

Generative AI in the States: Priorities, Trends and Recommendations

NSCL Task Force on Artificial Intelligence, Cybersecurity and Privacy

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2025 STATE CIO TOP 10 PRIORITIES

Priority Strategies, Management Processes and Solutions

1 CYBERSECURITY AND RISK MANAGEMENT



2 ARTIFICIAL INTELLIGENCE / MACHINE LEARNING
/ ROBOTIC PROCESS AUTOMATION



3 DIGITAL GOVERNMENT / DIGITAL SERVICES



4 DATA MANAGEMENT AND ANALYTICS



5 LEGACY MODERNIZATION



6 BUDGET / COST CONTROL / FISCAL
MANAGEMENT



7 IDENTITY AND ACCESS MANAGEMENT



8 CLOUD SERVICES



9 WORKFORCE



10 ACCESSIBILITY



NASCIO Considerations for Developing AI Roadmaps

1. Align AI initiatives to strategic drivers for the organization
2. Establish governance and oversight processes
3. Inventory and document existing AI applications
4. Address data quality and sourcing
5. Collaborate with stakeholders and industry
6. Assess privacy and cybersecurity risks of AI adoption
7. Infrastructure and technology
8. Create acquisition and development guidelines
9. Identify potential use cases
10. Expand AI workforce expertise and training
11. Create guidelines for responsible use, ethics and transparency
12. Measure and communicate effectively

Source: NASCIO Your AI Blueprint: 12 Key Considerations as States Develop Their Artificial Intelligence Roadmaps, December 2023



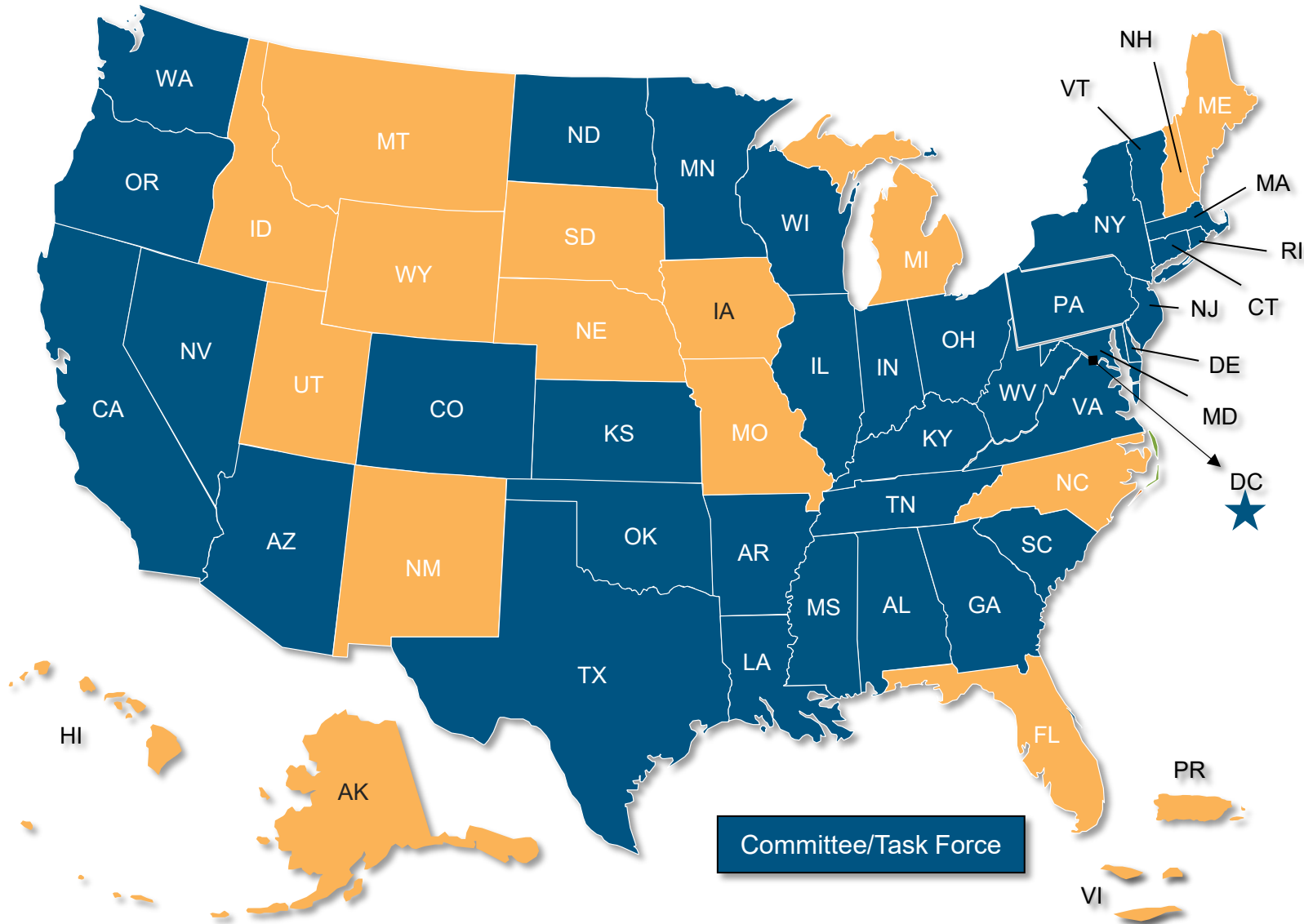
Top AI Actions Taken by States

- ▶ The creation of advisory committees and task forces (78%)
- ▶ Implementing enterprise policies and procedures on development/use (72%)
- ▶ Responsible use / flexible guardrails / security / ethics (67%)
- ▶ Inventory / documenting uses in agencies and applications (61%)



State AI Committees and Task Forces

January 2025



Top Business Process Where States are Using GenAI

In Use

- 1 Virtual meeting assistant transcription
- 2 Cybersecurity operations
- 3 Document generation and management
- 4 Software code generation

Piloting

- 1 Document generation and management
- 2 Data analytics
- 3 Virtual meeting assistant transcription
- 4 Software code generation

Respondents allowed to make multiple selections

State IT Use Cases for Generative AI

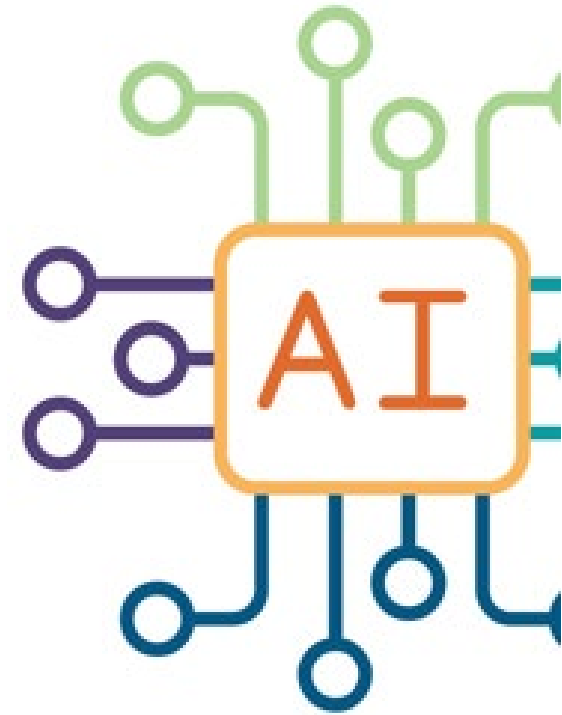
- Generating ideas, crafting emails, streamlining research
- Analyzing survey data and making recommendations
- Cataloging databases and identifying their owners
- Monitoring new legislation and creating a summary
- Coding assistance; legacy code interpretation and/or conversion
- Human resources: writing job descriptions
- Streamline procurement (repetitive forms, communication)

State IT Use Cases for Generative AI (cont.)

- AI-enabled bots to assist call center agents
- Cybersecurity threat detection, identify anomalies
- Language translation for online services
- Analyzing vehicle crash data
- Streamline health care facility inspections
- Supporting virtual agent chatbots to help citizens
- Fraud prevention and detection
- Improve traffic patterns and reduce congestion

Challenges for States: GenAI Adoption

- **Poor data quality/integrity**
- **Lack of enterprise governance**
- **Workforce skills gap / lack of training**
- Shadow GenAI use by employees
- Long-term costs
- Legal issues; public records creation
- Accessibility – design and interface
- Technical infrastructure



Generating Opportunity:

The Risks and Rewards of Generative AI in State Government

November 2024



"Our potential use cases span from human resources, correspondence, policy development, review and access, GIS modeling, data analytics, customer engagement, accelerating legacy code review for modernization efforts, coding, security, contracts and procurement process improvement efforts."

"GenAI can document large scales of what this code is meant to do, give recommendations on how to break it up or modernize it, and then recode it,"

"Generative AI sometimes will give incorrect answers, or partially correct ones. So, with AI-assisted solutions, our government services have to be very carefully crafted and tested to minimize this."

"There won't be less jobs, but there will be different jobs. We have to make sure that the workforce is ready for an AI economy (or what's to come) and we must learn how to build an adaptive workforce."

"We have to consider the public perception, while it may not always be fair or accurate, artificial intelligence requires us to go carefully and be transparent in everything we are doing. We must over share, be thoughtful and have a steady approach."

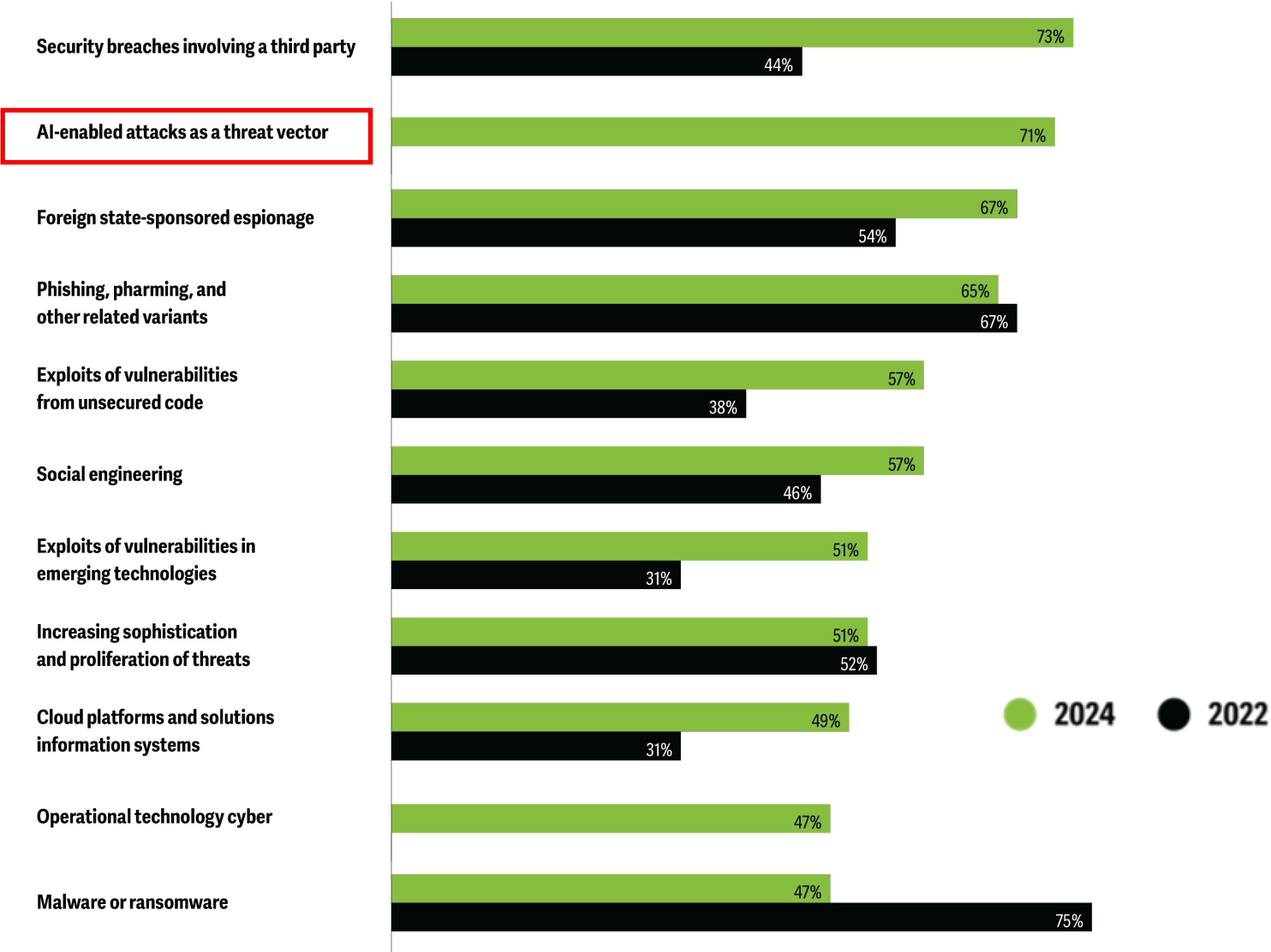
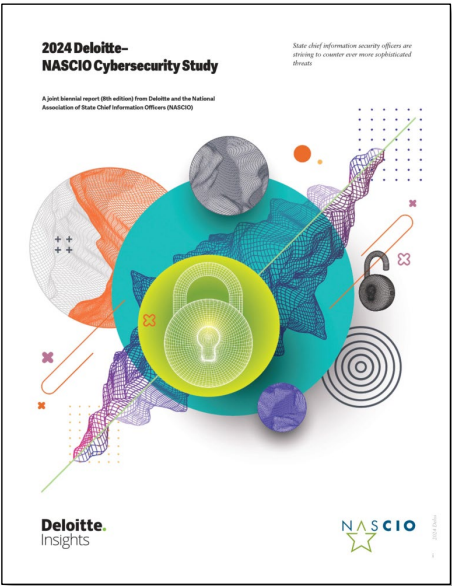
"We want GenAI to get to the point where we don't have unintended consequences."

Recommendations for States Using Generative AI

- 1. Encourage Exploration and Set Policies.** Promote a culture of exploration and learning with generative AI. Employees are likely already experimenting with these tools, so state CIO organizations should lead the way by setting clear policies and guidelines for their use.
- 2. Establish Strong Governance and Regulatory Frameworks.** Ensure that a robust regulatory and governance framework is in place before widespread AI adoption. This includes setting up guardrails to protect privacy and ensure responsible use, as well as creating a risk-based maturity scale to manage AI deployment from low to high risk.
- 3. Focus on Data Quality.** The effectiveness of AI systems is heavily dependent on the quality and accessibility of data. Prioritize data governance, including data retention policies, and work closely with state CDOs to ensure clean and reliable data.
- 4. Build Partnerships and Foster Collaboration.** Develop strong partnerships with peers across different departments and agencies.
- 5. Adopt an Incremental Approach.** Start with small, low-risk pilot projects to identify potential use cases and build on lessons learned.
- 6. Be Transparent.** Communicate openly about AI initiatives, including successes and limitations. Transparency with constituents about data practices and AI usage is crucial for building trust.



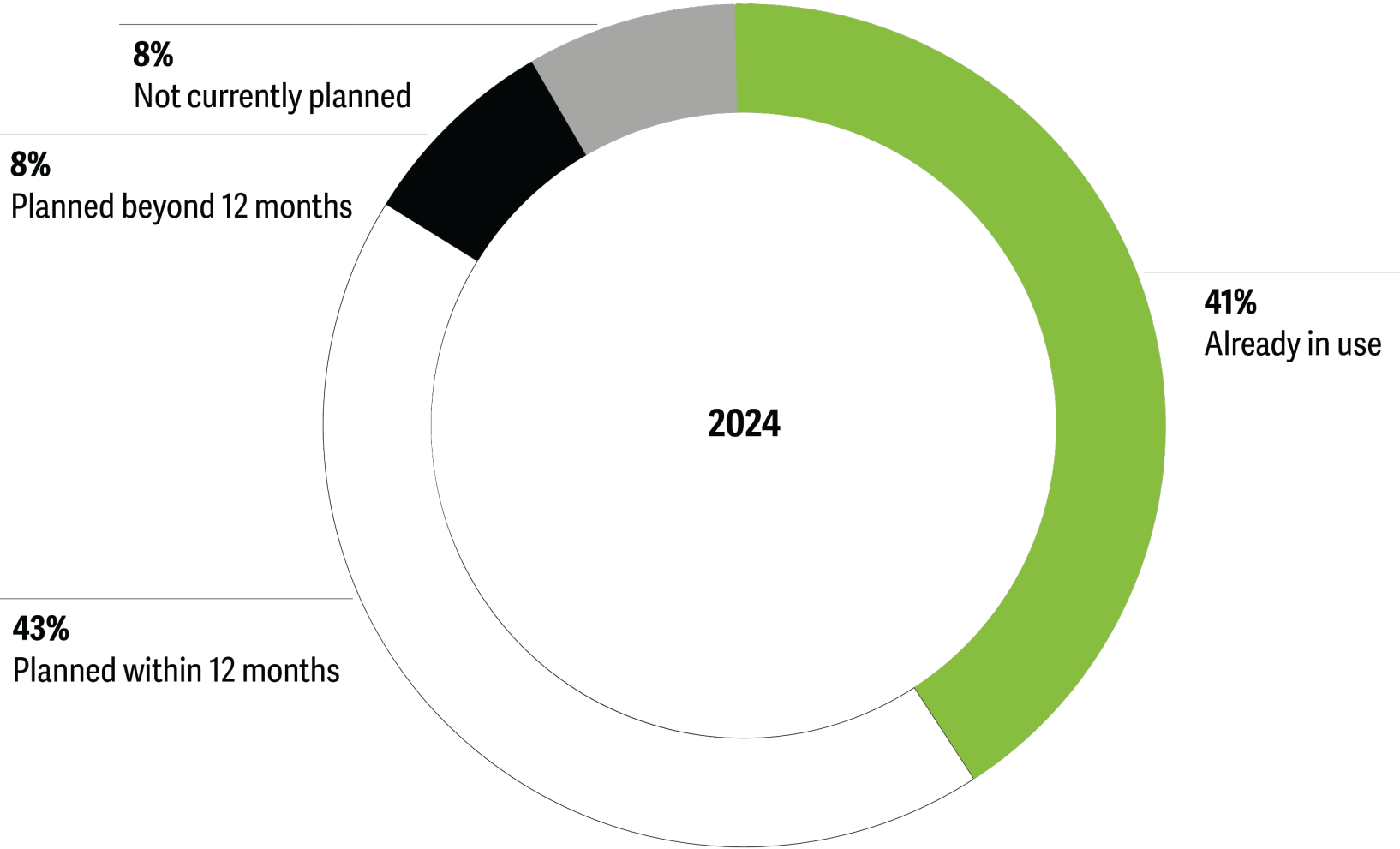
Leading causes of a cybersecurity incident in states over the last year



Note: The 2022 survey did not include the options “AI-enabled attacks as a threat vector” and “operational technology cyber.”



Current and planned use of GenAI in state cybersecurity operations



2025 FEDERAL ADVOCACY PRIORITIES



Ensure Responsible Implementation of the State and Local Cybersecurity Grant Program



Expanding and Strengthening the State Cyber Workforce



Harmonize Disparate Federal Cybersecurity Regulations



Continued Adoption of DotGov Domain is Essential



Artificial Intelligence: States Leading the Way

