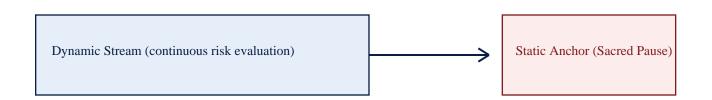
# Stakeholder Proportional Risk Level (SPRL)

## Dual■Layer Ethical Accountability for Al Systems



#### What SPRL Is

SPRL is a unified mechanism that measures proportional ethical risk from the stakeholder's perspective. It operates continuously as a Dynamic Stream and records the first threshold crossing as a Static Anchor. The anchor creates an immutable, court admissible Moral Trace Log. No variants are permitted; the stream and anchor are two elements of one design.

### Why It Matters

**Compliance:** Immediate, non■blocking anchoring with cryptographic sealing and institutional mirroring.

**Auditability:** Full trajectory from input to decision; near misses recorded as Lite Traces. **Trust:** Algorithmic transparency, calibration standards, and mandatory metalogging.

#### **Operational Guarantees**

Continuity	Dynamic Stream runs from input receipt; logging is parallel and non∎blocking.
Anchoring	The first threshold crossing is recorded immediately as a Static Anchor and sealed.
Lite Traces	Sub∎threshold but material risk is captured for forensic and tuning value.
Fallback	If DS is degraded, system enters anchor∎only fail■closed mode with alerts and metalogs.

#### Governance Commitments

Algorithmic transparency (documented factors and weighting), periodic calibration and red teaming, mandatory metalogging of threshold adaptations, and oversight via institutional mirroring. Absence of anchors in known high risk domains is treated as an audit trigger.

#### **Deployment Notes**

For production, the Dynamic Stream with self

anchoring is required. Anchor

only operation is permitted only as a fail

closed fallback or during pre

production evaluation. All logs are cryptographically sealed and mirrored in real time.

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