



CDAO

Chief Digital & Artificial
Intelligence Office

Advana / Enterprise Platform Capabilities

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The Advana Mission

PROBLEM STATEMENT: Historically, it was nearly impossible to meet the demand for the enterprise-wide common operating picture needed to deliver strategic, timely insights based on data because of organizational barriers, siloed data ownership, and antiquated systems. The conflicts and crises of today and tomorrow require modernization of the way we access data and develop analytics for making decisions.



VISION: Change decision-making behavior across the DoD enterprise using data and analytics.



MISSION: Make data widely accessible, understandable, and actionable across the DoD enterprise by translating common enterprise data into profound yet actionable insights, decisions, and outcomes.

Founded in Doctrine and Policy

- **Creating Data Advantage Memo, signed by DSD on 5 May 2021**, *“Senior Leader Decision Support. Common access to authoritative data is essential for providing a “single source of truth” for objective and informed decision-making. The Advancing Analytics (Advana) platform is the single enterprise authoritative data management and analytics platform for the Secretary of Defense, Deputy Secretary of Defense, and Principal Staff Assistants (PSAs), with inputs from all DoD Components.”*
- **OUSD C FMR, DoD 7000.14-R Financial Management Regulation Volume 1, Chapter 10, “2.2.1. Provide authoritative source-level transactional data to Advana from all DoD business systems daily, using the most cost effective and secure methods available. The authoritative source-level transactional data must be obtained and imported by Advana from the business system in which the data originated (i.e., not a separate data warehouse or data lake but the system that originated the transaction).”**
- **Designation of Enterprise Services Supporting Federated Data Cataloging, signed by DoD Chief Data Officer (CDO) on 2 December 2020**, *“This memorandum designates the Advanced Analytics (ADVANA) program ... as an enterprise service provider for data cataloging on the Unclassified and Secret fabrics, as well as the DoD’s singular interface with the Federal Data Catalogue.”*
- **Army Business Health Metric Data Memo, signed by Director of Business Transformation Principal Cyber Advisor on 2 July 2022**, *“The first of five DOD Data Decrees is to maximize data sharing and rights for data use ... The Secretary of the Army’s establishment of the data-centric Army priority objective extends to our institutional leadership and management responsibilities, as well as to our operating forces. At Headquarters, Department of the Army, as well as with our operating forces, data is leader business. I ask that you implement the following practices within your organizations and with your Office of the Secretary of Defense (OSD) and Joint Staff counterparts to better understand and improve our responsiveness to both their and our data requirements ... Understand your data and authoritative data source environment. Collaborate with your counterparts to identify and share the best authoritative data to meet the Army and OSD’s BHM needs.”*
- **Army Data Access Guidance, signed by Army Chief Data Officer on 4 August 2022**, *“2. The Secretary of the Army (SecArmy) provided overall guidance on the need to create a data centric Army and specified guidance on the role of data services that will facilitate this change. This guidance is further reinforced by the Deputy Secretary of Defense (DSD) memorandum on Creating Data Advantage. In particular, the data sharing decree is of critical importance both for Army and DoD initiatives ... 2. The Secretary of the Army (SecArmy) provided overall guidance on the need to create a data centric Army and specified guidance on the role of data services that will facilitate this change. This guidance is further reinforced by the Deputy Secretary of Defense (DSD) memorandum on Creating Data Advantage. In particular, the data sharing decree is of critical importance both for Army and DoD initiatives.”*



Evolving Operational Requirements

	PAST	CURRENT	FUTURE STATE
	Digitized Platform	Connected Multi-Domain Platform (NIPR/SIPR/JWICS)	Optimized Self-Service Platform
Stakeholders	<p>“Focus on Audit and PSAs”</p> <ul style="list-style-type: none"> • Focused on OUSD(C), rooted in audit • Some Support to the PSAs under OUSD • 4 Community Spaces 	<p>“Apply best practices across DoD”</p> <ul style="list-style-type: none"> • 9 Community Spaces 	<p>“Make analytics approachable for every person in the Department”</p> <ul style="list-style-type: none"> • Expanded community spaces and edge workspaces
Mission	<p>“Solve for Audit and Finance Data”</p> <ul style="list-style-type: none"> • Focus on Business Missions / DoD “Back office” • Slow expansion into functional communities (logistics, etc) 	<p>“Expand to Operational Mission Support”</p> <ul style="list-style-type: none"> • Embracing CCMD missions • Support Incident Response (CVTF, Afghan NEO, Ukraine) 	<p>“Prepare the Department for the War of the Future”</p>
Data	<p>“Break down data silos”</p> <ul style="list-style-type: none"> • Business system data (back office data) for DoD • Finance, People, health, etc • Focus on PII/PHI, privacy and security of data • Data catalogued • MOAs implemented 	<p>“Catalog and mature data to be analytics ready”</p> <ul style="list-style-type: none"> • Focus on cataloging and exposing analytics • Data matured to be analytics ready • Data APIs • Focus on data lineage to authoritative sources and data quality 	<p>“Extend standardized data to the edge”</p>
Technical Architecture	<p>“Focus on creating capability”</p> <ul style="list-style-type: none"> • Domains: NIPR / SIPR (AWS) • Minimal cross domain • Expand across capabilities • Multi-tenant 	<p>“Expand to support Mission architecture”</p> <ul style="list-style-type: none"> • Domains: NIPR / SIPR / JWICS (AWS) and NIPR (Azure) • Bifrost NIPR-SIPR-JWICS • Support multiple tools per capability • Multi-tenant 	<p>“Streamline while empowering down to mission architecture”</p> <ul style="list-style-type: none"> • Multi-domain, multi-cloud • Bring your own tool; streamlined set of self-service tools • Multi-tenant and disadvantaged user
Operating Model	<p>“Advana does for you”</p> <ul style="list-style-type: none"> • Customers pay into Advana • Self – Service Analytics 	<p>“Advana empowers you to do some for yourself”</p> <ul style="list-style-type: none"> • Customers can pay into Advana OR use the platform • Self-Service Analytics, Data, and Tools 	<p>“CDAO enables you”</p> <ul style="list-style-type: none"> • Customers subscribe to the Advana Ecosystem • Self Service Analytics, Data, and Tools in any environment

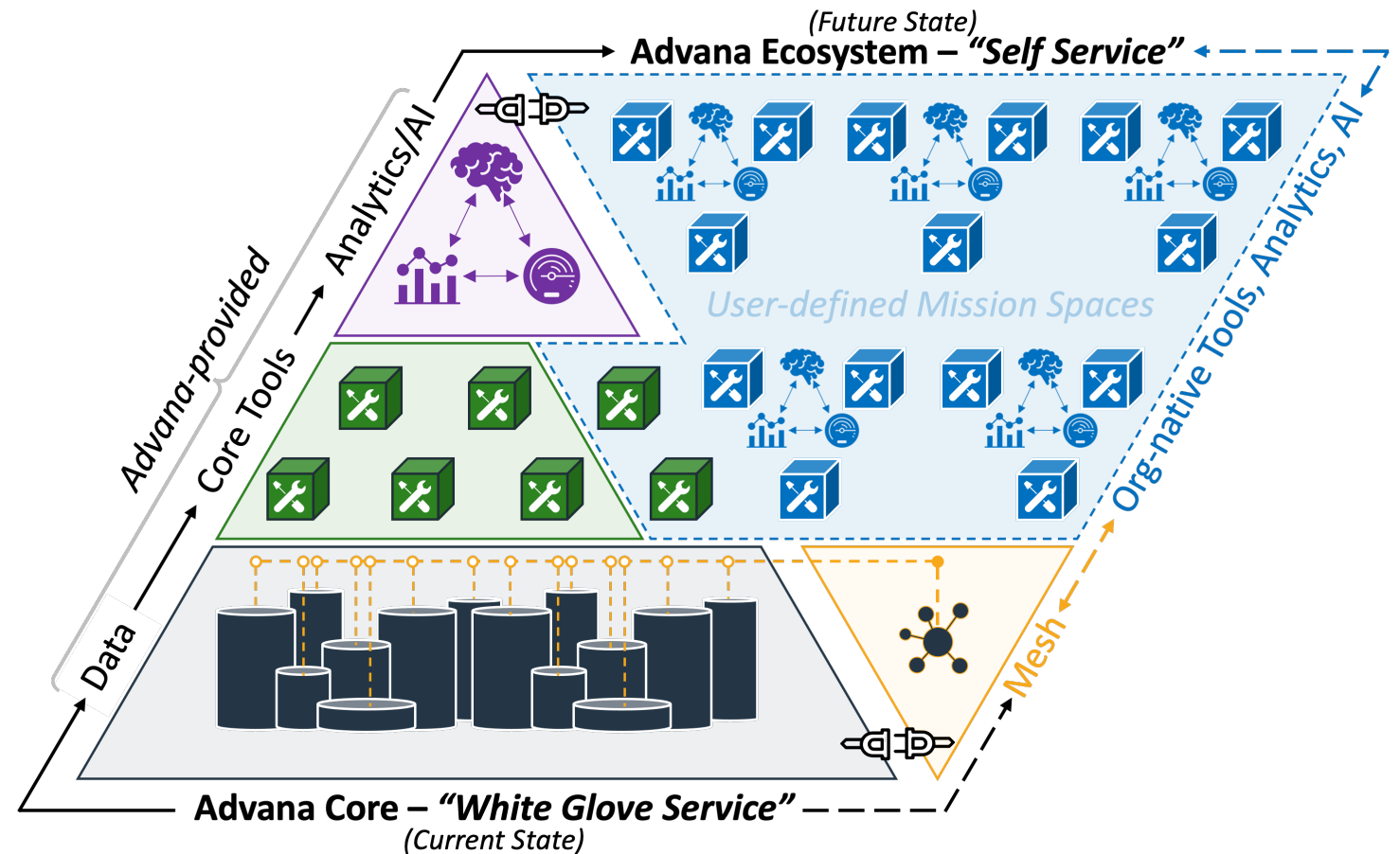


Future Concept of Operations for Advana

Advana is continuing to experience viral adoption across the DoD. Today, the platform is used 24/7 across the globe and includes thousands of data pipelines feeding critical operational analytics assisting senior leadership make data-driven decisions and is wholly a “white glove service.”

A large portion of Advana is centrally funded by CDAO, while further customization and Community Spaces are modeled after a “pay to play” business structure.

In the future, the intent is to empower the mission space concept that would allow for data sharing across authorization boundaries for customers that wish to utilize their own technical stack.



Advana Drives a Multi-Vendor AI Strategy

How we support a multi-vendor environment today, defined as and opportunity for multiple services, software and tool vendors enabled to build and deliver capability across multiple contracts:

- 1. Single Integrator, community focused teams:** Integration across BA/AW critical for new and high-profile use cases. Community spaces drive adoption
- 2. Rich ecosystem of contractor and Government builders:** Aligned to frameworks and training that we have offered to specific communities
- 3. Pathway to deploy new and emerging technology:** We support ability to deploy emerging tech from other contracts (e.g. C3.ai, Virtualitics, LLMs, Percepter)

Advana Wide

100K+
Users

Est. for end of q1 FY24

17K+
Builders

Est. for end of q1 FY24

>2000
Projects

TSYBO

40 Tool
Vendors

39 Services
Vendors

200+
Projects

