



PegaWorld

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The End of Code-First Legacy Modernization

How AI Is Rewriting the Mainframe Playbook

Panelists



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Why now: the cost of delay is rising



Technical debt consuming budgets

80%

of IT budgets spent on maintenance

Legacy code absorbs up to 80% of IT budgets on maintenance — crowding out innovation and leaving critical workloads trapped in systems that are expensive and high-risk to change.



A talent cliff with no safety net

1 in 3

COBOL experts retire by 2030

Institutional knowledge is concentrated in a shrinking workforce. As specialists retire, even modest changes become costly, slow, and risky — with no — with no natural replacement pipeline.



Platform costs with no ceiling



Year-on-year with no ceiling

MIPS-based pricing, vendor lock-in, and mandatory hardware refresh cycles drive costs upward annually — compounding the case for change while simultaneously constraining the budget to fund it.



Business agility is blocked

69%

of IT leaders say mainframe blocks product launches

Complex interdependencies mean small changes take months. 69% of IT leaders name the mainframe as their primary obstacle to rapid launches — and the gap widens every year.



AI changes this: programs that took years now run in weeks

01 Reverse engineering — automated at scale

GenAI agents extract business rules, rebuild documentation, and map application flows directly from COBOL source. What previously took months of manual SME effort now runs in days — removing the dependency on retiring experts and breaking the knowledge bottleneck.

Western Union: 2.4M LoC analyzed, pilot delivered one month ahead of plan.

02 Code transformation — weeks, not years

AWS Transform and KIRO generate cloud-native Java from AI-extracted specs. Test cases are accelerated directly from business rules — no manual data collection. What required years of rewriting now completes in weeks, with AI-driven calibration throughout.

Proven on mainframe applications across banking, insurance, and retail.

03 End-to-end agentic delivery — discovery to production

Accenture's composable AI agents orchestrate every phase: discovery, wave planning, code conversion, testing, and triage. Cortex (Claude Code) + AWS Transform provide full SDLC governance — compressing program timelines and dramatically reducing execution risk.

[See how it works in the demo →](#)

Up next — [Demo: mainframe modernization using AWS Transform + Accenture AI Agents → Pega Blueprint](#)

Accenture & Pega using AWS Transform



Mainframe modernization demo using AWS Transform + Accenture Agents to Pega Cloud

Q&A



Thank you





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