

AI-Powered Legacy Application Modernization for Enterprises

Human-Led, AI-Powered Transformation at Scale

*Transform decades-old systems
into scalable, cloud-ready applications
in months, not years*



The Challenge

Legacy Systems are a Growing Business Risk

Nearly 70% of the systems used by Fortune 500 companies are more than 20 years old. Systems that once powered growth now constrain innovation, accumulate technical debt, and lock critical business logic in code that few engineers fully understand. Traditional modernization approaches are slow, costly, and reliant on a shrinking pool of legacy specialists.



Technical Complexity

Tightly coupled, outdated systems make every change slow and fragile



Knowledge Gaps

Critical business logic is undocumented and embedded in aging code



Talent Shortage

Legacy expertise is scarce, expensive, and disappearing



Security Exposure

Unsupported platforms increase vulnerability and compliance risk



Business Risk

Mission-critical systems cannot afford downtime or disruption



Strategic Uncertainty

The wrong approach or sequence can stall the entire initiative

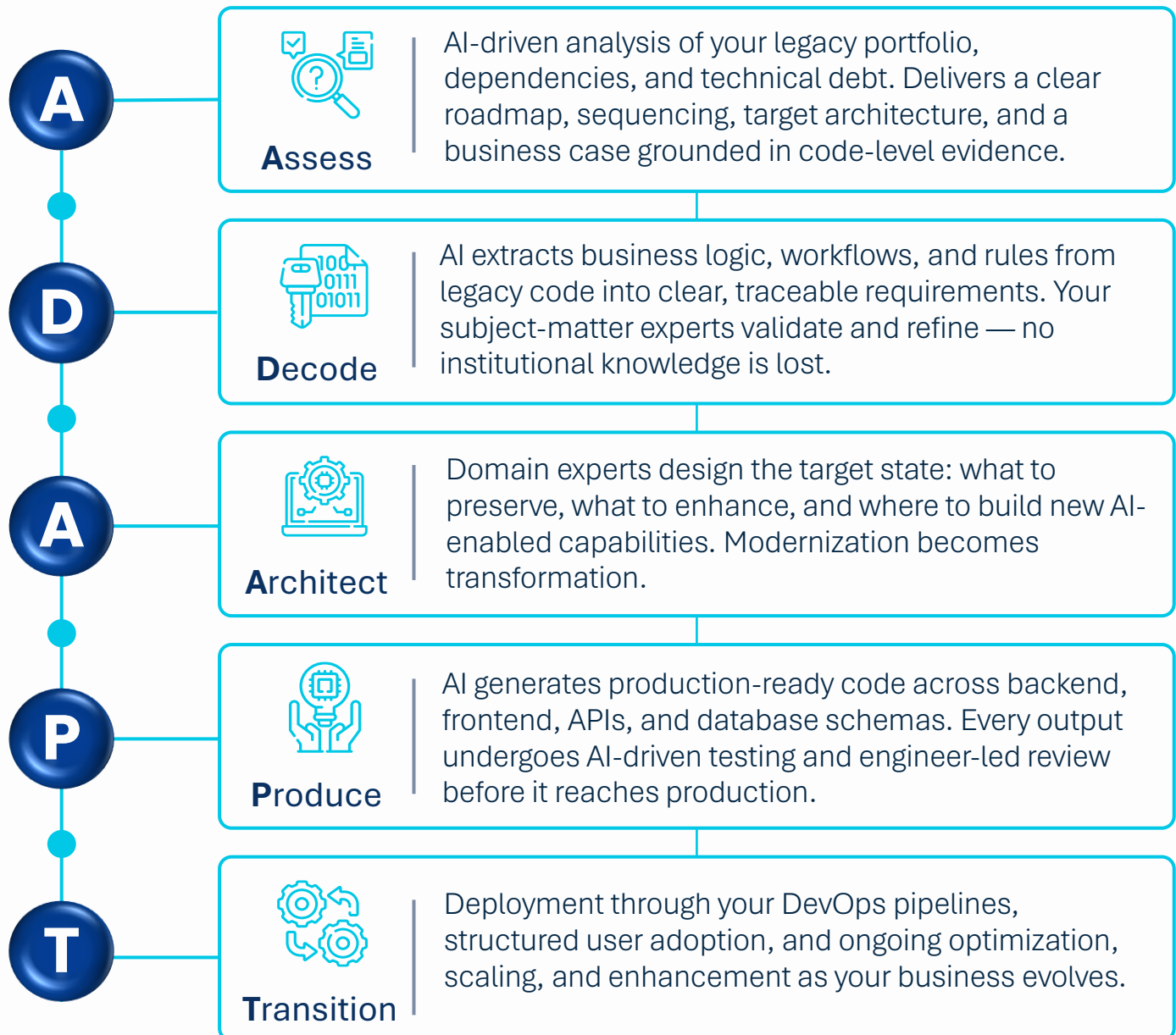
30–50%

of modernization effort is spent just on understanding legacy code

Our Approach

The A • D • A • P • T Framework: A Structured Approach to Modernization

Opteamix modernizes legacy applications by leveraging A • D • A • P • T, a structured, five-phase framework that integrates human-led engineering with AI acceleration at every stage. The result: faster, lower-risk modernization with end-to-end traceability from legacy source to production-ready code.



Human-Led Engineering



Engineers direct, validate, and own every output

AI-Powered Acceleration



AI drives analysis, logic extraction, code generation, and testing

Platform-Agnostic Delivery



Built on Claude, Gemini, GitHub Copilot, and enterprise AI ecosystems

Service Portfolio

End-to-End Legacy Modernization Services

Engage our services as part of a holistic legacy modernization program, or adopt them individually, depending on where you are in your journey. Every service is delivered through our human-led, AI-powered approach on the platforms you trust.



Modernization Assessment & Roadmap



AI-driven portfolio analysis, application rationalization, sequencing, target architecture, and a business case grounded in code-level evidence



Business Logic Extraction & Reverse Engineering



AI-powered extraction of business rules, workflows, and validations, documented, validated with your SMEs, and traceable to the source



Domain-Led Transformation & AI-Enabled Solutions



Process redesign, functional gap closure, and new AI-enabled capabilities built into the modernized application



AI-Driven Quality Engineering & Validation



Functional equivalence testing, AI-powered exploratory testing, regression, performance, and full traceability to requirements



AI-Accelerated Re-Engineering & Modernization



Full-stack code generation across backend, frontend, APIs, and database schemas for your target modern stack



Post-Modernization Support & Continuous Optimization



Performance tuning, scaling, knowledge transfer, managed services, and continuous enhancement as your business evolves



Adoption as a Service



Enable business users to adopt modernized systems quickly and effectively

Business Impact

Real Impact. Faster Modernization. Smarter Outcomes.

Opteamix implementation benchmarks demonstrate the speed, quality, and cost-effectiveness of AI-powered legacy modernization across a range of enterprise systems.

~50%

Reduction in
Modernization
Timelines

~50%

Cost Savings vs.
Traditional
Approaches

~40%

Lower
Engineering
Effort

100%

Traceability from
legacy code to
modern applications

CLIENT STORY

- Global Retail Enterprise:
- COBOL Mainframe Modernization
- 10+ countries
- Direct-to-consumer

CHALLENGE

- Decades-old COBOL mainframe systems
- Rising maintenance costs
- Undocumented business logic
- A shrinking legacy talent pool
- Limited integration with modern digital platforms

OUTCOMES

- **40%** Faster modernization timelines
- **50%** Reduction in engineering effort
- **40%** Lower modernization costs
- **100%** Business logic preserved

What We Modernize

Legacy Technologies We Transform



Mainframe & Core Legacy Systems

COBOL · RPG · PL/I · Natural · JCL



Client-Server & Desktop Applications

VB6 · PowerBuilder · Delphi · Oracle Forms · MS Access · FoxPro



Legacy Web & Enterprise Applications

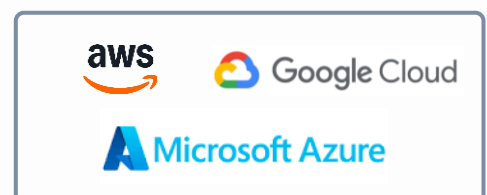
Classic ASP · Legacy .NET Framework · Java J2EE/EJB · Struts · ColdFusion · PHP Monoliths



Modern Application Stacks



Cloud Platforms



The above outlines only indicative technologies. Opteamix modernizes across diverse legacy environments, architectures, and platforms to align with your specific business needs.

Start with a Modernization Assessment



Clear roadmap and priorities



ROI and cost clarity



Defined target architecture



Low-risk execution plan



**Request a
Modernization
Assessment**

About Opteamix

Opteamix is an AI-powered technology services company headquartered in Denver, Colorado, with a delivery center in Bengaluru, India.

We help enterprises modernize, build, and operate technology with AI-powered, human-centric solutions that combine engineering excellence with a culture of continuous innovation.

Guided by our purpose of **Simplifying Success**, we partner with organizations to drive scalable growth and meaningful business transformation.



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