



The Converged Cloud-Native Platform

Pure open-source. AI-native. Zero lock-in.
Infrastructure, data, AI, and communication — deployed in
hours, not years.

PURE OPEN SOURCE

AI-NATIVE

CNCF MATURE

COMMUNITY = ENTERPRISE

openova.io · hello@openova.io · 2026

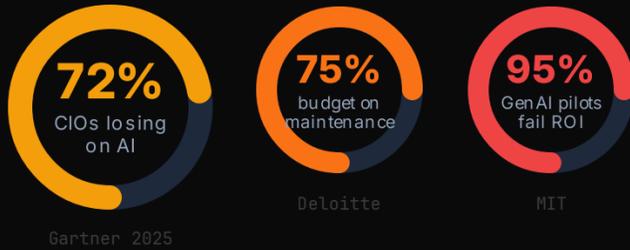
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WHY NOW

The \$6 Trillion Question

Global IT spending hits \$6.15T in 2026 — yet fragmented infrastructure destroys value at every level. The market is repricing the entire software industry.

The Fragmentation Tax



660 apps

SaaS apps per enterprise — \$284M spend
Zylo 2025

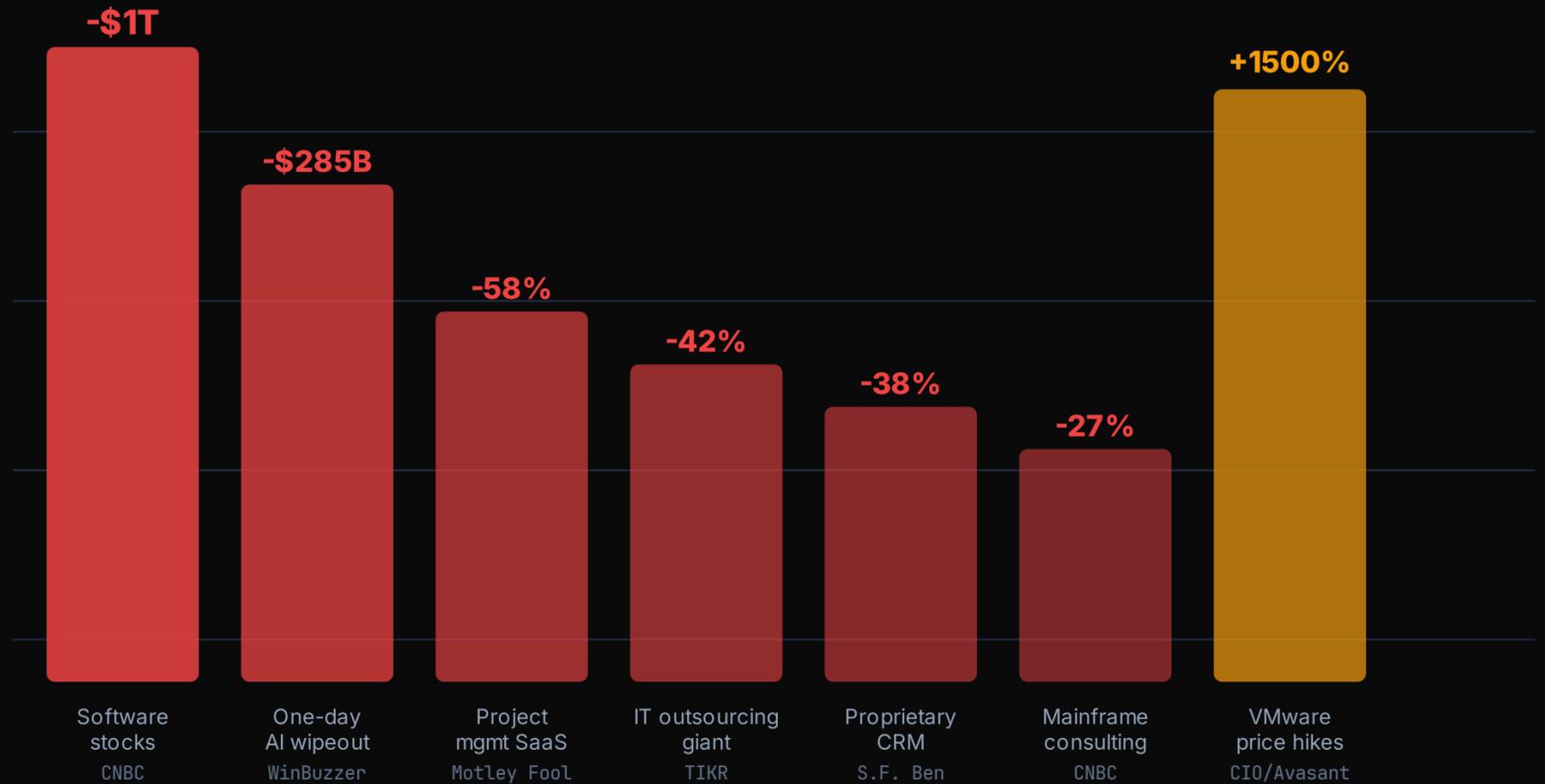
\$21M /yr wasted

Unused SaaS licenses per org (+14% YoY)
Zylo 2025

\$44.5B cloud waste

27% of all cloud spend is waste
Harness

The Market is Speaking — Q1 2026



\$24B made by hedge funds shorting software stocks in 5 weeks

CNBC

94% of core modernizations exceed timelines

IBM IBV



Stay Fragmented

Keep paying the vendor tax, 660 tools, rising costs

OR

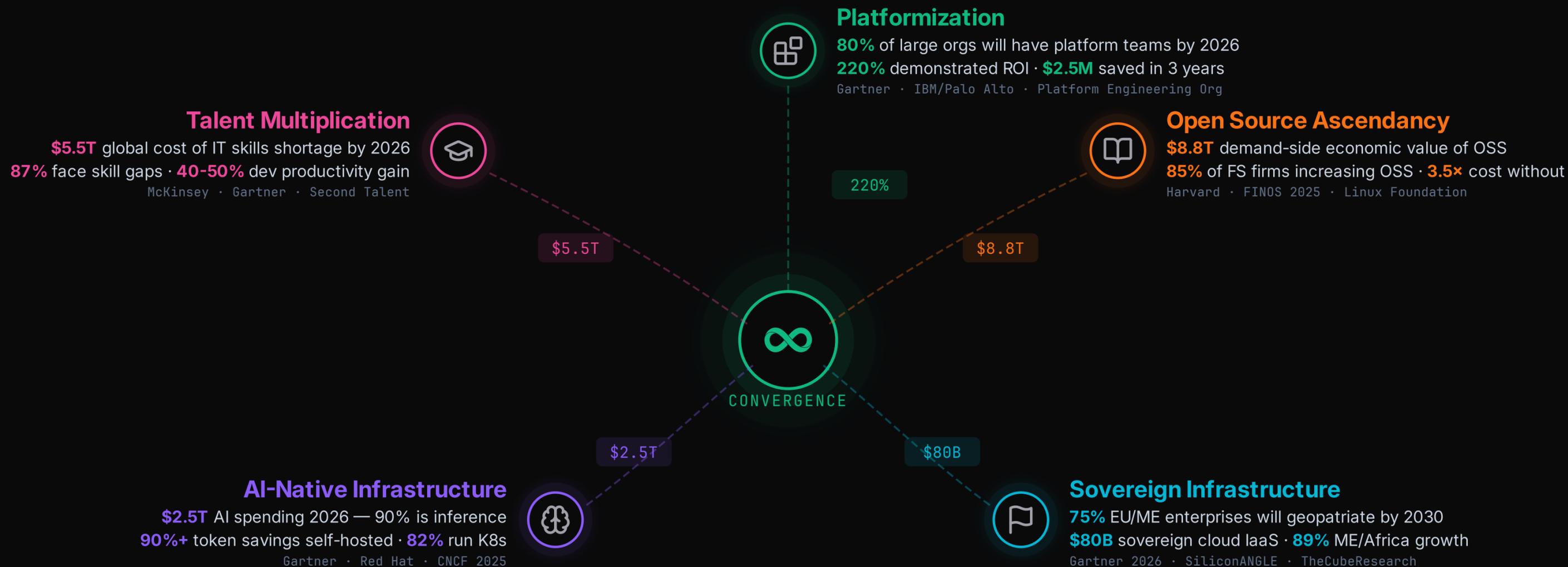


Transform with OpenOva

Converge, automate, and lead the transformation

Five Megatrends. One Convergence.

The enterprise IT industry is converging from fragmented tools to unified platforms. Five megatrends — each backed by billions in investment and analyst consensus — all point to one architecture.



OpenOva sits at the intersection of all five.
 A full-stack, open-source, AI-native platform — with enterprise support. Born cloud-native. Zero lock-in.

Building Blocks — Concept View

One platform, ten domains. Each building block solves a distinct infrastructure challenge — security, networking, observability, data, AI, communication, storage, scaling, GitOps, and lifecycle. Together, they replace the 660-app sprawl with a single converged ecosystem.

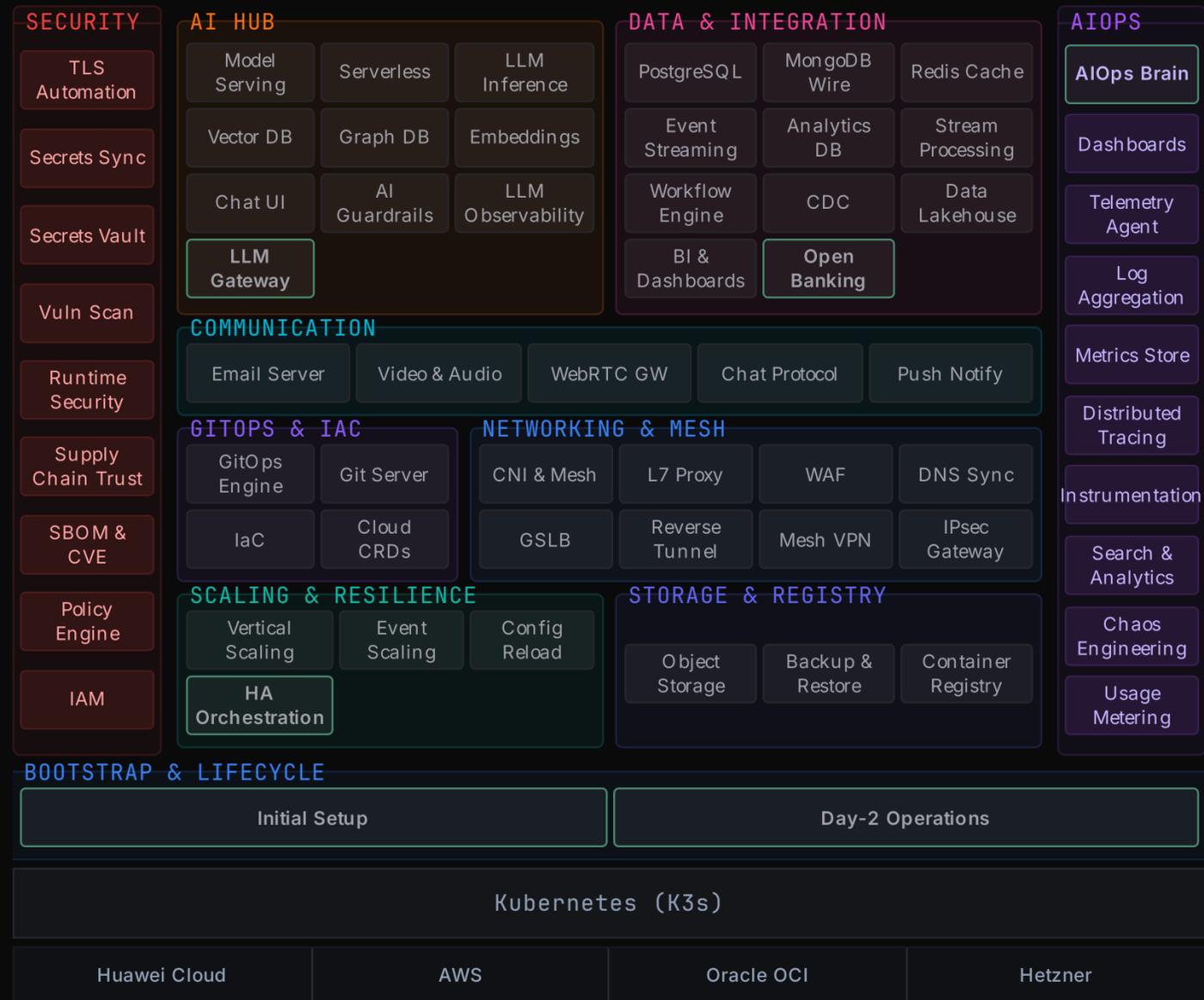
Composable & fractional. Start with one block or adopt all ten. Deploy GUARDIAN + SPINE + PILOT as core infrastructure, then layer CORTEX for AI or FABRIC for data. Each block is independent — no monolithic installs, no all-or-nothing commitment.

Born cloud-native, AI-native. Every component runs as a Kubernetes operator. GitOps-driven. Observable from day one. AI-ready by default. This is the platformization megatrend — purpose-built, not bolted on.

Convergence without the integration tax. What starts as à la carte adoption converges into a unified ecosystem — shared identity, shared observability, shared security — zero glue code, zero custom integrations.

Replace sprawl with components. The building blocks replace 660-app enterprise sprawl with curated, CNCF-graduated components. OpenOva provides the integration glue and operational support — so your team focuses on business logic, not infrastructure plumbing.

AI needs clean infrastructure. 72% of CIOs breaking even on AI isn't about the models — it's fragmented data, siloed observability, and disconnected security. OpenOva unifies the substrate so AI can actually deliver on its promise.



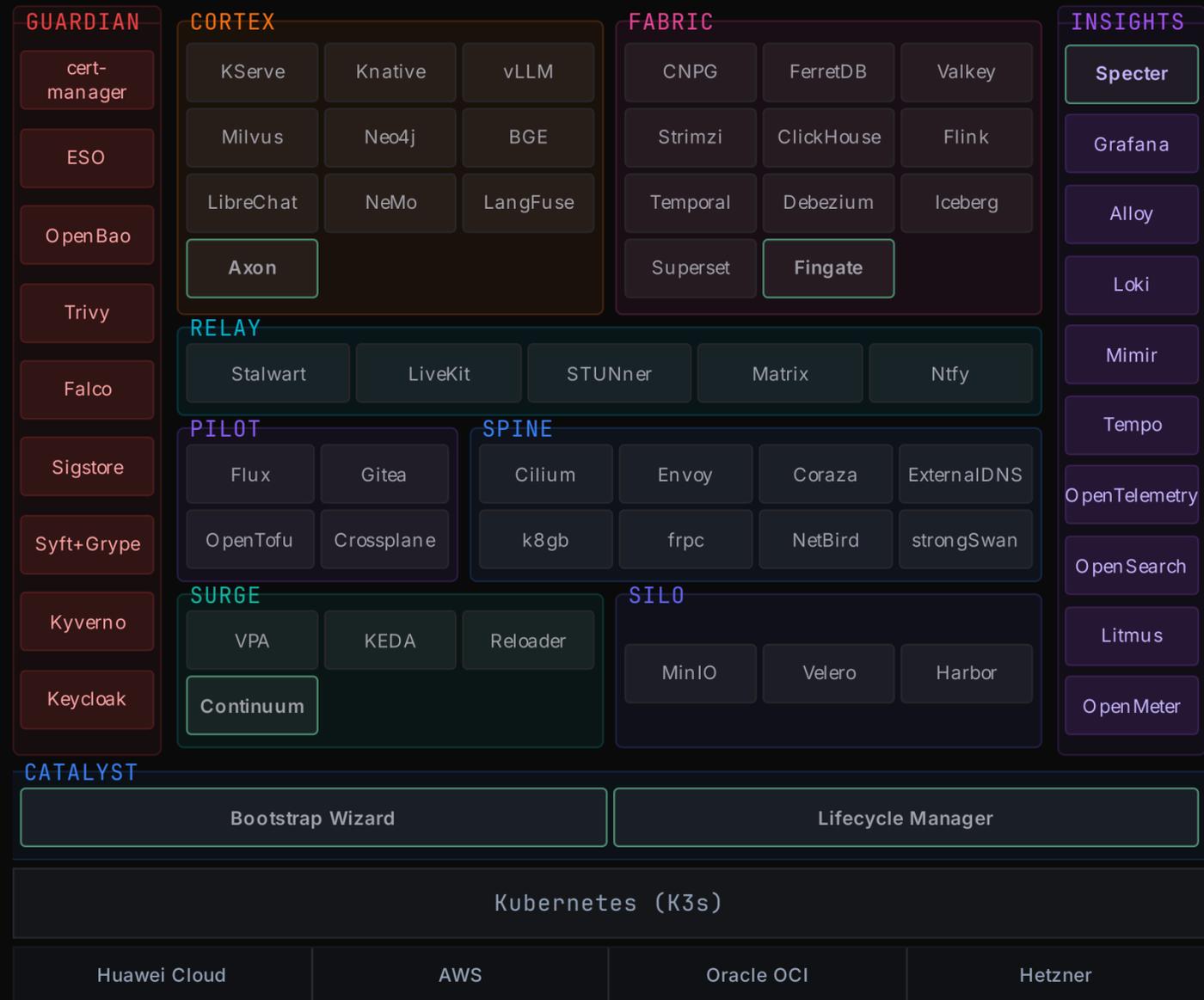
Building Blocks — Tech View

\$8.8 trillion in value. Open source is the foundation of the digital economy. 85% of financial services firms are increasing OSS adoption. FINOS reports 20% of FS firms already saving >\$1M/year. Without open source, rebuilding equivalent technology would cost 3.5x more.

CNCF-graduated, enterprise-proven. Every OpenOva component — Cilium, Falco, Flux, Grafana, Strimzi, KServe, Keycloak — is selected for production maturity and backed by 15.6M cloud-native developers. No rebranded forks. No proprietary wrappers. Real upstream projects.

Enterprise support, zero lock-in. Open source doesn't mean unsupported. OpenOva provides 24/7 enterprise support, SLAs, and expert guidance — while you keep full ownership of every line of code. Switch providers without switching technology. Community edition = Enterprise edition.

Open source is more secure, not less. The largest breaches of the decade all came from proprietary, closed-source software: a supply-chain attack on a network monitoring platform (\$100B+ impact), an endpoint agent update that crashed 8.5M devices worldwide, a file-transfer zero-day exploited across thousands of organizations (\$10B+ damages), a password manager breach exposing encrypted vaults, and a collaboration platform exploit affecting government agencies. Meanwhile, open-source code is audited by millions, with CVEs patched in hours. Intentional backdoors can't hide in code the world can read.



4 Components



PORTFOLIO SPOTLIGHT

CATALYST: Bootstrap & Lifecycle

From initial platform setup to Day-2 operations — guided, automated, and continuously managed. Runs on K3s across any cloud.

Key Capabilities

- Bootstrap Wizard: guided initial platform provisioning
- Lifecycle Manager: component upgrades, health checks, drift repair
- Lightweight Kubernetes via K3s — edge to production
- Multi-cloud: Huawei Cloud, AWS, Oracle OCI, Hetzner
- Internal Developer Platform (IDP) capabilities



Bootstrap Wizard

Guided platform provisioning with interactive configuration and automated deployment



Lifecycle Manager

Continuous Day-2 operations with automated upgrades, health checks, and drift repair



K3s

Lightweight Kubernetes distribution optimized for edge and production workloads



Cloud Providers

Multi-cloud support: Huawei Cloud, AWS, Oracle OCI, Hetzner, and bare metal

Deploy a production platform in hours. Manage its lifecycle with automated upgrades and health monitoring.

4 Components



PORTFOLIO SPOTLIGHT

PILOT: GitOps & IaC

Git-driven delivery and infrastructure as code. Every change is auditable, reversible, and automated.

Key Capabilities

- GitOps continuous delivery with Flux CD
- Internal Git hosting + CI/CD with Gitea
- Infrastructure provisioning with OpenTofu (MPL 2.0)
- Cloud resource management via Crossplane CRDs



Flux

Continuous GitOps delivery engine that reconciles cluster state with Git as the single source of truth



Gitea

Lightweight internal Git hosting with built-in CI/CD pipelines and issue tracking



OpenTofu

MPL 2.0 licensed infrastructure-as-code for declarative cloud provisioning and management



Crossplane

Kubernetes-native cloud resource management using custom resource definitions and reconciliation

Replace ArgoCD + Terraform + GitHub Enterprise with a license-safe, fully integrated GitOps stack.

8 Components



PORTFOLIO SPOTLIGHT

SPINE: Networking & Mesh

eBPF-powered service mesh, L7 proxy, WAF, DNS automation, global load balancing, and secure connectivity.

Key Capabilities

- CNI + service mesh with Cilium (eBPF, mTLS, L7)
- L7 proxy with Envoy + WAF via Coraza (OWASP CRS)
- Automated DNS sync + Global Server Load Balancing (k8gb)
- Secure connectivity: mesh VPN (NetBird) + IPsec (strongSwan)
- Reverse tunneling for hybrid/edge with frpc



Cilium

eBPF-powered CNI with built-in service mesh, mTLS, and L7 visibility



Envoy

High-performance L7 proxy for traffic management, load balancing, and observability



Coraza

Open-source web application firewall implementing OWASP Core Rule Set protection



ExternalDNS

Automated DNS record synchronization between Kubernetes resources and DNS providers



k8gb

Global server load balancing with authoritative DNS for multi-cluster traffic management



frpc

Reverse tunnel proxy for exposing services behind NAT in hybrid and edge deployments



NetBird

Zero-config WireGuard mesh VPN for secure peer-to-peer connectivity across clusters



strongSwan

IPsec VPN gateway for site-to-site encryption and legacy network integration

Replace Istio + F5 + Cloudflare with an eBPF-native networking stack — faster, simpler, no sidecars.

9 Components



PORTFOLIO SPOTLIGHT

GUARDIAN: Security & Identity

End-to-end security: TLS, secrets, scanning, runtime protection, supply chain integrity, policy enforcement, and identity management.

Key Capabilities

- Automated TLS certificate lifecycle with cert-manager
- Zero-trust secrets management: ESO sync + OpenBao vault
- Runtime threat detection with Falco eBPF
- Supply chain integrity: Sigstore signing + Syft/Grype SBOM
- Policy-as-code with Kyverno (validate, mutate, generate)
- Enterprise IAM with Keycloak (OIDC, SAML, FAPI)



cert-manager

Automates TLS certificate lifecycle with Let's Encrypt and private CA integration



OpenBao

MPL 2.0 secrets vault with per-cluster isolation and dynamic credential generation



Falco

eBPF-based runtime threat detection for containers and Kubernetes workloads



Syft+Grype

Automated SBOM generation paired with vulnerability matching and CVE tracking



Keycloak

Enterprise identity and access management with OIDC, SAML, and FAPI support



ESO

Syncs secrets from external vaults into Kubernetes with automatic rotation support



Trivy

Comprehensive vulnerability scanner for container images, filesystems, and IaC templates



Sigstore

Keyless container signing and verification for supply chain integrity assurance



Kyverno

Policy engine for validating, mutating, and generating Kubernetes resources at admission

GUARDIAN wraps your entire platform in zero-trust security — from build to runtime to identity.

10 Components



PORTFOLIO SPOTLIGHT

INSIGHTS: AIOps & Observability

Full observability stack with AI-native operations. Specter's 6 autonomous agents replace legacy SOAR/SIEM — DevSecOps, DevOps, SRE, FinOps, Compliance, and AI Ops.

Key Capabilities

- Unified dashboards with Grafana + Alloy telemetry agent
- Log aggregation (Loki) + metrics store (Mimir) + tracing (Tempo)
- Specter: 6 autonomous AI agents (DevSecOps, SRE, FinOps, Compliance, DevOps, AI Ops)
- Search & analytics with OpenSearch (hot SIEM backend)
- Chaos engineering experiments with Litmus
- Usage metering with OpenMeter for consumption-based billing

 <p>Specter Six autonomous AI agents for DevSecOps, SRE, FinOps, and continuous compliance</p>	 <p>Grafana Unified dashboards for metrics, logs, traces, and alerts in a single pane of glass</p>
 <p>Alloy Next-generation OpenTelemetry collector and telemetry pipeline agent by Grafana Labs</p>	 <p>Loki Horizontally scalable log aggregation system optimized for Kubernetes metadata queries</p>
 <p>Mimir Long-term metrics storage with global query capabilities and multi-tenancy support</p>	 <p>Tempo Distributed tracing backend with native OpenTelemetry support and deep Grafana integration</p>
 <p>OpenTelemetry Vendor-neutral instrumentation framework for automatic trace and metric collection</p>	 <p>OpenSearch Search and analytics engine powering hot-tier SIEM and security event correlation</p>
 <p>Litmus Chaos engineering platform for proactive resilience testing of Kubernetes workloads</p>	 <p>OpenMeter Real-time usage metering and billing engine for consumption-based pricing models</p>

Replace Datadog + Splunk + PagerDuty with a unified, AI-powered observability platform.

4 Components



PORTFOLIO SPOTLIGHT

SURGE: Scaling & Resilience

Intelligent autoscaling, configuration management, and high-availability orchestration.

Key Capabilities

- Vertical Pod Autoscaler (VPA) for right-sizing
- Event-driven horizontal autoscaling with KEDA
- Automatic restart on ConfigMap/Secret changes (Reloader)
- Continuous availability orchestration with Continuum



VPA

Automatically right-sizes pod CPU and memory requests based on actual utilization patterns



KEDA

Event-driven horizontal autoscaling triggered by queue depth, HTTP traffic, or custom metrics



Reloader

Watches ConfigMaps and Secrets for changes and triggers rolling restarts automatically



Continuum

Continuous availability orchestration ensuring zero-downtime deployments and failovers

Scale from 10 to 10,000 pods automatically. Zero-downtime deployments with continuous availability.

3 Components



PORTFOLIO SPOTLIGHT

SILO: Storage & Registry

S3-compatible object storage, backup & disaster recovery, and container artifact registry.

Key Capabilities

- S3-compatible object storage with MinIO
- Kubernetes-native backup & restore with Velero
- Container and artifact registry with Harbor
- Cross-region replication for DR



MinIO

S3-compatible high-performance object storage for cloud-native data and backup targets



Velero

Kubernetes-native backup, restore, and disaster recovery with cross-region replication



Harbor

Enterprise container and Helm chart registry with vulnerability scanning and RBAC

Replace AWS S3 + ECR dependencies with self-hosted, cloud-agnostic storage and registry.

10 Components



PORTFOLIO SPOTLIGHT

CORTEX: AI Hub

Self-hosted AI infrastructure. Full control over models, prompts, and costs. No data leaves your environment.

Key Capabilities

- High-throughput multi-model inference with KServe + vLLM
- RAG pipelines: Milvus vector DB + Neo4j knowledge graph
- AI safety guardrails with NeMo + LangFuse observability
- ChatGPT-like UI for enterprise users via LibreChat
- LLM Gateway (Axon) for managed inference access

 <p>KServe Kubernetes-native model serving with autoscaling, canary rollouts, and multi-framework support</p>	 <p>Knative Serverless platform for deploying event-driven and scale-to-zero inference workloads</p>
 <p>vLLM High-throughput inference engine with PagedAttention for optimal GPU utilization</p>	 <p>Milvus Distributed vector database for similarity search in RAG and recommendation pipelines</p>
 <p>Neo4j Graph database for knowledge graphs, entity relationships, and AI-powered reasoning</p>	 <p>BGE State-of-the-art embedding and reranking models for retrieval-augmented generation</p>
 <p>LibreChat ChatGPT-like interface supporting multiple LLM backends for enterprise AI chat</p>	 <p>NeMo AI safety guardrails framework for input/output filtering and responsible AI deployment</p>
 <p>LangFuse LLM observability platform with prompt tracing, cost analytics, and evaluation tools</p>	 <p>Axon Managed LLM gateway providing subscription-based inference access and rate limiting</p>

Unlike cloud AI services, Cortex runs entirely on your infrastructure. Switch models freely — no API lock-in.

11 Components



PORTFOLIO SPOTLIGHT

FABRIC: Data & Integration

Event-driven data platform: PostgreSQL, streaming, workflows, CDC, data lakehouse, and BI analytics.

Key Capabilities

- Cloud-native PostgreSQL (CNPg) + MongoDB wire protocol (FerretDB)
- Event streaming with Strimzi (Kafka) + Flink processing
- Saga orchestration with Temporal + CDC via Debezium
- Data lakehouse: Iceberg tables + ClickHouse analytics
- Self-service BI dashboards with Superset

 <p>CNPg Cloud-native PostgreSQL operator with HA, automated backups, and declarative management</p>	 <p>FerretDB MongoDB wire protocol compatibility layer running on PostgreSQL for document workloads</p>
 <p>Valkey Redis-compatible in-memory cache and data store with full cluster mode support</p>	 <p>Strimzi Apache Kafka operator for production event streaming with automated topic management</p>
 <p>ClickHouse Columnar OLAP database for real-time analytics on billions of rows with SQL interface</p>	 <p>Flink Unified stream and batch processing engine for complex event processing pipelines</p>
 <p>Temporal Durable workflow orchestration for sagas, long-running processes, and distributed transactions</p>	 <p>Debezium Change data capture platform streaming database changes to Kafka in real time</p>
 <p>Iceberg Open table format enabling data lakehouse architecture with time-travel queries</p>	 <p>Superset Self-service BI platform with interactive dashboards, SQL Lab, and data exploration</p>
 <p>Fingate Open banking platform with FAPI authorization, OBIE APIs, and usage metering</p>	

Replace Oracle + Confluent + Informatica with a unified open-source data stack.

7 Components



PORTFOLIO SPOTLIGHT

FINGATE: Open Banking

End-to-end open banking solution compliant with FAPI and OBIE standards. Built entirely on open-source components from the OpenOva stack.

Key Capabilities

- FAPI-certified authorization with Strong Customer Authentication (SCA)
- OBIE-compliant APIs for accounts, payments, and consent
- Real-time usage metering, billing, and partner settlement
- Payment orchestration with saga patterns and CDC
- API gateway with WAF protection and financial-grade rate limiting



Keycloak (FAPI)

Financial-grade API authorization server with Strong Customer Authentication for PSD2



OBIE APIs

Open Banking Implementation Entity standards for accounts, payments, and consent management



Temporal

Payment orchestration engine for PSD2 consent flows and settlement workflows



OpenMeter

API consumption metering with real-time billing and partner settlement reporting



Envoy + Coraza

API gateway with WAF protection, rate limiting, and financial-grade traffic management



CNPQ

PostgreSQL for transactional ledger data with point-in-time recovery and replication



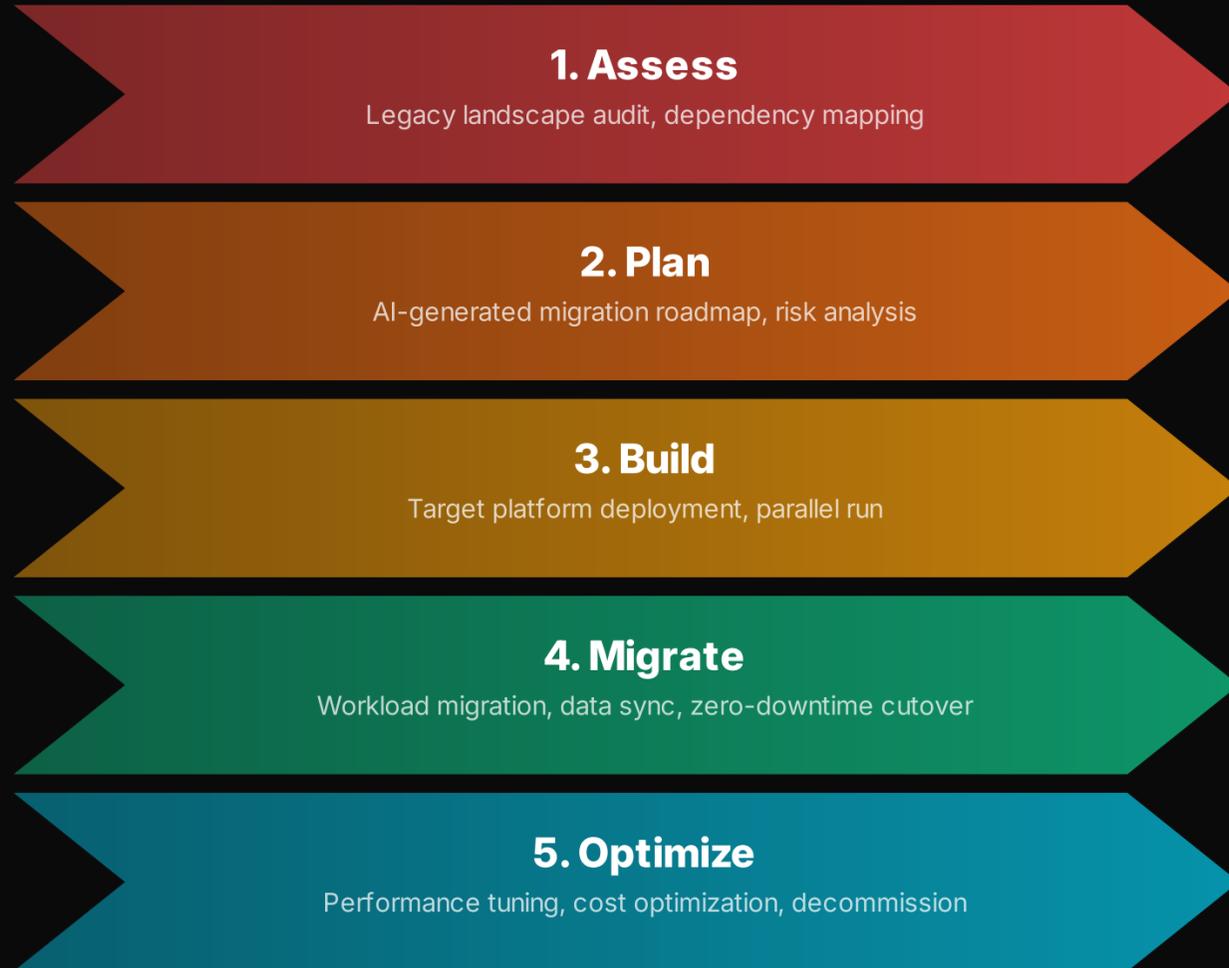
Strimzi + Debezium

Kafka event streaming with CDC for real-time balance synchronization and audit trails

Unlike proprietary banking platforms, Fingate is built entirely on open-source. No per-API-call fees, no vendor dependency.

Exodus: Zero-Downtime Migration

Structured, AI-assisted migration from proprietary to open source.



Proven Migration Paths

FROM	TO	SAVINGS
Red Hat OpenShift	OpenOva (K3s + Cilium + Flux)	€150-300K
VMware Tanzu	OpenOva	€150-300K
Datadog	Grafana Stack	€200-400K
Splunk	Loki + Grafana	€150-300K
Oracle Database	CNPG (PostgreSQL)	€100-300K
Redis Enterprise	Valkey	€50-100K
Confluent Kafka	Strimzi (Kafka)	€80-120K
Auth0 / Okta	Keycloak	€50-150K
Prisma Cloud	Falco + SIEM + Specter	€100-200K

23+ documented migration paths across platform, data, observability, security, and CI/CD

Engagement Model

Three phases take you from assessment to autonomous operations.

Discover

01

Weeks 1-2

- Legacy landscape assessment
- Vendor lock-in audit
- TCO analysis & savings forecast
- Migration roadmap with AI recommendations
- Architecture design review
- Strategy consultancy & digital transformation assessment

Transform

02

Weeks 3-12

- Platform deployment (hours, not months)
- Workload migration (Exodus methodology)
- Specter agent configuration
- Team enablement & training
- Compliance framework alignment
- Statement of Work (SOW) delivery
- Technical Network Management (TNM)

Operate

03

Ongoing

- 24/7 Specter autonomous operations
- Enterprise Subscription Agreement (ESA)
- Expert Network access (80hr/quarter)
- Continuous component updates
- Quarterly business reviews
- Transformation partner program

Strategy Consultancy + Digital Transformation + Subscription Support

The Guild — Expert Network

Global presence with deep expertise in banking, regulated industries, and enterprise Kubernetes.

Muscat — Headquarters

Corporate headquarters, strategic operations, Middle East market

Dubai — Regional Presence

Financial services, enterprise partnerships, Gulf market

Amsterdam — European Hub

European market, regulatory compliance, enterprise sales

Istanbul — Engineering & Operations

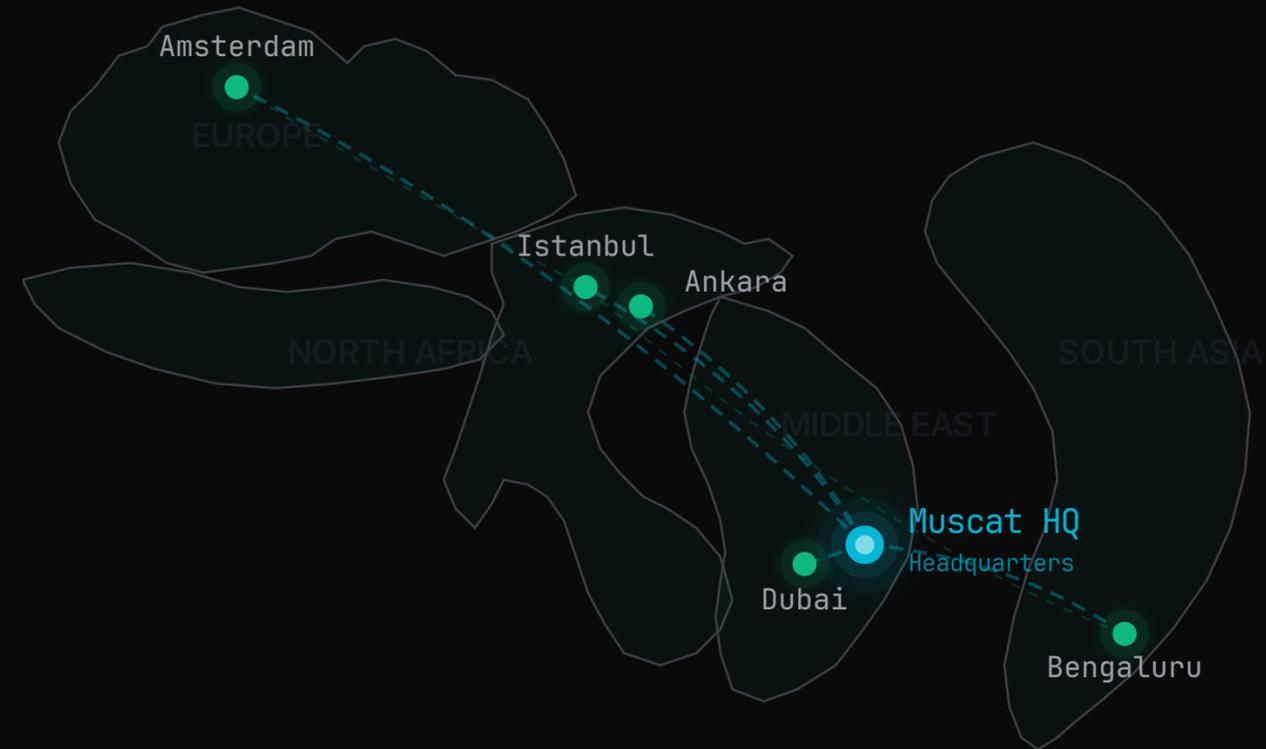
Core development, platform engineering, DevOps, security

Ankara — Engineering Hub

Platform R&D, AI/ML engineering, product development

Bengaluru — Asia-Pacific Hub

Engineering scale, AI/ML talent, APAC market



ROI & Total Cost of Ownership

60-85%

PROJECTED INFRASTRUCTURE SAVINGS

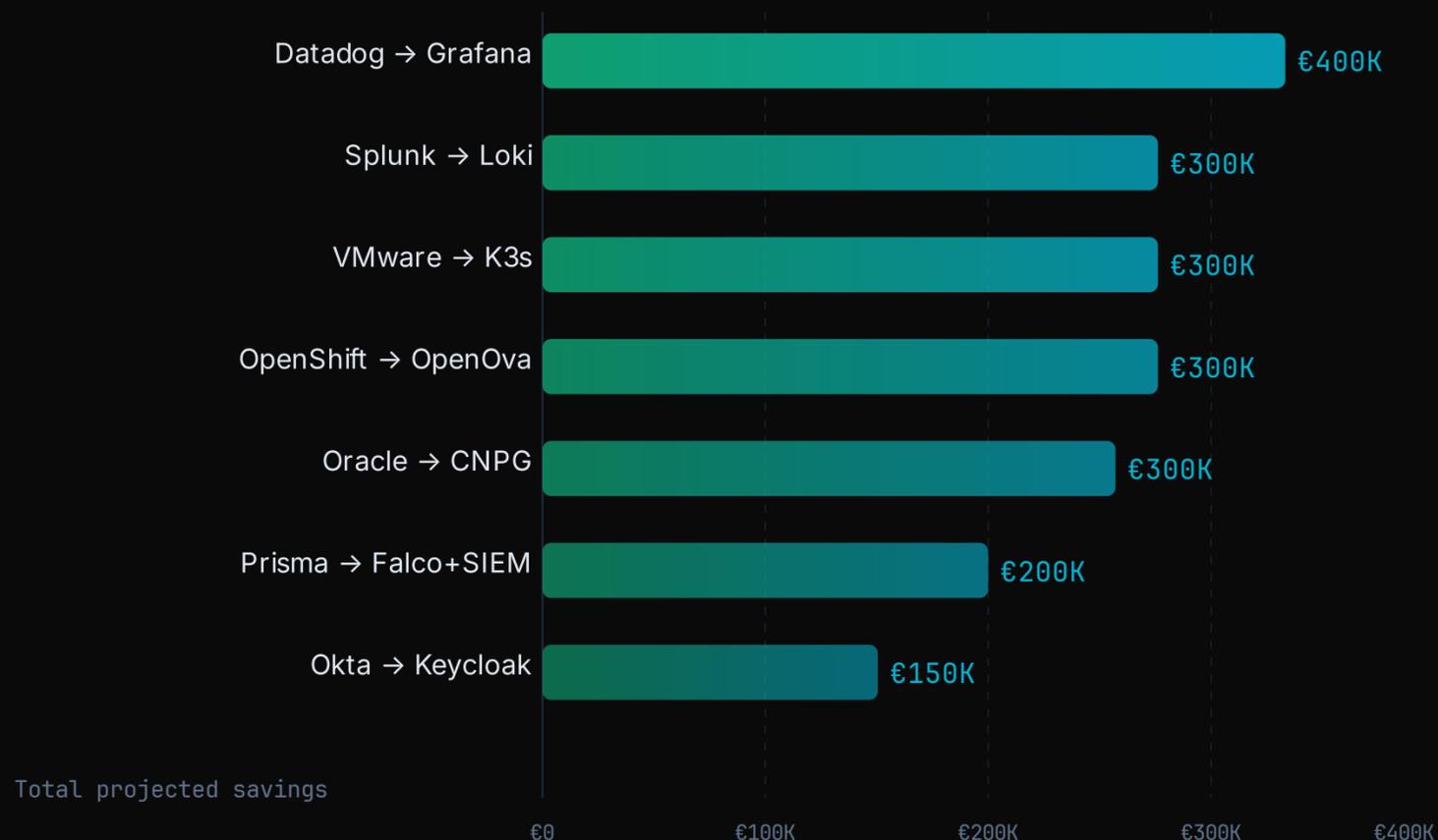
65-75%

PROJECTED STAFFING REDUCTION

< 3 mo

ESTIMATED PAYBACK PERIOD

Projected Migration Savings (Annual)



Reference Case — ME Bank (~1,500 employees, 200+ cores, 2 regions)

CATEGORY	BEFORE	WITH OPENOVA
Platform Licensing	€200K	Included
Observability	€250K	Included
Database Licensing	€200K	Included
Identity (Auth0)	€60K	Included
Platform Team (5 eng)	€600K	€240K (2 eng)
SOC/NOC (5 eng)	€500K	€120K (1 + Specter)
Total Annual	€1,810K	€360K+



60-85% Total Infrastructure Savings
Across platform, data, observability, and security

< 1 Day

TIME TO PRODUCTION PLATFORM

€1M+

PROJECTED ANNUAL SAVINGS

100%

CONSULTING SPEND ELIMINATED



Let's Build Your **Platform**

Pure open-source. AI-native. Zero lock-in.
From assessment to production in weeks, not years.

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