

National Center for Health Statistics: National Vital Statistics System Modernization— New Opportunities for Interoperable Data

ADC Request for Solutions NVSS-23

June 22, 2023

Dr. Heather Madray

NCSES, Program Director for Data Access, Confidentiality, and Quality Assessment (DACQA)

Paul Sutton

CDC, National Center for Health Statistics, Deputy Director, Division of Vital Statistics

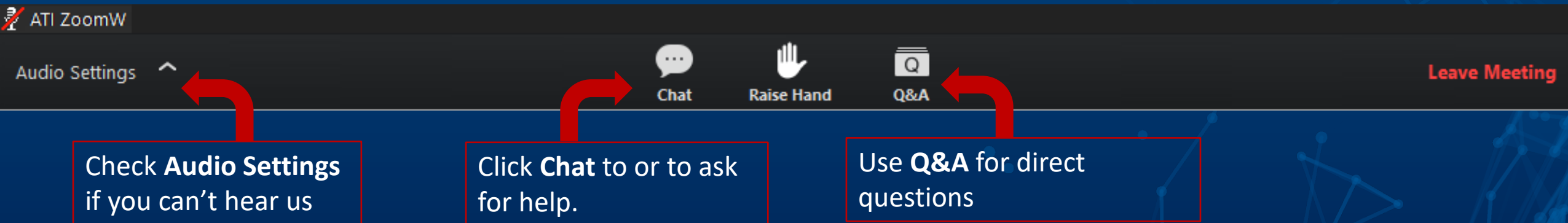


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Housekeeping Items:

- All Attendees are on mute and will not be able to unmute themselves
- Please use the “chat” function for technical difficulties only
- Place all Questions in the Q&A Box
- Please check your Audio Settings if you are having difficulties hearing us



The image shows a Zoom meeting interface with a dark blue background. At the top, there is a status bar with a microphone icon and the text "ATI ZoomW". Below this, there is a toolbar with several icons: "Audio Settings" (with a small upward arrow), "Chat" (speech bubble icon), "Raise Hand" (hand icon), "Q&A" (document with 'Q' icon), and "Leave Meeting" (in red text). Three red arrows point from text boxes below to these icons: one from "Check Audio Settings if you can't hear us" to "Audio Settings", one from "Click Chat to or to ask for help." to "Chat", and one from "Use Q&A for direct questions" to "Q&A".

ATI ZoomW

Audio Settings ^

Chat

Raise Hand

Q&A

Leave Meeting

Check **Audio Settings** if you can't hear us

Click **Chat** to or to ask for help.

Use **Q&A** for direct questions



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Background

Dr. Heather Madray

NCSES, Program Director for Data Access, Confidentiality, and Quality Assessment (DACQA)



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The idea of a transformational NSDS to coordinate data linking, secure access, and support innovation everywhere has a distinguished lineage



The pathway to the NATIONAL SECURE DATA SERVICE

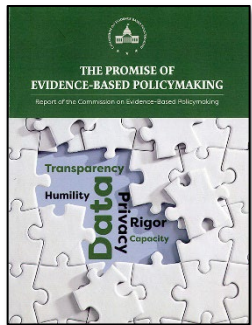
2016

2018

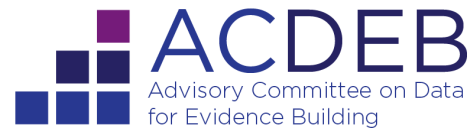
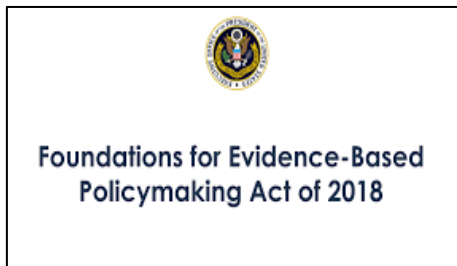
2020

2021

2022

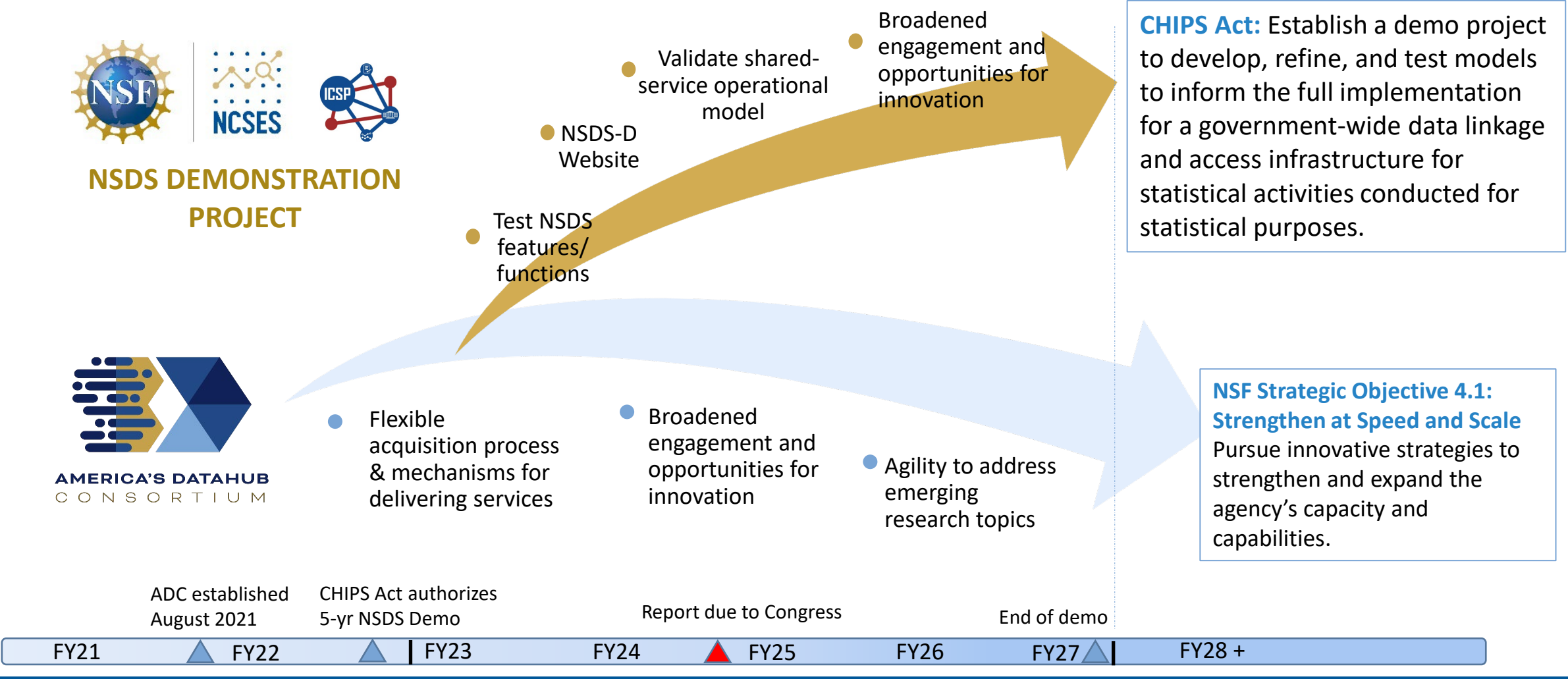


Commission on
Evidence-Based
Policymaking



National Secure Data
Service Demonstration
Project

America's DataHub provides experiences to inform the development of the NSDS Demonstration (NSDS-D) Project



Scope of the NSDS-D



To pilot potential shared services, technologies, and techniques that might be utilized within a potential NSDS.



Focus is on novel research collaborations, data linkage methodologies, and privacy preserving technologies and techniques.



Exploring innovation is key to the NSDS-D.



The NSDS-D is **NOT** a data warehouse.

Data will not be collected and housed under the demonstration project.





National Vital Statistics System (NVSS) Modernization— New Opportunities for Interoperable Data

Paul Sutton

CDC, National Center for Health Statistics, Deputy Director, Division of Vital Statistics



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NVSS Modernization Project Objective

To highlight new opportunities for the use of interoperable health data to support timely research and public health surveillance.

- Inform planning for both the National Vital Statistics System (NVSS) and a potential future National Secure Data Service (NSDS) by highlighting the possible applications for interoperable data, the level of data access needed for these uses, and the related privacy and confidentiality implications.
- Insights from recent NVSS efforts to modernize health data interoperability can inform best practices for an NSDS and the broader data and evidence ecosystem.

! “Data interoperability” encompasses a wide range of related topics—data quality, standards, metadata, definitions, systems, and technologies—needed to share information effectively and to support the creation of better evidence for decision-making.

NVSS Modernization – Evidence Building Considerations

Researchers, program administrators, and policymakers continue to look for ways to connect Federal government data to other sources of information to yield better evidence for decision-making. A lack of interoperability often inhibits data access, analysis, and action.

ACDEB envisioned an NSDS as a new entity supporting cross-cutting activities throughout the data and evidence ecosystem. To do this successfully, an NSDS must explore ways to systematically foster data interoperability.

Recent NVSS modernization efforts demonstrate the benefits of data interoperability, present new evidence-building opportunities, and provide insights for metadata infrastructure that stretch far beyond the health domain.

The improved interoperability of the nation's vital statistics is opening new doors for more real-time analysis and decision-making at all levels of government.



NVSS Modernization – Environmental Scan

- What are the most promising uses for interoperable vital statistics to support timely research and public health surveillance? What are the key criteria for this determination? How do unmet needs vary across the Federal, state, and local levels?
- What would be the minimal level of data access (e.g., aggregated data or confidential microdata) to meet the needs identified by these opportunities?
- What are the current and foreseeable risks to privacy and confidentiality in meeting these needs? How could those risks be mitigated while maximizing the utility of interoperable health data for better decision-making?
- How could this project inform the functions and services of an NSDS, including highlighting metadata infrastructure requirements? What are the minimal and ideal metadata required for interoperability? What are best practices for establishing consistent standards across metadata types, datasets, and documentation?

Questions?



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Request for Solutions (RFS) Requirements

Ms. Rebecca Harmon

Senior Contracts Manager

Advanced Technology International (ATI), ADC Consortium Management Firm (CMF)

americasdatahub.org/opportunities

The official source of information regarding the solicitations is included in the Request for Solutions posted on the ADC website. If you act on information from other sources, it is at your risk.



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RFS Summary

Project Topic

- Proposal must address the specific topic area.
- See Attachment 1 of the RFS for full topic description.

Anticipated Funding

- One award estimated at \$300,000

Period of Performance

- From award through the end of December 2023

One Step Process

- Offerors will submit a detailed technical and cost proposal for award evaluation.
- You do not need to be an ADC member to respond. However, if you're selected for award, you must join ADC (if not already a member).



Full Proposal Submission

- RFS Attachment 2 includes format
 - Volume 1: Technical Proposal
 - Limited to **8 pages plus cover page**.
 - Volume 2: Cost Proposal
 - No page limit.
 - Submit in Word format.
 - Submission form: https://atisc.formstack.com/forms/adc_nvss_rfs



Full Proposal Cover Page

- Working title of the proposed project.
- Names, phone numbers, mailing, and e-mail addresses for the principal technical and contractual points of contact (person or persons authorized to negotiate on the behalf of the offeror and who can contractually obligate the offeror organization).
- Unique Entity ID (formally DUNS number) of the submitting organization (if available).
- Project partners, if any.
- Date of submission.
- Proprietary data restrictions, if any.

Volume 1: Technical Proposal Content

- **Executive Summary**

- **Summary Statement:** Provide a succinct statement of the aim of the project and proposed approach. In most cases, the summary statement will be no longer than a paragraph.
- **Context:** Briefly describe the current state of information and/or research in the area.
- **Proposed Approach:** Describe the proposed approach. Offerors shall explain how the proposed approach will meet the objectives outlined in Attachment 1; result in or lead to a replicable framework that can be used to address similar issues; and inform other strategic priorities like the National Secure Data Service.



Volume 1: Technical Proposal Content *(Continued)*

- **Statement of Work**

- **Work Scope:** Describe the work to be accomplished as part of the project, organized as it is expected to be performed. Separate the work effort into major tasks and subtasks as numbered paragraphs or in a table.
- **Deliverables:** All project deliverables should be clearly listed and described.
- **Future Phases:** Proposals may include a discussion of optional, future phases of work. The original phase or work shall in no way depend on work described under future phases to meet the program criteria.
- ***There shall be no company-sensitive or proprietary data included in the Statement of Work.***



Volume 1: Technical Proposal Content *(Continued)*

- **Capabilities and Experience**
 - List all team members proposed for the project and indicate if they are a non-traditional entity as defined in the RFS.
 - List all key personnel, including those from outside the offeror's organization. Organize the team by organization name and briefly describe each person's roles and responsibilities on the project.
 - Identify and describe the capabilities and experience of key personnel and organizations as these elements relate to the proposed project.
 - Descriptions of experience should serve to demonstrate the key personnel's ability to successfully conduct the proposed research or project, including access to critical resources for the project.
 - Designate any supervisory relationships and who will be the main point of contact for regular check-ins with the NCSES methodological team during the project.
 - Provide condensed resumes (2-page maximum) for all key personnel on the project.

Volume 1: Technical Proposal Content *(Continued)*

- **Capabilities and Experience**

- In addition to key personnel, designate any graduate students or postdoctoral fellows funded by the proposed research. If named, provide no more than a half-page biographical sketch of their background and research interests. The biographical sketch should be included as part of the resume appendix and does not count against the page limit.
- Describe any unique capabilities that the offeror team possesses that may reduce project risk, reduce project duration, and/or improve project financial performance.
- Address any potential conflicts of interest and any proposed mitigation. In addition, complete and submit Exhibit 1 – Organizational Conflicts of Interest Certificate.

Volume 1: Technical Proposal Content *(Continued)*

- **Intellectual Property Rights**

- Describe any limitations on any intellectual property (patents, inventions, trade secrets, copyrights, or trademarks) that will impact the Offeror's performance of the contract or impact the Government's subsequent use of any deliverable under the contract.
- The Offeror must describe the intellectual property in sufficient detail to describe the limitations (data assertions of the Offeror or any subcontractor, potential patent licenses required by the Government, etc.), and to describe why or how the Government can accomplish the stated objectives of this RFS with the limitations described or proposed by the Offeror.



Volume 2: Cost Proposal Content

- **The Cost Proposal shall contain the following information:**
 - **Agreement Type:** It is anticipated the proposed efforts will be funded as firm-fixed-price. However, offerors may recommend an alternate approach (e.g., cost, cost-plus-fixed-fee, etc.) and include the rationale for their use. State either firm-fixed-price or provide rationale for an alternative approach.
 - **Cost Estimate:** The cost estimate shall be broken down for each year of the proposed work. The elements of cost and suggested level of detail are listed in the RFS. Contractor format for the cost estimate is acceptable.



Volume 2: Cost Proposal Content *(Continued)*

- **Program Funds**

- **Labor – Offeror only:** Provide a description of each labor category or person with associated labor rate and hours.
- **Travel – Offeror only:** Provide a list of the number of trips, number of days and travelers per trip, cost per trip, and the purpose of each trip.
- **Team Members/Subcontractors/Consultants:** Provide a list of each team member/subcontractor/consultant and their associated subcontract funding.
- **Material/Equipment – Offeror only:** Provide a list all items and provide justification and basis of cost for each (i.e., catalog pricing, vendor quote, previous purchase, etc.).
- **Other Direct Costs – Offeror Only:** Provide a list all items and provide justification and basis of cost for each (i.e., catalog pricing, vendor quote, previous purchase, etc.).
- **Indirect Costs – Offeror Only:** Provide a breakout of all indirect costs and indicate whether rates are Government approved, citing approval date and federal agency providing approval. If rates are not approved, provide an explanation on how your organization’s proposed rates are appropriate for pricing.
- **Profit/Fee:** Indicate any profit/fee.



Vol 2: Cost Proposal Content *(Continued)*

- **Cost Share (not required)**

- **Cash (labor, travel, etc.):** As applicable, provide a description of each labor category, details on travel, list of materials, etc.
- **In Kind (use of equipment, space/ buildings, intellectual property):** Must provide basis of cost.



Full Proposal Submission Form

Offeror Information

Offeror Organization *

Offeror Address

Offeror City

Offeror State

Offeror Zip Code



Full Proposal Submission Form *(Continued)*

Are you currently a "Non-traditional Entity"? *

☐ Yes

☐ No

"Non-traditional entity" means an entity (construed in its broadest sense to include qualified large and small businesses, universities, non-profits, philanthropic organizations, partnerships, joint ventures, and other entity forms) that is not currently performing and has not performed, for at least the three-year period preceding the solicitation of sources by NSF for the procurement or arrangement, under any NSF procurement contract or NSF instrument of financial assistance.



Full Proposal Submission Form *(Continued)*

POC Information

Technical POC Name *

First Name

Last Name

Job Title *

Technical POC Email *

Technical POC Phone *

Is the Contracts POC the same as the Technical POC?



Full Proposal Submission Form *(Continued)*

Submission

Proposal Title *

Proposal Submittal

- ☐ I prefer to upload the proposal to this form (attachments will be unencrypted)
- ☐ I prefer to send the proposal via encrypted email to adc-contracts@ati.org (may be done before or after submitting this form)

Volume I: Technical Proposal Upload

Choose File

Remove File

No File Chosen

File names must not contain spaces or special characters

Volume II: Cost Proposal Upload

Choose File

Remove File

No File Chosen

File names must not contain spaces or special characters

Additional Comments



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Full Proposal Evaluation Criteria

- **Technical**

- Approach – the degree to which the proposed project:
 - (i) meets the objectives outlined in (RFS) Attachment 1;
 - (ii) demonstrates understanding of concepts/considerations that apply specifically to the interoperability of health data (e.g., Fast Healthcare Interoperability Resources (FHIR) standards)
 - (iii) demonstrates understanding of tiered access considerations (e.g., open data, confidential microdata, and options in between)
 - (iv) demonstrates understanding of privacy and confidentiality concerns and ways to minimize these
 - (v) demonstrates understanding of a future potential NSDS (to the extent possible based on existing inputs, like the Advisory Committee on Data for Evidence Building reports)
 - (vi) includes a clear plan for identifying use cases, level of data needed, and privacy/confidentiality concerns; and
 - (vii) this minimizes the impact/contact with jurisdictional partners and NCHS.



Full Proposal Evaluation Criteria

- **Teaming**

- The degree to which the proposed project includes a diverse team of qualified performers to include use of non-traditional entities. (See RFS for non-traditional definition)

- **Cost**

- The CMF will perform an analysis and will provide the results to the Government. This effort may entail the CMF requesting additional information from the Offeror.
- The Government will determine whether the Offeror's total evaluated cost/price is fair and reasonable.

Base Agreement



If selected for award, the Base Agreement must be signed at that time.



Any Project Agreements will be awarded under the Base Agreement.



Timeline

	Date (Estimate)
Request for Solutions Release	June 14
Webinar	June 22
Proposal Deadline	July 6, 3 PM ET
Offeror Notifications	Mid-July
Award Projects	July

Any deadline updates will be communicated via email.



ADC Member Teaming Resources

- ADC Member Profile Database*
 - Searchable by member demographics and capabilities, includes POC info for each member.
- Member Forum*
 - Post under the “National Center for Health Statistics: National Vital Statistics System Modernization— New Opportunities for Interoperable Data” Forum if you are interested in teaming or starting a discussion with other members.
- Need a teaming partner outside of ADC or other resources?
 - Email ati@govmates.com with who you are looking for.
 - More information is available at govmates.com/ati.

*Requires access to Members Only website. Request access [here](#).

Not a member, but want to access these resources? [Join today](#) — it's free!



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Communications



RFS Questions: ADC-Contracts@ati.org



General/Membership Questions: adc@ati.org



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Questions?



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