

The background of the slide is a futuristic, blue-toned scene. On the left, a white, humanoid robot with a glowing blue eye and the letters "AI" on its face is emerging from a circular, metallic structure. The robot is looking towards the right. The background features glowing blue lines and a sense of depth, suggesting a high-tech environment.

The Future of County Service Delivery

Using AI to Improve Access, Efficiency and Trust

John Matelski, CGCIO
Chief Information Officer
National Association of Counties
(202) 942-4264
jmatelski@naco.org

Agenda



- The Challenge
- Barriers to Adoption
- County Case Studies
- Implementation Framework
- The Future

The Challenge: Current Citizen Experience

Citizens face a fragmented and confusing journey when accessing government services, leading to frustration and low awareness of available support. Overcoming these barriers is critical to improving service delivery and citizen satisfaction.

Fragmented Service Journey

Citizens often start by identifying a service need but encounter multiple disconnected agencies and websites.

Less than half of citizens understand the full range of services available to them, with only 42% aware of specific assistance programs.

Information must be repeated across agencies due to data silos and lack of system integration.

This patchwork approach leads to inefficiency and creates barriers to smooth service access.

Data Fragmentation Issues

Government data is often siloed across agencies, preventing seamless information sharing.

Lack of centralized data analytics leads to inconsistent service delivery and poor citizen outcomes.

Manual processes and outdated technology exacerbate delays and errors.

Data fragmentation hampers the government's ability to provide personalized and timely services.

Common Frustrations

40% of citizens find it difficult to interact with government services, citing navigation challenges as a primary issue.

Long wait times and limited multilingual support increase frustration, especially for diverse populations.

Citizens frequently experience repeated requests for the same information across different departments.

This results in lower trust and reduced engagement with government services.

Understanding Service Availability

Only 46% of citizens understand the assistance programs they are eligible for, creating an awareness gap.

Difficulty navigating multiple websites and complex regulations hinders service discovery.

Citizens desire clearer information, fewer steps in processes, and faster responses.

Improving communication and accessibility is essential to meet rising citizen expectations.

AI Adoption Phases in Government

AI adoption in government is progressing through well-defined phases, starting from pilot programs to a future where autonomous AI governance is standard. This evolution enables governments to improve service delivery efficiency, responsiveness, and decision-making capabilities, ultimately transforming citizen interactions with public services.

Phase 1: AI in Pilot Programs	Phase 2: Emerging Mainstream Use	Phase 3: Integration Across Services	Phase 4: Autonomous AI Governance	Future Outlook: Fully Autonomous Services
Activities <ul style="list-style-type: none"> Initial testing of AI applications in limited government functions. Small-scale implementations focused on specific tasks like chatbots or data analysis. Evaluate AI feasibility and identify challenges in real-world settings. 	Activities <ul style="list-style-type: none"> Broader adoption of AI in select departments and processes. Integration of AI tools for improved efficiency and citizen engagement. Early success stories and data-driven insights inform expansion plans. 	Activities <ul style="list-style-type: none"> Cross-departmental AI systems enable seamless citizen service delivery. Data sharing and interoperability standards established. AI supports complex workflows and decision-making across agencies. 	Activities <ul style="list-style-type: none"> AI systems independently manage routine policy decisions and service delivery. Human oversight shifts to monitoring and strategic intervention. Increased automation reduces administrative burden and accelerates response times. 	Activities <ul style="list-style-type: none"> AI agents handle end-to-end citizen interactions with minimal human intervention. Continuous self-improvement and adaptive learning capabilities. Governments leverage AI for predictive governance and proactive service delivery.
Deliverables <ul style="list-style-type: none"> Pilot project reports Initial AI use cases Feasibility studies 	Deliverables <ul style="list-style-type: none"> Department-level AI implementations Performance metrics User feedback reports 	Deliverables <ul style="list-style-type: none"> Integrated AI platforms Interagency data governance policies Enhanced service workflows 	Deliverables <ul style="list-style-type: none"> Autonomous AI governance models Policy automation frameworks Oversight protocols 	Deliverables <ul style="list-style-type: none"> Cognitive AI architectures Self-learning systems Predictive governance applications

State-Level AI Momentum

State governments across the U.S. are rapidly advancing AI adoption through comprehensive legislative efforts, executive initiatives, and robust institutional frameworks. This coordinated momentum is driving systemic change and setting the stage for responsible, large-scale AI integration in public services.

Legislative Action

- Over 700 AI-related bills introduced in 40+ states during 2024, reflecting growing legislative focus on AI policy and regulation.
- Legislation addresses AI ethics, data privacy, security, and workforce implications to ensure responsible government use.
- States are proactively shaping AI frameworks ahead of federal guidelines to tailor policies to local needs.
- Broad bipartisan support is emerging as AI's impact on public services becomes clearer.
- Legislative trends indicate an accelerating pace of AI governance enactment at the state level.

Executive Leadership

- More than 30 governors have launched AI councils or task forces to steer statewide AI strategy and innovation.
- These executive bodies coordinate cross-agency AI initiatives, fostering collaboration and resource sharing.
- Governors' leadership signals political commitment to AI modernization and public trust building.
- Executive teams engage with private sector and academic partners to integrate best practices and emerging technologies.
- Leadership efforts emphasize ethical AI deployment and workforce preparedness.

Institutional Commitment

- States are establishing formal AI governance frameworks and policy structures to manage risks and ensure compliance.
- Dedicated funding mechanisms are being created to support AI projects and workforce development.
- Institutional efforts include creating data governance committees and transparency protocols.
- Collaboration with federal agencies and international bodies aligns state policies with global standards (ISO, NIST).
- This systemic approach promotes sustainable AI adoption and strengthens citizen trust in government services.

Trust in AI: Global and Demographic Factors

Public trust in AI varies widely across countries, age groups, education levels, and personal experiences, highlighting the need for tailored approaches to build confidence in AI-driven government services. Understanding these complexities is crucial for successful AI adoption and citizen engagement.

Global Variance

Trust in AI differs significantly by country, with China showing 40% higher trust levels compared to the U.S.

Cultural, political, and technological factors contribute to these international differences.

Government transparency and AI communication policies impact public perception globally.

Demographic Factors

Higher education correlates strongly with greater trust in AI technologies and applications.

Age influences trust; younger populations tend to be more accepting of AI in government services.

Differences exist within demographic groups, requiring targeted engagement strategies.

Experience-Based Trust

Positive direct experiences with AI increase citizen trust and willingness to use AI-driven services.

Negative prior interactions or misunderstandings about AI reduce trust and adoption rates.

Building consistent, transparent, and user-friendly AI experiences is key to enhancing trust.

Contextual Trust Dynamics

Trust levels vary depending on AI use in government versus private sector applications.

Government AI applications face higher scrutiny due to privacy and ethical concerns.

Clear communication of AI benefits and safeguards improves trust in public sector AI.

Behavior Change Through Convenience

Convenience fundamentally drives citizen adoption of new services, as demonstrated by examples like Uber and Waymo. Government services must meet or exceed private sector standards of ease and frictionless experience to ensure broad acceptance and engagement.

Private Sector Examples

- **Uber Effect:** Consumer preference shifts dramatically when frictionless, convenient transportation options are available, illustrating the power of seamless experience.
- **Waymo Integration:** Adoption of autonomous vehicles grows as ease of use and reliability demonstrate transformative potential for daily commuting.
- These examples highlight that convenience is not just a feature but a baseline expectation influencing behavior change.
- The shift towards on-demand, effortless services reflects a broader trend where users prioritize time-saving and simplicity.

Implications for Government Services

- Citizens expect digital government services to match private sector convenience standards, including 24/7 access and intuitive interfaces.
- Frictionless navigation and reduced complexity in government portals increase citizen engagement and satisfaction.
- Providing personalized, streamlined service pathways reduces frustration and increases trust in government institutions.
- Governments must prioritize user-centric design and technology integration to drive adoption and transform public service delivery.

Citizen Voice: Demand for Improved Services

Citizens face significant challenges interacting with government services, primarily due to difficulties navigating complex systems and lack of awareness of available programs. There is a strong demand for streamlined processes, faster responses, and clearer communication. Importantly, 90% of constituents show readiness and enthusiasm for AI-driven public service improvements, signaling a clear mandate for modernization.

Top Frustrations

40% of citizens find it difficult to interact with government services, with navigation being the primary pain point.

Repeatedly providing the same information across multiple agencies causes frustration and inefficiency.

Long wait times and unclear processes add to user dissatisfaction.

Service Awareness Gap

Only 42% of citizens understand what public services are available to them.

Just 46% are aware of assistance programs they might qualify for.

This lack of awareness limits citizens' ability to access support and benefits they need.

Desired Improvements

Citizens want fewer steps in service processes to reduce complexity.

Faster responses and clear, accessible information are top demands.

Improved multilingual support and digital access to services enhance inclusivity.

Readiness for AI

90% of constituents are open to AI agents assisting in public services.

Strong appetite for modernization through digital tools and AI-driven convenience.

Citizens expect AI to improve service speed, accuracy, and accessibility while maintaining transparency.

Barriers to AI Adoption in Government

Government adoption of AI faces significant hurdles including data security risks, complex regulations, procurement challenges, a shortage of skilled personnel, and internal resistance. Addressing these barriers is critical for successful and sustainable AI integration in public services.

1

Data Security Concerns

- Risk of data breaches threatens citizen privacy and trust in government AI systems.
- Compliance with stringent security protocols is mandatory to protect sensitive information.

2

Regulatory Complexity

- Evolving and diverse legal frameworks create uncertainty for AI deployment across jurisdictions.
- Government agencies must navigate sector-specific regulations and stay compliant with changing policies.

3

Procurement Limitations

- Lengthy procurement processes delay AI technology adoption and innovation.
- Budget constraints and limited vendor options restrict timely access to cutting-edge AI solutions.

4

Skilled Personnel Shortage

- Limited availability of AI talent in the public sector hampers project development and maintenance.
- High competition with the private sector makes recruiting and retaining skilled personnel difficult.

5

Internal Resistance

- Fear of job automation and change creates organizational inertia against AI initiatives.
- Effective change management and communication strategies are required to overcome skepticism.

Overcoming Data Security & Privacy Challenges

Proactively addressing data security and privacy through privacy-by-design, transparent data practices, encryption, and regulatory compliance builds essential citizen trust and enables responsible AI adoption in government services.

Privacy-by-Design Principles

Integrate privacy safeguards from the inception of AI system development to minimize data exposure risks.

Apply data minimization techniques to collect only necessary information for service delivery.

Embed strong access controls and encryption protocols throughout data lifecycle.

Conduct regular privacy impact assessments to identify and mitigate potential vulnerabilities.

Transparent Data Practices

Communicate clearly with citizens about what data is collected, how it is used, and who has access.

Provide explicit consent mechanisms allowing citizens to control their personal information.

Implement ongoing audits and reporting to ensure accountability and transparency.

Build trust through open disclosure of security incidents and remedial actions.

Compliance & Encryption Strategies

Adhere to federal and state privacy laws such as GDPR and CCPA to ensure regulatory compliance.

Establish data governance committees to oversee data handling and compliance efforts.

Use advanced encryption methods for data at rest and in transit to protect against breaches.

Develop comprehensive incident response plans to quickly address security threats.

Navigating Regulatory Landscape for AI

Effective AI adoption in government requires navigating a complex regulatory environment spanning federal, state, and international levels. Establishing clear frameworks and proactive engagement ensures compliance, fosters trust, and supports responsible AI innovation.

Federal Guidance

Executive orders directing ethical AI use and innovation.

Agency-specific AI guidelines for compliance and best practices.

Office of Management and Budget (OMB) frameworks setting federal AI standards.

State Initiatives

Over 700 AI-related bills introduced across 40+ states in 2024.

Formation of state AI councils and task forces to oversee AI policy.

Development of state-specific regulations and funding mechanisms for AI projects.

International Standards

Adoption of ISO standards providing global AI governance benchmarks.

National Institute of Standards and Technology (NIST) frameworks guiding AI risk management.

International cooperation to harmonize AI regulations and encourage cross-border innovation.

Unified AI Governance Framework

Creation of multi-level governance structures including data governance committees.

Policies emphasizing transparency, ethics, privacy, and citizen trust.

Continuous monitoring and documentation to ensure regulatory compliance and adapt to evolving laws.

County Case Studies Overview

Leading counties across the U.S. are leveraging AI to revolutionize public services, achieving measurable improvements in accessibility, efficiency, and citizen satisfaction. These real-world examples demonstrate how AI adoption can address specific local challenges and serve as scalable models for broader government transformation.

Maricopa County, Arizona

Implemented a multilingual AI chatbot supporting Spanish and English to reduce call center volume by 35%.

Improved accessibility for Latino residents representing 35% of the population.

Provided 24/7 service availability and faster response times.

Streamlined permit questions, benefit eligibility, and service navigation.

Set a replicable model adopted by other Arizona counties.

Cook County, Illinois & Harris County, Texas

Deployed AI-assisted hiring platforms to reduce time-to-hire by 40%.

Eliminated bias in resume screening and improved candidate quality.

Automated initial screening to handle large volumes of applications efficiently.

Advanced to predictive candidate success modeling for better role matching.

Achieved significant cost savings and improved recruitment consistency.

San Diego County, California

Established a county-wide AI governance committee and responsible AI policies protecting citizen privacy.

Deployed AI across departments including permits, child welfare, and health services.

Reduced permit processing time by 40%, enabling staff to focus on complex cases.

Piloted multiple AI applications positioning the county as a state innovation leader.

Provided resources and training for over 20,000 county employees.

Maricopa County: Multilingual Chatbot Success

Maricopa County significantly improved accessibility and citizen satisfaction by implementing an AI-powered multilingual chatbot. This innovation reduced call center volume by 35% and enabled 24/7 service availability, demonstrating how technology tailored to community needs can enhance equity and efficiency in government services.



Overview

- Maricopa County is Arizona's largest county with 4.4 million residents.
- Latino residents represent 35% of the population, requiring bilingual service solutions.
- High call volumes and limited multilingual support created bottlenecks and long wait times.
- Citizens experienced frustration navigating permit questions and benefit eligibility.

The Challenge

- High call volumes overwhelmed county service centers, especially for Spanish-speaking residents.
- Limited multilingual support hindered accessibility and caused longer wait times.
- Citizens faced frustration due to repetitive information requests and slow response times.
- Existing service navigation was difficult for non-English speakers, reducing overall service equity.

The Solution

- Deployed an AI-powered chatbot capable of supporting both Spanish and English languages.
- Chatbot available 24/7 to answer common questions about permits, benefit eligibility, and service navigation.
- Reduced call center volume by 35%, enabling staff to focus on complex cases.
- Improved accessibility for Latino residents, enhancing equity and satisfaction across the community.



Cook & Harris Counties: AI-Powered Hiring

Cook and Harris Counties have successfully modernized their government hiring processes by integrating AI at multiple stages. This transformation reduced time-to-hire by 40%, eliminated bias in candidate screening, and improved overall hiring quality and consistency.

Stage 1: Manual Screening	Stage 2: AI-Assisted Screening	Stage 3: Accelerated Hiring	Stage 4: Predictive Outcomes
Activities <ul style="list-style-type: none">• Human staff manually review hundreds of job applications, resulting in time-consuming and inconsistent evaluations.• High volume of applications slows down hiring and increases workload on HR teams.• Potential for unconscious bias during candidate review impacts fairness.	Activities <ul style="list-style-type: none">• AI deployed to screen resumes and identify qualified candidates efficiently.• Automation reduces manual workload and accelerates initial candidate shortlisting.• Bias mitigation algorithms implemented to ensure fair evaluation of applicants.	Activities <ul style="list-style-type: none">• Reduced time-to-hire by 40% in both Cook and Harris Counties.• Improved consistency and quality of candidate evaluation across departments.• Streamlined workflow allows HR to focus on strategic hiring decisions.	Activities <ul style="list-style-type: none">• AI predicts candidate success and recommends best fits for various county roles.• Continuous learning models improve candidate matching over time.• Supports recruitment strategies with data-driven insights for workforce planning.
Deliverables <ul style="list-style-type: none">• Baseline hiring process documented• Identification of bottlenecks and inefficiencies• Manual screening metrics	Deliverables <ul style="list-style-type: none">• AI screening tool integration• Bias reduction protocols• Initial candidate shortlist reports	Deliverables <ul style="list-style-type: none">• Time-to-hire metrics showing improvement• Consistent candidate evaluation framework• Enhanced hiring process guidelines	Deliverables <ul style="list-style-type: none">• Predictive analytics dashboards• Candidate success prediction models• Ongoing AI model refinement reports

San Diego County: AI Operations Modernization

San Diego County's AI governance framework and cross-departmental AI deployment have reduced permit processing times by 40%, improved service delivery outcomes, and positioned the county as a leader in AI innovation among California counties.



Overview

- San Diego County established an AI governance committee in 2023 to oversee ethical AI use.
- Developed a responsible AI policy emphasizing citizen privacy and data protection.
- Provided AI training and resources to over 20,000 county employees.
- Piloted AI applications in permit processing, child welfare, and health services departments.

Challenges

- Permit processing delays caused significant citizen frustration and inefficiencies in service delivery.
- Lack of a unified AI governance policy led to inconsistent privacy and risk management across departments.
- County staff had limited AI training and resources, hindering effective adoption and scaling.
- Modernizing operations was necessary without disrupting essential government services and workflows.

Solution

- Formed a centralized AI governance committee to establish policies, ensure privacy compliance, and manage AI risks across departments.
- Deployed AI tools in permit processing and social services to accelerate workflows and improve service quality.
- Implemented comprehensive AI training programs and provided ongoing resources to equip county employees with necessary skills.
- Conducted pilot programs to test AI applications thoroughly before scaling up, ensuring smooth integration and minimizing disruptions.

Fulton County: AI Pilot Program Impact

Fulton County's AI pilot program has significantly improved operational efficiency, service quality, and staff satisfaction while demonstrating strong scalability potential for broader application across county services.

1

Staff Hour Savings

- AI handles routine administrative tasks, freeing up staff for complex casework.
- Achieved 40% reduction in permit review hours, accelerating citizen intake processes.
- Overall time savings of 22% realized in service application processing.

2

Quality Improvements

- Enhanced document preparation leading to 45% reduction in application errors.
- Improved communication quality between staff and citizens.
- Streamlined service delivery processes with fewer mistakes and delays.

3

Staff Satisfaction

- Increased job satisfaction due to reduced tedium and focus on meaningful work.
- Employee engagement scores improved by 32% during the pilot.
- Turnover among pilot participants dropped by 35%, indicating stronger retention.

4

Scalability Insights

- Lessons learned inform broader AI rollout strategies for large urban counties.
- Permit processing services show 4x higher ROI compared to other services.
- Developed change management playbook to support smooth AI adoption in complex environments.

King County: AI Workforce Planning & HR

King County leverages predictive AI models to analyze workforce trends, enabling strategic planning that aligns workforce capabilities with future needs. This approach improves recruitment, reduces skill gaps, and enhances service delivery through data-driven staffing decisions.

Workforce Analysis

- AI models analyze retirement patterns to forecast staffing needs.
- Identifies critical skill gaps in specialized services like social and health departments.
- Data-driven insights enable proactive workforce planning.
- Supports succession planning for key roles to maintain service continuity.
- Enhances understanding of workforce demographics and trends.

Strategic Planning

- Aligns workforce capacity with future county service demands.
- Develops targeted recruitment strategies for specialized positions.
- Predicts future workforce needs across departments to optimize resource allocation.
- Facilitates proactive training and upskilling initiatives based on predictive insights.
- Enables scenario planning to address potential workforce challenges.

Outcomes & Benefits

- Improved staffing alignment with county priorities and service requirements.
- Reduced critical skill gaps through focused recruitment and training.
- Enhanced ability to compete for skilled workers in a competitive tech sector.
- Improved service delivery through better staffing decisions and strategic workforce management.
- Supports long-term sustainability of county workforce through data-driven management.

Leading County Innovations

Franklin County and Dublin are pioneering AI solutions tailored to specialized populations, improving family stabilization and accessibility with targeted technology.

Franklin County Targeted AI



Deploying AI in Family Stabilization programs to serve elderly and neurodivergent residents, improving caseworker effectiveness and family outcomes.

Dublin AI Startup Grant



\$200K state-funded pilot supporting AI innovations to address accessibility and specialized needs, demonstrating commitment to inclusive AI adoption.

Mid-Size County AI Adoption

Mid-size counties like Polk County, Florida, and Hennepin County, Minnesota, are pioneering AI adoption to enhance government service delivery. Their projects demonstrate that AI can be scaled effectively to serve populations between 700,000 and 1.25 million, leading to faster processing times and reduced case resolution periods, improving overall citizen satisfaction.

Polk County, Florida: AI in Citizen Services

- Population served: 725,000 residents with diverse urban and suburban communities.
- Experimenting with AI tools to support citizen-facing services and case management.
- Focus on streamlining business licensing and permitting processes for efficiency.
- Achieved a 40% faster processing time in key service areas.
- Demonstrates practical AI adoption feasibility in mid-size counties.

Hennepin County, Minnesota: AI for Case Resolution

- Population served: 1,250,000 residents, the largest county in Minnesota.
- Early adopter of AI technologies for improving government operations and citizen support.
- Using AI tools to reduce case resolution times by 35%, enhancing service speed.
- Focus on addressing urban challenges through scalable AI solutions.
- Showcases AI's potential to improve government responsiveness and citizen satisfaction.

Los Angeles County: Family and Wellness AI Services

Los Angeles County's AI initiatives enhance family and wellness services by reducing administrative burdens, improving caseworker efficiency, and enabling faster, targeted assistance. The countywide expansion shows scalable AI adoption with strong data protection and human oversight, serving as a model for large urban counties nationwide.



Overview

- Serving over 10 million residents, one of the largest U.S. counties.
- Focus on family support and wellness services for complex social needs.
- Implemented AI tools to assist caseworkers with case analysis and documentation.
- Emphasizes data protection and transparency with human oversight.

Problem

- High administrative burden on county caseworkers due to complex family and wellness cases.
- Lengthy documentation and case analysis processes delay timely service delivery.
- Need for improved accuracy and responsiveness in family service requests across a large population.
- Scaling effective service models countywide is challenging due to diverse needs and resource constraints.

Solution

- Deployed AI-powered case management tools to assist caseworkers with complex case analysis and reduce documentation.
- Integrated AI recommendations to improve decision-making speed and accuracy in family support services.
- Implemented transparency measures ensuring AI use with human oversight for ethical service delivery.
- Expanded AI deployment across all county regions, sharing best practices with other large counties to scale impact.

County Digital Transformation

Counties face significant challenges with citizen navigation due to fragmented services and complex regulations. AI-powered chatbots trained on local regulations provide 24/7 assistance, simplifying interactions and improving accessibility. These solutions reduce staff workload and enhance the digital experience, aligning government services with private sector standards while demonstrating clear ROI.

1

The Challenge

- Citizens struggle to navigate county government services due to multiple disconnected websites and complex permit requirements.
- Understanding permit requirements and zoning regulations is difficult for many residents, causing confusion and delays.
- Lengthy processing times and fragmented information hinder efficient service delivery and frustrate citizens.

2

AI Chatbot Solution

- AI chatbots are trained on local county regulations to assist citizens with permits, zoning, and service navigation.
- The chatbot provides 24/7 access to county information, offering immediate responses to common inquiries.
- This digital tool handles repetitive questions, freeing staff to focus on more complex citizen needs.

3

Expected Impact

- Significant reduction in citizen confusion about available county services and programs.
- Faster response times to common questions, improving overall accessibility and satisfaction.
- Improved digital experience that meets or exceeds private sector service standards, increasing citizen trust.





4

County Benefits

- Reduced staff workload handling repetitive inquiries, allowing reallocation to higher-value tasks.
- Demonstrates clear return on investment through efficiency gains and improved service delivery.
- Positions counties as technology-forward leaders, creating a model for broader adoption across departments.

Implementation Framework for AI Adoption

A structured, phased approach with strong governance, policy frameworks, and dedicated county resources is essential for successful and sustainable AI adoption in county services. This framework ensures transparency, trust, and scalability while empowering county departments and staff.

Governance Partnerships 	Policy Frameworks 	Phased Implementation 	County Support & Resources 
Activities <ul style="list-style-type: none"> Establish cross-departmental AI governance committees to oversee ethical use, risk management, and compliance. Collaborate with state governments and external stakeholders to align AI policies with legal and regulatory standards. Develop transparency protocols and citizen engagement strategies to build public trust. 	Activities <ul style="list-style-type: none"> Create county-wide policies for responsible AI deployment addressing privacy, security, and data management. Incorporate privacy-by-design principles and regulatory compliance into AI system requirements. Define clear accountability and audit mechanisms for ongoing monitoring and improvement. 	Activities <ul style="list-style-type: none"> Begin with pilot projects in select departments to test AI applications and gather feedback. Scale successful pilots gradually across multiple departments with continuous performance evaluation. Optimize AI deployments through iterative improvements and integration with existing workflows. 	Activities <ul style="list-style-type: none"> Provide comprehensive training and resources to county staff for AI literacy and skills development. Establish an AI center of excellence to centralize expertise, support, and innovation. Facilitate best practice sharing among counties to promote collaboration and accelerate adoption.
Deliverables <ul style="list-style-type: none"> AI governance framework Ethics and compliance guidelines Stakeholder engagement plan 	Deliverables <ul style="list-style-type: none"> County AI policy document Privacy and security standards Accountability and audit protocols 	Deliverables <ul style="list-style-type: none"> Pilot project reports Scaling roadmap Continuous improvement plan 	Deliverables <ul style="list-style-type: none"> Training programs AI center of excellence Knowledge sharing networks

Measuring AI Success: KPIs to Track

Tracking key performance indicators across efficiency, quality, impact, speed, and adoption is critical to demonstrate AI's value and ROI in county government services. These metrics help quantify improvements, guide ongoing optimization, and justify continued investment.

40%

Time Saved

Reduction in hours spent per process, reflecting increased operational efficiency through AI automation.

35%

Error Reduction

Decrease in mistakes and inaccuracies, improving service quality and citizen satisfaction.

4.5/5

Citizen Satisfaction

High average rating from citizen surveys indicating improved experience and trust.

45%

Processing Speed

Faster completion times for service requests and permit processing enabled by AI.

80%

Employee Adoption

Percentage of staff actively using AI tools, showing workforce engagement and readiness.

25%

Cost Reduction

Lower operational expenses due to AI-driven efficiencies and reduced manual workload.

Building Your AI Center of Excellence

Establishing an AI Center of Excellence (CoE) is critical for sustained AI success in counties. It requires coordinated governance, technical expertise, talent development, and innovation scaling to ensure responsible, efficient, and impactful AI adoption.

Governance & Policy

Set standards for responsible AI use across all county departments to ensure ethical and transparent practices.

Establish a cross-functional steering committee to oversee AI projects, manage risks, and ensure compliance with regulations.

Allocate approximately 15% of the AI budget to governance activities to maintain strong oversight.

Measure success by achieving 100% compliance rate and 90% project approval rate.

Technical Excellence

Focus on architecture design, technology platform selection, and seamless integration of AI systems.

Maintain high platform uptime with a target of 99.9% availability to support critical government services.

Structure a core engineering team dedicated to AI development and integration efforts.

Dedicate 40% of the AI budget to technical excellence to ensure robust and scalable solutions.

Talent & Skills

Recruit AI specialists and train existing staff through certification and continuous learning programs.

Create career development pathways and offer AI coaching to retain skilled professionals.

Structure teams with HR specialists and AI coaches to foster knowledge sharing and skill growth.

Invest about 25% of the AI budget in talent development to achieve 80% skill certification and 95% retention rates.

Innovation & Scaling

Identify opportunities for pilot projects and test new AI technologies with business units.

Scale successful AI models across departments to maximize impact and return on investment.

Establish an innovation lab to drive experimentation and foster a culture of continuous improvement.

Allocate 20% of the AI budget to innovation efforts, targeting a 5x ROI on pilots and 70% adoption rate.

The Future: Autonomous Government Services

Government services are evolving through four key stages of AI autonomy, progressing from AI-assisted work to fully autonomous AI agents managing comprehensive citizen interactions. This evolution will enhance efficiency, reduce human intervention in routine tasks, and enable government workers to focus on oversight and strategic roles.

	Stage 1: Assisted Work (2024-2025)	Stage 2: Delegated Tasks (2026-2027)	Stage 3: Supervised Autonomy (2028-2029)	Stage 4: Autonomous Agents (2030+)
Key Activities	<ul style="list-style-type: none"> AI supports human workers by assisting with routine tasks such as research, drafting, and document processing. Humans retain full decision-making authority and manage exceptions or complex cases. Basic natural language processing (NLP) and document automation are key capabilities. AI acts as a powerful productivity tool enhancing human efficiency without replacing roles. 	<ul style="list-style-type: none"> AI begins handling routine, predefined tasks independently, such as workflow automation and simple decision trees. Humans supervise AI outputs and intervene only for exceptions or escalations. Capabilities include workflow automation and basic decision-making algorithms. This stage reduces manual workload and improves processing speed while maintaining human control. 	<ul style="list-style-type: none"> AI systems make more complex decisions with human oversight, including research, drafting, and policy recommendation. Humans monitor AI quality and handle exceptions to ensure accountability. Advanced reasoning and case-based learning capabilities enable adaptive AI performance. This phase builds trust and reliability in AI decision-making within government services. 	<ul style="list-style-type: none"> AI agents manage full citizen service journeys end-to-end with minimal human intervention. Humans transition to strategic oversight and governance roles. AI capabilities include full cognitive architecture and self-improvement. This stage represents the vision of fully autonomous government service delivery, enhancing accessibility and efficiency.
Deliverables	<ul style="list-style-type: none"> Deployment of AI tools for task assistance Training programs for staff on AI collaboration Establishment of human oversight protocols 	<ul style="list-style-type: none"> Implementation of AI task automation systems Protocols for human supervision and escalation Performance monitoring frameworks 	<ul style="list-style-type: none"> Deployment of advanced AI decision-support systems Establishment of continuous monitoring and feedback loops Human oversight frameworks for AI autonomy 	<ul style="list-style-type: none"> Launch of autonomous AI service platforms Governance policies for autonomous AI Strategic human oversight and intervention plans

Predictive Governance & Proactive Service

Predictive governance leverages AI to anticipate citizen needs and enable proactive outreach, improving service delivery and satisfaction. By providing seamless lifecycle support, governments can transition from reactive to anticipatory service models, resulting in better citizen outcomes and increased trust.

Anticipatory Needs

AI models analyze data to predict when citizens will require specific services before requests are made.

Identifies eligibility for programs and flags potential crises early, enabling timely intervention.

Supports personalized recommendations tailored to individual circumstances and life events.

Helps government agencies allocate resources more efficiently by forecasting demand.

Reduces emergency service requests by addressing issues proactively, minimizing citizen hardship.

Proactive Outreach

Automated communication systems notify eligible citizens about available programs and benefits in advance.

Personalized outreach increases participation and engagement rates in public services.

Enables governments to reach underserved or vulnerable populations more effectively.

Facilitates early intervention through timely alerts, reducing the need for reactive crisis management.

Improves transparency by keeping citizens informed and engaged in their service options.

Lifecycle Support

Government services are integrated to provide continuous support across different stages of a citizen's life.

Seamless transitions between departments ensure consistent service experience without repeated information sharing.

AI-driven case management tracks citizen journeys holistically, improving outcomes.

Supports coordinated assistance during major life events such as childbirth, aging, or unemployment.

Enhances citizen satisfaction by delivering timely, relevant, and comprehensive government support.

Talent Strategy for AI-Ready Workforce

A strategic focus on recruitment, upskilling, retention, and culture building is essential for developing a government workforce capable of successfully adopting and managing AI technologies. This holistic talent approach ensures sustainable AI integration and empowers employees to maximize AI benefits.

Recruitment

Targeted hiring campaigns to attract AI specialists and data scientists with competitive government packages.

Partner with universities and tech programs to build a pipeline of AI-ready talent.

Leverage the Federal AI Fellows Program and other specialized recruitment initiatives.

Recruit from the private tech sector to infuse cutting-edge skills and fresh perspectives.

Retention

Offer competitive compensation aligned with private sector benchmarks to reduce talent attrition.

Create clear career advancement pathways in AI-related roles within government.

Assign meaningful, high-impact projects to increase job satisfaction and engagement.

Foster a strong mission alignment emphasizing the public service value of AI work.

Upskilling

Implement mandatory AI literacy courses to build foundational knowledge across all departments.

Provide technical certifications and advanced training through programs like AI.gov Academy.

Develop prompt engineering and AI system monitoring skills among existing staff.

Encourage continuous learning and knowledge sharing to keep pace with evolving AI technologies.

Culture Building

Establish innovation labs and dedicated AI teams to empower experimentation.

Allocate 20% of staff time for innovation projects to encourage creativity and breakthrough ideas.

Host regular AI showcase events to celebrate learning and successful initiatives.

Promote a culture of ethical AI use, collaboration, and continuous improvement.

Securing Budget & Resources for AI

Sustainable AI initiatives require a strategic blend of funding sources, combining operational efficiency savings, grants, and innovative procurement models. Clear budget planning and ROI demonstration are essential to secure ongoing resources and support for AI projects in government.

Operational Efficiency Funding

Demonstrate return on investment (ROI) through improved processes and cost savings.

Reallocate budget savings from streamlined workflows and automation to fund AI initiatives.

Use efficiency gains to justify ongoing AI investment within existing operational budgets.

Grant & Innovation Funding

Leverage federal and state grants dedicated to technology and innovation in government.

Pursue funding from foundation support and state innovation funds to supplement budgets.

Engage in public-private partnerships to access additional resources and expertise for AI projects.

Traditional & Alternative Funding Models

Include AI projects in annual budgets as a strategic investment aligning with agency mission.

Explore performance-based contracts and outcomes-based procurement to share risk with vendors.

Use self-funding models where AI-driven savings finance future AI development and deployment.



DISCUSSION

John Matelski, CGCIO
Chief Information Officer
National Association of Counties
(202) 942-4264
jmatelski@naco.org