

## Document 3: Project Charter – AI Infrastructure Overhaul

**Project Code:** ALPHA-OMEGA-99

**Project Manager:** Elena Rodriguez

**Priority Level:** P1 (Critical)

**Status:** Approved for Implementation

### 1. Project Purpose

To modernize the underlying data architecture to support the **AI-Powered Strategy Planning System**. The current infrastructure suffers from high latency (\$>200ms) which prevents real-time strategy adjustments.

### 2. Scope of Work

- **Data Lake Migration:** Move 4.2TB of legacy structured data to a unified vector-optimized cloud environment.
- **API Integration:** Develop custom middleware to connect the Strategic Engine with real-time market feeds (Bloomberg/Reuters APIs).
- **Security Layer:** Implement AES-256 encryption for all data at rest and in transit.

### 3. Resource Allocation

Resource Type	Description	Allocation
Human Capital	Senior Data Engineers	3 Full-Time
Human Capital	AI Ethics Consultant	10 Hours/Week
Financial	Infrastructure Budget	\$120,000
Technology	GPU Clusters	4x NVIDIA H100 (On-demand)

### 4. Risk Assessment & Mitigation

- **Risk R1: Data Silos.** \* *Description:* Historical data in the HR department is in a format incompatible with the new ingestion engine.
  - *Mitigation:* Deploy a pre-processing ETL (Extract, Transform, Load) script by Week 3.
- **Risk R2: Token Cost Inflation.** \* *Description:* High usage of LLM tokens during the testing phase may exceed the \$120k budget.
  - *Mitigation:* Implement a hard-cap usage monitor on the developer API keys.

### 5. Timeline Milestones

1. **Phase 1 (Preparation):** Complete by March 15.
2. **Phase 2 (Migration):** Start March 16; End April 10.
3. **Phase 3 (Testing):** User Acceptance Testing (UAT) to conclude by May 1.

