PRESIDIO®

aws

Bridging the Gap Between Legacy Systems and Modern Expectations

Accelerating Public Sector Modernization with *Human AI*

hai
HUMAN AI

THE CHALLENGE FACING PUBLIC SECTOR IT LEADERS

Public sector organizations across the nation are navigating extremely complex realities today. Budget constraints have intensified while stakeholder expectations continue to rise. Students expect the same instant access they get from streaming services. Faculty want seamless collaboration tools that rival commercial platforms. Employees need efficient systems to serve their communities. Citizens demand online services that work as smoothly as their banking apps.

Yet behind these expectations is a harsh reality: the critical applications powering these services were built decades ago in COBOL, ColdFusion, or Fortran. While these systems have served reliably for years, the specialists who understand them are retiring, taking irreplaceable institutional knowledge with them. Modernizing means choosing between commercial solutions with seven-figure price tags that consume entire IT budgets or building from scratch with developers commanding salaries that public organizations cannot match. Recent vendor consolidations have only intensified the pressure, with some licensing costs tripling overnight, forcing IT leaders to do more with even less. As organizations search for a sustainable path forward, they're discovering that yesterday's solutions no longer fit today's reality.

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> "Every day students wait in longer lines because our systems can't talk to each other. They can order pizza in 30 seconds on their phone, but changing their major takes six forms and two weeks. We're failing them, and we know it."
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> — *Higher Education IT Director*

EVALUATING TRADITIONAL APPROACHES

Public sector IT leaders have historically faced a fundamental decision: build or buy. Building internally requires specialized developers and expertise that can be challenging to attract and retain within public sector salary structures. Purchasing commercial solutions often means significant upfront investments and ongoing licensing costs that may include features beyond organizational needs.

Many organizations have also explored lift and shift migrations as an alternative, but this approach can transfer existing inefficiencies to the cloud without addressing underlying modernization requirements. Each path presents its own challenges in an environment where resources are limited, as stakeholder expectations continue to grow.

A NEW APPROACH: HUMAN AI

Presidio's Human AI (HAI) solution accelerators offer a pragmatic path forward – AI-powered frameworks that enhance your team's capabilities while modernizing legacy systems cost-effectively. HAI is a solution accelerator/framework – rather than a product you license – designed to empower your staff throughout Presidio's professional services engagement with you.

HAI MODERNIZE: TRANSFORMING LEGACY APPLICATIONS

HAI Modernize accelerates the transformation of legacy applications into cloud-ready microservices. This solution addresses critical public sector needs, such as:

- ◆ **Comprehensive Documentation:** Automatically generate documentation for undocumented legacy systems
- ◆ **Code Translation:** Convert legacy languages (COBOL, Fortran, C, ColdFusion) to modern frameworks with 80% accuracy
- ◆ **Preserved Functionality:** Maintain all existing features while enabling cloud-native capabilities
- ◆ **Accelerated Timelines:** Complete modernization projects in months or weeks rather than years

HAI BUILD: ACCELERATING NEW DEVELOPMENT

When systems require replacement, HAI Build streamlines the development process:

- **Requirements to Code:** Transform business requirements into working applications efficiently
- **Team Empowerment:** Enable your existing developers to increase productivity significantly
- **Quality Assurance:** Built-in validation ensures enterprise-grade results
- **Modern Architecture:** Create cloud-native applications from the start

Traditional Modernization:	With HAI Assistance:
• 24 months	• 3-6 months
• $4 million estimated cost	• $300,000 investment
• Partial module completion	• Complete module coverage
• Large, specialized team required	• Existing team utilized

DOCUMENTED OUTCOMES:

- **70%** savings in modernization effort
- **5x** faster to modernize legacy applications
- Millions to hundreds of thousands reduced costs

SUCCESS IN ACTION

State Career Technology Agency

- **Challenge:** A state career and technology education agency needed to replace their student information system built on unsupported ColdFusion and SQL frameworks. The legacy application was critical for legislative reporting and annual appropriations. Traditional vendor proposals ranged from $800,000 with 9-12 month implementation timelines.
- **Solution:** Using HAI Build, Presidio designed, built, and deployed a complete cloud-native student information system in 4 months.
- **Result:** Modern system delivered at a fraction of traditional costs, with comprehensive reporting capabilities for legislative requirements and flexibility for future enhancements.

Major Research University

- **Challenge:** A large research institution faced a critical 4-month timeline to modernize legacy applications essential to campus operations.
- **Solution:** Using HAI Build, Presidio designed, built, and deployed a complete cloud-native student information system in 4 months.
- **Result:** Modern system delivered at a fraction of traditional costs, with comprehensive reporting capabilities for legislative requirements and flexibility for future enhancements.

State Government Agency

- **Challenge:** A state agency managing public gaming and revenue systems required enhanced fraud detection capabilities while modernizing aging infrastructure.
- **Solution:** HAI-powered modernization enabled automated pattern analysis and improved detection capabilities.
- **Result:** Enhanced fraud prevention with reduced manual investigation requirements and improved operational efficiency. for legislative requirements and flexibility for future enhancements.

WHY PARTNER WITH PRESIDIO?

- **25+** years serving state, local, and education organizations
- **Deep Expertise** — Our team includes former state CISOs, agency IT directors, and public sector innovators
- **Trusted Partnerships** — #1 Cisco public sector partner, Strategic Collaboration Agreement with AWS

✓ **Procurement complexities** — We navigate your RFP processes

✓ **Taxpayer accountability** — Cost-effective solutions that demonstrate ROI

✓ **Security requirements** — Built to meet government compliance standards

✓ **Change management** — Upskilling your team, not replacing them

YOUR NEXT STEP: A FUNDED DISCOVERY WORKSHOP

Presidio and AWS are offering fully-funded AI strategy workshops to qualified public sector organizations. In just 4 hours, our experts will work with your team to:

- Assess your legacy application landscape
- Demonstrate HAI on your actual code
- Build a modernization roadmap
- Identify quick wins and cost savings
- Provide a clear path forward

Available Workshops:

Data and AI Strategy	Generative AI Ideation	Application Modernization

READY TO BRIDGE THE GAP BETWEEN LEGACY AND INNOVATION?

https://www.presidio.com/solutions/hai-modernize/

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