

APPLIED AI ARCHITECTURE • C-SUITE EDITION

Enterprise Decision Intelligence Autonomous Reasoning & Predictive Cockpits

Transforming fragmented enterprise ERP, CRM, and operational silos into active, auditable decision engines without data leakage or token ambiguity.



DATA PRIVACY
100% Private VPC
Zero External Training

QUERY LATENCY
KPI-Optimized
Near Real-Time Lineage

RECURRING TCO
Nominal / Capped
Zero Token Ambiguity

DEPLOYMENT
6-8 Weeks
Zero ERP Interruption

• MARKET REALITY & VALUE GAP

The Enterprise Decision Deficit

Why traditional dashboards and static reporting layers fail to deliver agile executive foresight in complex, multi-entity operations.



"Dashboards detail the past. Decision intelligence forecasts operational friction, isolates EBITDA exposures, and prescribes interventions before month-end."

The Leadership Imperative:

Conglomerates cannot navigate supply chain shifts, multi-subsidiary governance, or capex cycles with rear-view reporting.

GARTNER RESEARCH (2025–2026 BENCHMARK)

> 70%

Decision Velocity Deficit: Corporate leaders confirm traditional BI dashboards fail to accelerate cross-functional strategic velocity or prevent EBITDA erosion.

MCKINSEY GLOBAL INSTITUTE (2025 ANALYSIS)

₹18–24 Lakh Cr

EBITDA Value Unlock: Operating upside projected for enterprises replacing manual analytical queues with autonomous semantic reasoning engines.

CORE OPERATIONAL REALITY

The 18-Day IT Bottleneck: 84% of executive inquiries require manual SQL/analyst turnaround, stalling leadership action while operational risks compound.

Verified Research Register: Gartner Research, *Predicts 2026: Decision Intelligence and Autonomous Strategy*; McKinsey Global Institute, *The State of AI in Global and Indian Industrial Conglomerates* (Q4 2025).

• ARCHITECTURAL MANDATES

Data Sovereignty & Bespoke Business Relevance

Architected strictly around 100% private cloud isolation, zero external model training, and custom enterprise ontology.

PILLAR 01**100% PRIVATE PERIMETER**

No Data Sharing with Outside Organisations

Zero Data Egress: Financial ledgers, customer contracts, and vendor liabilities stay strictly confined inside your sovereign enterprise perimeter.

- **Private Perimeter:** 100% tenant isolation within your AWS, Azure, GCP, or on-premise infrastructure.
- **Zero Model Training:** External foundation models never train on, cache, or retain your corporate records.
- **Bank-Grade Access:** Certified SOC-2 Type II, ISO 27001, and granular column-level RBAC enforcement.

VPC Confinement

Zero Data Egress

Strict RBAC

SOC-2 Type II

PILLAR 02**BESPOKE SEMANTIC MODEL**

KPIs Tailored & Relevant for Your Business

Bespoke Entity Modeling: Generic SaaS templates fail. Zero Zeta calibrates data models around your conglomerate's exact mathematical logic.

- **Harmonized Ontology:** Unifies Revenue, Contribution Margin, and EBITDA definitions across all subsidiaries.
- **Sector-Specific Levers:** Tailored for EPC billing milestones, manufacturing yield loss, and port dwell times.
- **Multi-Entity Rollups:** Instant automated consolidation across holding companies, subsidiaries, and JVs.

Entity Resolution

Multi-Subsidiary Rollup

Formula Alignment

Custom ERP Mapping

Sovereign Perimeter Guarantee: Zero Zeta operates under strict zero-trust network policies with AES-256 encryption at rest, TLS 1.3 in transit, and complete air-gapped VPC deployment readiness.

• ARCHITECTURAL MANDATES

Conversational Lineage & Total Cost Certainty

Delivering natural language executive query ergonomics with audited SQL lineage and nominal, capped recurring compute.

PILLAR 03**EXECUTIVE COPILOT**

Natural Language Query with Verifiable Lineage

Bypassing Analyst Queues: Eliminates multi-week IT turnaround. Leaders interrogate live systems conversationally with mathematically certified audit trails.

- **Conversational Inquiry:** Ask complex working capital and milestone questions via mobile voice or desktop text.
- **Audited SQL Attribution:** One-click inspection cites exact ERP tables, general ledger rows, and CRM records.
- **Zero Hallucination:** Models never invent numbers—queries compile into deterministic, verified database SQL.

Plain English Query

Audited SQL Lineage

Zero Hallucination

KPI-Optimized Speed

PILLAR 04**TCO PREDICTABILITY**

Nominal Recurring Cost & Zero Token Ambiguity

Total TCO Predictability: Eliminates volatile "pay-per-token" surges. Zero Zeta separates intent parsing from local database compute.

- **₹0 Token Compute:** 95% of math, aggregations, and forecasts run deterministically in your data lakehouse.
- **Lean Intent Parsing:** Models parse natural language intent strictly under 500 tokens per executive query.
- **Private Open-Weight Models:** Deploy Llama 3 or Mistral inside your VPC for capped, zero-API-fee operation.

Local Semantic Plane

Capped Monthly TCO

Zero Token Surprises

Fixed Cloud Run-Rate

Predictable Financial Governance: Capped monthly infrastructure hosting ensures predictable operational expenditure with zero per-seat usage spikes or open-ended token billing surprises.

• ARCHITECTURAL EVOLUTION

Traditional Static BI vs. Zero Zeta Decision Intelligence

Moving from rear-view reporting to forward-looking autonomous simulation and active executive foresight.

Legacy Business Intelligence (The Rear-View Mirror)

- **Descriptive Focus:** Delivers rear-view historical numbers weeks after month-end close.
- **Fragile Dashboards:** Proliferation of contradictory reports with unaligned metric formulas.
- **Heavy IT Dependency:** Custom queries require manual tickets with 2–3 week analyst queues.
- **Zero Simulation:** Incapable of forward-projecting cash flows or procurement shifts.

Zero Zeta Decision Intelligence (The Autonomous Cockpit)

- **Predictive Foresight:** Runs continuous 13-week cash projections and bottleneck alerts.
- **Single Semantic Truth:** Unified business ontology ensures identical metric definitions group-wide.
- **Near Real-Time Copilot:** Executives receive audited SQL answers in seconds via natural text.
- **Active Closed-Loop:** Translates intelligence into direct ERP workflow tasks and interventions.

CAPABILITY DIMENSION

TRADITIONAL STATIC BI

ZERO ZETA DECISION INTELLIGENCE

Query Ergonomics

Static filter dropdowns & developer queues (2–3 wk delay)

Conversational English & Voice Copilot (KPI-Optimized)

Data Lineage

Opaque ETL pipelines & manual spreadsheet reconciliation

100% audited SQL lineage to source ERP transaction rows

Forward Projections

Static historical reports & fragile manual Excel macros

Continuous 13-week automated multi-entity simulations

Data Confinement

Ungoverned desktop spreadsheet proliferation

100% Private VPC / On-Premise zero-egress perimeter

Strategic Impact: Transitioning from descriptive BI reporting to continuous predictive cockpits reclaims an estimated 14 hours per week per executive leader while eliminating metric ambiguity.

PANORAMIC EXECUTIVE TELEMETRY

The Executive Decision Intelligence Cockpit

Simulated panoramic command center synthesizing multi-entity operations across Sales, Capital Projects, Treasury, and Executive Copilot.

Apex Enterprise Holdings — Group Executive Cockpit

SOURCES: SAP S/4HANA (FI/CO/PS) • SALESFORCE CRM • WORKDAY

13-WK CASH INFLOW

₹148.5 Cr

Obligations: ₹112 Cr • + ₹36.5 Cr

PROJECTS HEALTH

92.4%

2 Sites Flagged Variance

COLLECTIONS PIPELINE

₹64.2 Cr

Overdue 60+ Days: ₹18.8 Cr

YTD EBITDA DELIVERY

22.8%

+1.4% Above Budget

Project Milestone Alert

SITE VARIANCE

Project Alpha (Tower 3): Physical progress 32%, capex drawdown 48%.

Root Cause: Steel procurement spike (+14%) and 18-day civil delay.

Executive Copilot Query

AUDITED SQL

"Which accounts pose the greatest liquidity risk over 45 days?"

Copilot: Client Beta has ₹12.1 Cr due in Wk 6 with 42% payment probability. Action: Expedite milestone sign-off.

Citation: Lineage verified via SAP Table ACDOCA & Salesforce CRM.

OPERATING
SUBSIDIARY

YTD
REVENUE

EBITDA
%

13-WK CASH
TRAJECTORY

MILESTONE
STATUS

AI RISK
RATING

Apex
Residential &
Urban

₹118.4 Cr

24.2%

+₹21.5 Cr Surplus

Tower A & B On
Track

LOW RISK

Apex
Commercial
Infra

₹54.2 Cr

18.5%

+₹9.8 Cr Surplus

Civil Contractor
Slip (18d)

MEDIUM
RISK

Apex Industrial
Precision

₹42.2 Cr

26.1%

+₹5.2 Cr Surplus

OEE at 88.4%
(Optimal)

LOW RISK

Apex Global
Logistics &
Ports

₹68.5 Cr

21.4%

+₹11.2 Cr Surplus

Berth
Automation
Complete

LOW RISK

Every cockpit metric links directly to audited ERP transaction ledgers with strict role-based access control (RBAC).

• CLOSED-LOOP ARCHITECTURE

The Continuous Decision Intelligence Value Cycle

How enterprise operational data traverses ingestion, semantic modeling, scenario simulation, and executive execution.

01

Ingestion & Unified Enterprise Data Fabric

Connectors ingest read-only data from SAP, Oracle, Salesforce, MES, and SCADA via streaming CDC with zero operational load or schema disruption.

02

Bespoke Semantic Modeling & Ontology Harmonization

Reconciles entities and formulas across divisions. Establishes immutable mathematical logic for Contribution Margin, Milestone Progress, and Working Capital.

03

Forward Simulation & Predictive Forecasting

Automated algorithms simulate rolling 13-week cash requirements, project milestone slippages, and procurement variances before balance sheet impact.

04

Conversational Copilot & Closed-Loop Action Dispatch

Leaders query conversationally to inspect risks, view audited SQL lineages, and dispatch automated intervention tasks directly into ERP workflows.

KPI-Optimized

Adaptive query execution scaled to enterprise metric complexity.

100% Lineage

Line-by-line mathematical traceability to ERP transactions.

Zero Lag

Real-time automated sync replacing monthly reporting batches.

Dual-Authorization Action Gate

High-impact operational interventions (PO holds, supplier reschedules, credit limit alerts) require role-gated executive sign-off before ERP commit.

Automated Model Calibration

Forward simulation models run continuous automated back-tests against weekly transactional actuals, eliminating drift and keeping variance within $\pm 1.5\%$.

Closed-Loop Governance: 100% of dispatched actions retain cryptographic audit lineages, connecting boardroom directives directly to transactional ERP journal entries.

• ENTERPRISE DATA FABRIC

6-Layer Enterprise Technical Architecture

Decoupled technology stack guaranteeing sovereign security, deterministic SQL computation, and KPI-optimized execution.

LAYER 06 • PRESENTATION Executive Presentation & Action Dispatch Layer

Panoramic Web Cockpit, Microsoft Teams & Slack Copilot bots, automated ERP task write-back.

LAYER 05 • AI COMPILER Natural Language Orchestration & SQL Compiler

Conversational parser, semantic SQL compiler, hallucination guardrails, and role-based access filtering.

LAYER 04 • SEMANTICS Bespoke Semantic Plane & Business Metric Engine

Standardized business ontology, multi-entity resolution, deterministic cash & margin calculations.

LAYER 03 • STORAGE Sovereign Enterprise Data Lakehouse / Warehouse

Dedicated private Snowflake, Databricks, BigQuery, or PostgreSQL database housed strictly in your VPC.

LAYER 02 • INGESTION Change Data Capture (CDC) & Streaming Telemetry

Airbyte, Debezium, and Kafka pipelines guaranteeing zero transaction lockups or operational database load.

LAYER 01 • ERP SOURCES Enterprise Transactional Systems Plane (Read-Only)

SAP S/4HANA, Oracle ERP Cloud, Microsoft Dynamics, Salesforce CRM, Workday, WMS, SCADA systems.

Sovereign Private VPC

Housed 100% inside your dedicated cloud perimeter (AWS, Azure, GCP) or on-premise cluster.

ZERO DATA EGRESS • CMEK AES-256

Deterministic Safety

Natural language translates strictly into audited SQL compiled against semantic formulas.

ZERO HALLUCINATION • LINE-LEVEL SQL

Statutory & DPDP Ready

Inherits existing ERP RBAC and column permissions, aligned with Indian DPDP Act & ISO 27001.

GRANULAR RBAC • FULL AUDIT TRAILS

Zero Disruption Architecture: Connectors operate in strict read-only mode using database read-replicas. Deployment requires zero changes to core ERP database schemas, table indexes, or active transaction pipelines.

• STRATEGIC ALIGNMENT

Strategic & Financial Leadership Architecture

Empowering corporate Chief Executives and Chief Financial Officers with forward-looking capital clarity and margin preservation.

Chief Executive Officer (CEO)

GROUP
VISION

Executive Oversight: Command group performance, isolate cross-subsidiary friction, and simulate capital allocations with instant foresight.

- **Multi-Entity Rollups:** Automated consolidation of EBITDA, revenue, and capex across all units.
- **Rapid M&A Onboarding:** Harmonizes newly acquired entity schemas into group models within weeks.
- **Macro Shock Modeling:** Simulates interest rate shifts, export tariffs, and raw material inflation.

Group Synergy

Capital Allocation

Governance

Chief Financial Officer (CFO)

TREASURY &
MARGIN

Treasury & Margin Control: Replace static reviews with rolling 13-week liquidity models, working capital simulations, and leakage alerts.

- **13-Week Cash Foresight:** Continuous liquidity projections synthesized from live receivables and payables.
- **Working Capital Guardrails:** Proactively surfaces inventory build-ups and delayed billing milestones.
- **Audited Ledger Citations:** Every metric cites underlying general ledger journal entries and tax accounts.

13-Week Treasury

Receivables Risk

SOX Compliance

SAMPLE EXECUTIVE CONVERSATIONAL INQUIRIES

"What is our projected cash surplus across Indian subsidiaries over the next 60 days if collection cycles slip by 12%?"

"Which division has experienced the greatest margin compression in Q3, and what are the top 3 underlying procurement cost drivers?"

Fiduciary Assurance: Executive conversational inquiries are cryptographically recorded in immutable audit logs to satisfy internal audit committees and board-level governance standards.

• OPERATIONAL GOVERNANCE

Operational & Supply Chain Leadership Architecture

Bridging plant-floor telemetry, supply chain fulfillment, and asset utilization into real-time executive foresight.

Chief Operating Officer (COO)

SUPPLY CHAIN & THROUGHPUT

Throughput Governance: Synchronize raw material staging, plant OEE, and logistics fulfillment across distributed operating assets.

- **Bottleneck Isolation:** Surfaces upstream delays across manufacturing lines before assembly halts.
- **Supplier SLA Scoring:** Real-time delivery fulfillment tracking with automated SLA penalty triggers.
- **Corridor Turnaround:** Predicts fleet detention, demurrage exposure, and freight bottleneck risks.
- **Yield Variance Modeling:** Maps raw material grade variances directly to finished defect rates.

Throughput Velocity

Supplier SLA

Corridor Logistics

VP Plant Operations & Logistics

PLANT OEE & TRANSIT

Plant-to-Ledger Synthesis: Eliminate operational blind spots and freight delays with predictive telemetry linked to ERP accounts.

- **Shift Benchmarking:** Evaluates machine uptime, shift fatigue, and tooling wear against targets.
- **Inter-Plant Load Balancing:** Redistributes production orders based on live power tariffs and line capacity.
- **Multimodal Freight Tracking:** Bridges port container yard dwell times with inland transport schedules.
- **Predictive Spares Staging:** Triggers preventive replacement parts staging 14 days ahead of MTBF limits.

Shift Benchmarking

Inter-Plant Load

Predictive Spares

Throughput Optimization Benchmark: Automated cross-plant telemetry and predictive bottleneck isolation reduces unplanned production stoppages by up to 34% within the first 90 days of activation.

• SOVEREIGN GOVERNANCE & TALENT

Human Capital & Sovereign IT Governance Architecture

Deploying institutional AI without data privacy liabilities, token budget spirals, or brittle custom integrations.

Chief Human Resources Officer (CHRO)

TALENT &
WORKFORCE
TELEMETRY

Workforce Capacity Modeling: Link human capital deployment directly with operational output and strategic project delivery.

- **Attrition Risk Modeling:** Correlates shift fatigue, overtime load, and tenure with critical role retention.
- **Productivity Benchmarks:** Measures billable utilization, learning curve velocity, and output per FTE.
- **Engineering Skill Gaps:** Proactively flags specialized technical shortages before mega-projects stall.
- **Succession Pipeline:** Maps internal talent progression against multi-year group expansion targets.

Attrition Risk

FTE Productivity

Skill Gap Mapping

Chief Information Officer (CIO)

SOVEREIGNTY &
SECURITY

Sovereign Enterprise AI: Deploy institutional decision intelligence without data privacy risks, token cost spirals, or brittle custom code.

- **100% Private VPC:** Zero data egress beyond designated cloud tenancies or on-premise clusters.
- **Directory-Level RBAC:** Granular column- and row-level permissions enforced via Active Directory.
- **Fixed Cloud Run-Rate:** Capped monthly infrastructure compute with zero usage-based billing spikes.
- **Audited Model Lineage:** Full audit logs capturing natural language translation and compiled SQL queries.

Zero Data Egress

Directory RBAC

Fixed Cloud Budget

Regulatory & Security Compliance: Zero Zeta architectures strictly conform to the Digital Personal Data Protection (DPDP) Act, ISO/IEC 27001 standards, and sovereign data localization mandates.

• INDUSTRY APPLICATIONS

Specialized Vertical Solutions & Connected Operations

Calibrated for the intricate operating realities of heavy engineering, discrete manufacturing, EPC, and critical infrastructure.



Discrete & Process Manufacturing

SCADA-to-P&L Integration: Connect sensor telemetry with financial ledgers to eliminate scrap and maximize machine OEE.

- **Predictive Maintenance:** Triggers spares procurement based on real-time vibration signatures.
- **Yield Optimization:** Adjusts recipe parameters automatically against incoming material variances.

EPC & Capital Infrastructure Projects

Contractor & Capex Control: Prevent billing disputes, verify physical site progress, and forecast working capital drawdowns.

- **Milestone Verification:** Reconciles certified site progress against invoice drawdowns automatically.
- **Material Burn Tracking:** Real-time alerts for steel, cement, and fuel expenditure variances.

Port Logistics, Supply Chain & Fleets

Multimodal Freight Visibility: Eliminate container demurrage, optimize berth allocation, and streamline corridor dispatching.

- **Demurrage Prevention:** Identifies customs clearance bottlenecks 72 hours prior to vessel docking.
- **Route Profitability:** Dynamic cost allocation factoring in diesel fluctuations and toll expenses.

Deep Domain Ontology: Zero Zeta models industry-specific entities (e.g. Metric Tonnes, Heat Numbers, Berth Dwell Times) natively into the core query layer.

• PREDICTABLE TOTAL COST OF OWNERSHIP

Nominal Recurring Cost. Zero "Token Bill" Ambiguity.

Why enterprise decision intelligence runs at a fraction of generic LLM costs, with 100% budget predictability and zero open-ended API surprises.

Deterministic Local Math

₹0 TOKEN COMPUTE

Local Execution: 95% of math (joins, aggregations, forecasting, variance modeling) runs deterministically inside your data lakehouse for absolute ₹0 token cost.

Lean Intent Translation

< 500 TOKENS / QUERY

Zero Prompt Dumping: Models parse executive intent strictly into structured semantic SQL. Raw database records are never pushed into external context windows.

Private VPC Open-Weight

FIXED CLOUD INSTANCE

Zero API Volatility: Host private models (Llama 3, Mistral) within your dedicated cloud instance, delivering a completely fixed, transparent monthly run-rate.

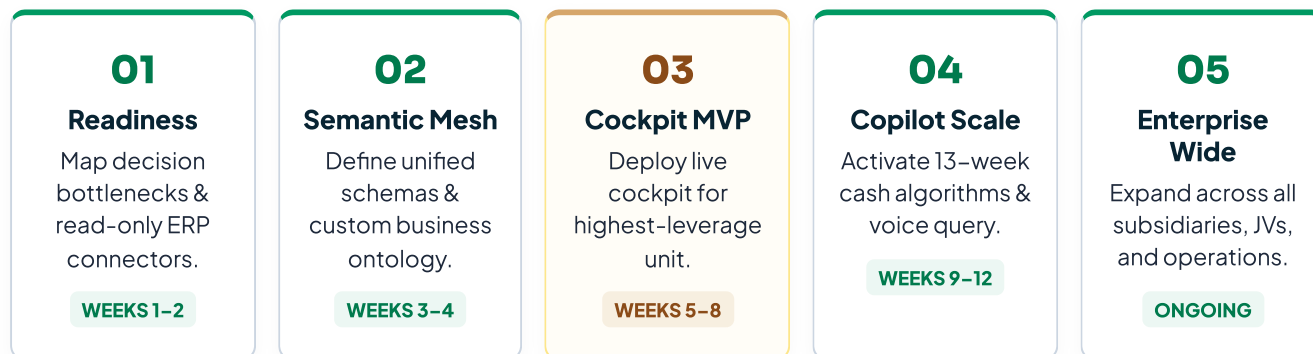
COST DIMENSION	GENERIC LLM WRAPPER / SAAS ADD-ON	ZERO ZETA DECISION INTELLIGENCE
Data Processing Method	Dumps raw database rows directly into prompts	Heavy calculations execute deterministically in local data plane
Token Burn Volume	100,000+ tokens per executive report request	Under 500 tokens per natural language interaction
Monthly Billing Predictability	Volatile, open-ended metered bills that escalate with queries	Nominal, transparent, and capped recurring budget
Data Confidentiality	Exposes proprietary corporate numbers to external APIs	100% private VPC confinement; zero external training

CFO & CIO Peace of Mind: Zero Zeta delivers enterprise AI capability without token bill anxiety or runaway software licensing creep.

• ROADMAP TO BUSINESS VALUE

Start Focused. Deploy in 6–8 Weeks. Scale Enterprise-Wide.

We don't believe in multi-year, open-ended IT overhauls. We deliver demonstrable business outcomes rapidly through a structured 5-phase adoption model.



Rapid Non-Invasive Onboarding

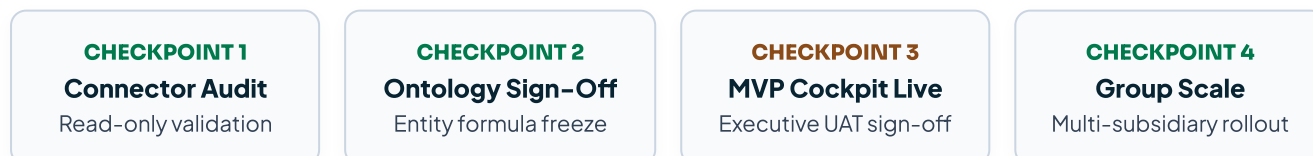
Zero Zeta deploys via pre-built read-only ERP connectors that interface with existing data replicas. Your operational transaction databases experience zero latency, schema alterations, or performance degradation.

- **Read-Replica Connection:** Ingests transactional data with zero schema disruption or lockups.
- **Pre-Built Connectors:** Native integrations for SAP S/4HANA, Oracle ERP Cloud, and Salesforce.

Executive Governance & Training

Adoption includes white-glove executive orientation for C-suite leaders and functional heads, establishing role-tailored copilot views, voice query prompts, and automated exception notification thresholds.

- **Tailored Cockpit Views:** Bespoke layouts configured for CEO, CFO, COO, and BU heads.
- **Conversational Training:** Interactive leadership onboarding for natural language voice queries.



Milestone Value Assurance: "Phase 3 MVP guarantees demonstrable operational utility and executive visibility within 8 weeks before expanding investment enterprise-wide."

• ENTERPRISE LEADERSHIP MANDATE

Lead the Shift to Autonomous Decision Intelligence

How forward-looking industrial leaders transform data complexity into immediate operational superiority.

WHY LEADING ENTERPRISES PARTNER WITH ZERO ZETA

BI Vendors

Build static visual dashboards that report the past with zero forward foresight.

IT Integrators

Focus purely on data pipelines with zero business decision modeling.

Consulting Firms

Deliver static PowerPoint decks with zero live operational software.

Zero Zeta

Unifies business strategy, semantic data planes, and applied AI into one active cockpit.

Zero ERP Disruption

Read-only connectors with automated incremental sync.

Audited Attributions

Live SQL citations for every executive KPI and metric.

Nominal TCO

Heavy compute runs in your plane. Zero token markup anxiety.

Schedule an Executive Architecture Briefing

Evaluate your enterprise data landscape, decision bottlenecks, and AI readiness with our senior advisors.

zerozeta.com/enterprise

Confidentiality Guarantee: All architectural consultations are conducted under mutual NDA with 100% private data perimeter assurances.