

# AI Data Ingestion Process

**Operational flow for raw AI telemetry ingestion and system-of-record normalization.**

Ternary ingests and normalizes raw AI consumption data alongside public cloud billing telemetry. This consolidates disparate APIs and invoices into a single, structured ledger for consistent financial mapping.

## BLENDABLE CLOUD BILLS

AWS Bedrock, Vertex AI, etc.  
Ingests cloud bills and isolates AI service lines, filtering out unrelated compute.

## DIRECT AI BILLS

OpenAI, Anthropic APIs, etc.  
Retrieves billing files from secure storage buckets (AWS S3, GCP, Azure, OCI).

## BUSINESS METADATA

Cost centers, GL codes, project mappings, business units, and revenue metrics via CSV.



## THE UNIVERSAL SPEND LEDGER™

Reconciles raw ingestion streams (compute hours, API tokens, license fees) into a standardized taxonomy. The normalized dataset maps directly to financial dimensions, creating an auditable, ERP-ready record of technology expenditure.

### 1. INGESTION APPROACHES

#### Direct Vendor Invoices:

Retrieves invoices and token telemetry (OpenAI, Anthropic) directly from secure storage buckets (AWS S3, GCP Buckets, Azure Blob, OCI) managed by your organization.

#### Blended Cloud Billing:

Parses cloud billing datasets (GCP, AWS) and isolates AI-specific service line items (e.g., Bedrock, Vertex AI) from broader compute and database infrastructure costs.

### 2. INGESTION FREQUENCY

#### Cloud Ingestion (Daily):

AI costs routed through cloud providers refresh on a daily cadence, syncing telemetry alongside your broader public cloud infrastructure datasets.

#### Direct Invoices & Billing APIs:

Updates depend on vendor capability. Ternary syncs direct billing streams via near-real-time APIs or processes standard monthly invoice exports as they are generated.

**Ternary consolidates both cloud API line items and direct vendor invoices, standardizing diverse ingestion pipelines into a single financial ledger.**

# Metadata Mapping & Cost Attribution

Reconciling raw consumption telemetry with business structures.

## 3. TAG ATTRIBUTION & ENRICHMENT

### Import Native Tags:

Automatically imports model types, user keys, and resource labels directly from source cloud and direct vendor billing streams.

### In-Platform Enrichment:

Appends, corrects, or overrides metadata within Ternary to solve poor tagging. This supports granular cost allocation (department, cost code, LOB) and splits shared models.

## 4. CSV METADATA INTEGRATION

### Business Structure Import:

Ingests organizational cost structures, GL account hierarchies, and business unit alignments directly from custom CSV files exported from your systems.

### Automated Allocation:

Automatically maps projects or accounts in raw bills to official business divisions, aligning technical infrastructure cost lines directly with the corporate centers driving them.



## CORE METRICS: ROI, TRENDS, & ACCRUALS

Ternary combines normalized telemetry with organizational financial metadata to execute three core calculations:

- **ROI Reconciliation:** Holds API token and model compute costs directly against project outputs or product revenue to calculate net financial returns.
- **Spend Tracking:** Monitors model queries (e.g., GPT-4 vs. Claude 3.5), user keys, and divisional run-rates to identify where expenses accumulate.
- **Burn-Rate Forecasting:** Tracks actual credit depletion against prepaid contract terms, projecting true end-dates and supporting accurate monthly accruals.

## DATA SECURITY, ARCHITECTURE, & DEPLOYMENT

- **Security & Compliance:** SOC 2 Type II and ISO 27001 compliant, ensuring secure telemetry and billing data processing.
- **Deployment Options:** Available as a SaaS platform or self-hosted virtual deployment to satisfy internal data residency policies.
- **Architecture:** Integrates directly above cloud providers and ERPs without custom code, local agents, or API modifications.