Considerations for GenAI Adoption

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Artificial Intelligence (AI) Strategy

AI at CDC

Highlights

CDC aims to empower all staff to harness AI effectively, streamline operations, and forge dynamic partnerships across industry, academia, other federal agencies, and state, tribal, local, and territorial (STLT) public health agencies.

Launched 4 enterprise AI tools

ChatGPT, Microsoft Co-Pilot, CDC Chatbot, Gemini

AI use case inventory grew 2x

From 50 in FY24 to 103. HHS AI Inventories may be accessed here

Completed first federal ROI study for Generative AI chatbot

Partnered with OpenAI to evaluate Deep Research

Advancing AI Across CDC: Strategic Pillars

Support
Public Health with Accelerated AI Adoption

1

Strengthen
AI Governance and Public Trust

2

Advance
AI Capabilities Across CDC's Enterprise Data Platforms

3

Empower
an AI-Ready Workforce to Unlock Innovation

4

AI Strategy

Pillar 2: Strengthen AI Governance and Public Trust

Vision	Uphold rigorous standards of transparency and accountability when it comes to the use of AI[3] through clear technology and data governance, risk-based oversight, and effective communication.
Objectives	• Publish resources to support accelerated and sustained AI adoption across STLT public health agencies. • Establish risk-proportionate controls for external third-party AI systems used within CDC. • Develop operations, governance, and infrastructure to validate and manage risks from AI use. • Review and update policies regularly to align with federal security and privacy requirements.

[3]Tabassi E. Executive Summary. In: *Artificial Intelligence Risk Management Framework (AI RMF 1.0)* (NIST AI 100-1). Gaithersburg, MD: National Institute of Standards and Technology; 2023. Available from: https://doi.org/10.6028/NIST.AI.100-1

Considerations for Generative AI in Public Health

AI Resources for STLT Partners

CDC offers practical resources to STLT public health partners to safely and effectively leverage generative AI and agentic research (also known as deep research). Resources were informed by CDC's experiences and feedback from CSTE Data Modernization Initiative Work Group and other external partners.

Considerations for Generative AI in Public Health

- ✓ Foundational steps for STLT GenAI adoption
- ✓ Real-world use cases from STLT agencies
- ✓ Effective use principles aligned with NIST AI Risk Management Framework

Considerations for Agentic Research in Public Health

- ✓ Overview of agentic AI tools for multi-step research tasks
- ✓ Best practices for effective prompting
- ✓ Use case examples from CDC

AI RESOURCE #1

Considerations for Generative AI in Public Health

- What is Generative AI?
- When Generative AI Works Best
- CDC Effective Use Principles
- Foundational Steps for STLT GenAI Adoption
- STLT Best Practices in Motion: Real-World GenAI Use Across STLT Public Health Agencies
- CDC’s Approach: Enablers of Successful GenAI Adoption

CDC Effective Use Principles

- Mission Alignment
- Human Oversight
- Safety and Reliability
- Scientific Integrity
- Disclosure and Transparency
- Security and Privacy

AI RESOURCE #1: Considerations for GenAI in Public Health

Foundational Steps for STLT GenAI Adoption

Engage Leadership & Key Stakeholders

Secure leadership support & involve stakeholders from IT, legal, privacy, communications, & program areas. Early alignment helps ensure policies, resources, & expectations are clearly defined.

1

Establish Access to Secure, Compliant Tools

Identify GenAI tools that meet your agency's data protection & security requirements. Consider starting with FedRAMP-authorized platforms or tools provided through HHS or state-level procurement.

2

Establish or Expand Agency-Wide GenAI Policy & Use Guidelines

Create concise, practical guidance for leadership & staff. Define appropriate use cases, prohibited uses, & expectations for human oversight & review.

3

Build Staff Capacity Through Training & Peer Learning

Offer training on GenAI fundamentals, risk management for potential misuses, & related AI capabilities such as deep research tools. Encourage peer-to-peer learning through user groups or office hours.

4

Monitor Use & Share Outcomes

Track how GenAI is being used & assess its impact. Share successful use cases internally & with partners to support continuous learning & build trust.

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