



5 Myths of Automated Code Modernization

Separating fact from fiction in legacy transformation

Why a Hybrid AI approach is the superior path to the cloud

AT A GLANCE

Five myths, five realities

What teams often believe about automated modernization — and what actually holds true.

 THE MYTH

- Starting from scratch is better
- Generated code is low quality
- Automation is too expensive
- It takes just as long as a rewrite
- It can be 100% automated

 THE REALITY

- Preserve the proven business IP you already own
- Native, idiomatic code that's easy to maintain
- Roughly 20% of the cost of a manual rewrite
- Delivered in a fraction of the time
- Agentic AI Platform: 90–95% automated + expert last mile

MYTH 01

The hidden costs of discarding legacy IP

✕ THE MYTH

“When modernizing, it's simply better to start completely from scratch.”

✓ THE REALITY

Unless an application is disposable, starting over devalues years of effort, thinking and business knowledge embedded in the system. A manual rewrite is far harder than automation, and undocumented customizations create a high risk of losing business logic.

GAPVELOCITY AI SOLUTION

VELO, our agentic AI platform, leverages the capital already invested in your applications. Our deterministic AI ensures every custom business rule is faithfully preserved in the migrated system.

MYTH 02

Achieving native, idiomatic architecture

✗ THE MYTH

“Automated tools generate unreadable, rigid, proprietary code.”

✓ THE REALITY

Today's modernization technology generates exceptional-quality code that is often indistinguishable from code written by an experienced developer.

GAPVELOCITY AI SOLUTION

VELO detects patterns and generates structures — highly readable and maintainable, with zero third-party runtime dependencies, preserving both the business logic and the original comments.

MYTH 03

The economics of AI-assisted migration

✕ THE MYTH

“Enterprise-grade automation tools are cost-prohibitive.”

✓ THE REALITY

Automated modernization generally costs about 20% of a manual rewrite. Because the migrated system is functionally equivalent, organizations also avoid massive end-user retraining costs.

80%

cost savings versus a manual rewrite (customer data)

GAPVELOCITY AI SOLUTION

Every engagement starts with ByteInsight, our free static code-analysis tool. Its complete architectural inventory lets us size the effort precisely and offer a fixed-cost, fixed-schedule guarantee.

MYTH 04

Accelerating time-to-market

✕ THE MYTH

“Untangling legacy code for automation takes just as long as rebuilding it.”

✓ THE REALITY

A modernization tool performs a significant portion of the work automatically, completing the project in a fraction of the time and with far fewer resources.

5M+

Banamex (Citigroup) lines converted in 12 months
— vs. an estimated 6 years for 175 developers

GAPVELOCITY AI SOLUTION

Banamex modernized 124 business-critical applications using automated conversion technology — turning a multi-year manual estimate into a one-year delivery.

MYTH 05

Why Hybrid AI is the only viable path

✕ THE MYTH

“Either the tools don't exist — or a magic button automates 100% of it.”

✓ THE REALITY

Automated tools handle the vast majority of the work, but certain architectural aspects and complex patterns still require human intervention. A real migration always needs some manual tuning of the target codebase.

90–95%

of the heavy lifting handled by deterministic & generative AI

GAPVELOCITY AI SOLUTION

We use AI: VELO automates 90–95%, then GAP's seasoned engineers handle the last mile — resolving compilation errors, optimizing performance and making the app production-ready.

ABOUT GAPVELOCITY AI

Fast, predictable, secure AI modernization

Automated modernization is the most viable way to leverage your legacy investment and move to modern platforms.

30+

Years of modernization expertise

Billions

Of lines of code migrated

600+

GAP engineers behind delivery

Microsoft aligned, end to end

As a Microsoft Solutions Partner, modernized apps natively leverage the Azure, .NET and Blazor ecosystems you already run. Delivery spans self-service licensing to fully managed, production-ready engagements — backed by 600+ GAP engineers.

BEGIN YOUR MODERNIZATION JOURNEY

Stop managing legacy risk. Start powering growth.

Technology has evolved to the point where it's hard to find a good reason to base an entire transformation on manual labor.



Run [ByteInsight](#) on your legacy application

Build a complete inventory and risk assessment — for free.



Book a free codebase analysis call

Speak with a GAP migration engineer about your infrastructure.



[Schedule a consultation](#)

Get a data-driven estimate and see how fast you reach engineering-ready code.



The myths are settled.
The path is automated.



Run ByteInsight free, or book a codebase analysis call to see your numbers.