

UNITED STATES SPACE FORCE

DATA & ARTIFICIAL INTELLIGENCE FY 2024 STRATEGIC ACTION PLAN



NEVER A DAY WITHOUT SPACE DATA

INTRODUCTION

As the 2022 National Defense Strategy (NDS) makes clear, the United States possesses strengths that our competitors cannot match, among them our diverse and open society, our culture of ingenuity, our innovation base, and our globe-spanning network of Allies and partners. The NDS also describes the need for the United States to sustain and strengthen deterrence against the People's Republic of China and other strategic competitors, which have widely communicated their intentions to field Artificial Intelligence (AI) for military advantage.

To remain competitive in the era of Great Power Competition, the United States Space Force (USSF) requires a unified approach across data, analytics, and AI activities; an educated, empowered workforce skilled at incorporating commercial teams and tools; continued advanced research and rapid experimentation; and effective integration with our Allies and partners. To deliver on this vision, the USSF Data and AI FY 2024 Strategic Action Plan identifies initial actions for organizations that are essential for establishing processes, building capacity, and aligning existing efforts to better leverage data as a strategic asset.

PURPOSE

The United States Space Force Data and AI FY 2024 Strategic Action Plan provides specific direction for the USSF enterprise to reach data-centricity, capable of conducting operations in contested environments. It supports the priorities outlined in the National Defense Strategy and is directly aligned with the Department of Air Force and Department of Defense data priorities. It emphasizes establishing an enterprise-wide approach to data stewardship and data management to ensure the availability of high-quality, trusted data to inform intelligence operations while balancing privacy, civil liberties, and security. To reach these goals, the USSF must adopt modern, adaptive, and agile data and analytic capabilities to enable secure discovery, access, integration, and use of intelligence data at the speed of mission. To do so, we will focus on four Lines of Efforts (LOE) to make data Visible, Accessible, Understandable, Linked, Trustworthy, Interoperable, and Secure (VAULTIS).

LINES OF EFFORT

- LOE 1:** Mature Enterprise-Wide Data and AI Governance
- LOE 2:** Advance a Data and AI-Driven Culture
- LOE 3:** Reoptimize Data, Advanced Analytics, and AI Technologies
- LOE 4:** Strengthen Government, Academic, Industry, and International Partnerships

NATHAN L. IVEN, Colonel, USSF
Chief Technology & Innovation Officer (Acting)

LINE OF EFFORT 1:

Mature Enterprise-Wide Data and AI Governance

Objective 1: Establish and sustain a data governance program to evolve structures, policies, and procedures.

ACTIVITY	DELIVERABLE	RESPONSIBLE PARTY	TARGET DATE
1.1.1 Assess Field Command Data Officer readiness to baseline Data Officer priorities, desired evolution and current challenges.	Assess and publish Field Command Data Officer Survey Results.	Chief Technology & Innovation Office (CTIO)	FY24 Q3
1.1.2 Designate data stewards at different levels to ensure responsibility for data assets & support users in appropriate use, incl. policy enforcement.	Identification of data stewards at each Headquarters, Field Command, Direct Reporting Unit, and Delta.	Required for all organizations*	FY24 Q3
1.1.3 Develop data governance materials to support the enterprise- wide data strategy.	Publish USSF Data & AI Governance Charter and released USSF-wide on ETMS2.	CTIO	FY24 Q3
1.1.4 Develop USSF Data and AI Strategic Action Plan for FY 2025.	USSF Data Strategic Action Plan published to website and released USSF-wide on ETMS2.	CTIO	FY24 Q4
1.1.5 Initiate and host a data governance forum to evolve structures, policies, and procedures across the USSF.	Initiate a re-occurring data and AI forum.	CTIO	FY24 Q3

Objective 2: Develop policies, standards, and guidance to ensure data is VAULTIS.

ACTIVITY	DELIVERABLE	RESPONSIBLE PARTY	TARGET DATE
1.2.1 Develop governance framework to support USSF Data and AI priority LOEs and align with higher-level enterprise governance.	Field Command data governance documents.	All Field Commands	FY24 Q4
1.2.2 Coordinate with DAF/Chief Data and AI Office (CND) to establish process to ensure Generative AI (GenAI) capabilities within the USSF are appropriately governed in collaboration with the Department of the Air Force (DAF) GenAI Tiger Team.	Completion.	CTIO	FY24 Q4
1.2.3 Increased awareness of DAF and USSF data governance framework, operating model, and stewardship roles and responsibilities.	Draft USSF Data and AI Stewardship playbook.	CTIO	FY24 Q4

Objective 3: Ensure data investments are based on strategic priorities.

ACTIVITY	DELIVERABLE	RESPONSIBLE PARTY	TARGET DATE
1.3.1 Establish the USSF mission, vision, and priorities for Data, Analytics, and AI.	USSF Data, Analytics, and AI mission, vision, and priorities for 2024-2027.	CTIO	FY24 Q4

LINE OF EFFORT 2:

Advance a Data and AI-Driven Culture

Objective 1: Increase awareness of data, analytics, and AI capabilities.

ACTIVITY	DELIVERABLE	RESPONSIBLE PARTY	TARGET DATE
2.1.1 Identify existing Software Development Immersive (SDI) for data and AI professionals across the USSF, DAF, DoD, and Intelligence Community (IC).	Completion.	CTIO	FY24 Q4
2.1.2 Host Space Data and AI Capabilities Day.	Completion.	CTIO in partnership with Space Systems Command (SSC)	FY24 Q3
2.1.3 Identify and catalog USSF AI capabilities in the DAF AI Inventory.	# of capabilities added to DAF, DoD, and IC AI Inventories.	Required for all organizations*	FY24 Q3/4

*CTIO will provide guidance via tasker.

Objective 2: Increase data and AI literacy through multi-level investments.

ACTIVITY	DELIVERABLE	RESPONSIBLE PARTY	TARGET DATE
2.2.1 Organize FY25 dialogue series to identify data and AI related professional development opportunities and capabilities available to Guardians.	Completion.	CTIO	FY24 Q4
2.2.2 Provide an open forum in which ideas; concepts; tactics, techniques, and procedures; historical perspectives; problems and solutions, etc., can be exchanged and discussed for purposes of professional development.	Publish USSF Data, Analytics, and AI Quarterly to website and released USSF- wide on ETMS2.	CTIO	FY24 Q3/4

Objective 3: Promote creativity, collaboration, and innovative thinking through competition.

ACTIVITY	DELIVERABLE	RESPONSIBLE PARTY	TARGET DATE
2.3.1 Showcase existing talent within the Space Force to foster new & innovative solutions to challenges faced by Guardians.	Innovation Challenge.	CTIO and SAF/SQ	FY24 Q4

LINE OF EFFORT 3:

Reoptimize Data, Advanced Analytics, and AI Technologies

Objective 1: Identify requirements necessary for a robust end-to-end data lifecycle management system.

ACTIVITY	DELIVERABLE	RESPONSIBLE PARTY	TARGET DATE
3.1.1 Capture the requirements necessary to make enhancements to the USSF Unified Data Library (UDL).	Completion of UDL Capability Need Statement (CNS).	CTIO, Space Systems Command (SSC), Space Operations Command (SpOC), and Space Training and Readiness Command (STARCOM)	FY24 Q3
3.1.2 Identify enterprise requirements for the Unified Data Library.	Completion of UDL Request for Proposals (RFP).	SSC	FY24 Q3
3.1.3 Identify data needs for answering priority questions in support of USSF, Defense, and operational priorities	Completion.	Required for all organizations*	FY24 Q4
3.1.4 Explore and document existing data platforms.	Completion.	Required for all organizations*	FY24 Q4

Objective 2: Innovate through research and development.

ACTIVITY	DELIVERABLE	RESPONSIBLE PARTY	TARGET DATE
3.2.1 Prototype tool for data search and visualization.	RUTHI results briefed during Data and AI Working Group and status update briefed quarterly.	SSC	FY24 Q4

Objective 3: Deliver solutions with clear, quantifiable mission value and mission impact.

ACTIVITY	DELIVERABLE	RESPONSIBLE PARTY	TARGET DATE
3.3.1 Develop roadmap to integrate UDL with partner Data Services.	Plan briefed during Data and AI Working Group and status update briefed quarterly.	SSC	FY24 Q3/4
3.3.2 Publish data assets in USSF, DAF, Defense, and IC data catalogs as appropriate.	# of data assets catalogued across USSF, DAF, Defense, and IC apps; List of data sources added provided to CTIO on Enterprise Access Management Army (ETMS2).	Required for all organizations*	FY24 Q4

*CTIO will provide guidance via tasker.

LINE OF EFFORT 4:

Strengthen Government, Academic, Industry, and International Partnerships

Objective 1: Establish strategic alliances with the most data and AI - capable organizations.

ACTIVITY	DELIVERABLE	RESPONSIBLE PARTY	TARGET DATE
4.1.1 As appropriate, engage government, industry, and academia partners to communicate USSFs Data and AI Strategy and priorities.	# of partners engaged.	Required for all organizations*	FY24 Q4

*CTIO will provide guidance via tasker.

Objective 2: Develop joint initiatives and projects with key partners to address common data, analytics, and AI challenges and opportunities.

ACTIVITY	DELIVERABLE	RESPONSIBLE PARTY	TARGET DATE
4.2.1 Explore current and future opportunities to collaborate with non- traditional partners to address shared challenges & advance technology.	# of projects.	CTIO	FY24 Q4

Objective 3: Identify opportunities to integrate partner data and AI capabilities into the USSF data ecosystem.

ACTIVITY	DELIVERABLE	RESPONSIBLE PARTY	TARGET DATE
4.3.1 Assess the relevance and suitability of partner data sources to USSF operations and objectives.	Identify potential partner data sources, including details such as source organization, data types, formats, and availability.	Required for all organizations*	FY24 Q4
4.3.2 Explore opportunities, when available by law and policy, for technology transfer between USSF and partner organizations, leveraging each other's expertise and resources to accelerate the development and deployment of cutting-edge technologies.	Create an inventory of USSF-developed technologies and innovations with potential for transfer to partner organizations, as well as technologies of interest from partner organizations for potential adoption by USSF.	SSC, SWAC/SSDP	FY24 Q4
4.3.3 Host Research Lab Capability Demo Day.	Completion.	CTIO	FY24 Q3
4.3.4 Evaluate capabilities developed by research labs for applicability to the Space Force's needs	Identify POCs to integrate prototype capabilities.	SpOC, SWAC/SSDP	FY24 Q4

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