

A CDO Perspective: Safe, Secure, and Trustworthy AI

On October 30, 2023, President Joe Biden signed [an Executive Order \(EO\)](#) on the Safe, Secure, and Trustworthy Development and Use of Artificial Intelligence. This EO and the accompanying [draft Office of Management and Budget \(OMB\) guidance](#) build upon previous actions taken by the administration, including work that led to voluntary commitments from leading companies to drive safe, secure, and trustworthy development of AI and directs federal agencies to take certain actions to incorporate and govern AI in their missions. For key tenants on the EO, refer to the [EO Fact Sheet](#).

Government Chief Data Officers (CDO) and data leaders play a critical role preparing their organizations for the safe, secure, and trustworthy application for AI. **Government CDOs may face challenges and opportunities to improve their organization's data and operations for enhanced, equitable, and innovative applications of AI.**

The **following key themes for CDOs** exist in an evolving landscape of federal guidance on AI adoption and do not capture the extent of the data-specific requirements within the EO and accompanying OMB Guidance. Deloitte is closely tracking these changes and encourages government CDOs to connect with us on services to support safe, secure, and trustworthy AI.

DESIGNATING A CHIEF ARTIFICIAL INTELLIGENCE OFFICER (CAIO)

POLICY REVIEW

"...designate at each agency...a Chief Artificial Intelligence Officer who shall hold primary responsibility in their agency... for **coordinating** their agency's use of AI, promoting AI innovation in their agency, managing risks from their agency's use of AI..." (10.1.b.i)

WHAT TO DO NEXT

Agencies are required to designate a CAIO that will coordinate agency use of AI, promote its innovation, and manage risks, among other responsibilities (Executive Order, 10.1.b.i).

The formal introduction of the CAIO prompts an immediate step to ensure the careful coordination between the responsibilities designated for CDOs and CDAOs and those required for CAIOs and to make the proper designations for the relevant department. This will differ based on the agency's current designations and considerations.

Collaborate: Evaluate existing responsibilities and coordinate the role of CDOs, CDAOs, and CAIOs to use, promote, and manage risks for the agency's use of AI

CONNECTING NEW AI STRATEGIES TO DATA STRATEGY

POLICY REVIEW

"...requirements that agencies identified in 31 U.S.C. 901(b) develop AI strategies and pursue high-impact AI use cases." (10.1.b.viii)

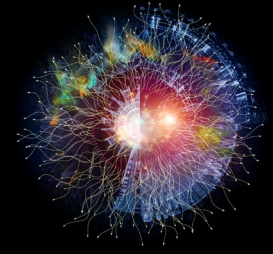
WHAT TO DO NEXT

To develop AI strategies and pursue high-impact AI use cases (Executive Order 10.b.vii), CDOs should review existing data strategies with a focus on data infrastructure for AI and workforce readiness. Strategies should connect on the agency's top opportunities for AI, plans to increase AI capacities and AI maturity, improvements for practitioner AI and data literacy, and effective governance of AI usage.

To advance responsible AI innovation, the EO and accompanying OMB guidance focus on several data actions CDOs can take to remove barriers, including **developing adequate infrastructure and curated agency data sets, maximizing access to internal data, and encouraging public access datasets.**

Assessment: Assess current data strategies and implementation efforts to identify AI strategies and AI use cases, with attention to organizational AI maturity, data literacy, and governance.

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HIRING AI TALENT AND PROVIDING AI TRAINING

POLICY REVIEW

“To expand the use of special authorities for **AI hiring and retention**, agencies shall use all appropriate hiring authorities... to hire AI talent and AI-enabling talent rapidly.” (10.1.e). “To help **train the Federal workforce on AI issues**, the head of each agency shall implement — or increase the availability and use of — **AI training and familiarization programs** for employees, managers, and leadership...” (10.1.g)

WHAT TO DO NEXT

CDOs can take advantage of this focus on hiring AI talent and AI-enabling talent to energize existing efforts towards building data fluency and upskilling their workforce for the use of AI. Data fluency is a foundational element to prepare an organization's workforce and data for the effective use of AI solutions.

Competency: CDOs can focus on incorporating AI fluency into existing data literacy training programs to upskill their workforce and prepare to engage new AI talent.

ASSESSING FOR RIGHTS-IMPACTING AND SAFETY-IMPACTING AI

POLICY REVIEW

“...**required minimum risk-management practices** for Government **uses of AI that impact people's rights or safety**, including, where appropriate, the following practices derived from OSTP's Blueprint for an AI Bill of Rights and the NIST AI Risk Management Framework: conducting public consultation; **assessing data quality**; assessing and mitigating disparate impacts and algorithmic discrimination; providing notice of the use of AI; continuously monitoring and evaluating deployed AI; and granting human consideration and remedies for adverse decisions made using AI.” (10.1.b.iv)

WHAT TO DO NEXT

Organizations will be required to document data assessments and other data-related activities in an **AI Impact Assessment**. As part of the minimum practices prescribed for safety-impacting or rights-impacting AI, guidance continues to focus on the use of AI **adequately representing communities** and including activities such as monitoring for **improper bias and AI-enabled discrimination**.

Assessment: CDOs will play a critical role in the AI impact assessment, ensuring the organization is prepared with the appropriate data infrastructure and data quality needed for trustworthy AI.



[View our solutions & accelerators on page 3](#)

WHAT IS ON THE HORIZON



The Executive Order directs the Office of Management and Budget (OMB) to issue detailed guidance to agencies including requirements to strengthen the effective and appropriate use of AI, advance AI innovation, and manage risks from AI in the Federal Government (10.1.b). The final guidance is meant to be issued within 150 days, and in preparation for the changes ahead, CDOs should review their data strategy approach to consider the application and applicability of AI technologies.

While some of the directives may require new funding to be appropriated by Congress, the EO is expected to create new opportunities for CDOs to prioritize AI in their service delivery and programs. For agencies that are already utilizing AI as an accelerator, CDOs can consider potential barriers and risks tied to the safe, secure, equitable and trustworthy utilization of AI within their programs.



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CONNECT & INNOVATE TOGETHER



ADDITIONAL SOLUTIONS AND ACCELERATORS



Chief Data Officer Services

Support Chief Data Officers and other data leaders to enable and improve data-driven organizations through services like data governance, literacy, and strategy.

Identify: Data requirements, data sources, insights, and value

Discover & Prep: Assess Risks, and develop the Data and Insights Strategy

Design & Build: Manage the data value chain; procure, ingest, and store

Launch & Integrate: Develop delivery models, governance, and operations

Monitor & Mature: Support, enhance, and scale data and insights services

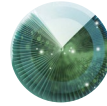
Suite of CDO, Data, and AI Labs

A one-day experience designed to—establish a common understanding of the aspirations and challenges of the CDO's team and key stakeholders and develop a 180-day plan to drive the CDO's priorities.



CDO Playbook

See the most recent thought leadership of CDOs in the government based on trends and understanding for AI priorities, AI Strategies and implementation of operating models



Government AI Use Case Dossier

See what's working for other agencies and consider the ways AI can advance your mission with the Government and Public Services Sector AI Use Case Dossier.



CAIO Transition Lab

Refine the CAIO role requirements, establish effective governance approaches, and create a transition plan to empower a new CAIO through a specialist guided experience.



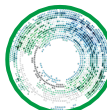
Trustworthy AI™

Understand seven key areas of risk for AI and keep your use of AI safe and ethical with Deloitte's Trustworthy AI™ framework in line with NIST.



AI and Data Strategy Services

Align on an organizational vision for AI, prioritize AI use cases, and make strategic choices about where to invest in AI, accelerated by Playbooks and immersive Labs guided by experienced facilitators.



AI Readiness & Management Toolkit

Apply our framework and tools to assess current state, define future state, and chart a path forward to build AI maturity across workforce, data, and technology.



GovConnect AI Ready Data Foundation

Suite of services designed to assist government agencies in building and managing modern, cloud integrated data ecosystems, enabling the delivery of AI at scale.

Contacts

Deloitte supports many Federal clients in the data and AI space. With best-in-class AI advice and capabilities, We can help at each stage of the race, providing Chief Data Officers with the [CDO Services](#) they need to navigate changing regulation and the safe, secure, and trustworthy application of AI. Reach out for a consultation or to ask about our approach to the new executive branch AI guidance.



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