Closed Area of Interest (AoI) for SPEED CSO

1.0 Issued By

Program Office: AFIMSC/A9, JBSA-Kelly AFB
Contracting Office**:** 772nd Enterprise Sourcing Squadron

2.0 AoI Identifiers

AoI Title: Data Science Capability and Framework
CSO AoI Number: Closed – 26 – 05. POC: Lt Col Daniel Rich and Mr. Emilio Abarca
AoI Release Date: 02/12/2026
Responses: See FA890326SC001 for submission instructions in addition to paragraph 5.0 below

3.0 AoI Information

This Area of Interest is for developing a framework with maintenance capabilities to empower end users in creating data-driven solutions that enhance efficiency, improve decision-making, and provide actionable insights to support operational mission objectives. This will be achieved through the application of advanced data orchestration, operations research, and analytics, including modeling and simulation, wargaming, digital twining, optimization, artificial intelligence, machine learning, data visualization, and cloud integration under the AFIMSC SPEED Commercial Solutions FA890326SC001. Interested parties are highly encouraged to review the SPEED CSO in its entirety to obtain more information on the process for submission and evaluation of the AoI responses.

This CSO AoI seeks to solicit innovative solutions that meet the objectives detailed in Section 4.0 below. The term 'innovative' is defined as any technology, process, or method, including research and development that is new as of the date of proposal submission; or any new application of an existing technology, process or method as of the proposal date.

AFIMSC is not obligated to extend a request for proposal or make an award as a result of posting this AoI; all awards are subject to the availability of funds and successful negotiations.

This CSO AoI is not an authorization to begin performance, and in no way obligates the Government for any costs incurred by the Offeror associated with developing a Response. Prior to commencement of any activities associated with performance under this CSO AoI, the Government will issue a written directive or contractual document signed by the Contracting Officer with appropriate consideration established. ACC-RRAD reserves the right to modify the requirements of this CSO AoI.

The authority to issue this AoI is derived from the AFIMSC SPEED Commercial Solutions Opening FA890326SC001, dated 21 JAN 2026. The CSO authority is Section 803 of the National Defense Authorization Act for FY2022, Public Law 117-807, and Class Deviation 2022-O0007.

4.0 Scope of AoI

4.1 AoI Background

The operational need within the Air Force Installation and Mission Support Center (AFIMSC) is to enhance data-driven decision-making across diverse mission areas by implementing an integrated framework for data orchestration and advanced analytics. AFIMSC supports 78 installations and various directorates with complex, mission-critical operations, ranging from base communications to infrastructure management. However, current systems, such as Envision, VAULT, Advana, and Unified Data Library (UDL), are not fully optimized for real-time decision-making or predictive analytics. Data is often siloed across these systems, requiring manual integration and processing, leading to inefficiencies, delays, and missed opportunities for operational optimization.

The key capability gaps include the inability to seamlessly integrate and orchestrate data across these systems, limiting the potential for timely, actionable insights. Additionally, existing tools lack advanced analytics capabilities such as machine learning, artificial intelligence, and optimization models that could significantly improve decision-making and efficiency. Automation is also limited, resulting in time-consuming manual workflows. These gaps hinder AFIMSC's ability to make rapid, data-driven decisions in real-time, particularly for mission-essential projects, infrastructure management, and resource allocation. Addressing these gaps through a comprehensive, scalable data framework will provide AFIMSC with the tools needed to optimize operations, enhance efficiency, and better support mission objectives.

4.2 Technical/Capability Requirements

4.2.1. Data Orchestration & Integration

Outcome 1: The contractor shall establish a data orchestration framework to integrate multiple government-managed enterprise data platforms, including Envision, VAULT, Advana, and UDL. This will enable the seamless extraction, transformation, and loading (ETL) of data across these systems, ensuring that data is accessible, accurate, and timely for AFIMSC mission support.

At a minimum: The framework must synchronize and prioritize data flows to provide actionable insights to decision-makers in real-time.

Desired: The ability to integrate external data sources (e.g., industry datasets or partner organizations) into the orchestration framework to enhance the scope of data analysis.

Outcome 2: The contractor shall provide automated data pipelines that facilitate the ongoing update of operational dashboards and analytic platforms used by AFIMSC, enhancing real-time decision-making capabilities.

At a minimum: Automation must include data extraction, transformation, and loading (ETL) with minimal manual intervention.

Desired: A fully automated process for continuously monitoring and refining data quality throughout its lifecycle, ensuring data accuracy and consistency across platforms.

4.2.2. Advanced Analytics & Decision Support

Outcome 1: The contractor shall develop advanced analytics models (including AI/ML, optimization algorithms, and simulations) to support key decision-making areas such as infrastructure management, energy assurance, and asset management. These models will help identify inefficiencies, predict system failures, and optimize resource allocation across AFIMSC missions.

At a minimum: The contractor must apply predictive modeling and machine learning techniques to anticipate potential risks and provide actionable insights for mission support.

Desired: The ability to use deep learning algorithms to detect anomalies and forecast future trends, improving the agility and responsiveness of AFIMSC's operations.

Outcome 2: The contractor shall implement real-time decision support tools that provide senior decision-makers with actionable insights based on the analytics models.

At a minimum: Tools must be capable of providing real-time updates on mission-critical data and performance metrics.

Desired: The ability to provide interactive, dynamic visualizations that allow decision-makers to explore "what-if" scenarios and evaluate multiple solutions before taking action.

4.2.3. Data Quality & Governance

Outcome 1: The contractor shall implement a comprehensive data governance framework to maintain the accuracy, integrity, and security of AFIMSC's data. This includes data profiling, cleaning, and standardization to ensure data consistency across various platforms.

At a minimum: The contractor must ensure that data is cleaned, standardized, and validated before use in analysis.

Desired: The contractor shall implement data enrichment processes by integrating external, third-party datasets to improve the overall quality and breadth of available data.

Outcome 2: The contractor shall conduct regular data audits and implement data lineage tracking to ensure compliance with internal standards and external regulations.

At a minimum: The contractor must document and track the source, flow, and transformation of all data used within AFIMSC's systems.

Desired: The framework will allow for real-time monitoring of data lineage to quickly identify issues or gaps in data governance.

4.2.4. Cloud Integration & Scalability

Outcome 1: The contractor shall provide cloud-based solutions for data storage, management, and analytics to ensure scalability and flexibility. This will enable AFIMSC to handle large volumes of data and facilitate remote access to mission-critical data.

At a minimum: The contractor must integrate AFIMSC's data platforms with cloud infrastructure for seamless, scalable data management.

Desired: The ability to incorporate multi-cloud strategies for enhanced data redundancy and high availability across AFIMSC installations.

Outcome 2: The contractor shall develop cloud-based data visualization tools that allow users to interact with and explore data at scale.

At a minimum: Visualization tools must be capable of displaying mission metrics and performance data in real-time, leveraging cloud computing capabilities.

Desired: The ability to provide customizable dashboards with drill-down capabilities to enable detailed data exploration and insight generation.

4.2.5. Automation & Process Improvement

Outcome 1: The contractor shall develop automated workflows to streamline data processing tasks such as data extraction, transformation, and reporting.

At a minimum: The automation process must reduce the manual effort required for data handling and reporting by at least 30%.

Desired: The ability to introduce robotic process automation (RPA) to eliminate manual tasks, ensuring rapid execution and reduced error rates in data-related processes.

Outcome 2: The contractor shall integrate automated error detection and alert systems to ensure data accuracy and consistency during operations.

At a minimum: The contractor must implement basic error-checking mechanisms to identify and resolve data discrepancies in real-time.

Desired: Advanced automated systems to detect data anomalies, flag errors, and notify stakeholders before issues impact operational outcomes.

4.2.7. Performance Metrics & Reporting

Outcome 1: The contractor shall develop and maintain performance metrics to assess the effectiveness of data science initiatives across AFIMSC missions.

At a minimum: The contractor must ensure the development of key metrics to evaluate project success, operational efficiency, and mission effectiveness.

Desired: The ability to automate metric collection and reporting, ensuring that key performance indicators (KPIs) are tracked and reported in real-time.

Outcome 2: The contractor shall produce regular status reports that detail the progress, challenges, and outcomes of ongoing data science projects.

At a minimum: The contractor must submit a status report on a monthly basis, summarizing project achievements and outlining next steps.

Desired: The ability to provide dynamic dashboards for ongoing project tracking, giving stakeholders continuous visibility into project performance.

4.3 System Requirements

4.3.1. Data Platforms
Must integrate with government-managed platforms such as Envision, VAULT, Advana, and Unified Data Library (UDL).

4.3.2. Cloud Integration
Systems must support cloud-based infrastructure for data storage, management, and analytics, with scalability to handle large data volumes.

4.3.3. Data Integration
Must comply with standard data integration protocols like ETL (Extract, Transform, Load) and utilize non-proprietary data communication standards such as MAVLink for integration with external tools and platforms.

4.3.4. Visualization Tools
Must support visualization software employed within the various cloud environments for operational dashboards and data analysis.

Safety Requirements

4.3.5. Data Security
All systems must adhere to DoD Cybersecurity requirements and ensure compliance with federal security standards, including FIPS 140-2 for cryptographic modules.

4.3.6. Personnel Security
Personnel must have a Tier 1 background check, and systems must maintain security protocols for accessing classified materials when required.

4.3.7. Cross-System Compatibility
Systems must be interoperable across multiple AFIMSC directorates and installations, supporting seamless data exchange and analysis.

4.3.8. API and Protocol Support
Must support RESTful APIs and other web services for integration with third-party tools and external systems.

4.3.9. Languages
Must support programming languages like Python, R, SAS, and Microsoft Power Platform for analytics and tool development.

4.3.10. User Interface
Must be intuitive and support real-time dashboards with interactive capabilities, allowing users to drill down into mission-critical data.

4.3.11. Power
The system should be adaptable to military-grade infrastructure, ensuring reliable operation in both centralized and decentralized environments.

4.3.12. Environmental
Systems must meet operational environmental conditions, ensuring performance in variable climates and field conditions.

4.4 AoI Constraints

4.4.1. System Registration
The contractor must register and maintain an account with the System for Award Management (SAM) for eligibility to work with the U.S. government.

4.4.2. Data Systems Access
The contractor must register for access to government-managed enterprise platforms such as Envision, VAULT, Advana, and Unified Data Library (UDL) as required by AFIMSC.

4.4.3. International Traffic in Arms Regulations (ITAR)
The contractor must comply with ITAR regulations if working with defense-related data, systems, or technologies that are subject to export controls.

4.4.4. Export Administration Regulations (EAR)
The contractor must ensure compliance with EAR restrictions for any data or technology subject to these regulations, especially when dealing with dual-use technologies that could be used for military and civilian purposes.

4.4.5. Personnel Security Clearance
All contractor personnel involved in classified work must have a minimum Tier 1 security clearance for general access. For those handling classified materials, a Tier 3 clearance is required.

4.4.6. Facility Security Clearance
The contractor must maintain an active Secret Facility Clearance in the National Industrial Security System (NISS) to access classified information or systems.

4.4.7. Secret Facility Clearance
The contractor must have a facility with a minimum Secret Facility Clearance level to handle sensitive or classified government work.

4.4.8. Facility Access Requirements

Contractors providing support for classified or sensitive missions will need to be within commuting distance of AFIMSC facilities or other designated secure locations.

5.0 Submission Requirements

A Spiral 1 Video Solutions Brief must be sent via e-mail submission with subject line stating "Data Science Capability and Framework" to the POC listed in paragraph 6.0 by the date and time this AoI closes - 5:00 P.M. (CDT) on 12 MAR 2026.

Spiral 1 Video Solutions Briefs received after the specified due date and time will be discarded and not be evaluated by the Government.

6.0 Points of Contact

Questions may be sent to:
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