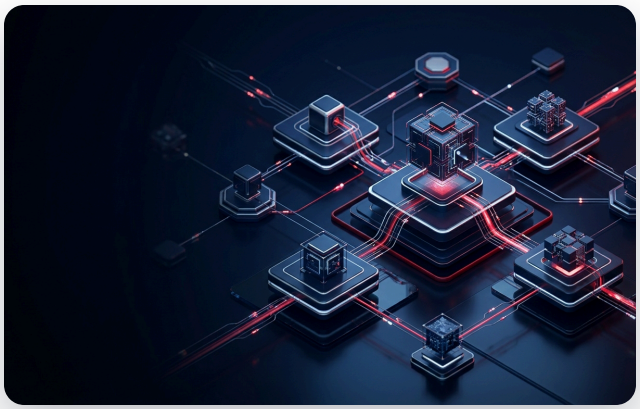
Software Architecture, Cloud, and AI Innovation for Modern Enterprises

EGI Consulting helps organizations design scalable systems, modernize legacy platforms, and implement AI-driven solutions with clarity, speed, and precision.



WHAT WE HELP CLIENTS DO

Programs rarely stall for lack of ambition. They stall in the gap between strategy and live code, where architecture, cloud, delivery, and AI run as disconnected workstreams. EGI connects those decisions into one path from executive intent to production-ready systems, led by senior architects.

Technology Consulting and Roadmaps

Strategic guidance, architecture assessments, legacy modernization frameworks, and fractional CTO leadership that accelerate delivery.

Software and Cloud Architecture

Bespoke system design optimized for enterprise scalability, high availability, and strict security across AWS, Azure, and GCP.

Custom Software Development

Production-ready systems built with .NET Core, cloud-native frameworks, modern frontends, and robust APIs that scale with the business.

Platform Modernization

Decouple monolithic legacy platforms into high-performance, maintainable, cloud-native environments while minimizing operational risk.

Data Engineering and Analytics

Pipelines, cloud data warehousing, and BI that turn raw data into a reliable foundation for decisions and AI.

AI Consulting and Automation

Agentic AI pipelines, LLM applications, RAG and semantic search, and workflow automation that reach production responsibly.

STRATEGY-FIRST, ENGINEERING-LED

EGI Consulting operates where executive advisory meets hands-on engineering. The work starts with business outcomes, then moves into the architecture, cloud, and delivery detail required to make those outcomes real and maintainable.

Most Initiatives Stall Between Strategy and Live Code

Leaders rarely need more technology enthusiasm. They need a path that modernizes one real platform, or ships one real system, without adding risk, fragility, or dependence on a single vendor.

Legacy debt blocks change

Monolithic systems are tightly coupled and poorly documented, so every change is slow, risky, and expensive, and modernization keeps getting deferred.

Architecture decided under pressure

Critical design and cloud decisions get made mid-build without objective, vendor-neutral review, locking in cost and scaling problems for years.

AI pilots never reach production

Promising prototypes stall because data access, security, governance, and integration were never engineered for production use.

Delivery without knowledge transfer

Work ships, but the internal team cannot operate or extend it, so the organization stays dependent and the gains do not compound.

WHAT INACTION COSTS

Time

Senior capacity is absorbed by firefighting brittle systems, manual workarounds, and rework instead of building value.

Risk

Aging infrastructure, weak security models, and unmanaged AI create exposure that grows quietly until it surfaces in production.

Momentum

Teams lose confidence when modernization and AI are treated as disconnected projects instead of a coherent operating capability.

THE SHIFT

The advantage no longer belongs to whoever adopts the most tools. It belongs to organizations that turn strategy into scalable, secure, well-architected systems their own teams can run and extend.

From Business Target to Production-Ready System

The work is not only writing code. It is the path from a business problem to an architecture, a cloud foundation, and a delivered system your team can trust, run, and measure.

01
Discovery
Understand the business, constraints, and the highest-impact opportunities.

02
Strategy
Define outcomes, realistic timelines, and measurable success criteria.

03
Architecture
Design the system, cloud, data, and security model for scale and failover.

04
Build and Iterate
Ship working software in sprints with continuous feedback and review.

05
Transition
Hand off with documentation, training, and the ability to scale independently.

WHERE TO START: VALUE AGAINST EFFORT

VALUE ↑

DO NOW - QUICK WINS
- Architecture assessment
- CI/CD pipeline setup
- Document automation

INVEST - STRATEGIC BETS
- Legacy modernization
- RAG knowledge system
- Cloud migration

EASY ADDS
- BI dashboards
- API integrations
- Automated testing

BUILD DELIBERATELY
- Microservices decomposition
- Multi-cloud platform
- Enterprise AI rollout

EFFORT AND TIME TO VALUE →

THE BUYER QUESTION

Before committing to a major build or migration, leaders need to know which system should change first, what it depends on, how it should be architected, and how success will be measured after launch.

Inside a Modernization and AI Engagement

Prospects understand the work faster when they can picture the engagement. This is the type of path EGI Consulting designs, architects, and delivers alongside your team.

WEEK 1 - DISCOVERY AND ASSESSMENT

We map the current platform, dependencies, data, and the highest-impact opportunities, and agree on what success looks like.

DELIVERABLE

Architecture assessment with risk areas, a prioritized opportunity map, and a target outcome with measurable success criteria.

WEEK 3 - ARCHITECTURE AND DESIGN

We design the target system, cloud foundation, data model, and security approach, with objective, vendor-neutral recommendations.

DELIVERABLE

System and cloud architecture blueprint, technology selection, and a sequenced delivery plan that minimizes migration risk.

WEEK 6 - BUILD AND ITERATE

We deliver in sprints, shipping working software early so progress is visible every week and direction can adapt as we learn.

DELIVERABLE

First production-ready increment behind CI/CD, automated tests, and a security model built into every layer, not bolted on later.

WEEK 10 - TRANSITION AND SCALE

We hand off with documentation and training so your team owns the solution and can scale it confidently without us.

DELIVERABLE

Complete technical handoff, runbooks, team enablement, and a roadmap for the next workflow or platform to modernize.

WHY THIS MATTERS

This is not a fixed-template project. It is senior engineering leadership applied to your systems, with architecture, security, delivery, and knowledge transfer attached from day one.

Engagements Leaders Can Recognize

What EGI Consulting helps move from discussion to delivered system, across modernization, cloud-native development, and data and AI.

LEGACY MODERNIZATION AND CLOUD MIGRATION

For monolithic platforms that are slow, costly, and risky to change, and need to become scalable and maintainable.

- Assess legacy system and dependencies
- Design target cloud-native architecture
- Decouple and migrate in safe increments
- Measure performance, cost, and reliability

CLOUD-NATIVE APPLICATION DEVELOPMENT

For teams building new products that must move fast without sacrificing scalability, security, or quality.

- Define architecture and design system
- Build full-stack with modern frameworks
- Automate CI/CD and testing
- Deploy, monitor, and optimize

DATA AND AI ENGINEERING

For organizations turning data into advantage with reliable pipelines, analytics, and production-grade AI.

- Build pipelines and cloud warehouse
- Stand up BI and self-service analytics
- Deploy LLM and RAG applications
- Govern quality, security, and access

TECHNOLOGIES WE ENGINEER WITH

BACKEND AND ARCHITECTURE

.NET 9 / C# · ASP.NET Core · Node.js · Python · Microservices · Event-driven APIs

CLOUD AND DEVOPS

Azure · AWS · Google Cloud · Kubernetes · Docker · Terraform · CI/CD

FRONTEND AND CLIENT

React · Next.js · TypeScript · Tailwind CSS · React Native · Flutter

DATA AND AI

PostgreSQL / pgvector · Snowflake · Databricks · LLMs and RAG · LangChain · Power BI

It Looks Clean Because the Engineering Is Designed First

The outcome should feel simple. The architecture, security, and delivery rigor behind it is what makes a system trustworthy enough to run and scale.

Senior architects, no juniors

You work directly with experienced architects and engineers who have delivered enterprise-scale systems, not a layered team of trainees.

Business-focused, not tech for its own sake

We prioritize solutions that deliver measurable business value and clear milestones, not technology chosen for novelty.

Built for scale and high availability

Over 30 years designing redundant, fault-tolerant, high-availability architectures with disaster recovery and reliable failover.

Security-first at every layer

Security and governance are engineered in from day one, from secure coding practices to infrastructure hardening, not added later.

Knowledge transfer, not dependence

We build your team's capability alongside the solution, with complete technical handoff so you can operate and extend it independently.

Predictable, transparent delivery

Iterative delivery with transparent milestones and production-ready speed, so you see progress every week and can adjust.

THE REAL DELIVERABLE

The goal is not a feature or a demo. The goal is a system that is faster, safer, easier to maintain, and measurable enough for leadership to scale with confidence.

From Strategy to Operational Capability

Engagements give leaders a clear decision path, reduce delivery risk, and create early wins that scale into a durable, well-architected operating capability.

1. Discover

Understand business goals, current systems, data readiness, and the highest-impact opportunities.

2. Design

Define the strategy, target architecture, success metrics, and the technology and vendor decisions.

3. Build

Deliver iteratively alongside your team with transparency, controls, testing, and continuous feedback.

4. Scale

Hand off cleanly, then expand what works through governance, enablement, and roadmap refinement.

TYPICAL OUTCOMES

- ✓ Prioritized technology roadmap tied to business value.
- ✓ Scalable, secure architecture and cloud foundation.
- ✓ Legacy platforms modernized with minimized risk.
- ✓ Production-ready software and AI moved out of pilot.
- ✓ An internal team equipped to operate and extend the work.

BEST FIT

- ✓ Planning a major initiative, build, or migration that needs experienced guidance.
- ✓ Modernizing legacy systems while minimizing operational risk.
- ✓ Implementing AI or automation that must be responsible and production-ready.

NOT THE RIGHT FIT

- ✓ No owner is willing to sponsor the initiative or decision.
- ✓ The goal is a quick demo, not a maintainable operating outcome.
- ✓ The team wants unmanaged delivery without architecture, security, or review.

NEXT STEP

Schedule a technical consultation to map one high-value system or workflow, identify the readiness gaps, and define the shortest path from assessment to delivery.

The Fastest Way to Reduce Risk Is to Scope One Real System

The first engagement should reduce uncertainty, not force a large transformation commitment before the business knows what will work.

TECHNICAL CONSULTATION

A focused working session to assess one high-value system or workflow, surface the architecture, cloud, and security gaps, and leave with a delivery-ready implementation path.

WHAT YOU LEAVE WITH

- ✓ Architecture and risk assessment.
- ✓ Value, effort, and modernization priorities.
- ✓ Recommended approach and technology fit.
- ✓ Delivery sequence and decision points.

THREE STEPS TO A DECISION

1. **Pick one system or workflow.** Choose the platform that is most visible, most costly to maintain, or most strategic to modernize.
2. **Map value, effort, and risk.** Clarify architecture, dependencies, security needs, integration complexity, and expected business impact.
3. **Scope the engagement.** Define the smallest useful increment, success measures, delivery path, and what would justify expansion.

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START THE CONVERSATION

Request a consultation to identify the system with the clearest path from strategy to scalable, production-ready value.