



# Artificial Intelligence at USDA and PPQ

Guidance and directions for use  
and risk management

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## Outline

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AI in the US Government

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White House OMB Memos

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GSA Procurement of AI Technology

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AI Use Case Inventory

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USDA AI Strategy FY25-26

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USDA Interim Guidance on Generative AI

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Generative AI Acceptable Use Guidelines

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What's happening with AI in PPQ

# AI in the US Government



## AI in Government Act of 2020

Created General Services Administration (GSA) AI Center of Excellence

Required White House Office of Management and Budget (OMB) guidance memos

Workforce development



## Advancing American AI Act 2021

Required federal agency AI strategies



## America's AI Action Plan 2025

Emphasizes rapid federal AI adoption and securing infrastructure for AI – data centers, energy



## Multiple Executive Orders

Focused on removing barriers, promoting innovation, and adoption

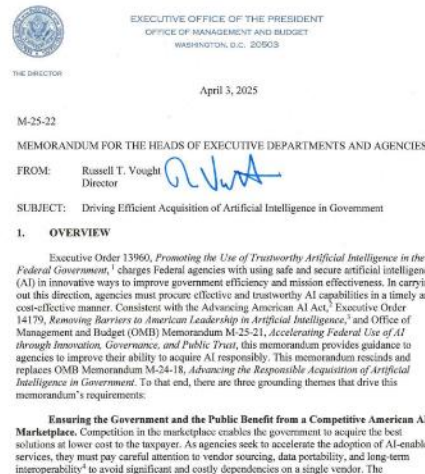
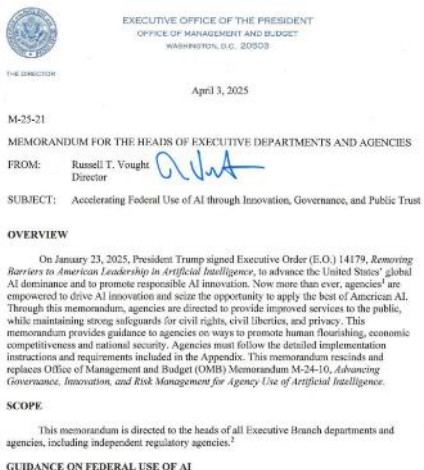


# White House OMB Memos in 2025

Memos include directives for all agencies to develop policies and strategies for agency AI use and procurement

M-25-21 - *Accelerating Federal Use of AI through Innovation, Governance, and Public Trust*

M-25-22 - *Driving Efficient Acquisition of Artificial Intelligence in Government*



# GSA procurement of AI technology

USAi API and Chatbot

Provides secure access to multiple major large language models (LLMs)

Agencies must sign MOU with GSA, 6-month free trial

Being evaluated by USDA, not currently approved for use

USAi Chat API Console Documentation Partnerships

## Accelerating trusted AI adoption across government

Three powerful AI tools. Industry-leading models. One integrated platform.

Start now

MODEL PROVIDERS

- Gemini for Government
- Meta
- Microsoft
- OpenAI
- amazon
- ANTHROPIC

# AI Use Case Inventory



## Annual Reporting

All agencies must report AI use to the White House OMB and the public

Productivity use cases are reported collectively

- Such as summarizations, time tracking, scheduling, email management, code generation, creating visualizations, etc.



## Types of Use Cases

Includes in-house or third-party use cases at any development stage

Excludes security or intelligence use cases

Excludes basic or applied research unless intended for agency operations



## High Impact Use Cases

Identifies use cases impacting civil rights or safety

Additional requirements for impact assessment and risk management



# USDA AI Strategy FY25-26

*Updated USDA AI Strategy expected Oct 2025*

## Current Goals:

- **AI Governance and Leadership:** Establish robust governance that fosters innovation, collaboration, and responsible use of AI.
- **Workforce Readiness:** Develop and recruit workforce with AI skills that anticipate and meet program needs.
- **Infrastructure and Tools:** Develop secure, scalable infrastructure for trustworthy, high-impact, innovative AI use.
- **Data Readiness and Access:** Provide guidance on data stewardship, support effective data use, and build confidence in AI outputs.
- **Ethical, Equitable, and Responsible AI Use:** Adopt policies to protect rights and safety and mitigate risks.



# USDA Policy on Generative AI vs. Traditional AI

- Risks of Generative AI
  - Generation of inaccurate or outdated information
  - Hallucinations
  - Lack of data privacy
  - Potential misuse
- Restrictions on Generative AI
  - Prohibited within USDA unless reviewed and approved
- Traditional AI Usage
  - No restrictions except when rights- or safety-impacting

	Traditional	Generative
Approach	Deterministic, rule-based, structured tasks	Probabilistic and deep learning to generate new outputs
Applications	Automation, robotics, diagnostics, fraud detection	Chatbots, code development, drafting documents, website development, media creation
Learning mechanism	Direct programming of algorithms	Reinforcement learning and deep neural networks for autonomous learning from data
Advantages	Predictable, reliable, consistent outputs, explainable	Enhances creativity, addresses messy problems
Limitations	Limited to uses with clear rules, not flexible for handling undefined scenarios	Ethical concerns around creating realistic fake and/or false content, not explainable, outputs vary





# USDA Interim Guidance on Generative AI

*Updated Departmental  
Regulation on Generative  
AI expected Dec 2025*

## Generally Prohibits Generative AI Use

- Generative AI use requires prior written approval for use on USDA network
- Publicly available, third-party tools will be blocked

## Generative AI Review Board (GAIRB)

- Established to review and grant exceptions for Generative AI use cases
- Approval based on needs of USDA

## Extra Scrutiny for Specific Use Cases

- Involving PII, safety, rights, privileged access, or data transfer to systems without USDA authority to operate

## Restricts Use for Providing USDA Services and Programs

- Not allowed for language translation or interpretation for providing services to USDA applicants and participants
- Considered high risk of providing erroneous information

## Prohibits Submitting Protected Information

- Submission of PII or non-public information to a public Generative AI tool constitutes prohibited release of protected information

## Unacceptable Uses

- Shall not be used to generate malicious, inappropriate, or illegal material



# USDA Generative AI Acceptable Use Guidelines: General Principles



## Accountability

Users are responsible for quality, accuracy, and reliability of work products and must be manually reviewed for errors and biases



## Transparency

Users must disclose use of Generative AI and label outputs



## Explainability

Users must ensure Generative AI outcomes are explainable by subject matter experts and others



## Public Trust

Users are responsible for avoiding inappropriate, offensive, or illegal material and ensuring outputs align with USDA values and standards



## Human Oversight

Users must maintain human validation and intervention protocols to ensure decisions influenced by Generative AI are evaluated

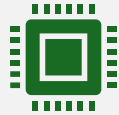


# USDA Generative AI Acceptable Use Guidelines: Data Protection and Privacy



## Prohibited Data for Public Tools

Users may not input non-public, restricted information into public Generative AI tools



## Permitted Data for Internal Tools

When using USDA Generative AI tools, user may only input data up to the allowable sensitivity level of the specific tool



## Data and Records Retention

Outputs of Generative AI may be considered federal records and must be treated as such



# USDA Generative AI Acceptable Use Guidelines: Unacceptable Uses



## Inherently Governmental Functions

Such as final hiring decisions, grant scoring and reviewing, or enforcement actions



## Misinformation

Creation of false, misleading content, or alteration of original artifacts



## Bias and Discrimination

Production of ideologically and/or partisan biased information, or information that are incomplete or contradictory



## Recreating Specific Individuals

Generation of images of specific people without their explicit permission, or images of minors



## Copyrighted Materials

Obtaining access to or unlawfully using copyrighted materials



# USDA Generative AI Acceptable Use Guidelines: Compliance and Monitoring



## Adherence to Policies

Users must follow cybersecurity, privacy, data, and IT governance policies throughout the AI lifecycle.



## System Specific Policies

Users must adhere to all AI service and system policies.



## No Expectation of Privacy

Departmental systems are continually monitored.



## Cybersecurity Incidents

Users must report suspected data spillage, compromise, or inappropriate use of Generative AI tools.

# What's happening with AI in PPQ



**Staff assisting with USDA testing of M365 Copilot and Copilot for GitHub**

Decision on licensing options expected Oct 2025



**M365 Copilot very popular for increasing productivity**



**Rapid adoption of vibe coding, positive impact on productivity**

Free, limited version of GitHub Copilot available to staff in VS Code IDE



**No USDA approved options for using LLMs yet (except for Copilot testing)**



**Access to major AI websites is blocked, including documentation and knowledge resources**

# What's happening with AI in PPQ



Relying heavily on external collaborators – researchers and commercial vendors – to evaluate appropriate Generative AI use cases within their secure networks



External collaborators also playing critical role in helping staff learn skills and adopt new technologies



Highest value use case currently is data creation from document libraries, expect this to accelerate approved solution for LLM

Thank you

