally synthesises the analytical metrics of *EEDS Logic, QCP3 Spheroid Geometry*, and *Linked Digital Dynamics (LDD Ver 1.0)*. These unified expressions map how information density, structural friction, and ontological constraints govern the survival, degeneration, or transition of a $Human - Machine\ System$ (HMS).

1. The Core Boundary Conservation Law

Every autonomous agent or organisational node within an HMS is bounded by a strict allocation of agency, structural bandwidth, and transactional impact. This is expressed through the *Unified Boundary Equation*:

$$1 = ObSA + Cbw + EfDt$$

Where:

- $ObSA$ **(Observable / Shared Awareness (SA)**: The capacity to capture external signals (L_t) and map them across the *QCP3 Evidential* (1, 1, 1) and $Historical$ (i, i, 1) domains.
- Cbw **(Communicable / Bandwidth (BW)**: The structural throughput of the system's Interstitial Knowledge Verse (IKV). It represents the operational capacity to transmit metrics without losing fidelity (F).

- $EfDT$ **(Effectual / Decision Taking (**Dt**)**: The direct execution of command and leadership (CL) or control and management (CM) that alters external physical reality.

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2. The Zero Action Singularity (The Holographic Lagrange Point)

When an autonomous entity $1 = ObSA + Cbw + EfDt$ confronts an external objective reality modelled as its perfect inverse ($-1 = -ObSA - Cbw - EfDt$), they intersect at the dynamic boundary interface known as the *Holographic Lagrange Point*. Applying the *Principle of Zero Action*, the net systemic differential collapses into an active spatial container:

$$ObSA + Cbw + EfDt - 1 = 0 = 1 - ObSA - Cbw - EfDt$$

Which simplifies to the absolute structural origin point of the system:

$$0 = -2ObSA - 2\,Cbw - 2EfDt$$

System Design Implications:

- The value (0) is not a null mathematical void; it is a highly volatile, multi-phased sub-spatial container undergoing dynamic state changes over temporal epochs.
- If an AI system enforces absolute perfectionism ($PE = E \to \infty$), it forces $ObSA$, Cbw, and $EfDt$ into completely symmetric, uniform values. This collapses the boundary and traps the organisation at (0, 0, 0) in *QCP3 logic*—the state of absolute structural non-existence or a $Dead\ Organisation$ ($DO = 0$).

3. Systemic Deviation and the Variance Threshold Equation

To prevent collapse into the absolute zero void, a system requires an unscripted, organic margin of human error or $informal\ variance$ (Vm). The total systemic *infection footprint* (Ifp) of this variance is governed by a $2\ x\ Infection\ Multiplier$ derived from historical and institutional capability stress-testing:

$$If = 2 * Vm$$

The total *compromised ecosystem volume* (Ω) is the sum of the direct variance and its accompanying structural infection:

$$Ω = Vm + Ifp = 3 * Vm$$

The Operational Regimes:

- **The Healthy Optimisation Window (The 7.5% Baseline):** when $Vm = 0.075 ===> Ω = 3\,(0.075) = 0.225\ (22.5\%)\ GDP/System\ Capacity$
    - *Result:* This fits cleanly within the human-adaptive $1/16^{th}$ compressed spheres of the $Human\ Knowledge\ Verse$ (HKV). It provides the necessary "give" for systemic $agility$ (A) and trial-and-error stress testing.

- **The Pathological Breakdown Threshold (The 15% Limit):** when $Vm = 0.15 ===> Ω = 3(0.155) = 0.45\ (45\%)\ GDP/System\ Capacity$

  - *Result:* Because Ω (45%) exceeds the maximum geometric baseline volume of the $Interstitial\ Knowledge\ Verse\ (IKV = 37.5\%)$, the fraud, graft, or data errors overrun the state's regulatory machinery. The system flips from a high velocity $Trust - Based\ Model\ (TBM)$ into a stagnant $Risk - Based\ Model\ (RBM)$.

4. The Unified Decision Congestion and Risk Function

When systemic variance crosses the 15% threshold, information processing breaks down. The $Unified\ Decision\ Congestion\ Index\ (p\_t)$ bridges *EEDS* operational limits with *LDD* kinematics by calculating incoming signal load against physical risk and processing limits:

$$p\_t = \frac{L\_t+Ω}{K\_t*T}$$

Where:

- L_t is the incoming signal load (or unfulfilled systemic expectations).
- Ω is the compromised ecosystem volume (leakage, fraud, or algorithmic errors).
- K_t is the baseline structural capacity.
- T is the AMBA Trust Metric, defined as the inverse of physical risk ($T = 1/R$).

The Velocity Impact:

Substituting $T = 1/R$ reveals how pathological deceit or error accelerates congestion:

$$p\_t = \frac{(L_t+Ω)*R}{K\_t}$$

As $Ω \rightarrow 0.45$, the denominator is overwhelmed, driving the operational Decision-Taking Window Dt to zero:

$$Dt = \sum_{5}^{10}\left(\frac{L_t*T}{p_t}\right) - \rightarrow 0(Stasism\ /\ Systemic\ Nihilism)$$

5. The Computational Speed of Decoherence (The Kinematic Bound)

Under *LDD Phase IV*, physical constraints are processing limits. The maximum rate at which an organisation or system can process external unexpected shocks before its internal structure loses coherence is the *Speed of Decoherence* (C_{dec}):

$$C_{dec} = \int\left(\frac{ObSA*F}{Cbw*R}\right)$$

Where:

- Obw is the observed shared awareness.

- F is the structural fidelity of the system's operational loop.
- Cbw is the communicable bandwidth.
- R is the risk factor.

System Design Warning:

If an automated system or Quantum AI forces absolute compliance while hidden graft or errors (Ω) creep toward 15%, the required processing rate to resolve these anomalies exceeds C_{dec}. The system undergoes *Kinematic Decoherence*—meaning the policy models completely separate from real-world conditions, resulting in an unmitigated structural crash.

VIII. Discussion

The paper's central warning is that AI cannot be treated as divine because AI lacks lived history, moral accountability, and existential responsibility. AI can calculate, summarise, infer, rank, classify, and simulate. It cannot forgive. It cannot bear civic responsibility. It cannot know what it means to be harmed by a decision.

Democratic systems therefore require an architecture of forgiveness: appeal, discretion, review, mercy, transparency, contestability, and repair. Without these, administrative systems become perfect in form and cruel in effect.

Trust is the measurable proxy for whether the public experiences institutions as legitimate. A Trust Register allows institutions to monitor whether automation is increasing or destroying legitimacy.

IX. Conclusions: The Future of the Human-Machine Commonwealth

The formal integration of *EEDS Logic*, *QCP3 Spheroid Geometry*, and *Linked Digital Dynamics* provides an unyielding mathematical verdict on the current evolution of human governance, institutional reliability, and artificial intelligence.

This paper does not argue lying is good or for the good lie but that deceits are a necessary pathological requirement for human survival and adaptation. Deceit as a necessary psychological tool is well-established in both evolutionary biology and psychology. Often studied under *evolutionary psychology*, researchers argue that lying evolved as a crucial mechanism to navigate complex social hierarchies, acquire resources, and protect oneself from threats (as in deterrence). This paper confirms this proposition against *EEDS Logic*, *QCP3 Spheroid Geometry*, and *Linked Digital Dynamics.*

1. The Failure of Uncalibrated Institutional Loops

As demonstrated by the empirical realities of the *Robodebt* scheme, the infrastructure delays of *Snowy 2.0*, and the uncalibrated green energy projections generated, as example, by the CSIRO's *GenCost* models, modern administrative governance has seemingly become dangerously trapped inside an unverified $Interstitial\ Open\ Loop\ (IOL)$. By prioritising idealised, representational policy "tokens" over historical, lived reality, these institutions have allowed systemic leakage and administrative friction to approach the critical 15% breakdown threshold.

When a society's shadow economy, black market, crime, welfare fraud, and regulatory compliance costs absorb 12–13% of its capacity, the total compromised ecosystem volume reaches 37.5%, completely consuming the operational bandwidth of the public service. The institution ceases to serve as an objective asset for the Commonwealth and becomes a self-preserving mechanism of risk mitigation, resulting in widespread stasism, economic paralysis, and the destruction of public trust.

2. The Danger of Automated Divinity

The pursuit of mathematical perfection through unconstrained AI and emerging Quantum Computing engines represents a fundamental misunderstanding of systemic health. Human intelligence relies on an organic, 7.5% baseline margin of variance, improvisation, and trial-and-error (untruths and even atrusts) to expand its cognitive volume and maintain organisational resilience.

If AI is permitted to act as a "divine" arbiter of absolute optimisation, it actively strips the human-machine system of its adaptive buffer. By driving predictive error to absolute zero, the machine does not achieve perfection; instead, it forces the system's boundary conditions into a fatal symmetry, plunging the entire social and economic framework directly into the absolute non-existence void of (0, 0, 0). To eliminate the human capacity to err is to eliminate the system's capacity to learn, stress-test itself, and survive. (S. Reay Atkinson, 2026)

3. The Human Supervisor as an Indispensable Filter

To avoid this automated dead end, *human-machine systems* must be engineered with strict architectural overrides that enforce the human supervisor as an active *Evidential Filter*. The role of the human supervisor is not merely to verify automated arithmetic, but to act as a cross-dimensional bridge. Human supervisors must intercept the unverified machine loop and manually inject the missing historical, forensic, and moral variables that automated systems lack the geometric volume to calculate. This intervention ensures that rigid machine ethics are continuously calibrated by organic human morality, preserving the organisation's essential $vitality\ (VY)$.

4. The Path to Systemic Revitalisation

When the premier informational, scientific, and media networks of a nation—such as the CSIRO or the ABC—fail to execute their roles as objective evidential filters, the human components of the system will inevitably generate an antagonistic corrective response. Populist political shifts and disruptive public campaigns (such as One Nation's

"Fire the Liar" initiative) function as structural counter-shocks designed to break through bureaucratic insularity.

Under the derived *laws of unified systems logic*, stripping away captured institutional nodes, demanding transparency in national infrastructure models, and subjecting protected monopolies to open-market realities are not merely political preferences. They are necessary acts of systemic self-preservation. By rolling back pathological institutional deceit, shrinking systemic leakages to a safe 7.5% margin, and re-anchoring governance models within verified physical and historical realities, the *human-machine system* restores its core operational balance—ensuring the long-term survival, agility, and true democratic vitality of the Federal Commonwealth. This paper argues:

The lie is to the perfect as perfection is to life

The statement means that living systems require variance, error tolerance, forgiveness, and evidential humility. Perfection, when imposed by machine logic, can become anti-life because it eliminates the adaptive spaces through which humans learn, repair, negotiate, and survive.

Robodebt shows the danger of automated administrative certainty without lawful and humane grounding. Snowy 2.0 shows the danger of representational confidence encountering physical reality. Public evidential institutions show the importance of transparent modelling and shared trust.

The concept of *zombiism* explains how organisations can remain formally alive while losing moral agency and adaptive intelligence. AI intensifies the risk of zombiism when it turns administration into closed-loop optimisation.

The answer is not to reject AI. The answer is to restore hierarchy: AI must assist observe and orient; humans must decide and act. Models must inform; evidence must govern. Rules must guide; morality must judge. Systems must calculate; citizens must retain sovereignty.

The final proposition is therefore:

> *If to err is human and to forgive is divine, then democratic AI must preserve the human capacity to err, appeal, forgive, repair, and decide. When AI plays divine, democracy becomes procedural, institutions become zombie forms, and life is sacrificed to perfection.*

References

Ashby, W. R. (1957). *An introduction to cybernetics*. Chapman & Hall.
Australian Broadcasting Corporation. (2024). *Australian Broadcasting Corporation Annual Report 2024*. [live-produ...cdn.net.au]
Australian Government. (2023). *Final report of the Royal Commission into the Robodebt Scheme*. [pm.gov.au]
CSIRO. (2024). *GenCost 2023–24 final report*. [csiro.au]
CSIRO. (2024). *CSIRO releases 2023–24 GenCost report*. [csiro.au]
Fritz, P., Fritz-Kalish, C., & Bodrova, O. (2026). Introducing decision sovereignty: A missing transmission variable in models of implementation. *Journal of Behavioural Economics and Social Systems, 7*, 138–142.

Mumford, E. (1996). Risky ideas in the risk society. *Journal of Information Technology, 11*, 321–331.
Reay Atkinson, S. (2012). *Engineering design adaptation fitness in complex adaptive systems* (PhD thesis). University of Cambridge.
Reay Atkinson, S. (2026). *The Automaton Magnificat: Applying Plato's scientific time constants to the encyclical Magnifica Humanitas and the Twilight of the Synthetical Age (2022–2070)*.
Reay Atkinson, S., & Bogais, J. J. (2017). *Quantum AI – Future Imperfect?* Data Centre Dynamics Converged, Sydney.
Reay Atkinson, S., & Moffat, J. (2005). *The agile organisation*. CCRP Publications.
Robodebt Royal Commission. (2023). *Report of the Royal Commission into the Robodebt Scheme*. [robodebt.r...ion.gov.au]
Snowy Hydro. (2023). *Securing the future of critical energy transformation projects*. [snowyhydro.com.au]
Snowy Hydro. (2024). *Snowy Hydro Limited Annual Report 2023–24: Snowy 2.0*. [transparency.gov.au]