

# 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?