

One AI partner. Zero data leaks. Every outcome.

ELMNTX helps enterprises move from AI experimentation to production-grade impact with vendor-agnostic advisory, hands-on implementation, and MLOps governance.

ELMNTX INNOVATION LLC
— UAE | INDIA | KSA

Why ELMNTX?

9 reasons enterprises choose us

Production-First

No Jupyter notebooks as final delivery

Governance as Code

Data lineage, column-level security, compliance

Full-Spectrum AI

LLMs, CV, RL, Graph, Time Series, Edge, XAI

Vector-Ready Infra

Embedding pipelines + vector databases

Conversational DNA

Chatbots + data engineering under one roof

Vendor-Agnostic

Best tool for the job — not a reseller deal

Edge-to-Cloud MLOps

Train on GPUs, infer on MCUs

Metric-Based Success

Decision time, speed, risk reduction

Owned AI Products

Tenzye, ROADBOT, AIBOT, AIBOX

AI/ML CONSULTING

Complete Discipline Coverage — 12 AI Domains

Generative AI

RAG, Fine-tuning, Multi-modal, Guardrails

Machine Learning

Forecasting, AutoML, Responsible AI, XGBoost

Computer Vision

YOLO, SAM, ViT, Edge inference, Video analytics

NLP

NER, mT5/mBERT, LayoutLM, Sentiment detection

LLM & MLOps

Orchestration, CI/CD, Drift detection, Observability

Reinforcement Learning

Dynamic pricing, Bandits, Sim2Real, Fleet AI

Graph ML

Knowledge graphs, GNNs, AML, Supply chain risk

Time Series

Prophet, TFT, DeepAR, Real-time anomaly detection

Recommendation

Two-tower neural, Bandits, Milvus/Qdrant serving

Edge AI & TinyML

Quantization, TF Lite Micro, Jetson, Federated ML

Explainable AI

SHAP, LIME, Constitutional AI, Adversarial testing

Synthetic Data

CTGAN, StyleGAN, Diffusion models, Privacy-preserving



Data Engineering

The Foundation
for All AI

*"Garbage in,
GenAI garbage out."*

We ensure your data is
reliable, fresh, and governed
before a single model trains.

Snowflake

BigQuery

Delta Lake

Kafka

dbt

Airflow

Flink

Milvus

01

Self-Service BI & Governance

Semantic layer (dbt + MetricFlow), Data Mesh, data catalog & lineage (OpenMetadata, Amundsen), column-level security with RBAC.

02

Data Warehousing / Lakehouse

Unify lakes & warehouses on Delta Lake, Iceberg, Hudi. Modernize Teradata/Netezza → Snowflake, BigQuery, Redshift. Lambda/Kappa patterns.

03

Big Data Engineering

Streaming: Kafka/Pulsar + Flink/Spark. Scalable ETL/ELT with dbt, Airflow, Dagster. Data quality via Great Expectations, Soda.

04

Vector & Feature Infrastructure

Embedding pipelines — text, image, multimodal (FAISS, Milvus, Pinecone, LanceDB). Online/offline feature stores (Feast, Tecton) for real-time AI.

Conversational AI

AI That Talks, Acts, and Remembers



Conversational Audit

Review chatbots (Dialogflow, Lex, Rasa) for intent coverage, fallback rates, latency. Deliver a prioritized remediation roadmap.



Agentic Workflows

Multi-turn, action-oriented assistants — book appointments, process refunds, escalate to human with full CRM context.



Omnichannel Orchestration

Unify chat + voice (Twilio, Vapi) + WhatsApp + Web with persistent session state and a single analytics layer.



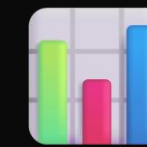
Voice-First AI

Low-latency ASR + TTS + LLM pipelines for telephony and call-center deflection — reducing agent handling time.



Human-in-the-Loop

Seamless handoff with Salesforce, HubSpot, Zendesk. Agent-assist: context, sentiment, and suggested responses in real time.



Conversational Analytics

Automate intent discovery, sentiment trends, drop-off analysis from transcripts. Every conversation = a continuous improvement signal.



TENZY

Agentic AI for Bidding & Tendering

www.tenzye.com

Smart Tender Ingestion

Drop any PDF/RFP — AI extracts requirements, deadlines, and clauses automatically.

Compliance Gatekeeper

One-click validation against 500+ regulations in <90 seconds. Instant violation flags.

Predictive Bidder Intel

Know who will bid, likely winner, and high-risk bidders — before you publish.

Evaluation Engine

Auto-score bids on price, technical, risk, and innovation with custom weightings.

Live Award Simulator

Drag sliders to see real-time impact on cost, risk, and outcome instantly.

Real-Time Risk Profiler

Financial, capacity, litigation, and performance risk scores for every bidder.

Market Pulse Benchmarking

Compare terms to thousands of live & historic tenders in seconds.

Win Strategy Agent

For bidders: crafts higher-scoring responses and optimises pricing to win.

✓ 90–95% pre-award risk accuracy

✓ Up to 70% reduction in evaluation time

✓ Cloud or on-prem · SAP Ariba, Oracle



ROADBOT

www.roadbot.ai

AI-Powered Road Condition & Asset Management Platform



Automated Defect Detection

Potholes, cracks, rutting — detected with 95%+ measurement accuracy using computer vision.



Asset Inventory & Tagging

Signboards, gantries, guardrails — comprehensive inventory built automatically during inspection.



3D Mapping & Point Clouds

Full road geometry reconstruction — precise digital twin of every road segment.



Privacy Protection

Automatic face and license plate blurring baked into the capture pipeline.



Real-Time Dashboards

Live inspection progress, asset health, and condition trends at a glance.



Predictive Analytics

Proactive maintenance scheduling and optimal resource allocation — not reactive fire-fighting.

90% Faster Inspections

95%+ Defect Accuracy

40% Cost Reduction



AIBOT

8-layer architecture · On-premise or private cloud · ERP, CRM, BI, Calendar integration

AI Executive Assistant with Digital Avatar

What AIBOT Does

🗨️ Conversational Interaction

Executives speak or chat naturally — no dashboards, no drilling.

📊 Predictive Analytics

Forecasts and proactive insights surfaced automatically.

🕒 Proactive Briefings

Detects entry, greets executive, delivers daily priority briefing.

⚡ Actionable Responses

Complex queries answered with financial impact explanations.

🔄 Automated Workflows

Schedules meetings, drafts summaries, escalates issues.

💬 Live Interaction Example

Exec enters office — AIBOT detects presence.

[AI] "Good morning, Mohammed. Ready for your briefing?"

[Exec] "What do I need to focus on today?"

[AI] "Three priorities: Q3 results, project cost variation >15%, board meeting at 3pm."

[Exec] "Schedule a meeting with Project Owner & CFO."

[AI] "Scheduled for 4:30pm, after your board meeting. ✓"

Strategic Business Impact

-40%	+35%
Decision Cycle Time	Strategic Alignment
+50%	-60%
Risk Identification Speed	Manual Data Gathering



AIBOX

Secure. On-Prem. Agentic. Enterprise AI Platform.

Business Challenges → AIBOX Resolutions

⚠ Sensitive data exposure to public AI

✓ All processing stays inside your own servers

⚠ Lack of AI-specific security controls

✓ Built-in prompt injection detection + output sanitization

⚠ Data privacy & GDPR compliance

✓ Full audit logs + data residency control

⚠ Agent over-permission risks

✓ Just-in-time access policies per task

⚠ No continuous AI monitoring

✓ Real-time dashboard of all agent actions

3-Phase Deployment

1

Pilot — Quick Wins

Deploy 2–3 agents for one dept.
Measure ROI in 4 weeks.

2

Scale — Integrate & Govern

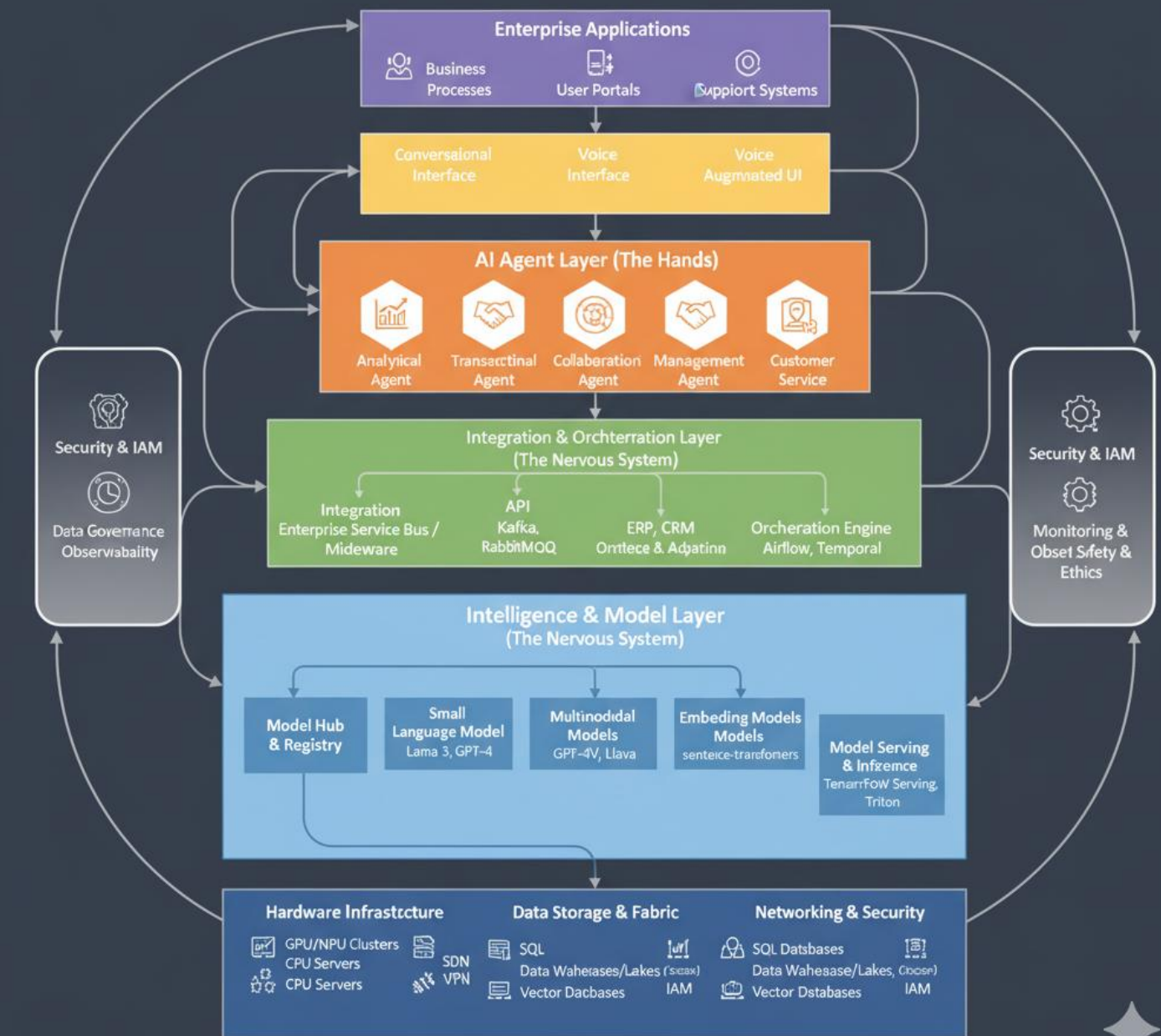
Add system integrations, agent-to-agent handoffs, RBAC.

3

Enterprise — Full Coverage

All departments active, custom fine-tuned models, predictive agents.

Enterprise AI Platform Architecture Block Diagram

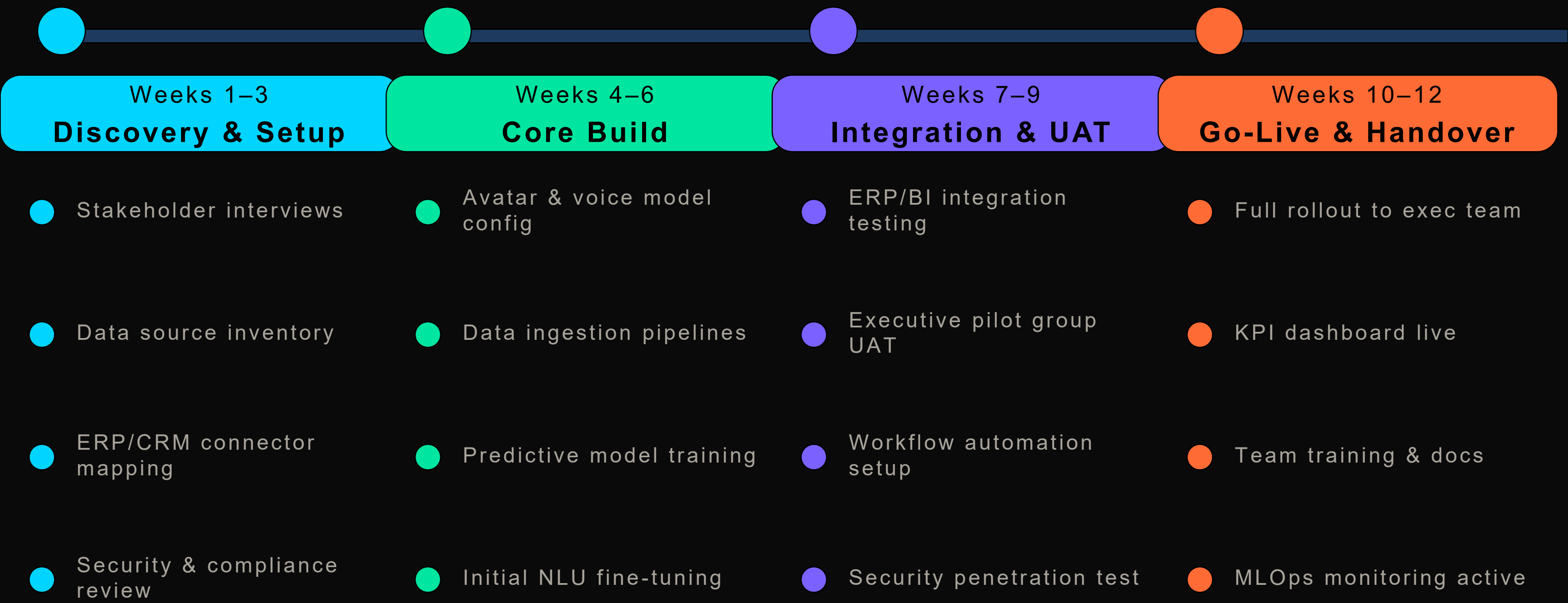


Benefits of AI-BOX

	What It Means?	Why It's Good for Business
Total Data Security & Control	Your company data never leaves your own servers. It is not used to train public AI models.	Keeps your secrets safe. Builds trust with customers.
Custom-Trained for Your Business	You can teach the AI using your own documents, reports, and data. It learns your special terms and ways of working.	The AI gives more accurate and relevant answers. It understands your industry better than a general AI, leading to smarter insights.
Builds a Company "Knowledge Brain"	The AI automatically reads your files and connects the dots between people, projects, and products. This creates a smart map of everything your company knows.	Makes it easy to find information. Helps new employees get up to speed. Reveals hidden connections for better decisions.
Automates Complex Work	The AI can do multi-step tasks automatically. For example, it can analyze sales data, check customer feedback, and write a summary report on its own.	Saves employees time on boring, repetitive tasks. Reduces human error. Allows staff to focus on more important strategic work.
Future-Proofs Your Company	You own the AI system. You are not locked into one vendor's rules, prices, or technology.	You can adapt and upgrade quickly. You have the freedom to try new things without asking for permission. This keeps you ahead of competitors.

Sample Client Roadmap

12-Week AIBOT Deployment — Executive Team (Roadmaps available for all products)



Ready to Move from Experimentation to Impact?

Let's design your AI roadmap — vendor-agnostic, production-grade, metrics-driven.



Website

www.elmntx.com



Email

kris@elmntx.com



Phone

+971 585 69 89 77



Presence

UAE · KSA · India

OUR PRODUCTS



Tenzye



ROADBOT



AIBOT



AIBOX