TRACK 3

Embedded generative AI for fast adoption

Public sector organizations are under pressure to do more with less. In response, many have launched generative artificial intelligence (AI) pilots, but scaling those efforts can be challenging, especially when new tools require major workflow changes or technical lift.

This is where embedded generative AI solutions can speed time to value. By integrating AI directly into the tools teams already use, embedded generative AI can automate repetitive tasks, support decision-making, and produce more capabilities without requiring users to learn new systems. Gartner® predicts that "by 2026, more than 80 percent of independent software vendors will have embedded generative AI capabilities in their enterprise applications, up from less than five percent today." Similarly, "42 percent of chief audit executives (CAEs) see embedding generative AI into the internal audit department's workflow and methodology as an important priority for 2025," according to the 2025 Gartner® CIO and Technology Executive Survey. This shift reflects growing recognition that the fastest path to AI value is through the workflows organizations already use.

This track shares real examples from Amazon Web Services (AWS) Partners and experts to help public sector leaders adopt embedded AI securely and at scale.

Why choose AWS Partners?

The fastest path to embedded AI success

Embedded generative AI solutions from featured AWS Partners offer a fast track to mission impact with generative AI. Built on Amazon Bedrock, they inherit the same security, compliance, and reliability as the AWS Cloud, making them ready for public sector deployment from day one.

Explore curated embedded generative AI partner solutions in the Partner Expo.

"AWS Partners are taking trusted, production-ready tools and supercharging them with foundation models from Amazon Bedrock. That means public sector organizations can scale the benefits of generative AI across their teams securely, without starting from zero."

– Mehmet Bakkaloglu, Principal Solutions Architect for AWS ISV Partners, AWS

The value of embedded AI for public sector teams

By embedding generative AI into existing tools and workflows, organizations can:

Accelerate productivity

Embedded generative AI can act on or summarize tasks that users would otherwise do manually, saving time while keeping a human in the loop for review.

Expand capabilities

Embedded AI tools give users access to advanced features like code-free data querying, intelligent document or data retrieval, automated threat remediation, and more without needing to be an expert in data science or programming.

Upskill staff

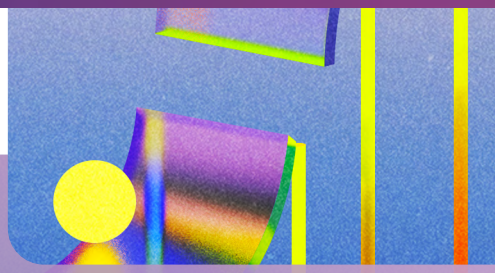
Many embedded AI tools assess environments and provide actionable recommendations, helping users understand what steps to take and why. In addition to speeding time to task resolution, this guidance supports skill development in junior staff so they can make more confident decisions and operate at a higher level.

Reduce dependency on engineering

With low-code/no-code interfaces, line of business staff can build workflows or generate insights without needing hands-on support from developers.

Scale consistent AI adoption

Generative AI adoption is often ad hoc within organizations, spreading through word of mouth. Embedded AI tools can be applied centrally to pre-existing applications, tools, workflows, and more to drive unified adoption across the organizations and increase productivity across a breadth of teams and roles.



How AWS enables embedded generative AI with Amazon Bedrock

Amazon Bedrock powers many of today's embedded AI solutions by providing secure, API-based access to foundation models. For public sector teams, this means:

- ***Built-in security and privacy**, as data is never used to train underlying models.*
- ***Faster innovation and simplified upgrades** because as new models become available, organizations can pivot to enhanced features without rebuilding any infrastructure.*
- ***Simplified compliance** from the security, auditability, and FedRAMP-authorized services of the AWS Cloud.*

One example of embedded generative AI is in security operations center (SOC) workflows. By embedding generative AI directly into those platforms, public sector organizations can streamline time-intensive tasks like threat detection, triage, and investigation

How to get started with embedded generative AI

1 Ask: Can AI do this for me?

One of the most valuable mindset shifts leaders can adopt is asking: "Can AI do this for me?" This question can help identify high-volume, low-priority work that often goes unaddressed.

Many of the most impactful generative AI use cases are behind the scenes and slide right into your current processes. Focus on the clunky, routine processes that slow your teams down, and start there.

2 Secure your data without restricting its usefulness

While protecting sensitive data is critical, limiting AI to publicly available information can diminish its value. Instead, apply guardrails like identity- and role-based controls that define who can input and access what data across every step of the generative AI workflow. This is especially important for agentic AI, which carries out multi-step tasks.

Monitor embedded AI systems with the same rigor you apply to other critical workloads. Log input prompts, AI outputs, and user access points using tools like Amazon CloudWatch or AWS CloudTrail to stay ahead of risks.

Embedded AI can accelerate decision-making, but accountability should remain with people. To support human-in-the-loop oversight, AI outputs and recommendations must be transparent, with clearly traceable citations to source material.

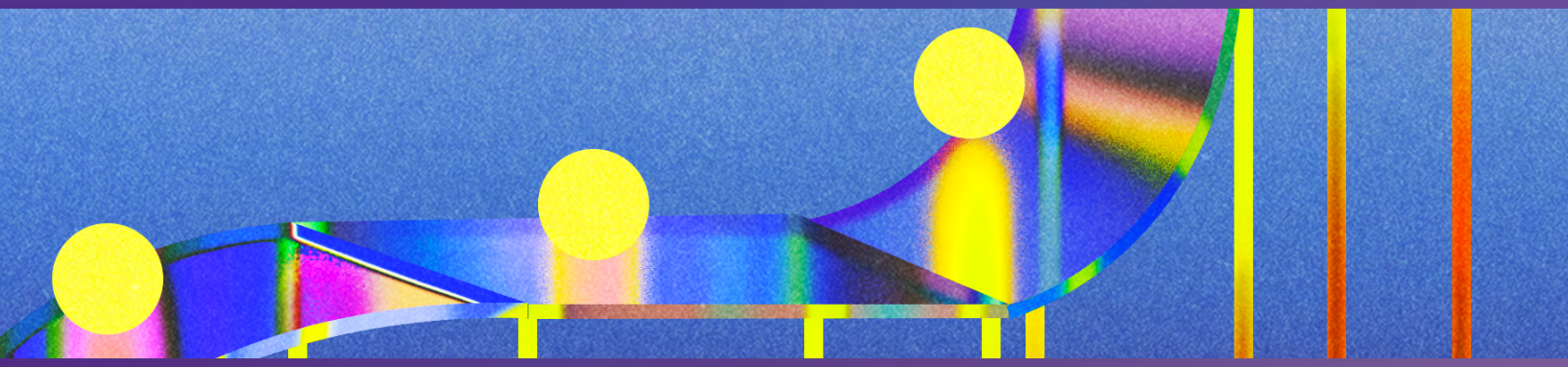
3 Start small and build from there

Use a phased approach to embedded generative AI adoption. As embedded tools demonstrate value, organizations can scale horizontally to new teams or vertically to more complex workflows. Starting small helps de-risk implementation, secure stakeholder buy-in, and build the internal confidence needed to evolve AI usage over time without slowing down innovation.

Explore featured solutions from AWS Partners

AWS Partners are already helping public sector organizations put embedded generative AI into action. These tools are improving service delivery, enhancing cybersecurity, and reducing manual workloads without disrupting existing operations.

Visit the "Partner Expo" to explore how these solutions can support your organization's goals →



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Gartner Press Release, Gartner Predicts More Than 30% of the Increase in Demand for APIs will Come From AI and Tools Using Large Language Models by 2026, March 20, 2024