



National
Secure
Data
Service



FROM INSIGHT TO INNOVATION: PROJECTS SHAPING A FUTURE NATIONAL SECURE DATA SERVICE

This infographic highlights the development of a prototype service for the National Secure Data Service (NSDS).

America's DataHub Consortium (ADC) is a private-public partnership advancing innovative solutions for better data service. This project was supported by ADC on behalf of the National Center for Science and Engineering Statistics in the U.S. National Science Foundation.

AI CHATBOT*

Project Objectives



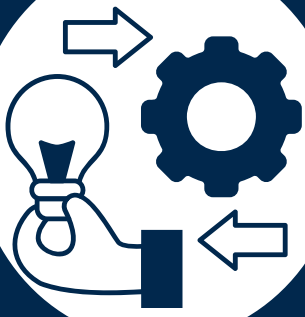
- Pilot AI tools to increase the findability and usability of a “chatbot” that returns estimates from public federal statistical data via natural language queries.
- Showcase key data products to demonstrate accessible, AI-driven use of federal statistics.
- Measure the accuracy and reliability of possible AI-assisted data tools for federal statistical data.
- Identify usability and technical needs for deploying the AI tools on federal websites across federal data platforms.

Lessons Learned



- AI-ready data formats and standards improve AI-tool efficiency usability and discovery.
- Technical advances were needed to store the large amount of statistical data used in the project.
- Combining large language models and large data storage and retrieval results in a tool with 100% accuracy on statistical data return with the advantages of a large language model.
- Blending statistical and conversational approaches enhances engagement and accuracy.
- Context retention and user feedback improve chatbot responsiveness and overall experience.

Turning Insight into Action: Informing NSDS



- Develops an AI chatbot to support users in quickly discovering federal statistical estimates.
- Enhances discoverability of federal statistical data and informs efforts to make agency data AI-ready.
- Identifies risks and mitigation strategies for data fidelity and federal compliance.



EVERY LESSON IS A BLUEPRINT FOR BETTER SERVICE.



Visit <https://www.americasdatahub.org/> or scan the QR Code to learn more about this NSDS project and support our efforts for the future of evidence building.

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*Data Access Alternatives: Artificial Intelligence Supported Interfaces (DAA-24)