CLEARED For Open Publication

Jun 06, 2023

Department of Defense
OFFICE OF PREPUBLICATION AND SECURITY REVIEW



Business Analytics Directorate: Vision, Mission, and Objectives





VISION: Be the DoD enterprise shared service provider for world-class data management, analytics, and AI/ML capabilities to accelerate decision advantage.



MISSION: The CDAO Business Analytics (BA) team enables all DoD organizations to leverage data, analytics, and AI/ML to accelerate innovation and mission impact. We aim to provide the enterprise capabilities and services that allow business and warfighting operators to tap into data to achieve decision advantage.

OBJECTIVES:



1: Institutionalize data, analytics, and Al-driven decision advantage
Drive timely, data-driven decisions and actions that support mission success by
embedding accessible and approachable products and capabilities into the daily
operations of our customers.



2: Deliver a positive and reliable customer experience

Provide an intuitive, interactive, and pleasant customer experience across applications and tools that make it easy to get work done, request assistance, and provide feedback.



3: Provide secure, scalable, and cost-effective solutions

Deliver scalable, secure, and audit-compliant architecture solutions and maximize our return on investment by operating as a secure, cost-effective shared service provider on multiple security domains with ATO (NIPR, SIPR, and JWICS).



4: Accelerate DoD's data, analytics, and Al capabilities with world-class enterprise offerings

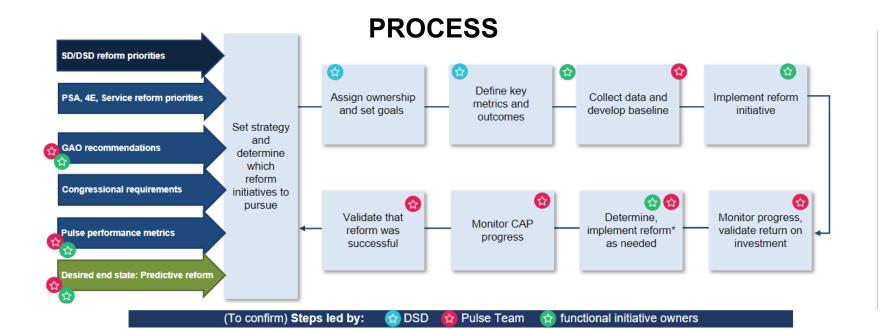
Deliver world-class capabilities that lead DoD to adopt leading transformative solutions (e.g., predictive/prescriptive methods, emerging capabilities) to drive data-driven decision advantage at scale and enable mission and warfighter success.

Key Takeaways: Pulse



DoD is committed to using data and analytics to track progress on strategic priorities in an outcome-driven, metrics-based manner that drive improved performance. To enable the shift to a data-driven approach for performance management, CDAO designed an analytics capability, called Pulse, that uses metrics informed by authoritative data to give senior leaders a strategic view of how DoD is performing against its top priorities.

Pulse integrates data and analytics across National Defense Strategy Implementation (NDS-I), Strategic Priority Metrics (SPM), Business Health Metrics (BHM), and any additional applications aligned to communicating progress towards executing the SD priority areas.



DELIVERABLES

- SMP application
- Performance Improvement Initiative analytics
- NDS-I task tracker
- BHM application
- Overarching Secretary of Defense dashboard

Industry Asks



Through the Pulse framework, DoD aims to:

- Develop and integrate data-informed, outcome-based metrics to show how DoD is performing against SD/DSD strategic priorities
- Enable the SD/DSD to proactively monitor how DoD is performing and be notified if there are areas where they need to engage
- Ensure performance improvement efforts across DoD align to SD/DSD top strategic priorities and performance goals/objectives

Industry can help with tools to:

- Tools to visualize performance at enterprise scale
- Collect and combine analyst input with performance indicators
- Capture new data in an agile and scalable manner
- Flexible customization to allow different views based on user needs

Additional Strategic Priorities



Advana Platform Engineering and Tools

- Establishing parity across NIPR, SIPR, and JWICS for existing enterprise capabilities
- Application and infrastructure management engineering services
- Service delivery capabilities and tools
- Security engineering services and automation tools

Data Engineering and Enterprise Tools

- Creating new data pipelines using Advana platform
- Data federation solutions
- Data management solutions

Data, Analytics and Al Tools

- Data labeling
- Federated data and model cataloging
- Common library of Al packages
- MLOps capabilities
- Data engineering tools and support
- Dashboard and visualization tools and administration support
- Userform development and data integration into Advana

User Experience

- Improved UI/UX of products
- Automated service desk processes

Supporting Services and Expertise

- Software engineering tools and support
- Project management tools and administration support
- Content management tools and administration support
- Functional expertise (e.g., people and health, natural disaster response, etc.) to support functional area or business domain-aligned topics and best support our partners, particularly in DoD OSD Principal Staff Assistant organizations
- License reuse and management

BA's Key Analytics Projects



- Deliver core enterprise platform and operational capabilities on Advana: Provide sustainable, scalable, and secure enterprise platform technical architecture operating on NIPR, SIPR, and JWICs to deploy all enterprise data management, data analytic, and AI/ML development capabilities
- Accelerate API development to improve data and model sharing/federation: Design, prototype, test, document, and publish a secure API infrastructure to support data federation on-demand across NIPR and SIPR (cross-domain)
- Deploy and improve MLOps capability: Provide customers with an industry leading enterprise AI/ML operations technical architecture that includes the ability to deliver automated end-to-end predictive modeling solutions and model card tracking in NIPR, SIPR, and JWICs
- Deliver operational logistics analytics: Provide visibility (What do we have? Where is it? What condition is it in?) for each supply class (e.g. fuel, munitions, PPE, small arms)
- Use data to drive better CAPE analysis: Provide core products to support the Analysis Working Group, Program Budget Review, transaction level budget to execution, and Climate Change
- Take care of our people by understanding installation risk: Provide the ability to link DoD and non-DoD personnel and health data to understand behavior risk at each DoD installation (e.g., suicide and sexual assault prevention)

- Enable and accelerate global force management decision support:
 Provide access to core global force management data required to analyze force laydown, sourcing, and movement
- Improve strategic data-driven decision making: Provide a capability used in DoD governance processes to improve DoD performance by linking and automating the National Defense Strategy implementation, Strategic Management Plan, Business Health, and Dynamic Campaigning
- Make progress towards an unmodified audit opinion: Complete the universe of transactions and funds-balance with Treasury reconciliations.
- Predictive readiness: Provide the ability for the DoD to predict how ready the force will be for a near-term and long-term fight against multiple adversaries
- Data driven insights into experimentation and innovation:
 Provide visibility into the research and experimentation that has been conducted and related spending
- Improve DoD buying power: Provide the ability to understand what DoD is spending money on and where there might be efficiencies (deliver: contract categorization, budget categorization, and services categorization)



Backup