



Cloud Transformation

A full-scale GCP optimization and modernization initiative built with velocity.

Executive Summary

A leading last-mile delivery carrier designed for e-commerce has partnered with CodeRoad for years, to stabilize, modernize, and right-size their GCP environment as the company scaled its national logistics platform. Inheriting years of configuration drift, oversized resources, and rising cloud costs, the engineering team needed a rapid, expert-led intervention to restore efficiency and prepare the system for the next stage of growth. In just weeks, CodeRoad engineers executed a comprehensive analysis and delivered a 65%+ reduction in monthly development spend—saving over \$6K per month and establishing a roadmap for significantly greater savings across sandbox and production environments.

Through a structured cloud-transformation approach, CodeRoad delivered a modernized GCP footprint featuring optimized GKE clusters, right-sized Cloud SQL storage and compute, and streamlined Cloud Run workloads. This shift not only reduced costs but improved environment health, operational reliability, and long-term scalability. The result is a cloud foundation engineered for durability, performance, and financial efficiency—fueling their continued expansion across North America.

About the Project

As a fast-growing **Logistics/SaaS company** specializing in fast, transparent, tech-enabled delivery solutions for retailers, eCommerce platforms, and nationwide shipping networks - their platform powers:

- Real-time package tracking
- API-first logistics integration
- Optimized routing and delivery workflow
- Nationwide last-mile delivery operations

As the company scaled rapidly across new markets, their cloud infrastructure needed to support increasing demand, reliability expectations, and cost efficiency. CodeRoad's partnership has been instrumental in this transformation period and has accelerated outcomes beyond expectations.



Looking for Predictability to Scale

Our client's engineering organization inherited a GCP environment with oversized compute, massive unused SQL storage, and misaligned Cloud Run allocation. These gaps created unnecessary spend, elevated reliability risks, and made it difficult to scale the platform with confidence. To support growth, the team needed a robust, modernized, cost-efficient cloud foundation—built fast and built right.

Our Velocity Playbook in Action

As the company expanded its national logistics network and onboarded new enterprise clients, the demands placed on its cloud infrastructure grew rapidly. Over time, their GCP environment became increasingly difficult to predict—costs drifted upward without clear cause, several core services were significantly overprovisioned, and performance patterns were masked by years of accumulated configuration debt. Development environments were consuming far more resources than necessary, storage allocations ballooned well beyond actual usage, and teams lacked a unified view into how capacity and spend were being distributed across workloads. These issues created operational friction, slowed engineering momentum, and introduced unnecessary financial risk at a critical stage of the company's growth. They needed immediate clarity, data-driven insights, and a high-confidence plan to restore stability. They turned to CodeRoad for a fast, expert-led cloud transformation—one that would right-size their footprint, eliminate waste, create cost certainty, and deliver the infrastructure reliability and speed required to support their continued nationwide expansion.

1. Cloud Program & Infrastructure Framework

- Environment health assessment & drift analysis
- Documentation of resource usage, anomalies, and savings opportunities
- Executive-ready reporting & recommendations

2. GCP Cost Optimization

- GKE rightsizing: Reduced vCPUs and RAM by over 60%
- Cloud SQL downsizing: Reduced storage from 8TB → 150GB, eliminating 98% waste and 75%+ cost
- Cloud Run tuning: Aligned CPU/memory to real usage, cutting service cost by ~68%

3. Strategic Cloud Engineering

- Long-term roadmap to apply savings across sandbox & production
- Infrastructure stability improvements
- Scalable patterns for future workloads

Shipping Fast, Building Right



Full-scale cloud foundation

A modernized, stable, efficient GCP footprint that supports the company's rapid growth.



Reliable environments

Right-sized services reduce operational incidents and improve system health.



Automated cost controls

Foundational monitoring ensures future drift is caught early.



Faster Deployments

Cleaner infrastructure and lightweight clusters accelerate engineering workflows.



Process Optimization

GCP usage now reflects real-world demand—not overprovisioning.



Scalable System

Savings and patterns extend across all environments: dev, sandbox, staging, and production.

A velocity roadmap for long term growth.

Our partnership delivered far more than immediate cost savings—it created a stable, scalable, and maintainable cloud operating model that the company can rely on as the company continues to expand. By eliminating years of configuration drift, correcting over provisioned resources, and aligning infrastructure to actual workload demands, CodeRoad helped transform their cloud foundation into an efficient, predictable system that supports both day-to-day operations and long-term growth.

Today, our client has a unified roadmap for ongoing optimization, supported by predictable cost models across all environments. This visibility allows engineering and leadership to make informed decisions, anticipate spend, and ensure that resources are allocated with intention rather than inherited assumptions. With environment patterns now aligned to real usage, the team can confidently scale services up or down based on actual customer and operational demands.

Most importantly, the company now operates on a cloud footprint engineered for both performance and budget discipline—striking the balance modern logistics platforms require. This foundation not only reduces financial waste but also accelerates delivery, improves reliability, and gives the engineering team the certainty they need to ship faster and innovate without hesitation.

Technology
in action

GKE

for scalable,
right-sized compute
workloads

Cloud SQL

for optimized DB
storage and reduced
overhead

Cloud Run

for efficient,
usage-aligned
serverless operations

BigQuery

for cost visibility and
trend analysis

Talent + Acceleration + Performance

“What CodeRoad has accomplished was exceptional: a 65%+ reduction in dev spend and a roadmap to unlock even larger savings across our entire infrastructure. They didn’t just execute—they acted as true consultants, validating assumptions, identifying meaningful efficiencies, and packaging everything in an exec-ready presentation. This is the difference between staff augmentation and real consultative value.”

— Mike Kolenko, VP of Engineering

Engineered Momentum

CodeRoad’s Business Impact by the numbers

66%

reduction in monthly cloud spend. Recovering an estimated 1.5 x of devops budget for the year.

98%

storage reduction from Cloud SQL downsizing and eliminating infrastructure overhead.

540K

projected annual savings as we scale to production.

How CodeRoad can help you accelerate

CodeRoad delivers Velocity-as-a-Service (VaaS) by engineering financial efficiency into rapidly scaling cloud environments. We partner with you to eliminate configuration drift and slash monthly cloud spend by 65% through aggressive GCP rightsizing. By optimizing GKE clusters and downsizing Cloud SQL storage, we recovered 1.5x of the annual DevOps budget while hardening the platform for national expansion. CodeRoad's systems are engineered to ensure that hyper-growth is supported by a durable, cost-optimized infrastructure.



Strategic Technology Solutions

- Cloud Rightsizing
- FinOps Governance
- GKE Optimization
- Infrastructure Modernization
- Cost Intelligence
- Operational Reliability
- Scalable Architecture



Advanced AI for Logistics

Discover how to maintain margins and increase agility in a wildly unpredictable market through strategic AI implementation. Get the latest on:

- Decision Intelligence
- Cloud Integration Risk
- Abatement Quality Control
- Demand Forecasting
- Autonomous Decision-Making
- Predictive Maintenance

**Your systems are slowing you down.
Let's change that.**

Book Assessment Call

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