



SLALOM x GITHUB

# Accelerated Modernization with GitHub Copilot

Enable your organization to modernize faster, operate reliably,  
and build with quality, at unprecedented speed with GitHub Copilot.

The call for modernization

Outdated technology is no longer a nuisance—it's a strategic threat:

Legacy Drag

70%

of enterprise workloads  
still reside on-premises  
or in outdated systems

Rising Costs

80%

of IT budgets are consumed  
by legacy systems, hindering  
innovation and growth

Innovation Barriers

65%

of leaders cite technical debt  
as their top barrier to digital  
transformation

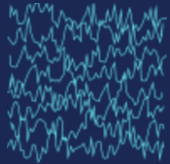
A Widening Gap

80%

of businesses identify  
significant skill gaps due to  
emerging AI technologies

We know what's keeping most technology leaders up at night

## The top challenges impacting stability and growth



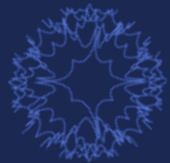
### Operational risks & downtime

- Aging systems significantly increase the likelihood of catastrophic outages
- Legacy infrastructure failures result in an average revenue loss of \$300,000 per hour of downtime



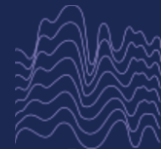
### Talent & skill gaps

- Specialized legacy skillsets (COBOL, PL/I, etc.) are retiring rapidly; replacements are scarce and costly
- 60%+ of IT leaders report talent shortages in legacy technologies, threatening continuity and stability



### Compliance & security threats

- Outdated platforms frequently fail to meet contemporary regulatory standards (GDPR, HIPAA, SOC 2)
- Legacy systems predate current cybersecurity threats, leaving them highly vulnerable to attacks and breaches



### Limited data insights

- Fragmented legacy data infrastructure restricts real-time analytics, impairing informed decision-making
- Data silos and missing information challenge agility, responsiveness and customer experience

Why modernize

# What would zero legacy debt mean for your org?



## Improved Agility

Enable rapid response to market changes with modern, flexible systems.



## Cost Efficiency

Dramatically reduce ongoing maintenance and operational costs.



## Enhanced Security

Strengthen defenses against cybersecurity threats with contemporary safeguards.



## Innovation Capacity

Facilitate continuous innovation with adaptable and scalable technology.



## Regulatory Compliance

Ensure consistent compliance with evolving industry and regulatory standards.



## Talent Magnetism

Attract and retain skilled talent through modern environments and builder culture.

While still not a simple undertaking, modernization has become more accessible than ever with recent advancements in AI tooling, agents, and automation.



A new era for modernization

# Unlock new possibilities with accelerated modernization

AI powered legacy analysis

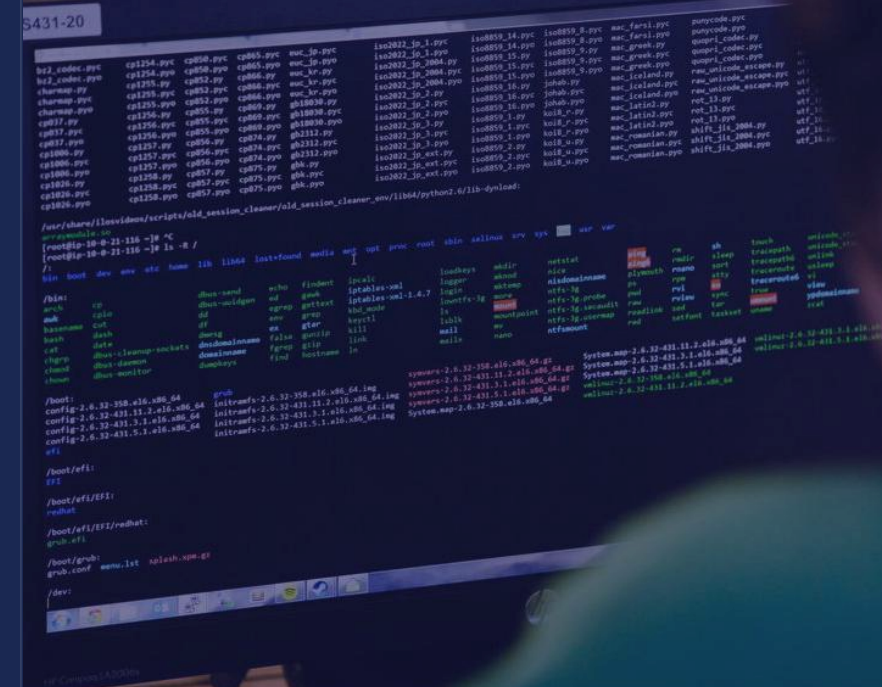
Agentic code modernization

Automation & scalability

Comprehensive visibility

## AI powered legacy analysis

Utilize advanced AI to rapidly analyze and document legacy codebases, drastically accelerating modernization efforts and improving accuracy.



A new era for modernization

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Agentic code modernization

Automation & scalability

Comprehensive visibility

## Agentic code modernization

Implement agent-based AI workflows that provide AI scale to complex refactoring tasks, significantly reducing manual labor and timelines.





A new era for modernization

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AI powered legacy analysis

Agentic code modernization

Automation & scalability

Comprehensive visibility

## Automation & scalability

Deploy automated tools and methodologies enabling organizations to efficiently scale modernization across multiple systems and environments.





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Automation & scalability

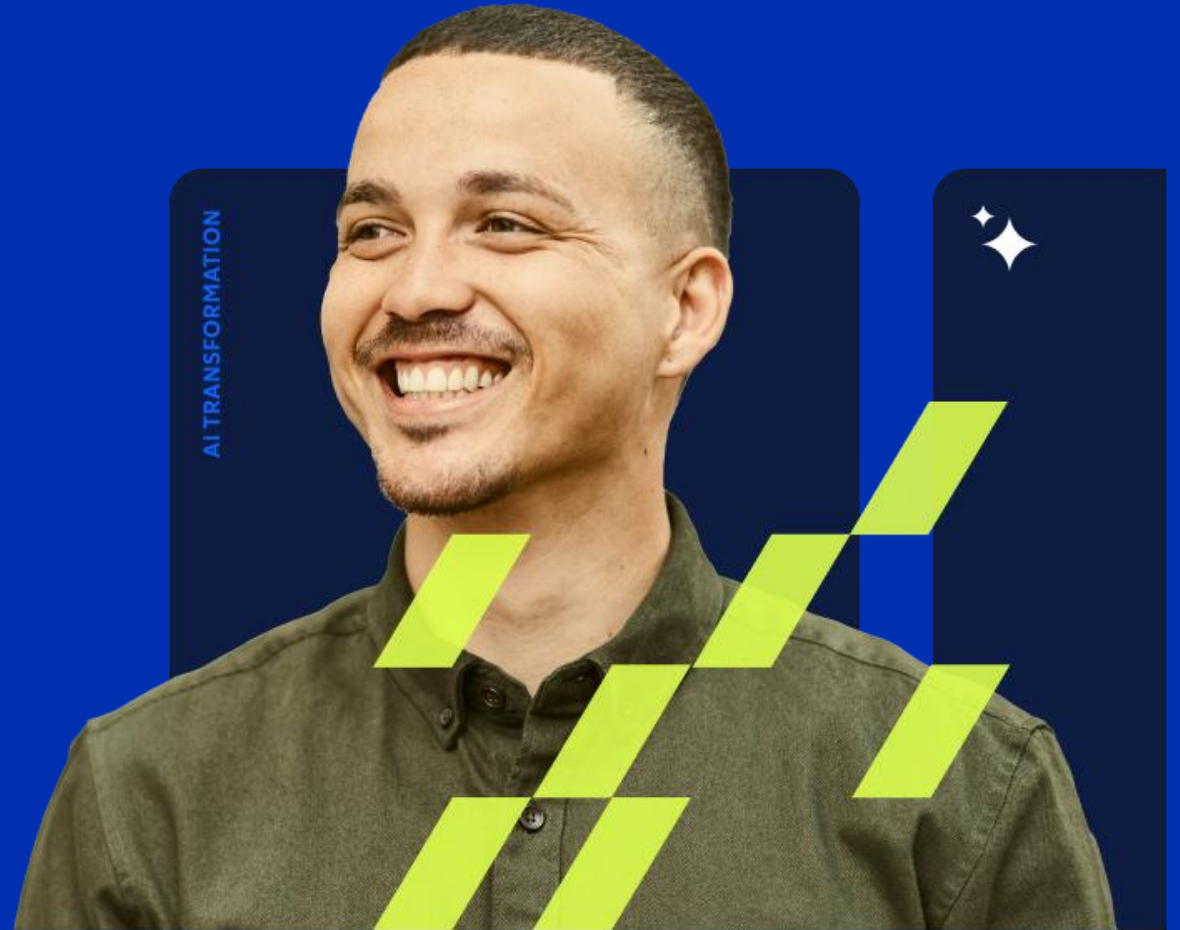
Comprehensive visibility

## Comprehensive visibility

Leverage AI-powered insights for clear, detailed mapping of dependencies, risks, and opportunities, ensuring informed and strategic decisions.



AI is changing way we  
work forever.  
And that's a good thing.



# Accelerated Modernization Opportunity

## AI-Accelerated Modernization

With recent advancements in Gen AI, it's possible to accelerate and scale the modernization of complex legacy systems.

Slalom has developed an AI accelerated modernization capability. We're seeing ~3-4x improvement in speed and dramatically reduced cost compared to traditional methods.

## AI-Accelerated Modernization

Accelerated delivery of a highly cost-efficient, modernized mainframe with feature-parity

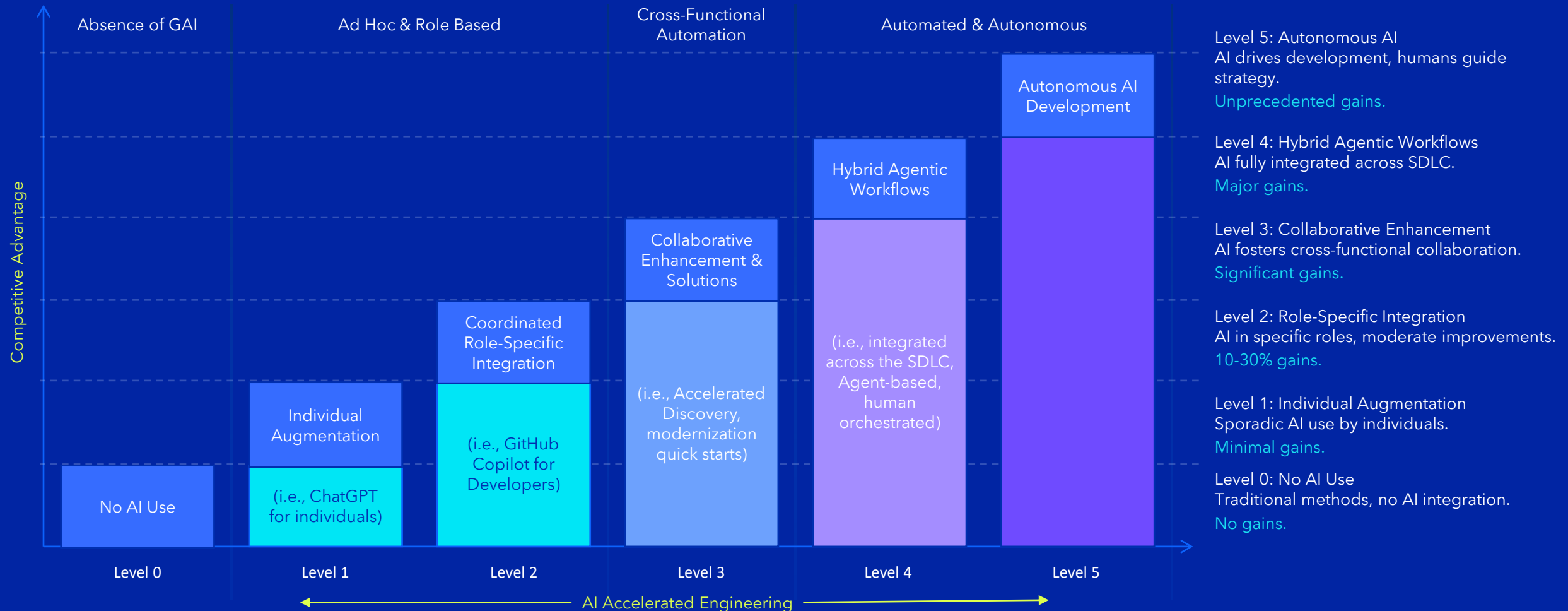
## Improving Client's ROI equation

Modernizing client mainframe systems reduces maintenance and legacy software costs. It also lowers dependency on retiring engineers and high-cost contractors (e.g., Delphi and COBOL experts).

AI-accelerated modernization maximizes these savings by reducing the investment required for modernization.

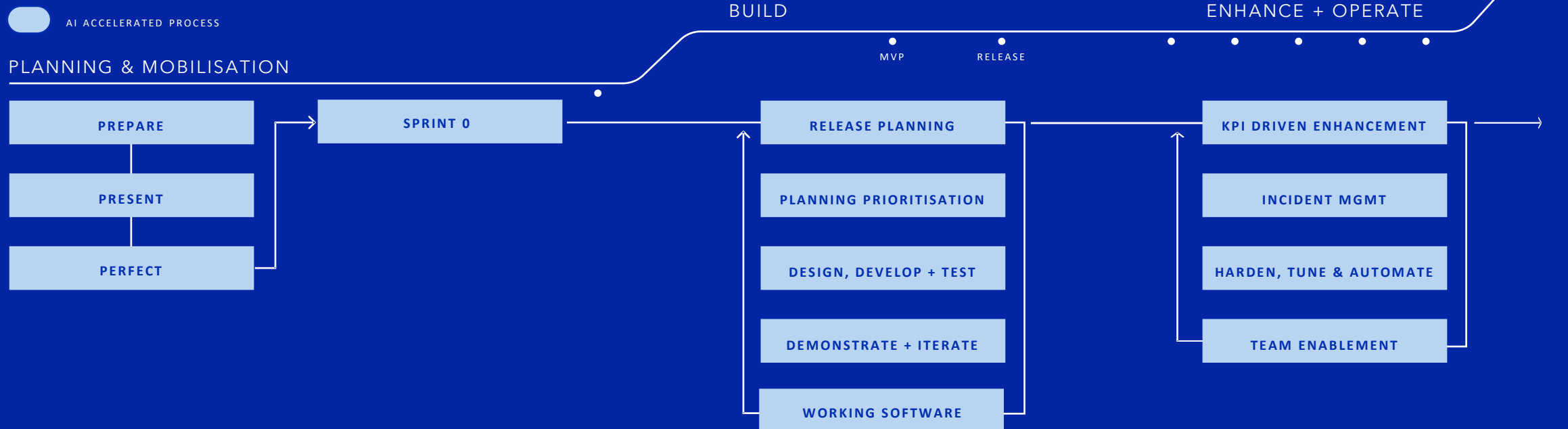
# AI Maturity in the Software Development Life Cycle (SDLC)

We understand how to unlock the value of Accelerated Engineering across each stage of AI maturity scale



# How we're employing AI

Our AI Delivery Platform is creating a foundation for speed, consistency and quality across the development lifecycle.



Slalom's specialized AI tools, agents and ways of working are used continuously across the SDLC to accelerate time-to-value for our customers

QL

**Quantum Leap**

Accelerating discovery artifacts

CA

**Complexity Analyzer**

Gaining a deeper understanding of the unknown

DG

**Data Genius**

Extracting logic and setting up modernization

AE

**Accelerated Engineering**

Humans powered by Github Copilot Business & Enterprise

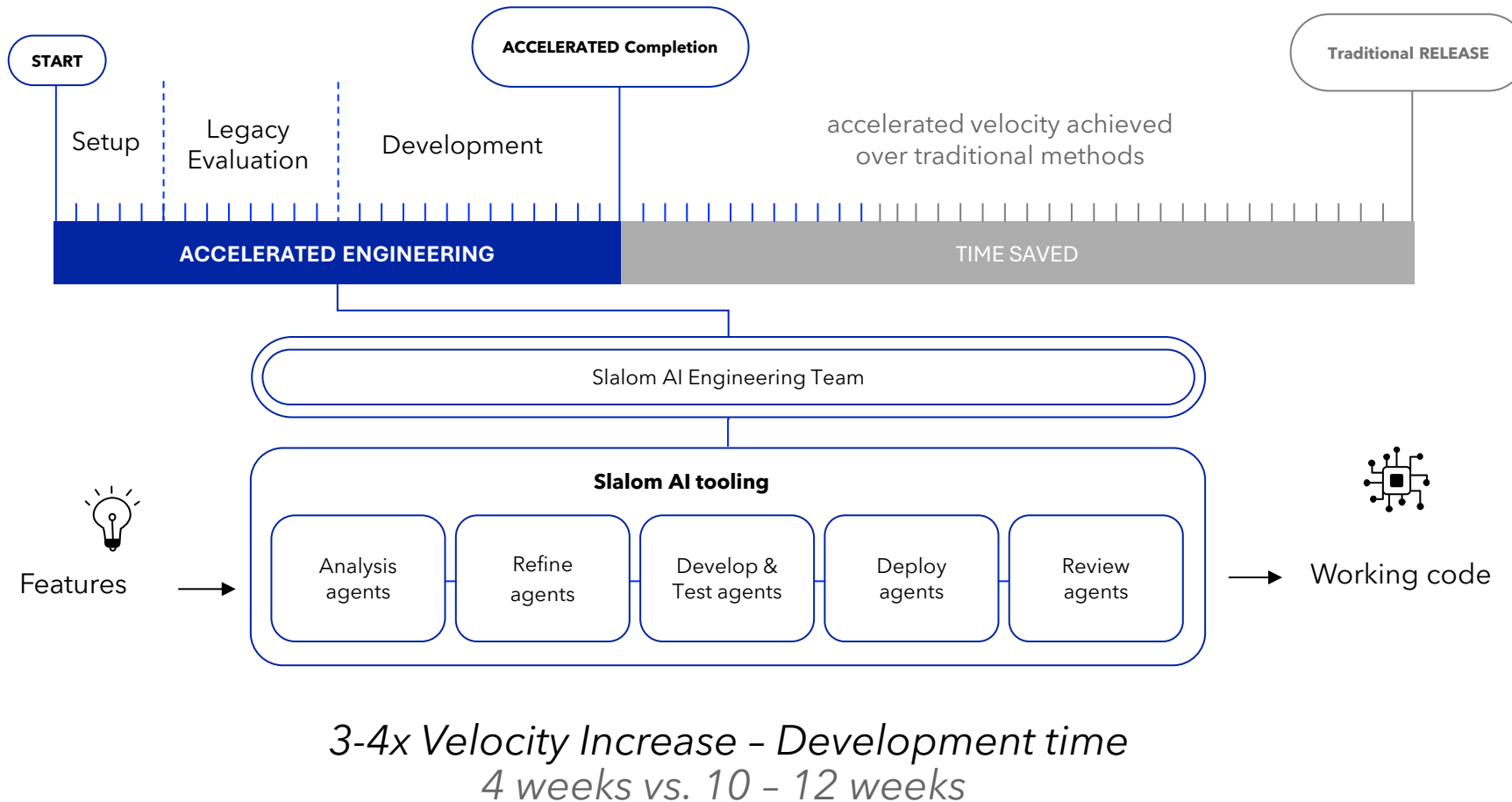
AW

**Agentic Workflow**

Humans and AI agents working together in the SDLC.

# Traditional vs. AI Accelerated Modernization

Estimated comparison of traditional vs. AI accelerated modernization.



# Accelerated Engineering Team Models

## Without AE

Project Core Team



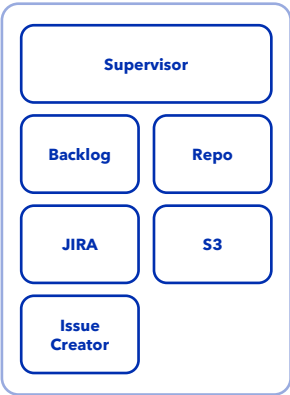
## With AE

Delivery Leads

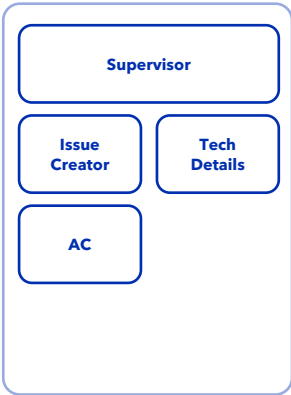


## AI Agents

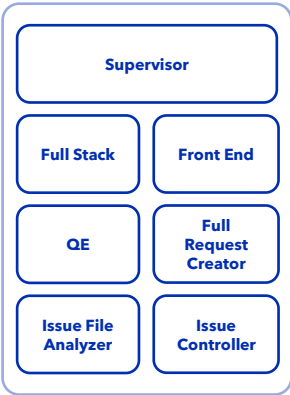
Analysis Agents



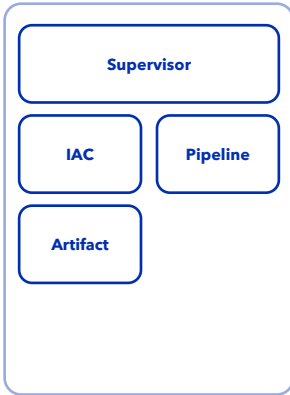
Refinement Agents



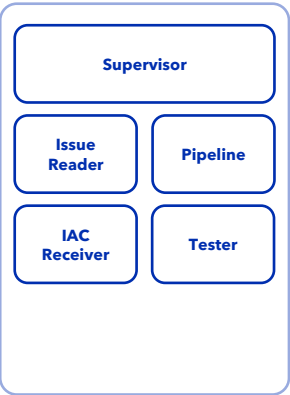
Development & Test  
Software Agents



Deployment Agents



Review Agents



## Tools





# Accelerated Modernization Goals and Outcomes

Accelerated delivery of a highly cost-efficient, modernized mainframe with feature-parity

## GOALS

**Maintain Consistent Revenue:** the mainframe and legacy applications are still viewed today as a consistent revenue-drivers for the business.

**Reduce Mainframe Dependency:** the mainframe systems depend on high-cost consultants and legacy software licensing to operate.

**Modernize IT Infrastructure:** a broader vision exists to create a sustainable IT environment that can support current operations and future growth.

**Limit Customer Disruption:** phased modernization reduces risks and allows Client to test feasibility and benefits.

**Exposure to New Technologies:** exposure to cutting-edge technologies and frameworks will help maintain competitiveness and drive innovation.

**Organizational Learnings:** build expertise in modern technologies to evolve the workforce and create a culture of continuous learning.

## OUTCOMES

**Legacy Software Cost Reduction:** lowered licensing and maintenance costs associated with legacy systems.

**Skillset Dependencies:** reduced dependency on retiring engineers and high-cost contractors.

**Modernization Time-to-value:** AI-accelerated engineering delivers in 3-4x the velocity, improving the cost-equation for modernization.

**Reduced Operational Risks:** increased supportability, enhanced security/compliance, and improved resource allocation.

**Unlocked Application Potential:** groundwork for potential future enhancements and integrations that could enhance revenue streams or open new markets.

# Data modernization



## THE CHALLENGE

Legacy databases (e.g. SQL Server, Oracle) are limiting flexibility and agility and restricting many companies in realising their ambition to become a data and AI driven organizations

## THE SOLUTION

Slalom's AI agents migrate the data, analyse stored procedures, TSQL, SSIS or other ETL packages and translate them into SparkSQL and Jupyter notebooks.

## THE BENEFIT

Accelerated migration timeline by between 40-60% from traditional approach with associated cost savings freeing engineering resource to focus on value for the business through improvements and new capability

# Monolith App & depreciated tech modernization



## The Challenge

Monolithic systems are tightly coupled, making changes disruptive and innovation nearly impossible; whilst Legacy systems built on deprecated technologies face vulnerabilities, inefficiencies, and scarce expertise.

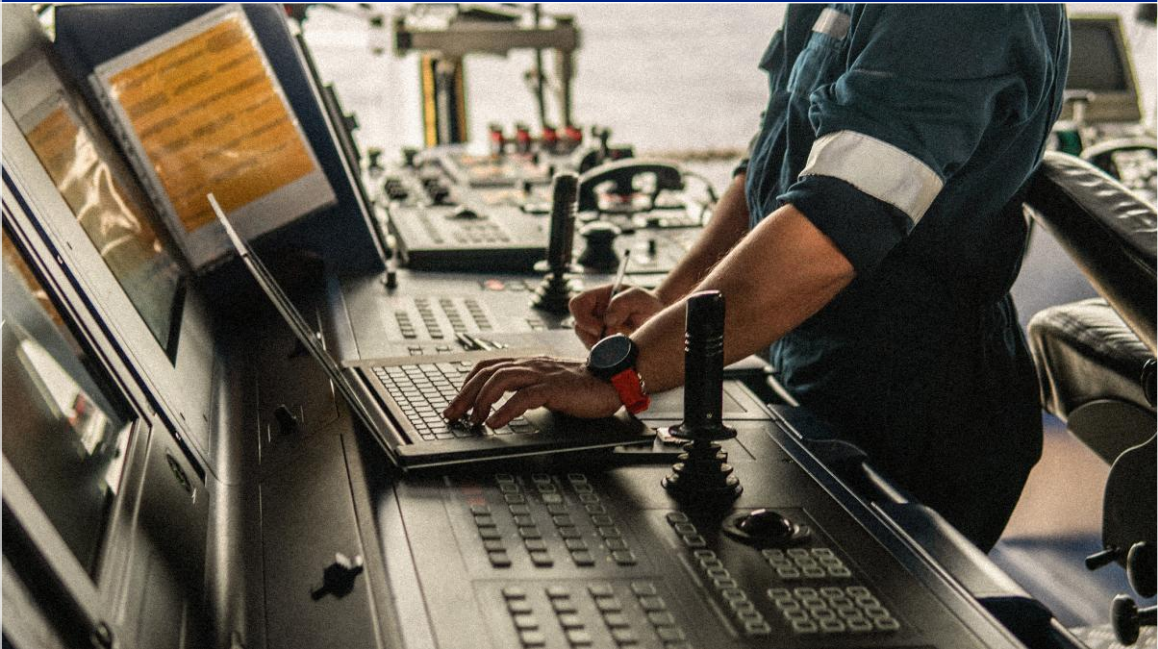
## The Solution

Slalom's approach breaks down monoliths into microservices using AI to understand dependencies and streamline decoupling. We use AI-driven tools to analyse unsupported codebases and replace them with secure, modern frameworks.

## The Benefit

Gain agility to implement changes quickly, allowing for continuous delivery and faster time-to-market. Eliminate risk of unsupported systems while ensuring long-term maintainability and scalability with modern security and compliance.

# Mainframe modernization



## The Challenge

Mainframes are deeply entrenched with highly complex architectures, making them difficult to modernize without significant risk.

## The Solution

Slalom's AI agents analyze COBOL, PL/I, or other legacy mainframe languages and translate them into modular microservices.

## The Benefit

Transition from high-cost, rigid systems to modern cloud-based platforms that drive innovation and efficiency.



# Modernizing legacy systems is complex and risky

Our Agentic AI approach mitigates these challenges.

## Close the expertise gap

Overcome skill gaps with Copilot and AI tools.

## Automate document analysis

AI tools streamline documentation, mapping, and insights for faster modernization.

## Mitigate modernization risks

Ensure stability with AI risk analysis and phased migrations.

## Reduce costs and complexity

AI automation speeds up timelines and delivers scalable, cost-effective solutions.



# Digital New Build



## The Challenge

Building modern digital products and platforms can be complex, time consuming and costly.

## The Solution

Accelerated Products - we combine expert teams with advanced AI tools, agents and ways of working continuously across the Software Development Life Cycle to accelerate time-to-value for our customers

## The Benefit

Faster development cycles, reducing costs and allowing teams to focus on innovation and value.

## Workshop Offering - Accelerated Engineering with GitHub

# The AI-Driven Developer Experience

Get hands on with GitHub Copilot and see how AI can supercharge your engineering.

### WORKSHOP AGENDA (Onsite with remote participants)

30 min	<b>Introductions and Objectives</b> Session welcome, team introductions and align on objectives with an intro to GenAI and Software.	30 mins	<b>GenAI POC Introduction</b> Kick off hands on exercise for the afternoon developing a GenAI POC using GitHub tooling for a pre-agreed use case.
35 min	<b>Adapting to your ecosystem</b> Understand your 'as-is' product engineering methodology and pain points which need to be addressed.	120 mins	<b>POC Creation Exercise</b> Working with your engineering team and Slalom to create your POC.
75 mins	<b>The AI Enhanced Modernization</b> Understand what an AI infused modernization looks like w GitHub offerings and demos.	30 min	<b>POC Readout &amp; Implementation</b> Review team(s) solution with the group along with insights. Learn and discuss the key areas of focus for production implementation.
60 mins	<b>Lunch</b> Grab some snacks, gather your thoughts or just relax!	15 min	<b>Wrap up and next steps</b> Recap the key points from the session and discuss the creation of a POC with Slalom and Microsoft.

GenAI is transforming software development by introducing new tools and techniques to dramatically increase productivity and accelerate deployments. Learn how GitHub is leading the way with their suite of services including GitHub Copilot which is demonstrating ~30 - 50% [productivity gains](#).

Our workshop walks you through the latest 'intelligent PEM' (product engineering methodology) approach & demonstrates how your company can realize the value of GenAI.

### WORKSHOP OUTCOMES

- Understand how AI will change how software is developed.
- Understand GitHub offerings for your engineering team.
- Roadmap for implementation recommendations.
- Prepared for 'Build as a Service' offering from Slalom and GitHub to help you achieve business outcomes and release the value quickly.

### NEXT STEPS

The workshop will ready your development organization to continue to incorporate and realize value from AI via one of the following options, which Slalom will tailor to need.

- **Business Case & Pilot** to develop the specific business case for bringing AI into your org
- **Team Training** to get one small development team up and running with AI practices and efficiencies
- **Organization Rollout** to plan, activate, and implement the adoption of AI tooling across your technology organization.