

ETUNC.ai CTO 36-Month Gantt Chart

Overall Responsibility: Architect and secure the unbreakable, hyper-scalable technical foundation of ETUNC.ai's "Living Intelligence System," ensuring the VPA core is technically flawless, compliant, and leverages cutting-edge AI.

Timeline: September 1, 2025 – August 31, 2028 (36 Months)

Phase 1 (Months 1-9): Foundational Architecture & Accelerated VPA Core Build

(September 2025 - May 2026)

Goal: Build the secure, scalable core agentic platform and deliver an initial alpha version of the Institutional MVP focused on 1-2 critical pain points. Establish foundational VPA system elements, leveraging Gemini Ultra 2.0.

Key Tasks

Tracking Criteria

1.1 Core Agentic Architecture Finalization &

Infrastructure Setup
 - Finalize modular microservice architecture.
 - Select core AI technologies (foundational LLMs, knowledge graph DBs).
 - Establish secure, hyper-scalable cloud infrastructure.
 - Define inter-agent communication protocols.

Architectural blueprints signed off; core microservices deployed to dev/staging; initial environment setup complete; security audit kickoff.

1.2 Accelerated VPA System Core Architecture

(Veracity, Plurality, Accountability)
 - Design & oversee core components for Provenance & Contextualizer, initial Bias Mitigation, and Accountability & Audit Trail.
 - **NEW:** Initiate **technical deep-dive & feasibility study for integrating Google DeepMind's Gemini Ultra 2.0**. Prioritize testing its "self-correction loop" for VPA alignment.

VPA architectural specs complete; core VPA modules integrated; Gemini Ultra 2.0 integration feasibility report.

1.3 Enterprise-Grade Security Architecture &

Compliance Setup (Initial)
 - Design & lead implementation of robust security protocols (encryption, MFA, access controls).
 - Ensure early ISO 27001 readiness.

Security architecture review complete; initial penetration testing framework established; compliance roadmap published.

1.4 Scalability & Performance Planning (Phase 1)
 - Develop load testing strategies for core agent functions & VPA processing.
 - Define initial performance benchmarks (latency, throughput).

Scalability plan documented; initial performance benchmarks defined.

Phase 2 (Months 10-21): Advanced VPA Capabilities, Integration Hardening & Compliance Architecture

(June 2026 - February 2028)

Goal: Successfully execute institutional MVP pilots, gather critical feedback, and begin developing the APIs/white-label features for financial/estate planning partners, ensuring VPA is technically verifiable and globally compliant.

Key Tasks

Tracking Criteria

2.1 System Reliability & Performance Optimization (VPA Focus)

 - Continuously monitor system performance, focusing on VPA-intensive operations.
 - Optimize agent interactions and data flow; ensure high uptime/low latency for pilots.

Uptime metrics (99.9% target); latency reports; agent processing efficiency gains.

2.2 Core VPA System Expansion & Refinement

 - Oversee development of **advanced VPA features** (dynamic bias detection, discrepancy resolution, enhanced explainability).
 - **NEW:** Evaluate technical feasibility of implementing concepts from new research on **"Ethical Agent Alignment in SWARMS"** (decentralized ethical monitoring, agent reputation systems).

Advanced VPA modules architected & ready for implementation; initial ethical alignment framework prototypes.

2.3 API & Integration Architecture for Partners

 - Design secure, scalable APIs for seamless integration with financial/estate planning platforms.
 - Ensure white-label capabilities are architecturally sound & secure.

API documentation complete; integration roadmap signed off.

2.4 Global Compliance Architecture & Data Logging Assessment

 - Lead assessment of **technical implications of final EU AI Act "high-risk" definitions** on architecture & data logging.
 - Ensure VPA auditability & explainability features meet stringent requirements.

EU AI Act compliance assessment report; architectural adjustments for compliance.

Phase 3 (Months 22-36): Production Readiness, Global Compliance & Continuous Vetting

(March 2028 - August 2028)

Goal: Ensure the entire ETUNC.ai system, particularly the VPA, is fully production-ready, globally scalable, and resilient for broader market launch. Deliver the "TruthGPT for Legacy."

Key Tasks

Tracking Criteria

3.1 Production Readiness & Global Rollout
 -

Ensure entire ETUNC.ai system is fully production-ready, globally scalable, and resilient.
 - Finalize disaster recovery & business continuity plans.

System stability reports (99.99% uptime target); disaster recovery plan complete; global deployment strategy finalized.

3.2 Full VPA System Operationalization & Continuous

Ethical Monitoring
 - Ensure all VPA agents are fully functional & continuously monitored for ethical performance in live production.

Real-time ethical performance dashboard operational; continuous ethical audit reports.

3.3 Global Compliance & External Audit Preparation

 - Prepare for **all external compliance audits (AIDA, EU AI Act, ISO 27001, etc.)**.
 - Ensure all VPA-related documentation & system logs are impeccable for regulatory scrutiny.

Compliance certifications achieved (e.g., ISO 27701, specific AI ethics certifications).

3.4 Long-Term Technology Roadmap & Future-Proofing

 - Develop 3-5 year technology roadmap, outlining future enhancements & strategic tech investments.

3-5 year tech roadmap document.