

Capability Statement

ON-PREM AI & CONTROLLED SYSTEMS

Zynolabs architects and deploys private AI systems for secure data, automation, resilient digital operations, and control at scale.

The Problem: Transformation Stalls Without Control	The Solution: Architecture Before Execution Begins
Advisors leave strategy without deployable system design. →	We architect the systems, pipelines, controls, and delivery paths that turn ambition into fielded capability safely.
AI strategy moves faster than the systems meant to carry it. →	We integrate on-prem AI systems end to end so they operate coherently across secure enterprise boundaries.
Execution fails under unresolved technical drag. →	We place senior operators around delivery so transformation stays measurable, controlled, resilient, and moving.

Our Mission

WHAT WE MAKE POSSIBLE

Transformation breaks when vendors fix isolated symptoms without seeing how the enterprise truly runs. Even strong AI tools create new failure points when placed inside systems with hidden constraints, unclear owners, fragile dependencies, weak data paths, or brittle control boundaries.

Zynolabs makes those constraints visible before capital is committed. We map how strategy, operations, and technology interact day to day, then define the architecture, controls, boundaries, and decision rights that determine whether new capability holds up under real load.

Delivery partners work with us because we reduce the risk their solutions target the wrong problem or land in environments that cannot support them. That clarity protects the client, budget, and team.

The result is fewer reversals, fewer integration failures, and less downstream cleanup. It avoids the quiet costs that erode value over time: overruns, remediation, vendor drift, abandoned tools, and opportunity lost to stalled initiatives.

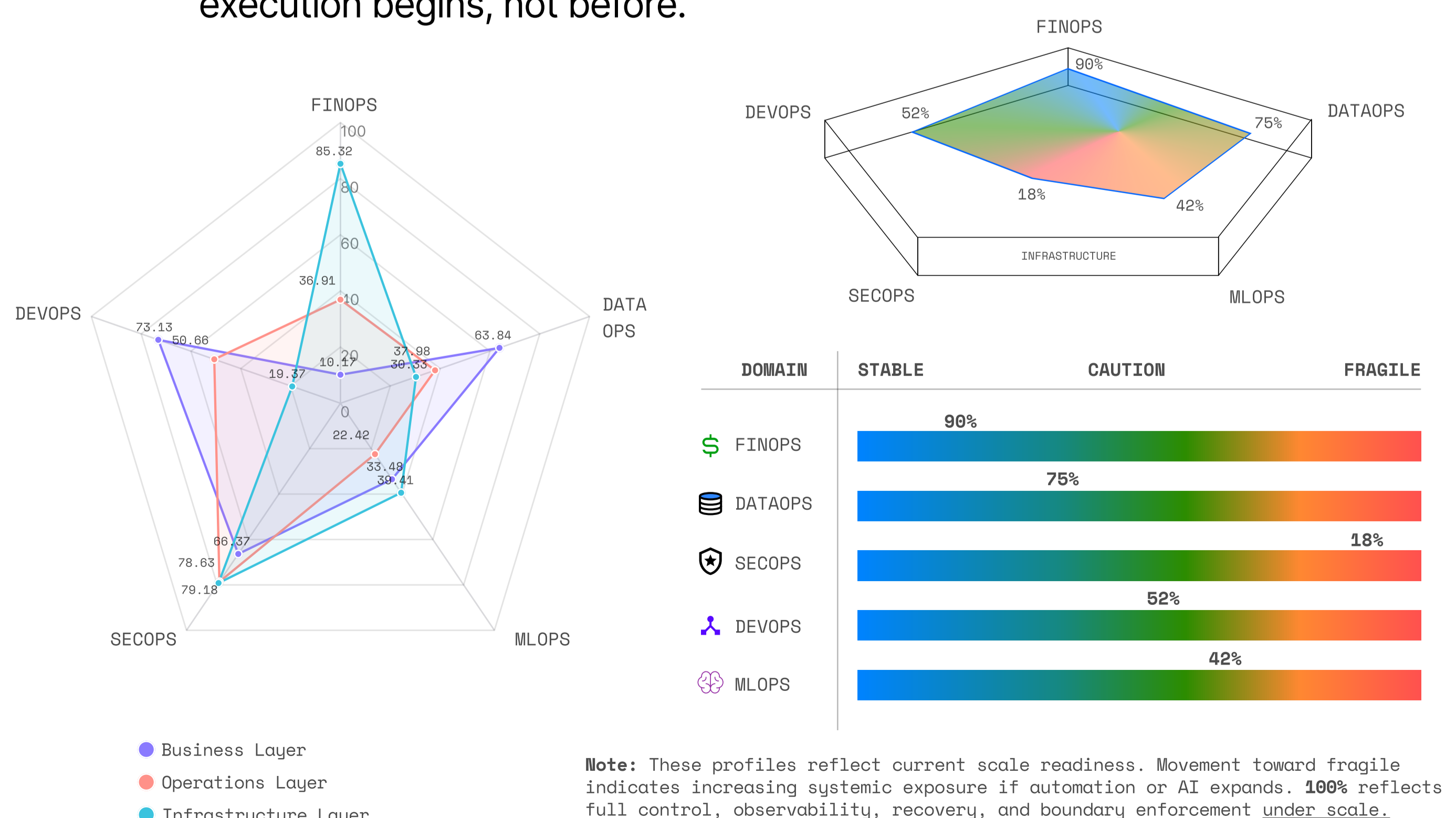
Serious leaders engage Zynolabs before committing to major technology change, because the most expensive mistakes appear after execution begins, not before.

START WITH THIS DX/AI Snapshot

How well can your domains support on-prem AI, automation, and scale without added risk?

Our **Snapshot** gives leaders a clear picture of on-prem AI and transformation readiness. It is a rigorous overview of infrastructure, data readiness, security posture, operational maturity, control, and investment risk across all five DX planes.

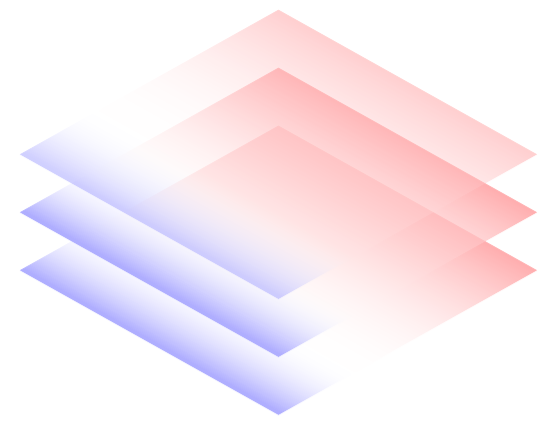
This becomes a factual baseline tied to strategy, risk, and investment priorities.





The DX Map

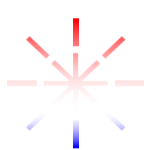
[A TRIPLE HORIZON ARCHITECTURE]



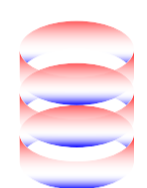
Architecture

THE ELEMENTS of CONTROLLED SCALE

Few firms see the whole system. The elements below show what makes controlled change scale.



Control Gravity is the invisible force of enterprise policies, standards, ownership, and observability enforced consistently across all horizons.



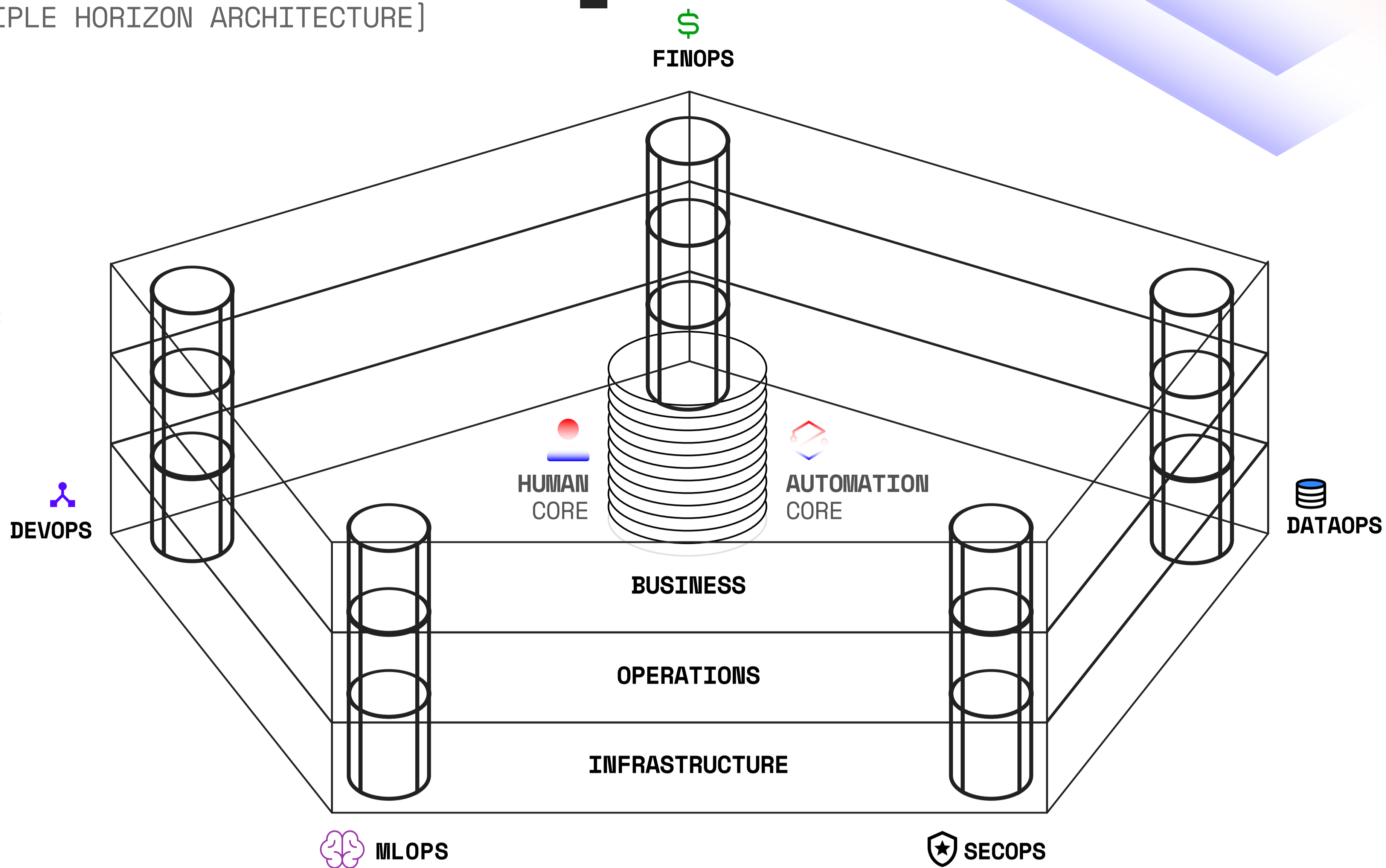
The **three horizons** align decisions, execution, and infrastructure so transformation holds under operational pressure.



The **Automation Core** captures work that can be automated or augmented without losing judgment, accountability, control, or assurance.



The **Human Core** is the enterprise's lived culture: how people actually make decisions, handle risk, and take responsibility when systems change or fail.



Technical Drag. The Daily Effort Tax.

THE HIDDEN CONSTRAINT

Technical Drag is the hidden tax the enterprise pays every time people try to get work done across disconnected systems, especially when a new solution scales.

This appears as reduced speed and reliability in the organization's ability to deliver value, regardless of how many new products, applications, or services are introduced.

No product, platform, or partner can ignore unresolved drag. The moment new solutions like AI, automation, or advanced analytics attach to the organization, you scale the system's weaknesses into production risk.

The Zynolabs DX Map

WHAT IS OUR FRAMEWORK?

The **Zynolabs DX Map** visualizes the enterprise across three connected horizons and five operating planes. The horizons reflect distinct altitudes of transformation, from business intent, to operational execution, to the systems that support and constrain them under pressure.

At the center, the Control Pillar unifies human judgment, operating culture, and work automation, ensuring decisions made at the top remain enforceable through execution in practice.

The **DX Map Snapshot** is the outcome of a disciplined investigation led by Zynolabs, capturing the true state of the enterprise: how work actually flows, where decisions are made or deferred, and where control holds or breaks across systems daily.

Industries We Serve

DEFENSE AND AEROSPACE
 MANUFACTURING
 LOGISTICS AND SUPPLY CHAIN
 ENERGY AND UTILITIES
 BANKING AND FINANCIAL SERVICES
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 EDUCATION AND TRAINING
 MEDIA, GAMING, AND DIGITAL CONTENT
 HOSPITALITY AND SERVICE OPERATIONS

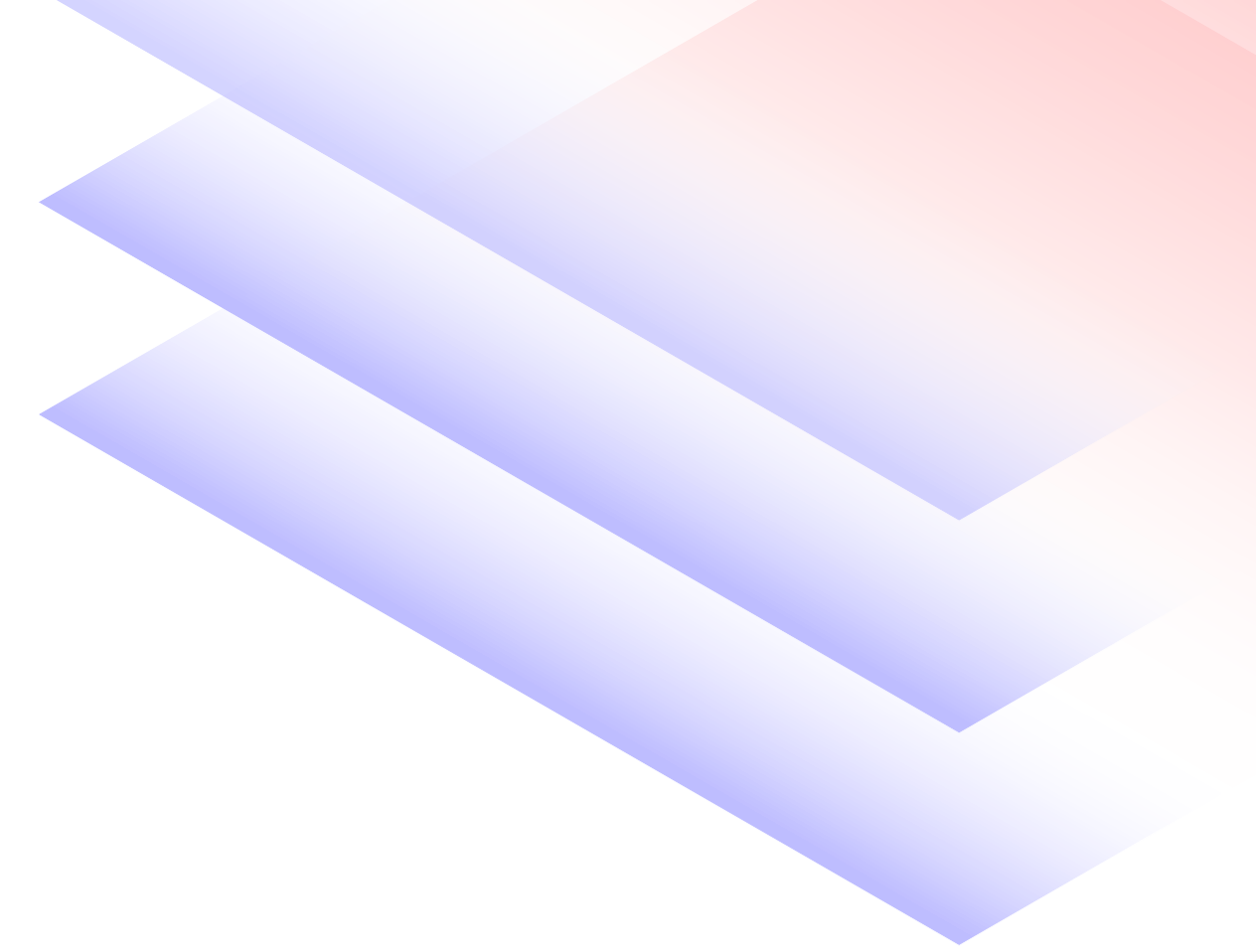
We take on 3-4 transformation engagements per quarter. If you're planning a DX initiative in the next 60 days, request a discovery session at:

www.zynolabs.com
or email audit@zynolabs.com



The DX Map

[A TRIPLE HORIZON ARCHITECTURE - CONTINUED]



Plane	Purpose	Toolchains*
FINOPS	Align technology spend with financial governance, workload strategy, and cost control.	CAST AI, KUBECOST, APPTIO CLOUDABILITY, FINOUT, AWS COST EXPLORER, AZURE COST MANAGEMENT, GOOGLE CLOUD RECOMMENDER, SPOT.IO, TERRAFORM COST POLICIES
DATAOPS	Build governed data pipelines that make analytics, automation, and AI reliable.	GITHUB ACTIONS, GITLAB CI, ARGOC, JENKINS, KUBERNETES, HELM, DOCKER, TERRAFORM, PULUMI, PROMETHEUS, GRAFANA, N8N
DEVOPS	Standardize deployment, environments, automation, observability, and release control.	AIRBYTE, FIVETRAN, MELTANO, DBT, DAGSTER, PREFECT, GREAT EXPECTATIONS, SODA, SNOWFLAKE, DATABRICKS, BIGQUERY, REDSHIFT
MLOPS	Operationalize on-prem AI with monitoring, evaluation, and model serving.	MLFLOW, KUBEFLOW, RAY SERVE, SAGEMAKER, VERTEX AI, AZURE ML, WEIGHTS & BIASES, PINECONE, QDRANT, LANGCHAIN, LLAMAINDEX
SECOPS	Embed security, compliance, identity, evidence, and threat detection across systems.	WIZ, PRISMA CLOUD, CROWDSTRIKE FALCON, SOPHOS INTERCEPT X, SPLUNK SOAR, ELASTIC SECURITY, HASHICORP VAULT, OKTA, AZURE AD, NESSUS

* Representative examples for fit.

Case Challenges *

[OTHER STARTING POINTS]

Problem: Operational grid and asset data is fragmented and too slow for predictive action.

Solution: Define high-throughput, event-driven data architecture with edge and core compute boundaries that enable forecasting and fault detection at scale.

Problem: Infrastructure costs spike as AI and emerging technologies leave pilots.

Solution: Implement cost governance, workload boundaries, and FinOps controls so scaling decisions remain predictable and reversible.

Problem: Legacy infrastructure blocks on-prem AI, automation, and edge compute adoption.

Solution: Redesign platform architecture to support secure compute zones, event pipelines, and resilient operations without disrupting critical workflows.

Problem: Factory systems fail to produce clean, real-time data for automation or AI.

Solution: Establish unified data pipelines and control layers that make AI-ready production and closed-loop automation viable.

Problem: Regulated services rely on outdated platforms that cannot support analytics or AI.

Solution: Establish unified data pipelines and control layers that make AI-ready production and closed-loop automation viable.

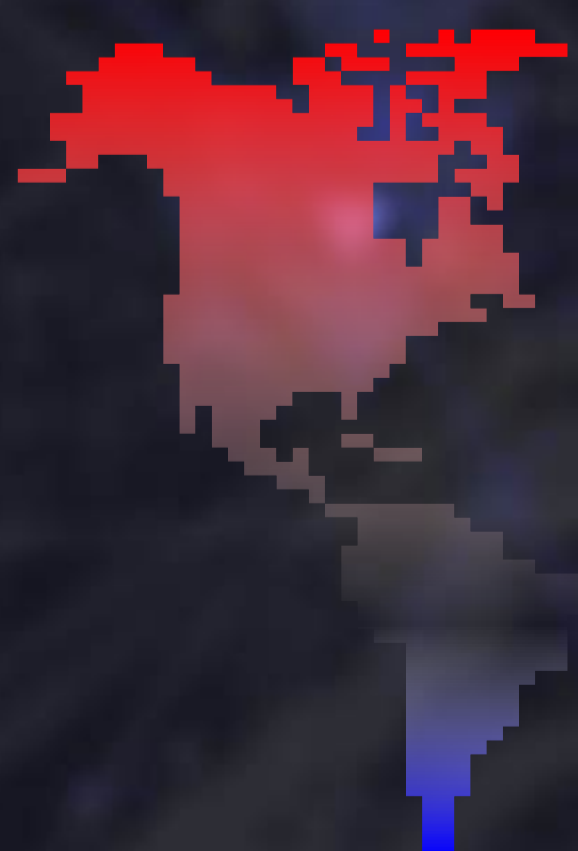
Problem: Automation initiatives fail because systems cannot handle real-time machine telemetry.

Solution: Design streaming, time-series, and ingestion architectures capable of processing live signals with clear ownership and recovery paths.



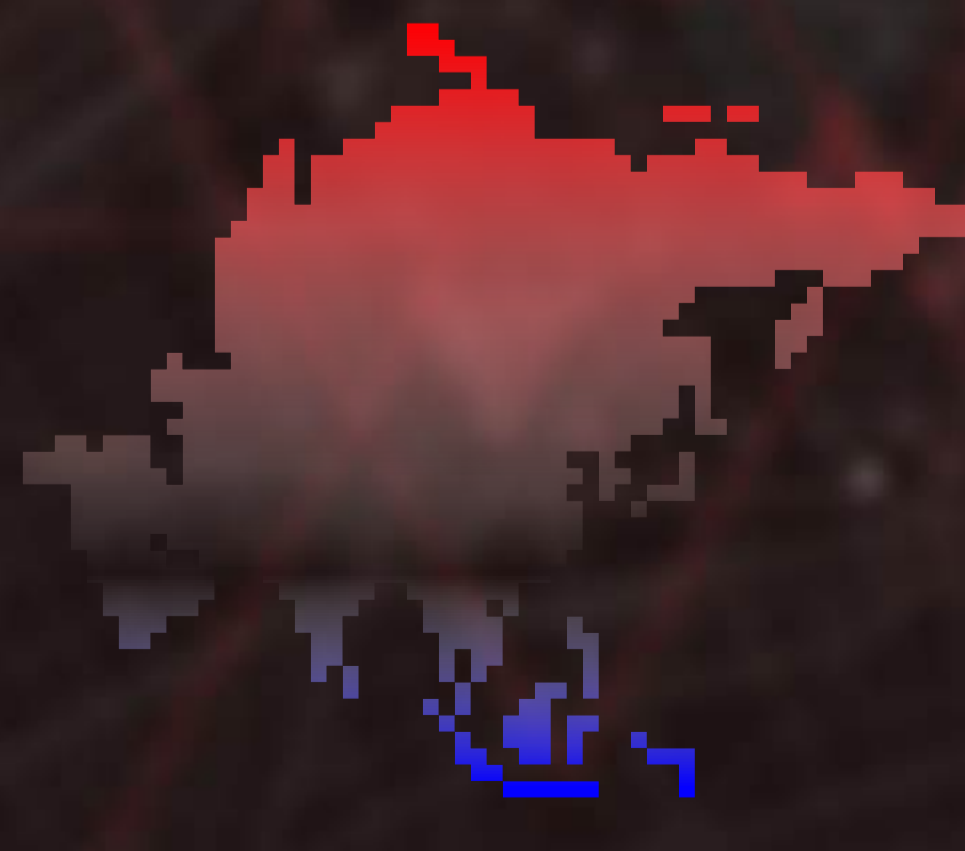
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