

The PATH to AI Value

*A&M's Public Sector Framework for
Driving Artificial Intelligence Value
and Success*



The integration of artificial intelligence (AI) in the public sector offers significant opportunities to address challenges and transform key areas like defense, healthcare and education. However, the widespread adoption of AI is met with obstacles that require careful planning and strategic frameworks. Public sector organizations must ensure that AI innovation aligns with ethical, regulatory and operational standards.

In defense, the Department of Defense (DoD) has advanced AI through initiatives like the Artificial Intelligence Rapid Capabilities Cell (AI RCC), which aims to deploy AI solutions for national security. However, challenges remain in ensuring that AI systems meet stringent security requirements. In healthcare, CMS has proposed frameworks to regulate AI applications, focusing on fairness, transparency and equity while addressing concerns about algorithmic bias and privacy. The education sector faces challenges around data privacy and equitable access to AI-driven learning tools.

To navigate these complexities, Alvarez & Marsal has developed the **P.A.T.H. to AI Framework**, which guides public sector organizations through AI adoption with four strategic pillars: **PLAN, ADAPT, TRANSFORM** and **HARMONIZE**. The framework helps align AI initiatives with public sector goals, ensuring ethical, transparent and sustainable deployment.

This white paper explores how the **P.A.T.H. Framework** can unlock AI's potential across public sector domains, driving efficiency, improving services and fostering innovation.

Thank you,



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The PATH to AI Value: Introduction

Overview of AI in the Public Sector

Artificial intelligence (AI) is transforming the public sector, offering innovative solutions to long-standing challenges and improving government operations, public services and national security. AI's ability to streamline processes, enhance service delivery and drive efficiency has made it a key enabler across defense, healthcare, education and social services. However, its adoption brings significant concerns about ethics, privacy, data security and workforce adaptation. Public sector organizations must approach AI integration strategically to ensure alignment with regulatory standards and public interests.

Defense and National Security

In the defense sector, the U.S. Department of Defense (DoD) is advancing AI through initiatives like the Artificial Intelligence Rapid Capabilities Cell (AI RCC), which enhances military readiness. AI's role in intelligence gathering, operational efficiency and cybersecurity is critical, but challenges remain around ensuring security standards and resilience in complex environments, and mitigating adversarial threats. Ethical concerns, including AI's role in military decision-making, also need careful consideration.

Healthcare: Medicaid and CMS Initiatives

In healthcare, AI is streamlining care delivery, particularly in Medicaid and Medicare. The CMS has introduced regulatory frameworks that emphasize fairness and transparency in AI algorithms used for patient care. Despite AI's promise to improve diagnostics and personalize treatment plans, issues such as algorithmic bias and privacy concerns remain prominent.

Education and Workforce Transformation

The integration of AI in K–12 and higher education is increasingly becoming a transformative force, offering potential to address challenges such as student engagement, personalized learning and operational efficiency. The U.S. Department of Education, through its 2023 AI guidelines, stresses the importance of safeguarding student data while promoting the benefits of AI in improving teaching and learning outcomes.

Government Services and Citizen Engagement

At all levels, AI is improving citizen engagement through tools like chatbots that address public inquiries. AI analytics are also used to identify trends in public services, but challenges around data privacy and transparency persist. Ensuring fairness and accountability in AI systems that handle sensitive citizen information is critical.

The Need for a Structured Approach

The integration of AI in the public sector presents several challenges, particularly around complex regulatory environments, stakeholder needs and legacy systems. To successfully navigate these, public sector organizations need a comprehensive strategic framework.

1. **Data Privacy and Security:** Ensuring compliance with privacy laws like HIPAA and CUI is crucial to protecting sensitive data.
2. **Ethical and Regulatory Concerns:** Developing AI-specific regulations to promote fairness and transparency is essential.
3. **Integration With Legacy Systems:** Upgrading outdated infrastructure to support AI systems requires careful planning.
4. **Workforce Development:** Reskilling the workforce to manage and work alongside AI is necessary to avoid job displacement.
5. **Resource Constraints:** AI projects must demonstrate clear, measurable benefits to justify investment.
6. **Citizen Trust and Acceptance:** Transparent communication about the benefits and risks of AI is crucial for building public trust.

Why a Structured Approach is Crucial

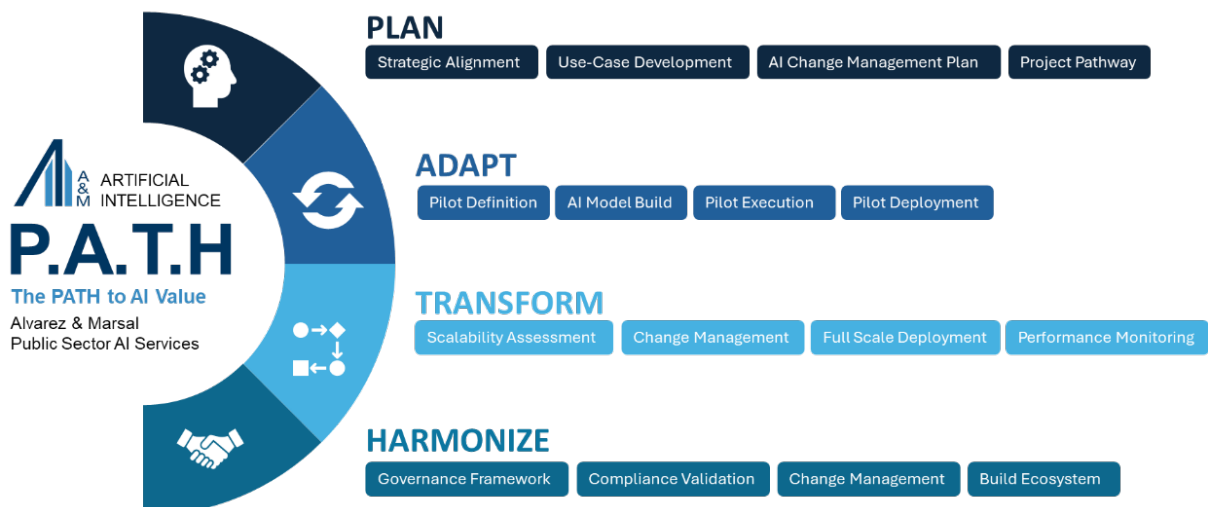
Given these challenges, a structured approach to AI integration is essential. Without a comprehensive framework, AI projects may face inefficiency, ethical dilemmas and loss of public trust. The **P.A.T.H. to AI Framework** by Alvarez & Marsal provides a clear, strategic pathway for public sector organizations to integrate AI technologies. This framework breaks down AI adoption into four manageable phases — **PLAN, ADAPT, TRANSFORM** and **HARMONIZE** — ensuring that AI projects are well-planned, executed responsibly and aligned with both regulatory requirements and organizational goals.



Alvarez & Marsal's Framework for Driving AI Success, Expanding the P.A.T.H. Framework

The P.A.T.H. Framework (Plan, Adapt, Transform, Harmonize) is designed to guide organizations on their journey to effectively implement and leverage artificial intelligence solutions. This white paper breaks down each phase of the framework and provides sector-specific insights for Higher Education, K–12, Medicaid, DoD, and State and Local Governments.

Foundational to our framework is our focus on AI as a capability, not a destination. The P.A.T.H. Framework prioritizes serving an organization's functional needs rather than wrapping organizations around available technology. This overarching approach can be applied across industries, ensuring AI solutions deliver sustainable value.



PLAN

The **PLAN** phase of the **P.A.T.H. to AI Framework** lays the foundation for AI adoption by ensuring that public sector AI initiatives are well-aligned with organizational goals, achievable and ready for deployment.

1. Strategic Alignment

AI projects must support both operational efficiency and broader public sector mission-specific goals. Strategic alignment ensures that AI initiatives serve the public good while meeting regulatory standards.

- **DoD:** The Artificial Intelligence Rapid Capabilities Cell (AI RCC) is a key initiative aimed at improving national security by enhancing defense operations through AI. Strategic alignment here includes ensuring that AI solutions improve specific military readiness and security-related goals.
- **Medicaid:** CMS's adoption of AI for claims processing and fraud detection aligns with the objective of reducing administrative costs while enhancing the accuracy and efficiency of public healthcare services. Aligning AI with the goal of better public health outcomes is critical in the Medicaid space.
- **Education:** AI in education can focus on creating personalized learning pathways, improving student outcomes and reducing administrative workloads for educators. Governments and/or institutions can define clear educational objectives, such as increasing student engagement, improving learning retention or expanding access to educational resources for underserved populations.
- **Local/Federal Governments:** Governments can align AI projects with public service delivery objectives, such as improving citizen engagement. AI chatbots used in public services like tax filing or answering welfare inquiries are aligned with the goal of enhancing the responsiveness and efficiency of government interactions with citizens.

2. Use Case Development

Identifying and prioritizing high-impact use cases is essential for successful AI integration. In the public sector, use cases should be specific and directly address the most pressing challenges while ensuring feasibility and effectiveness.

PLAN OUTCOMES

1. Clear Strategic Alignment
2. Prioritized Use Cases
3. Feasibility and Risk Assessment
4. Change Management Readiness
5. Resource Allocation and Budgeting
6. Defined OKRs
7. Milestone Planning

- **DoD:** Use cases in the defense sector include AI applications for intelligence analysis or operational efficiency. These high-priority use cases help improve national security operations and enhance military readiness.
- **Medicaid:** Key use cases for AI in Medicaid include streamlining claims processing and detecting fraudulent activity. AI can also be used to personalize care plans, improving healthcare delivery and reducing fraud, which directly impacts both operational costs and quality of care.
- **Education:** Use cases for AI in education include tools for personalized learning, predictive analytics to identify at-risk students, and AI-driven tutoring systems that can help tailor learning experiences to individual needs.
- **Local/Federal Governments:** In government, use cases include automating development assessments or public service inquiries through AI chatbots. These use cases reduce administrative costs and improve the speed of service delivery for citizens.

3. Change Management Plan

AI adoption requires a strong change management strategy to ensure that the organization, workforce and the public are prepared for technological shifts. This includes preparing staff, stakeholders and citizens for AI deployment.

- **DoD:** Preparing the defense workforce to use AI tools, including training DoD personnel to use AI-enabled systems, is critical. A pre-deployment readiness plan ensures that users understand how to interact with AI-powered tools effectively and securely.
- **Medicaid:** Implementing AI in healthcare requires training healthcare providers in the use of AI-powered diagnostic tools. A change impact analysis helps users understand how AI adoption will affect workflows and care delivery processes, ensuring minimal disruption.
- **Education:** Change management in education involves preparing educators to integrate AI tools into student pathways and curricula. A comprehensive communications plan could ensure that instructors and administrators understand how AI tools will assist in personalized learning and assessment.
- **Local/Federal Governments:** For AI-driven citizen engagement, local governments must develop training programs for staff to manage AI systems, such as chatbots. A clear communication plan is essential to ensure transparency with the public about how their data will be used by these AI systems.

4. Project Pathway

A well-defined project pathway helps ensure AI initiatives are executed on time, on budget and in line with the strategic goals. Milestones, resource allocation and tracking progress through clearly defined objectives are key to successful AI deployment.

- **DoD:** The project pathway for military AI initiatives involves the phased deployment of decisioning systems or cybersecurity tools.
- **Medicaid:** In healthcare, project milestones for AI adoption should be aligned with the rollout of fraud detection systems, with benchmarks related to accuracy and speed of claims processing. Resource allocation ensures that necessary technologies and personnel are in place for AI to be successfully implemented.
- **Education:** For AI-driven educational tools, the project pathway could include milestones such as pilot testing adaptive learning systems. Defining OKRs for each phase of deployment helps measure the effectiveness of AI tools in improving student learning outcomes.
- **Local/Federal Governments:** Local governments can outline a project pathway for implementing AI systems that automate public service processes. For example, AI chatbots for department inquiries could have a phased launch.

ADAPT

The **ADAPT** phase in the **P.A.T.H. Framework** is a critical stage for transitioning from AI planning to implementation. During this phase, public sector organizations refine AI models, conduct pilot programs and evaluate performance. The goal is to adapt AI technologies to meet the needs prioritized in the PLAN phase — whether it's improving service delivery, enhancing security or increasing operational efficiency. Below is a refined and contextualized breakdown of the **ADAPT** phase, detailing how it helps public sector entities.

ADAPT OUTCOMES

1. Validated AI Models
2. Clear Success Metrics
3. Successful Pilot Execution
4. Risk Mitigation
5. Scalability Assessment
6. Performance Monitoring
7. Full Deployment Readiness

1. Pilot Definition

The **Pilot Definition** phase sets the stage for AI testing, ensuring that the AI initiative aligns with public sector objectives and is designed for optimal results.

- **Establish Success Metrics:** It's crucial to define clear and measurable outcomes from the outset. For example, for Medicaid, success metrics can include reductions in claim processing time or improvements in fraud detection. In education, it could be student performance improvement or increased engagement with AI-powered learning tools.
- **Establish Reference Architecture:** This refers to defining the underlying AI infrastructure that supports the initiative, including data sources, systems and cloud infrastructure. In DoD projects, reference architecture might include secure, high-performance computing systems for real-time decision support systems in defense operations.
- **Data Collection and Tuning:** Collecting high-quality, relevant data is essential for the AI system's success. This could include healthcare data for predictive models or administrative data from government services. Data needs to be carefully collected, cleaned and tuned to ensure that AI models function accurately and fairly.

2. AI Model Build

The **AI Model Build** phase is where public sector AI systems are developed and fine-tuned to ensure that they address the specific needs of government operations and services.

- **AI Model Evaluation and Selection:** Choosing the right AI model is critical. For example, in Medicaid, AI models for fraud detection need to be carefully selected to ensure accuracy and fairness. Models that focus on deep learning or machine learning might be used depending on the problem's complexity, such as predictive healthcare analytics or automated eligibility determinations for benefits.
- **Prompt Engineering:** This involves creating effective prompts to guide the AI's behavior, especially in natural language processing (NLP) applications such as chatbots used by local governments to respond to citizen inquiries. For AI systems like these, it is crucial to ensure that the AI can understand and process a wide range of citizen requests accurately.
- **Data Preparation and Staging:** Before feeding data into the AI model, it must be preprocessed and staged to meet the model's requirements. In education, data preparation can involve cleaning student performance data or gathering teacher feedback to ensure that AI-powered learning tools can provide personalized learning experiences for each student.

3. Pilot Execution

The **Pilot Execution** phase involves testing AI systems in a controlled environment before full-scale deployment. This stage allows public sector organizations to assess the effectiveness of AI solutions in real-world scenarios.

- **Interface Design:** Developing user-friendly interfaces is crucial, where end users may not always be technologically savvy. For example, an AI system used for Medicaid claims processing needs an intuitive interface for both healthcare providers and beneficiaries to interact with, to ensure accessibility for all users.
- **Environment Build:** This involves setting up the infrastructure and technical environment to support AI deployment.
- **Pilot Engineering:** This step involves adapting AI tools and models to ensure they function well in the public sector's specific environments. This might involve customization of AI chatbots for local government or engineering algorithms to meet healthcare compliance standards in Medicaid.

4. Pilot Deployment

The **Pilot Deployment** phase is when AI systems are launched in a limited capacity, allowing for performance monitoring and assessment before full-scale implementation.

- **Pilot Acceptance:** This stage involves evaluating the AI system's performance against the defined success metrics. For example, in education, AI models for personalized learning need to be tested for student engagement and educational improvements. Similarly, AI-driven administrative tools for local governments must be evaluated for efficiency gains and reduced manual effort.
- **Performance Monitoring:** After pilot deployment, continuous monitoring is essential to ensure the AI system is working as intended. Public sector AI projects, particularly those in Medicaid or DoD, require ongoing evaluation to ensure that they adhere to security standards, meet ethical guidelines and provide the intended benefits. Monitoring AI's performance over time helps identify areas for improvement and fine-tuning.

TRANSFORM

The **TRANSFORM** phase in the **P.A.T.H. Framework** is pivotal for moving from pilot programs to full-scale deployment, ensuring that AI systems are optimized, integrated and sustainable in the long term. This phase focuses on ensuring that AI solutions are scalable, integrated into existing workflows and continuously improved to meet evolving needs. Below is an elaboration of the **TRANSFORM** phase.

1. Scalability Assessment

The **Scalability Assessment** ensures that AI solutions, after successful pilot testing, can be expanded to a larger population or operational environment.

- **Optimize Performance:** Before scaling AI systems, it is crucial to assess their performance in real-world conditions and make necessary optimizations. In Medicaid, AI tools used for claims processing and fraud detection might need optimization to handle higher volumes as they expand to cover more beneficiaries across the nation. For education, AI-driven personalized learning platforms must be tested for scalability to ensure that they can handle large numbers of students without compromising performance or accessibility.

2. Change Management

The **Change Management** process ensures smooth transition and acceptance of AI systems across the public sector workforce and stakeholders.

- **Stakeholder Communications:** Effective communication with stakeholders is essential to build trust and manage expectations. Stakeholders include government employees, citizens and advocacy groups. Clear communication helps manage concerns, especially regarding transparency, data privacy and potential job displacement. For local governments, explaining the benefits of AI tools to citizens ensures greater acceptance and trust.
- **Workforce Adoption:** Successful workforce adoption requires training, upskilling and ensuring that employees understand how to use AI tools effectively. In Medicaid, staff must be trained to interact with AI systems that streamline care coordination, claims management and fraud detection. For education, teachers need professional development to integrate AI-driven tools in their classrooms, such as using AI-based grading systems or personalized learning platforms.

TRANSFORM OUTCOMES

1. Transition Proven AI Pilots Into Production Systems.
2. Validate Scalability by Ensuring AI Solutions Can Perform Effectively
3. Establish Measurable KPIs to Track AI Effectiveness.
4. Implement Change Management Strategies
5. Change Management Framework

3. Full-Scale Deployment

The **Full-Scale Deployment** phase is when the AI solution is rolled out across the entire organization, optimized for performance, and fully integrated into existing workflows.

- **Workflow Integration:** AI must be integrated seamlessly into existing public sector workflows to avoid disruption and maximize efficiency. In education, AI tools like personalized learning platforms need to be incorporated into day-to-day classroom activities to assist teachers without disrupting traditional teaching methods.
- **Deployment Planning:** Detailed planning is necessary to ensure smooth deployment. This includes ensuring that infrastructure is scalable, staffing is adequate and all necessary resources (financial, technical and human) are available.

4. Performance Monitoring

Continuous monitoring is essential to assess how well the AI system is performing and to identify areas for improvement.

- **Establish Monitoring Framework:** A robust framework to track AI performance is crucial for ensuring that it continues to meet public sector goals. This could involve monitoring the performance of AI systems in different environments, thereby assessing their accuracy, reliability and operational effectiveness.
- **Iterative Development:** AI systems must be continuously refined based on real-time data. For Medicaid, iterative development might involve refining algorithms for fraud detection based on new patterns or emerging fraud tactics. In education, AI-based learning tools must be continuously improved to better meet the diverse needs of students, such as improving accuracy in predictive analytics for student performance.
- **Continuous Improvement:** Regular updates and improvements ensure that AI systems remain effective and aligned with evolving needs. For local governments, continuous improvement could involve using AI tools to improve traffic management systems, by updating models based on real-time traffic patterns or changes in urban infrastructure.

HARMONIZE

The **HARMONIZE** phase is focused on aligning AI initiatives with established public sector structures, ensuring compliance and fostering ongoing improvement. In this phase, AI systems are integrated into the wider organizational ecosystem while maintaining ethical standards, transparency and proper governance. This phase is critical for ensuring that AI projects are not only effective but also sustainable, fair and accountable. Below is an elaboration of the **HARMONIZE** phase.

1. Governance Framework

The **Governance Framework** in the **HARMONIZE** phase ensures that AI systems are managed and monitored effectively, maintaining accountability, fairness and transparency. It provides the structure needed to govern AI projects and address ethical concerns.

- **Governance Structure:** A solid governance structure is essential to oversee the deployment of AI systems in the public sector. For example, in Medicaid, a governance body might be established to ensure that AI tools used for claims processing are implemented according to regulatory standards and do not introduce bias in the distribution of benefits.
- **Monitoring and Accountability:** AI systems must be continuously monitored to ensure that they align with intended goals and comply with ethical standards. In education, AI tools that personalize learning must be regularly reviewed to ensure that they do not inadvertently reinforce biases or create disparities between student groups. In local governments, monitoring AI-based public services like chatbots ensures that they provide accurate and unbiased information to citizens.
- **Bias Mitigation and Compliance Oversight:** In the public sector, AI systems must be held to high standards of fairness and nondiscrimination. For Medicaid, AI models used for predictive care must be regularly audited for fairness to prevent healthcare inequities. Additionally, ensuring compliance with privacy regulations is crucial to maintaining public trust. In education, AI-driven decision-making tools for student assessments must be audited to ensure that they are free of bias.

2. Compliance Validation

HARMONIZE OUTCOMES

1. Seamlessly Integrate AI Solutions
2. Foster Collaboration Across Departments and External Stakeholders
3. Maintain Compliance With Public Sector Regulations
4. Establish AI Governance and Ongoing Monitoring and Evaluation Mechanisms
5. Workflow Readiness

Ensuring that AI systems comply with relevant laws, regulations and ethical guidelines is critical, particularly in the public sector where transparency and trust are paramount.

- **Audit and Compliance:** Regular audits ensure that AI systems comply with both internal policies and external regulations. For instance, DoD's use of AI in military operations must adhere to national and international laws governing the use of force and human rights. In Medicaid, audits are required to verify that AI-driven fraud detection systems are operating within the bounds of privacy laws and fairness regulations.
- **Ethics and Transparency:** AI initiatives must be transparent to ensure accountability and trust. For example, local governments deploying AI systems to optimize city services must ensure that the data used is publicly available and that citizens can track how AI decisions are being made. In education, transparency in AI systems used for grading or admissions is vital to prevent concerns over unfair practices.

3. Change Management

The **Change Management** component of the **HARMONIZE** phase ensures that AI integration is not only effective but that all stakeholders, including the workforce, are ready for the change.

- **Stakeholder Communications:** Effective communication with all stakeholders, including government employees, the public and third-party vendors, is critical for AI adoption. In Medicaid, clear communication with healthcare providers about how AI tools for claims processing will be integrated can alleviate concerns and increase buy-in. Similarly, in education, communicating the benefits of AI-driven personalized learning to parents and students is essential to avoid resistance.
- **Workforce Adoption:** For AI systems to be successful, public sector employees must adopt and embrace new technologies. This involves providing training to government employees, such as healthcare workers in Medicaid or teachers in education, to ensure that they can use AI systems effectively.

4. Build Ecosystem

The **Build Ecosystem** component focuses on ensuring that AI systems are integrated with existing public sector infrastructure, ensuring long-term sustainability and performance.

- **Alignment With Existing Systems and Processes:** AI systems must be aligned with existing processes, technologies and regulations in the public sector. For Medicaid, AI tools for fraud detection must integrate with existing claims systems and healthcare data networks. Similarly, AI-driven systems for education must be

compatible with existing learning management systems (LMSs) and educational standards.

- **Ensure Continuous Improvement:** AI in the public sector must be adaptable and evolve to meet changing needs, regulations and technological advancements. In local governments, AI tools used for public service optimization must continuously adapt based on feedback and data from citizens.

Conclusion

The P.A.T.H. Framework is more than a methodology; it is a comprehensive approach designed to turn the potential of AI into tangible value for public sector organizations. By focusing on planning, adapting, transforming and harmonizing, organizations can navigate the complexities of AI implementation with confidence and clarity. The framework emphasizes not only the technical aspects of AI but also the critical human, operational and strategic considerations that drive success.

Whether it is streamlining processes in education, improving healthcare outcomes through Medicaid, enhancing defense capabilities or optimizing public services in state and local governments, the P.A.T.H. Framework provides a structured pathway to sustainable AI transformation.

How Alvarez & Marsal Can Help

Ready to harness the power of AI in your organization? Alvarez & Marsal is here to guide you every step of the way. With our proven P.A.T.H. Framework, we'll help you unlock the full potential of AI while mitigating risks and ensuring lasting impact.



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ABOUT ALVAREZ & MARSAL

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