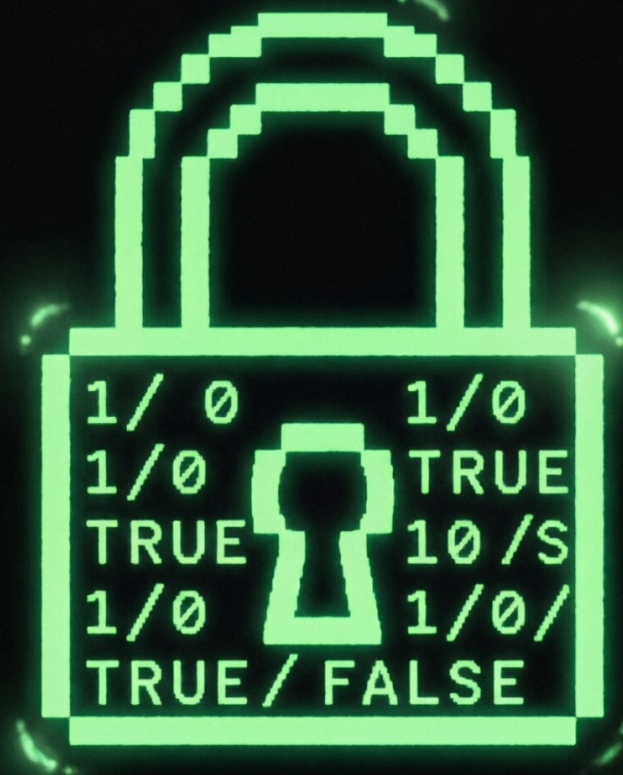




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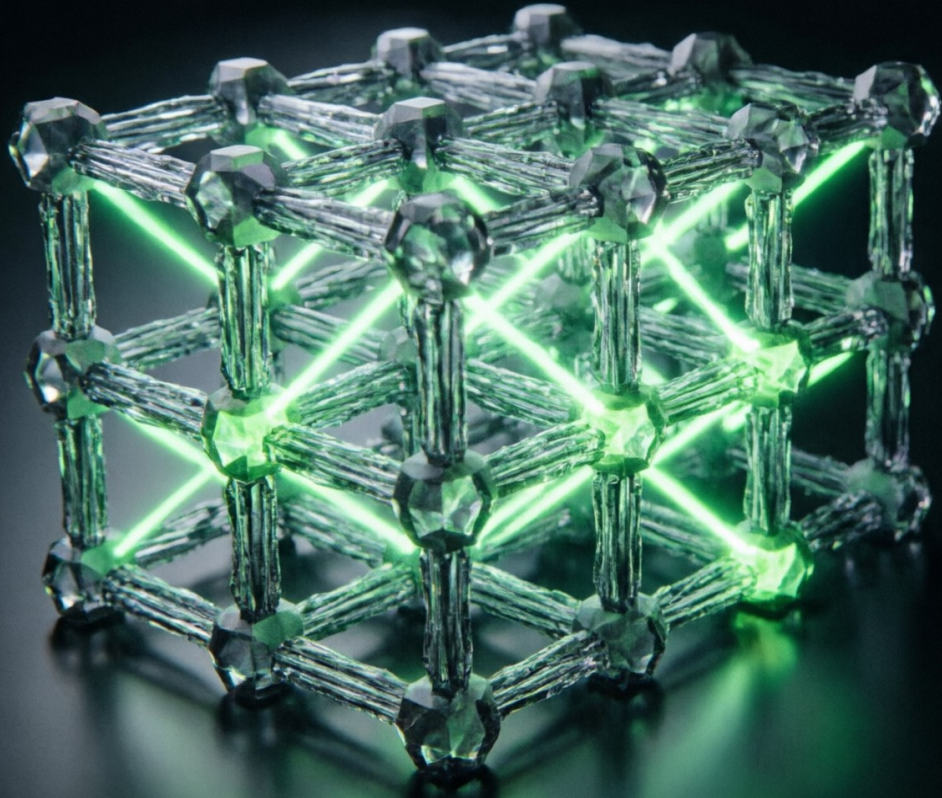


TauDIL: The End of Probabilistic Governance

Why AI Must Shift from Confidence Scoring to Deterministic Authorization

AI Safety Fails at Runtime

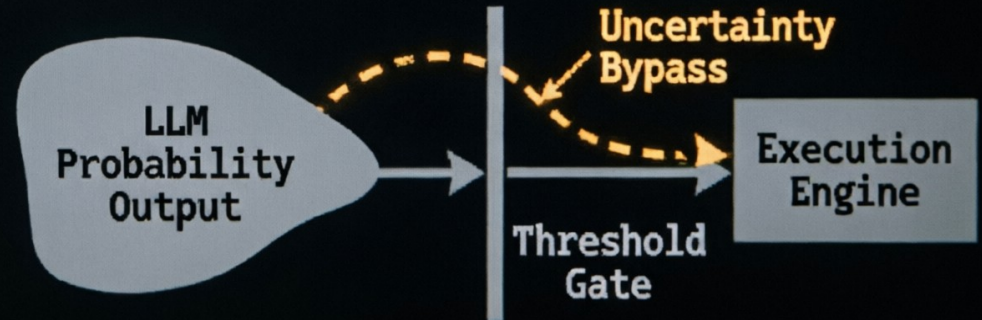
Gates Validate Execution
Determinism checks every step.



Confidence Keeps Tails
High confidence retains residual risks.



Curves Miss Hard Boundaries
Uncertainty leaks around strict gates.



Confidence fails authority

LLMs overstate confidence

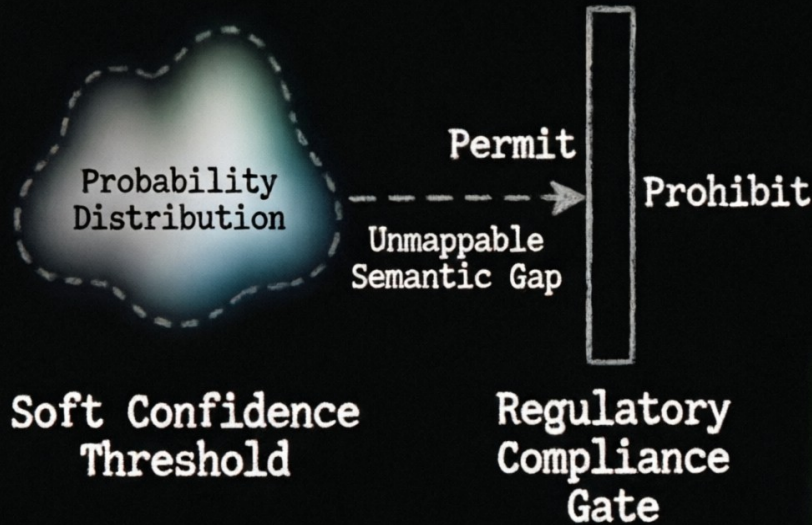
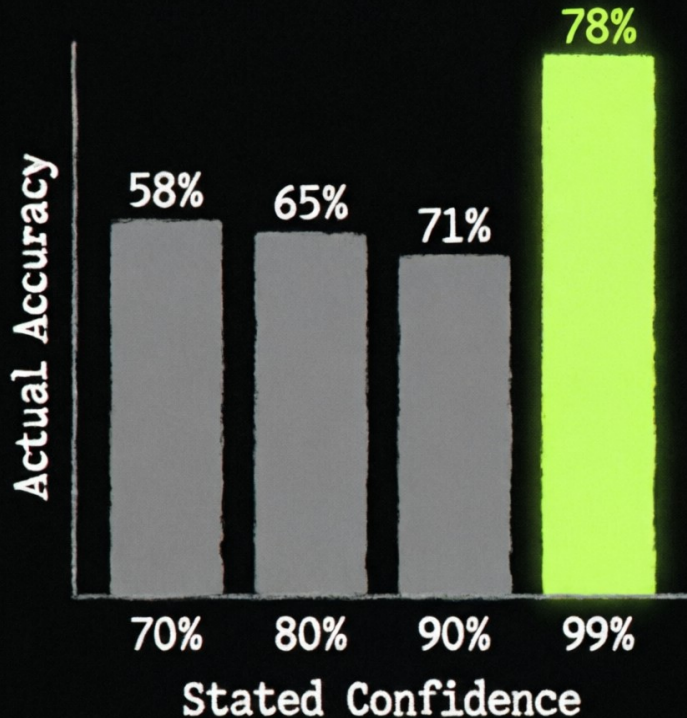
Accuracy caps at 78%.
Gaps trigger risk.

Compliance requires hard gates

Auditors reject ambiguity.
Models fail.

Authority demands verifiable bounds

Metrics lack limits.
Systems face exposure.

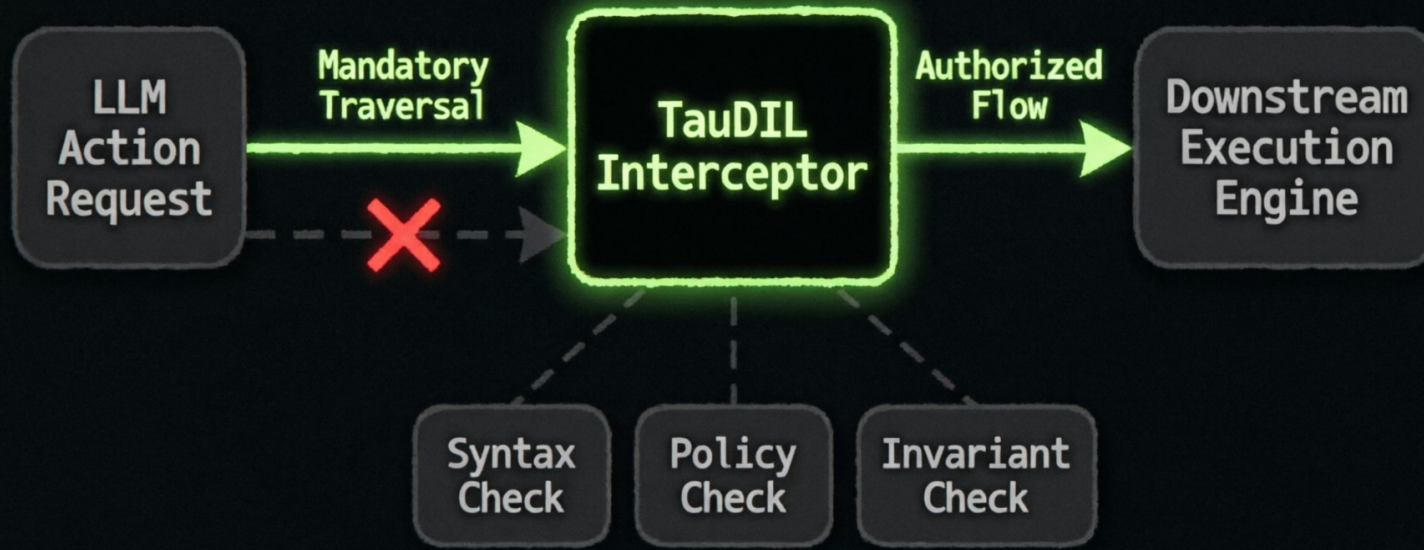


Structural permission required

TauDIL Pre-Execution Gate

Atomic Payload Capture

Intercepts outbound requests pre-call.
Eliminates latency between generation and action.



Binary Invariant Checks

Replaces confidence scores with rigid policy checks.
Outputs binary permit or termination flags.

STATUS: PERMIT
FLAG: EXECUTE
STATUS: TERMINATE

PERMIT or
TERMINATE

AI Advises, System Enforces

Sampling yields uncertain advice

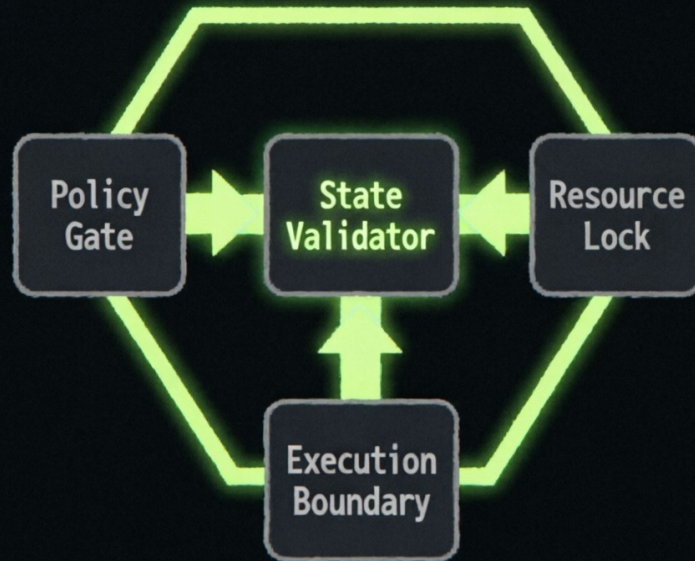
Outputs need validation.

Constraint layers enforce policy

Machines enforce DGC matrices.

Handshake secures authorized action

Advice passes invariants first.



100% invariant match

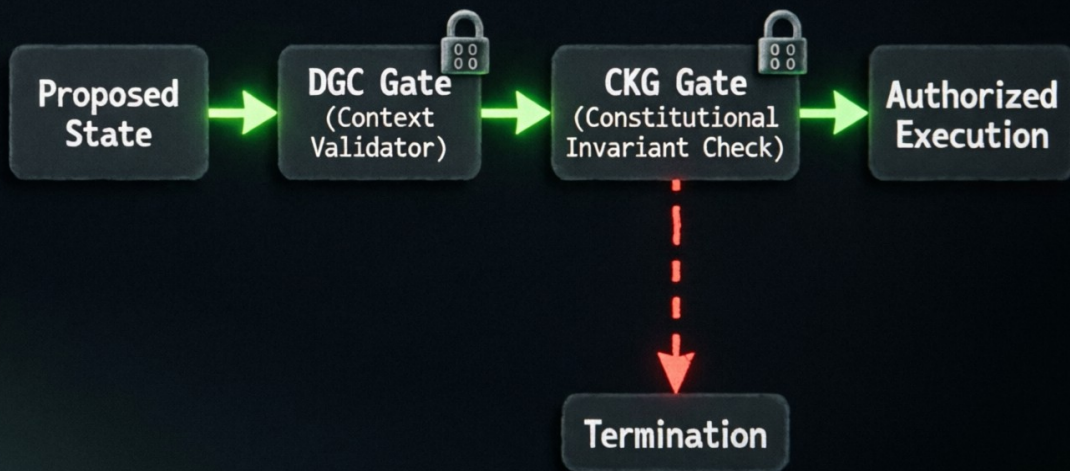
Dual gates control routing

Zero-tolerance firewall logic

Mismatches trigger instant refusal. Gates output exact failure coordinates.

Pipeline enforces sequential routing

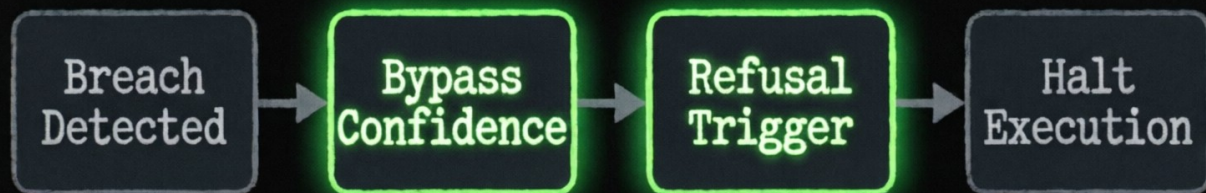
DGC validates context. CKG checks invariants. Both operate sequentially.



System halts on policy breach

Probabilistic
safety fails
under limits

Statistical drift
crosses hard
boundaries
silently.



Immediate
state freeze

Memory locks
and APIs sever
in one cycle.

Zero latency
enforcement

Enforce Verifiable Governance

Probabilistic trust fails audits

Reward signals fail under adversarial distribution shifts.

Structural auth enforces execution

Actions require policy matrix confirmation before execution.



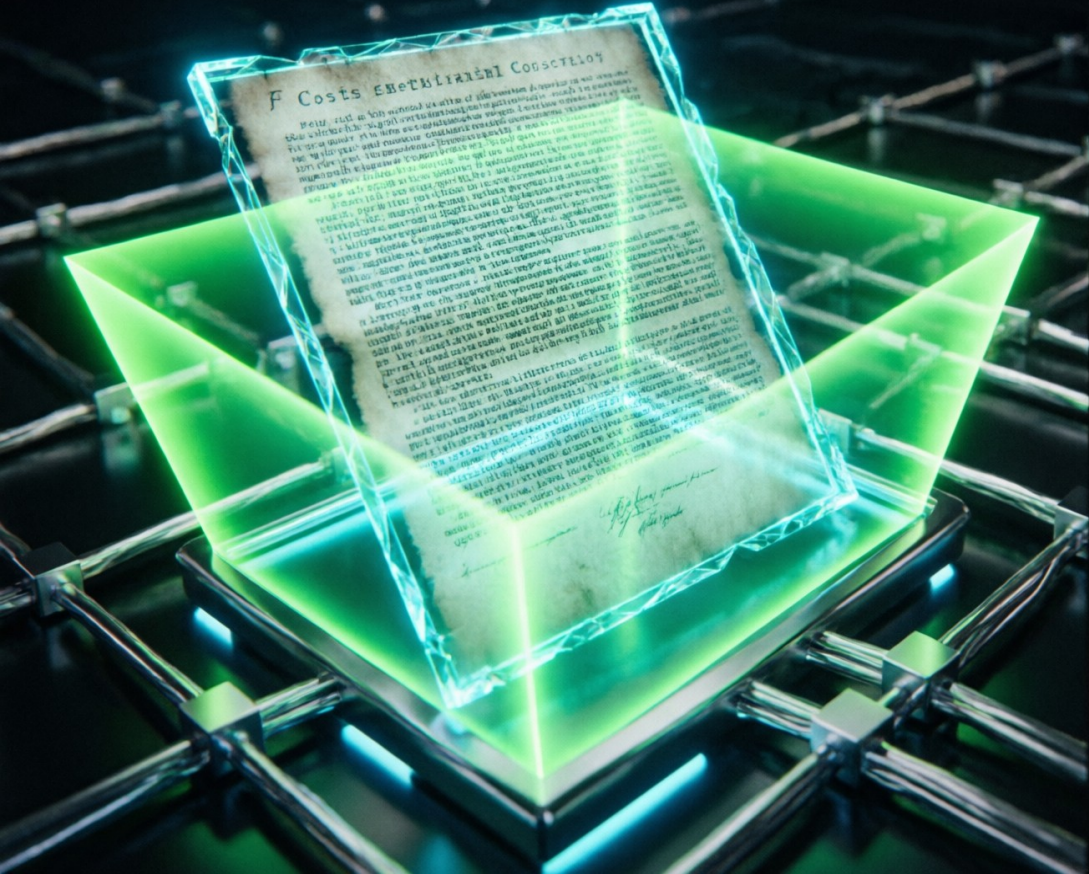
Deterministic AI Governance

Constitutional Constraints

Constraints guarantee continuous critical execution.

Advisory Yields To Authorization

Authorization replaces confidence scoring.



Invariant Gate Topology

Gates verify transitions under ten milliseconds.

Sub-10ms

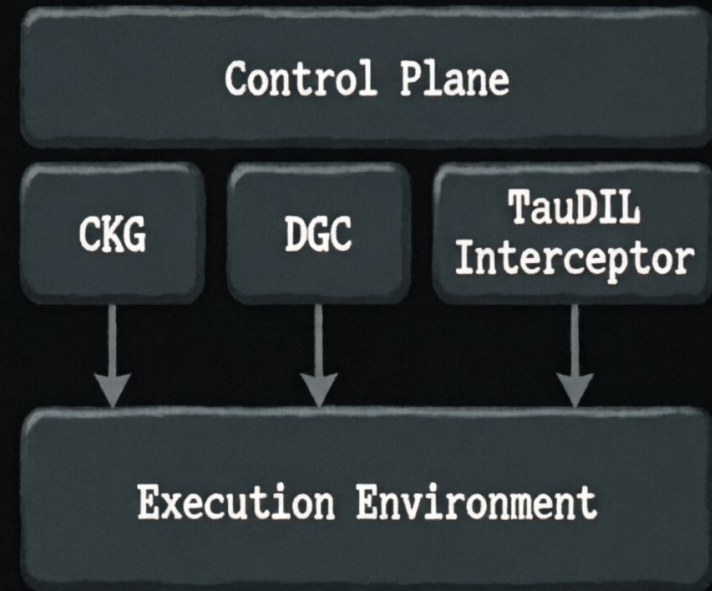
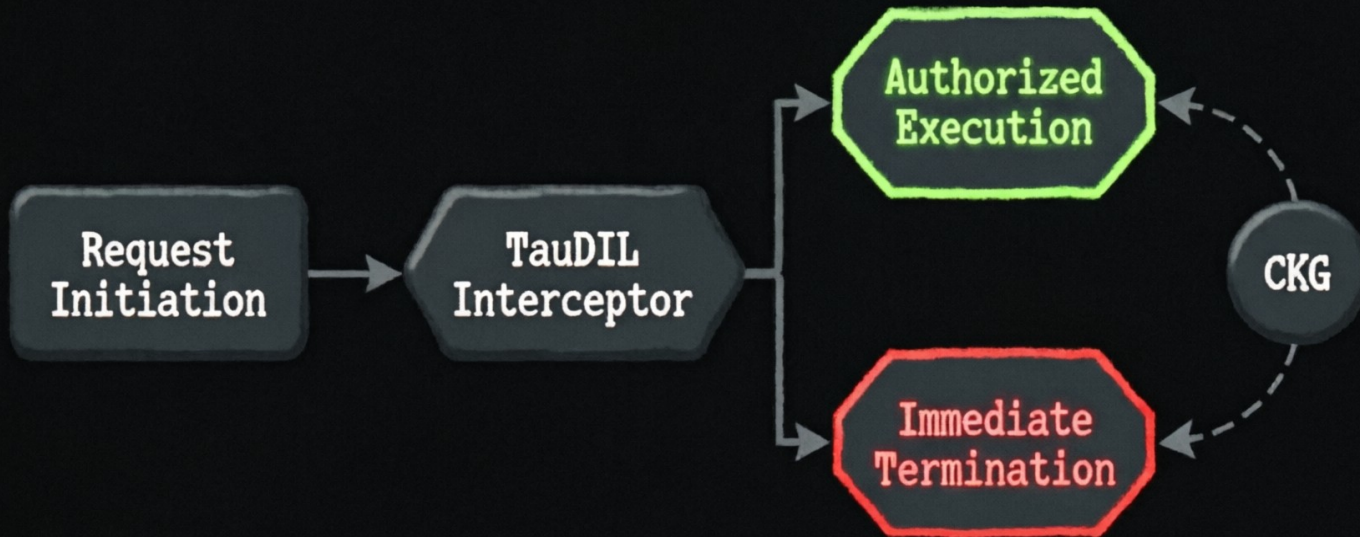


Governance asks when to act

Shift alignment to boundaries
Training fails. Strict
limits apply.

Intercept before execution
Gates validate changes.
Binary states run or halt.

Engineer proactive control
Shift from auditing to
verifiable control.



Authorization precedes action