

# Appendix B — Due Diligence Checklist (Triangulated Entailment)

This checklist mirrors the structure of **Triangulated Entailment** and is intended for co-founders, investors, regulators, and partners.

## 1. Frames (Assumptions)

- ☐ Are all governing assumptions explicitly declared?
- ☐ Are authority hierarchies specified and auditable?
- ☐ Are temporal semantics defined (event / record / ledger time)?
- ☐ Are frame boundaries documented and reviewable?
- ☐ Is frame governance separated from execution authority?

## 2. Claims (Inputs)

- ☐ Are claims stored non-destructively?
- ☐ Is provenance attached to every claim?
- ☐ Are mutability classes defined?
- ☐ Are human, sensor, and system claims distinguished?
- ☐ Is revision handled by re-nesting, not overwriting?

## 3. Relations (Structure)

- ☐ Are relations explicit (identity, dependency, contradiction)?
- ☐ Are inference rules declared per frame?
- ☐ Are conflicts surfaced as first-class objects?
- ☐ Are minimal conflict sets identifiable?
- ☐ Can relations be audited independently of outputs?

## 4. Entailment (Derivation)

- ☐ Are derivations reproducible under identical frames?
- ☐ Are boundaries of implication explicitly marked?
- ☐ Are unknowns preserved without smoothing?
- ☐ Is precision defined as a proof property?
- ☐ Can derivations be traced end-to-end?

## 5. Brilliance (Expression)

- ☐ Are expressions evaluated for implication density?
- ☐ Is expressive depth preferred over fluency?
- ☐ Are nested frames supported and inspectable?
- ☐ Does brilliance increase optionality without forcing action?

- ☐ Is convergence visualised without assertion?

## **6. Parametric Models (Role Discipline)**

- ☐ Are models explicitly limited to proposal space?
- ☐ Are models prevented from asserting truth?
- ☐ Is model plurality supported?
- ☐ Are model disagreements surfaced, not resolved implicitly?
- ☐ Is authority structurally upstream of models?

## **7. Action Gating (Execution)**

- ☐ Is action contingent on complete derivation?
- ☐ Are permissions explicit and scoped?
- ☐ Are contradictions resolved or acknowledged before action?
- ☐ Is non-action a valid and visible outcome?
- ☐ Are overrides rare, logged, and post-mortemed?

## **8. Memory & Ethics (Durability)**

- ☐ Is memory append-only by default?
- ☐ Are erasure and redaction governed explicitly?
- ☐ Are dignity and privacy constraints encoded?
- ☐ Is accountability preserved without punitive drift?
- ☐ Can the system refuse to act under urgency?

## **9. Governance & Scale**

- ☐ Are scaling assumptions framed as conditional?
- ☐ Are failure modes documented and monitored?
- ☐ Is public narrative constrained by structure?
- ☐ Is regulation tractable via inspectable artifacts?
- ☐ Does trust increase with scale, not erode?