Federal Statistics at the Forefront of Artificial Intelligence

Dr. Karin Orvis

Chief Statistician of the United States
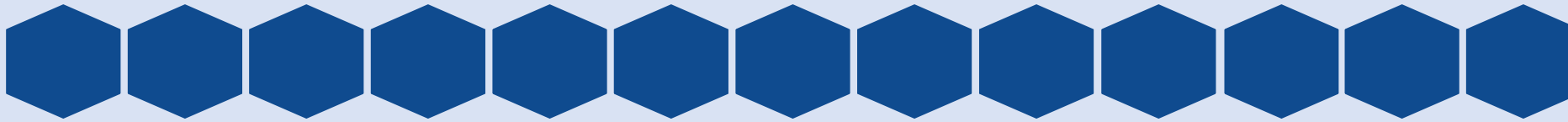
AI Day for Federal Statistics

Committee on National Statistics, NASEM

May 2, 2024

Office of the Chief Statistician
of the United States

Outline

- Overview of the Federal Statistical System

- AI M-24-10 "Advancing Governance, Innovation, and Risk Management for Agency Use of Artificial Intelligence"

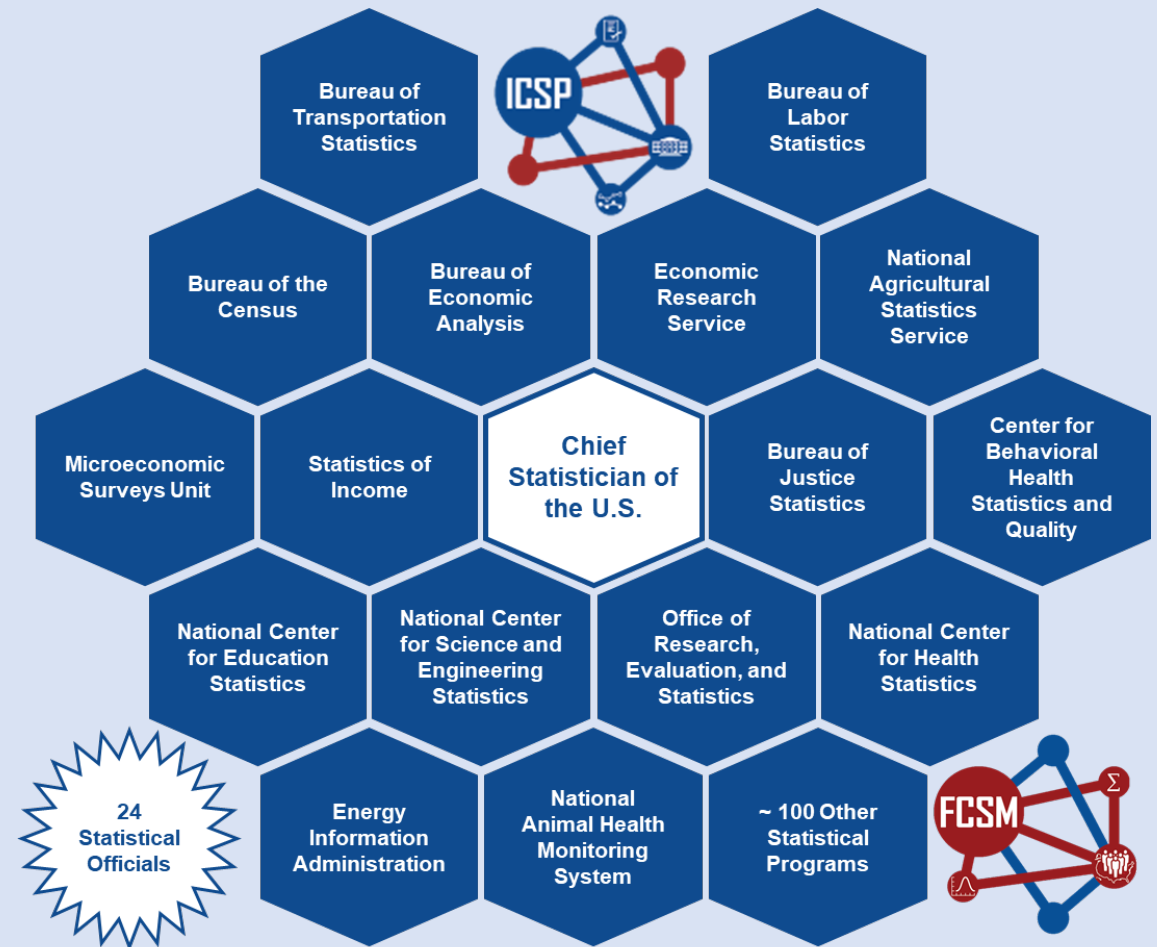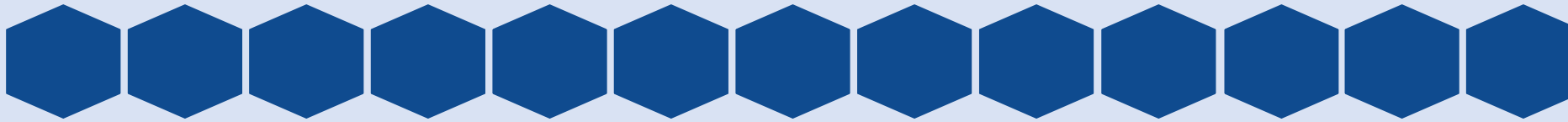- AI governance and federal statistical activities

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U.S. Federal Statistical System

Decentralized, Interconnected System

- Chief Statistician of the United States (CSOTUS)

- 16 Recognized Statistical Agencies and Units (RSAUs)

- ~ 100 Other Statistical Programs

- 24 Statistical Officials (S.O.s)

- Interagency Council on Statistical Policy (ICSP)

- Federal Committee on Statistical Methodology (FCSM)

ICSP

Bureau of Transportation Statistics

Bureau of Labor Statistics

Bureau of the Census

Bureau of Economic Analysis

Economic Research Service

National Agricultural Statistics Service

Microeconomic Surveys Unit

Statistics of Income

Chief Statistician of the U.S.

Bureau of Justice Statistics

Center for Behavioral Health Statistics and Quality

National Center for Education Statistics

National Center for Science and Engineering Statistics

Office of Research, Evaluation, and Statistics

National Center for Health Statistics

24 Statistical Officials

Energy Information Administration

National Animal Health Monitoring System

~ 100 Other Statistical Programs

FCSM

U.S. Federal Statistical System

The Federal Statistical System is a Diverse Ecosystem

- Large and Small

- Longstanding and New

- All critical

EXECUTIVE OFFICE OF THE PRESIDENT
OFFICE OF MANAGEMENT AND BUDGET
WASHINGTON, D.C. 20503

THE DIRECTOR

March 28, 2024

M-24-10

MEMORANDUM FOR THE HEADS OF EXECUTIVE DEPARTMENTS AND AGENCIES

FROM: Shalanda D. Young

SUBJECT: Advancing Governance, Innovation, and Risk Management for Agency Use of
             Artificial Intelligence

https://www.whitehouse.gov/wp-content/uploads/2024/03/M-24-10-Advancing-Governance-Innovation-and-Risk-Management-for-Agency-Use-of-Artificial-Intelligence.pdf

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Three Pillars of M-24-10

STRENGTHENING AI GOVERNANCE

ADVANCING RESPONSIBLE AI INNOVATION

MANAGING RISKS FROM THE USE OF AI

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Scope of Applicability to Federal Statistical System

*"In addition, **this memorandum does not supersede** other, more general Federal policies that apply to AI but are not focused specifically on AI, such as **policies that relate** to enterprise risk management, information resources management, privacy, accessibility, **Federal statistical activities**, IT, or cybersecurity."*

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Scope of Applicability to Federal Statistical System

- OCSOTUS interprets this to broadly apply to: All statistical analysis, statistical data collection, statistical information release, etc.

- M-24-10M-24-10 does not change legal protections for statistical information
  - See 44 U.S.C. § 3502 (CIPSEA 2018)
  - Existing processes for disclosure review, risk assessment, statistical analysis, quality assessment, and access control apply to AI use by the Federal Statistical System
  - Maintaining trust over protected and confidential data assets remains a key priority for my office

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Statistical Activities and Artificial Intelligence

Collectively, statistical laws, policies, and regulations govern how the Federal Statistical System uses, innovates, and governs AI for statistical activities
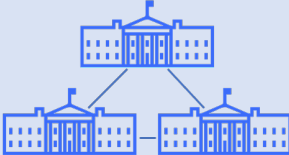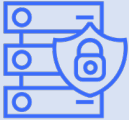
Interagency Council on Statistical Policy
Leaders of the United States Federal Statistical System

ICSP

Standard Application Process

CIPSEA Regulations

Trust

Presumption of Access

Expanding Secure Access

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Other Statistical Responsibilities and Expectations under M-24-10

- Ensure that senior officials with statistical expertise are present on agency AI Governance Boards
  - OCSOTUS recommends Agency Statistical Officials or other expertise from the statistical system serve in this capacity

- AI-enabling roles for workforce development

- Feature statistical activities in Department's AI Use Case Inventory
  - The Federal Statistical System serves as a model for the use of AI for statistical activities
  - Examples of the forefront later today!
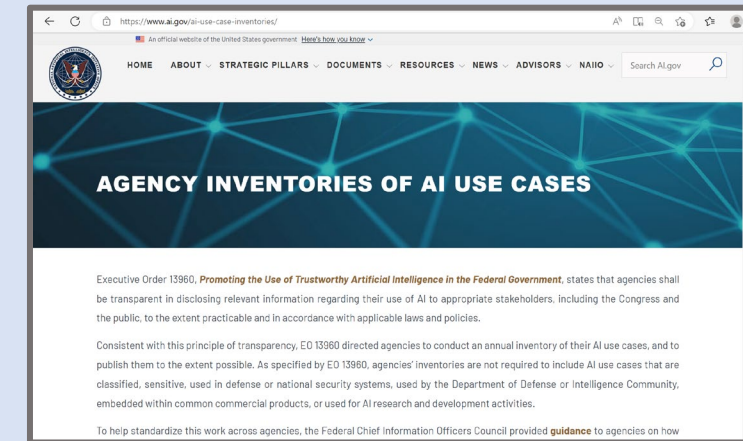
Access public inventories:
ai.gov/ai-use-case-inventories

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AI Day Agenda:

Strong Federal Statistical System Examples

AI Day for Federal Statistics: CNSTAT Public Event
May 2, 2024
National Academy of Sciences Building
2101 Constitution Avenue NW, Washington, DC

PROGRAM

Location: Fred Kavli Auditorium

| Time	Session
10:00am–10:10am	**Introductory Remarks** Katharine Abraham, University of Maryland, College Park & CNSTAT Chair
10:10am–10:30am	**Federal Statistics at the Forefront of Artificial Intelligence** Karin Orvis, Chief Statistician of the United States, Office of Management and Budget
10:30am-12:00pm	**Panel on Cross-Cutting Issues Related to AI Adoption in the Federal Statistics System** (*speakers will have up to 20 minutes for their remarks*)
	Statistics at the AI Leadership Table Chris Marcum, Office of Management and Budget
	Moving AI Tools into Government Nadia Fawaz, White House Presidential Innovation Fellows
	Confidentiality Protection in AI Xiao-Li Ming, Harvard University
	Return on Investment (ROI) on AI Kent Cunningham, Microsoft Federal
12:00pm–1:30pm	**Lunch break**
1:30pm–2:30pm	**The Future of AI in Federal Statistics** Nancy Potok, NAPx Consulting LLC
2:30pm–2:45pm	**Break (move to breakout rooms)**

Time	Session
2:45pm–4:00pm	**Topical Breakout Sessions** (*all sessions concurrent, speakers will have up to 20 minutes for their remarks followed by audience Q&A and discussion*)

1) **Use of AI in the Survey Process**
   - Michael Link, Ipsos
   - Gizem Korkmaz, Westat
   - *Moderator: Minsun Riddles, Westat*

2) **Record Linkage and AI**
   - Carla Medalia, Census Bureau
   - Cordell Golden, National Center for Health Statistics
   - *Moderator: Keenan Dworak-Fisher, Bureau of Labor Statistics*

3) **Building the Future: Leveraging the National AI Research Resource and National Secure Data Service for AI Capabilities**
   - Katerina Antypas, National Science Foundation Office of Advanced Cyberinfrastructure
   - Lisa Mirel, National Center for Science and Engineering Statistics
   - *Moderator: Travis Hoppe, Office of Science and Technology Policy*

4) **Statistical Core of AI**
   - Hongtu Zhu, University of North Carolina at Chapel Hill
   - Tian Zheng, Columbia University
   - *Moderator: Judy Wang, George Washington University*

5) **Current Scope of AI Implementations**
   - Ken Haase, Census Bureau
   - David Oh, Bureau of Labor Statistics
   - *Moderator: Bob Siviniski, Office of Management and Budget*

6) **Quantifying Uncertainty Due to AI**
   - Lucas Janson, Harvard University
   - David Matteson, National Institute of Statistical Sciences and Cornell University
   - *Moderator: Nicholas Rio, George Mason University*

7) **Ethics in AI**
   - Rochelle Tractenberg, Georgetown University
   - Michael B. Hawes, Census Bureau
   - *Moderator: Mark Prell, Economic Research Service*

8) **AI and Blended Data**
   - H. V. Jagadish, University of Michigan
   - Elizabeth Stuart, Johns Hopkins University
   - *Moderator: Brian Habing, National Institute of Statistical Sciences and University of South Carolina*

Location: West Court and Great Hall

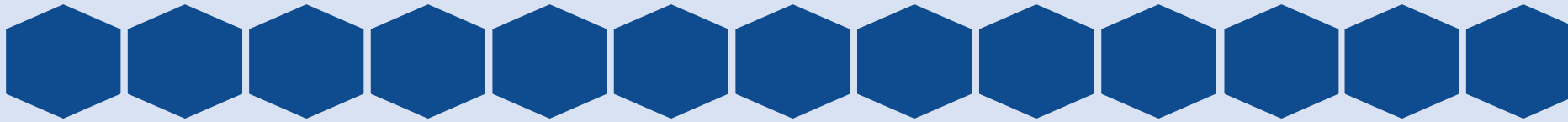| Time	Session
4:00pm–5:00pm	**Poster Session and Reception**
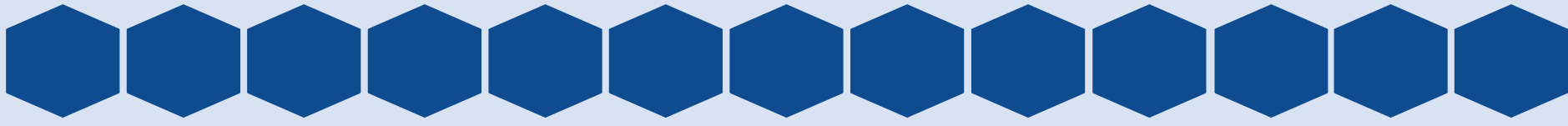
The U.S. Federal Statistical System and AI

- Broad expertise

- Principled and responsible

- Innovative use cases

- International efforts as well

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Thank You
and Happy AI Day!

Connect with us!
Statistical_Directives@omb.eop.gov

FSS Website:
https://www.statspolicy.gov/