



Game over, mainframe. Your AI-led escape starts here.

Stop grinding on legacy infrastructure.
Break free with Pega Blueprint.

2026

LEVEL UP OR FALL BEHIND.

The next decade's leaderboard? AI frontrunners are already on it.

AI & DIGITAL LEADERS ARE GROWING 2-6X FASTER THAN LAGGARDS.¹

AI and automation aren't a side quest – they're your path to cutting costs and leveling up customer experience.

Leading enterprises are harnessing AI to improve how they:

- **Engage with their customers:** Personalizing every customer interaction to truly resonate – leading to growth, acquisition, and retention.
- **Service their customers:** Enabling 100% self-service outcomes across any channel – increasing NPS and decreasing cost-to-serve.
- **Operate their business:** Automating end-to-end business processes and guiding employees at every step – saving costs and accelerating customer outcomes.



ENTERPRISES KEEP GETTING STUCK ON THE SAME LEVEL.

The average
enterprise wastes
\$370 million+
on technical debt.

LEGACY DRAG IS COSTING YOU MORE THAN XP.

- **Innovation slows:** 68% of enterprises say they spend time on legacy system maintenance that could be better spent making business more effective.
- **Automation lags:** 68% of enterprises say legacy systems are preventing their organization from operating as effectively as possible.²
- **Customers leave:** 57% of enterprises acknowledge their reliance on legacy systems causes customers to leave due to slow or fragmented experiences.²



THE DUNGEON IS CROWDED.

70% of Fortune 500 still run on mainframe.
92% are trying to find the exit.¹

AND THE EXIT IS BLOCKED BY FIVE TRAPS.



Experiences are falling behind.

- Green screen and terminal emulators are slowing down employees
- Lack of modern APIs to plug into customer facing self-service channels



Automation & AI are lagging.

- Brittle RPA scripts
- Modern RESTful automation platforms are difficult to connect
- Lack of native AI support



Data is trapped.

- Outdated protocols (JCL, FTP, EDI)
- Reliance on batch FTP exports, not real-time analytics
- Proprietary data formats (e.g. VSAM)



Talent is sparse.

- Lack of documentation
- Difficulty hiring and retaining
- Consultants and developers are costly



Maintenance is costly.

- Costly hardware upgrade projects
- Monolithic applications
- Expensive licensing fees



The modernization quest map

Approach	Description	Considerations	Benefits	Drawbacks
 Retain	Keep the application on the mainframe without making any significant changes.	The mainframe is a permanent part of your IT strategy and business value of modernization is low.	<ul style="list-style-type: none">• IT can focus on other priorities• Low risk	Ties the enterprise to the mainframe – with related operations and maintenance costs.
 Rehost	Move the application to a new platform (like the cloud) with minimal or no code changes, also known as "lift and shift."	When seeking a quick exit from the mainframe on-prem and into the cloud.	<ul style="list-style-type: none">• Lower infrastructure costs• Simplifies operations	Does not address underlying code, process, and architectural flaws.
 Replatform	Migrate the application logic and code to a new platform using automated tooling.	Preserves existing logic and process , resulting in new code.	<ul style="list-style-type: none">• Reduced infrastructure costs• Gets to the cloud	Results in new machine-generated code , not optimized for the cloud. Not always maintainable.
 Rebuild	Completely rewrite the application from scratch, retaining only the core business logic.	Starts from scratch when existing app is flawed and dated.	<ul style="list-style-type: none">• Injects new capabilities, efficiencies• Optimizes cloud performance	Has long timelines with high costs.
 Retire	With this strategy, you decommission an application that is no longer needed, consolidating its functionality into other systems or eliminating it entirely.	When functionality is redundant or no longer needed.	<ul style="list-style-type: none">• Reduced complexity• Eliminates operations & maintenance costs	Risks losing data, logic, and processes if not sufficiently replaced.
 Repurchase	Onboard a COTS solution to replace the functionality being driven through the mainframe.	When off-the-shelf solutions 100% meet business needs.	<ul style="list-style-type: none">• Reduced internal development costs• Vendor-supported operations & features	Forced into vendor processes and structures that don't always match business needs.

PRESS START ON A NEW APPROACH:

Reimagine.

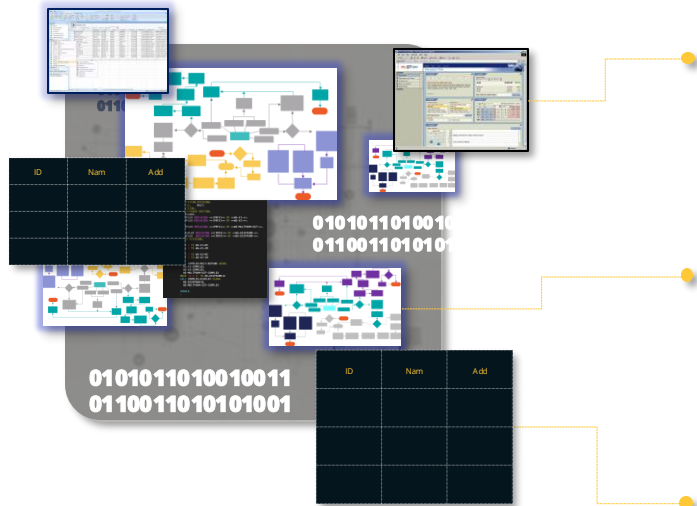
Use AI to analyze the application, surface your core processes, and unlock the path to cloud-native platforms – unleashing automation, new experiences, and data that legacy kept locked away.

- **Scan the dungeon:** Understand your core logic and workflows with AI.
- **Rethink & optimize** processes and customer journeys, injecting new automations.
- **Retain** logic and core requirements where you need to.
- **Level up:** Get to cloud platforms fast – decreasing operations cost and increase agility.



Beat the *status quo*

Why 75%+ of legacy modernizations projects fail.¹



No documentation

Millions of COBOL lines with minimal comments.

No componentization

Tight coupling between logic, UI, and data.

No rationalization

Complex encoded data schema – often with data quality issues.

WHY DO MOST MODERNIZATION APPROACHES FAIL?

They take years and millions of dollars.

Wasting teams of consultants' time just documenting your codebase and driving alignment on the path forward.

They leave you with new code to maintain.

Most approaches call for rewriting applications 1-for-1 from COBOL to Java in the cloud, leaving you with undiscernible, unmaintainable, AI-generated JOBOL.

They don't unlock AI or automation.

With a lift-and-shift approach, enterprises leave value on the table by not taking the opportunity to reimagine their processes as they transform.

Transformation reimagined



PEGA GenAI Blueprint™ My Blueprint Dashboard

RETAIL BANKING • SP-1004

Tech Entrepreneur Loan

Context Case Types Case Lifecycle Case Data Live Data Personas Summary

Let's define the Lifecycle for each Case Type

Select a Case Type: Business Plan Review [Edit Lifecycle](#)

Business Plan Review CASE TYPE

This case type represents the business plan review process for a small business loan application. It includes assessing the viability and potential of the tech entrepreneur's business plan, analyzing market conditions, competition, and growth projections. They must also qualify as either: - An existing business started within the past year, or - An busi...

Capture Information	Documentation Validation	Loan Application Review	Loan Application Resolution	Loan Disbursement
<input checked="" type="checkbox"/> Collect Applicant Information	<input checked="" type="checkbox"/> Validate Business Plan	<input checked="" type="checkbox"/> Operational Area Check	<input checked="" type="checkbox"/> Risk Acceptability Check	<input checked="" type="checkbox"/> Initiate Funds Transfer
<input checked="" type="checkbox"/> Collect Business Plan	<input checked="" type="checkbox"/> Validate Financial Statements	<input checked="" type="checkbox"/> Loan Amount Limit Check	<input checked="" type="checkbox"/> Assign Loan Manager	<input checked="" type="checkbox"/> Notify Applicant
<input checked="" type="checkbox"/> Collect Financial Statements	<input checked="" type="checkbox"/> Plan Feasibility Score	<input checked="" type="checkbox"/> Assign Underwriter	<input checked="" type="checkbox"/> Loan Approval	
<input checked="" type="checkbox"/> Application Routing	<input checked="" type="checkbox"/> Underwriter Approval			

[Back](#) [Preview my app](#) [Save and Close](#) [Next](#)



Rapid
analysis

Intuitive
Blueprint

Future-proof
architecture

GAME OVER, LEGACY.

Introducing Pega Blueprint

Pega Blueprint is enterprise workflow development powered by AI – built to bring people and AI together to scan the dungeon, accelerate automation, and jumpstart transformation.

Stop grinding. Start building.



Here's how you clear the level



#1 Scan the dungeon.

Extract insights automatically by uploading:

- **Documentation** (e.g. SOP)
- **Source code** analysis
- **Videos** and screens

#3 Collaborate seamlessly.

100% collaborative. Bring all your **business and IT collaborators** to:

- **Rapidly adapt** AI suggestions
- Capture requirements in **common language**
- **Preview the Cloud application** throughout

#2 AI loads the map.

AI agents **create a starting point application** built on:

- **Industry** best practices
- Pega and partner **expertise**
- Organizational **knowledge**

#4 Press start.

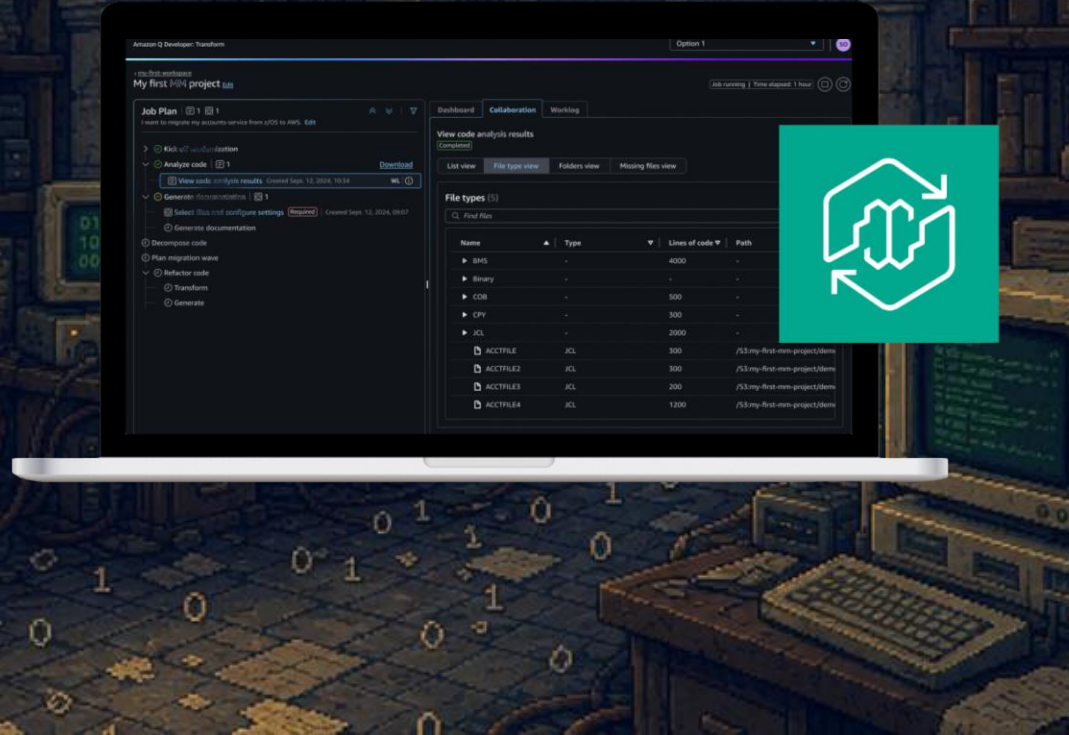
Stop lengthy requirements gathering processes and **go-live fast**:

- Import Blueprint to **generate your app**, in seconds
- Auto-generate **user story backlog**
- Leverage AI across Pega App Studio to **quickly finalize and deploy the new app**

Scan the dungeon, know every trap of your mainframe.

PEGA BLUEPRINT™

- **Analyze your code:** Securely import millions of lines of COBOL and supporting files for AI agents to analyze.
- **Document your application:** Automatically, AWS Transform produces comprehensive, natural language insights into your application to see how it works.
- **Understand your logic:** Use AWS Transform's auto-generated business rule library to get a complete view into the decisions, validations, and logic previously scattered across your application.

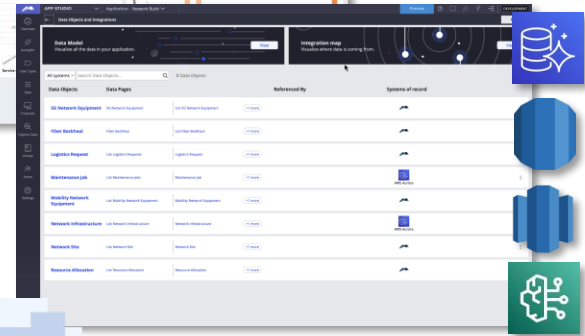
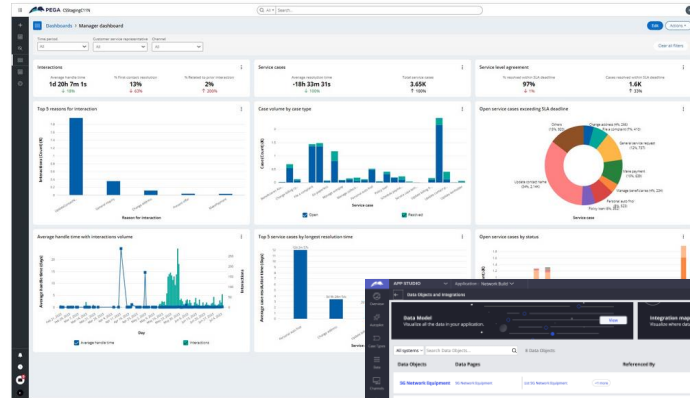




Speedrun your cloud migration

PEGA PLATFORM™

- **Go-live with cloud workflows, fast:** Generate new cloud-native application in Pega Cloud®, leveraging Blueprint-to-live's AI-powered SDLC.
- **Free data from legacy to fuel AI & automation:** Migrate legacy data to new cloud-native data stores on AWS – RDS, Aurora, and Redshift.
- **Quickly integrate workflows with enterprise data store:** Leverage native connectors to plug workflows into new data storage services.
- **Automate manual work with AI you can trust:** Embed Pega Predictable AI™ agents into your workflows and experiences to unlock an agentic operation at scale.



Achievement unlocked: AI you can trust

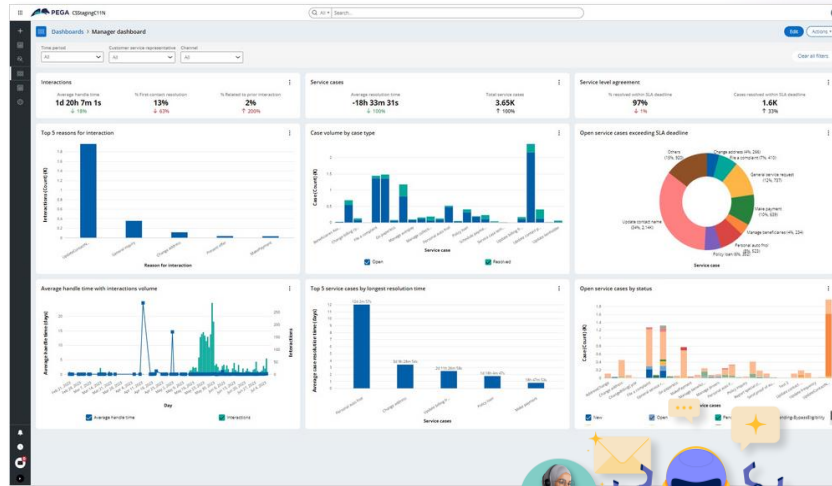
NO GLITCHING. NO LAG. JUST AI THAT DELIVERS.

With Pega Predictable AI™ agents, enable self-service and automation with AI that takes cues from governed workflows, not from their own ideas. So you can...

Automate everything: Drive processes which orchestrate dozens of low-code AI and automation capabilities.

Connect front- & back-office: Embed workflows into any channel, arming customers and employees with the outcomes they need across web, mobile, chat, email, voice, and more.

Unlock efficiency at scale: Maximize resource utilization and solve issues before they occur with intelligent work prioritization, routing, SLA management, reporting, and more.



AI Agents



Predictive AI



Integrations



Decisioning



RPA



Business rules



Calculations



Correspondence



The status quo

Why 75%+ of legacy modernizations projects fail.¹

Complete retirement

Analyze & understand

(6 months)

Swimming in code & documentation trying to build an understanding of what's in the legacy system, what to move, and why.

Design & plan

(3 months)

Difficult to align business & IT on future-state which carries forward what you need, while also reimagining where you want.

Build & deploy

(1-3 years)

Slow, costly manual development often drowning in machine-generated Java which is unreadable and unmaintainable.

Migrate, cutover

(6 months)

Long release cycles, slow data migration & complex integrations difficult to get data to the cloud and to tap new systems into existing IT landscape and databases.



Your legacy modernization *power-up*

AI-led transformation with Pega

Fast-pass to legacy retirement

Business friendly
AI-driven analysis

Low-code development
on a cloud platform

Analyze
1 day

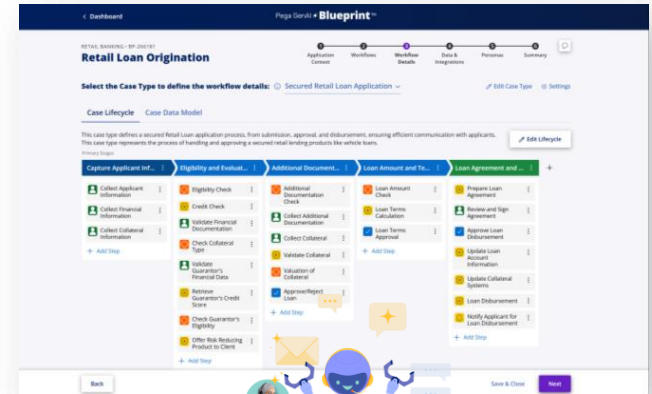
Design
2 weeks

MVP Live
90 days

Fully retire
<6 months

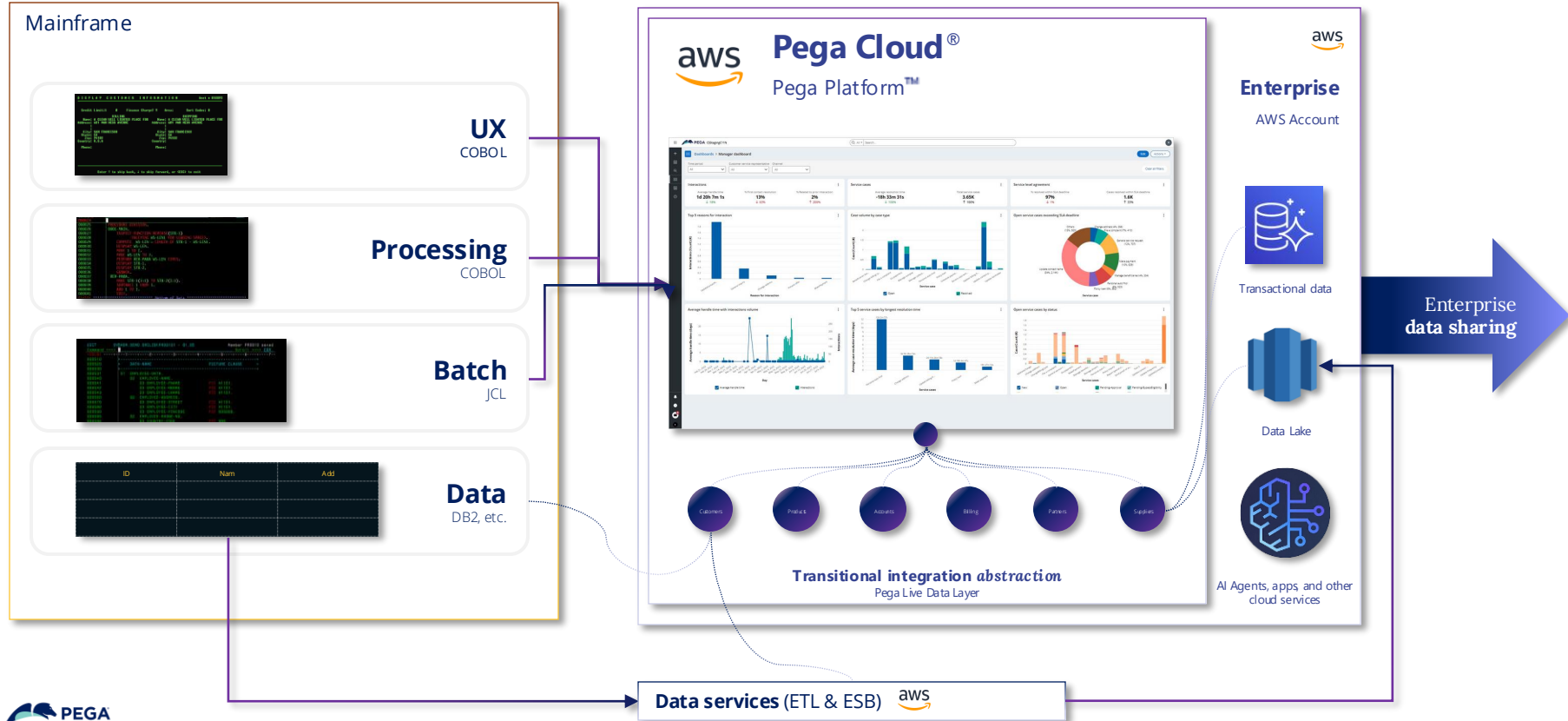
Collaborative, AI-infused
design with Pega Blueprint™

Flexible, autogenerated
Integration & data management



Transformation *architecture*

Transitional state architecture





Pegasystems is
“compressing this
multi-year mainframe
modernization project
to **deliver value in
under 90 days.**”

- Swami Sivasubramanian, Vice President,
Agentic AI, Amazon Web Services



Check out the leaderboard

Client successes

US State Agency

From 1M+ lines of COBOL
to cloud prototype in

2 weeks

Mainframe replacement POC
with AWS & Pega



Allianz 

**Moving underwriting off
of homegrown apps and
into the cloud**

**Faster time
to market**

Java replacement POC with
Accenture & Pega Blueprint


accenture


vodafone

**From legacy workflows
to new cloud apps**

**Go-live in
40 hours**

Network Operations
Transformation



**Rapid migration off of
legacy BPM**

**800+
workflows**

Shared Services
Transformation

STRATEGIC COLLABORATION AGREEMENT

Driving AI-led
transformation at the
world's largest
enterprises.



