



DAF PEO C3BM Overview Brief

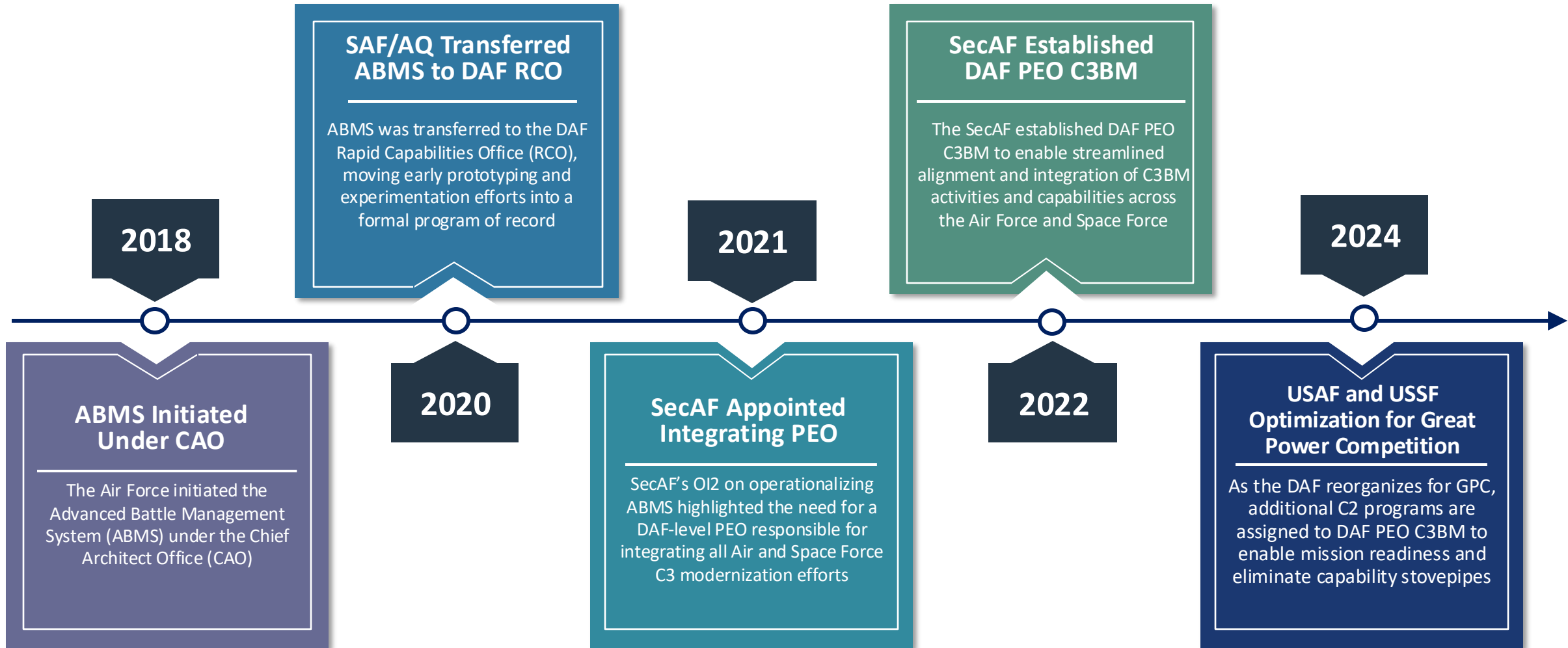
Mike Wipperman
Deputy Chief Architect

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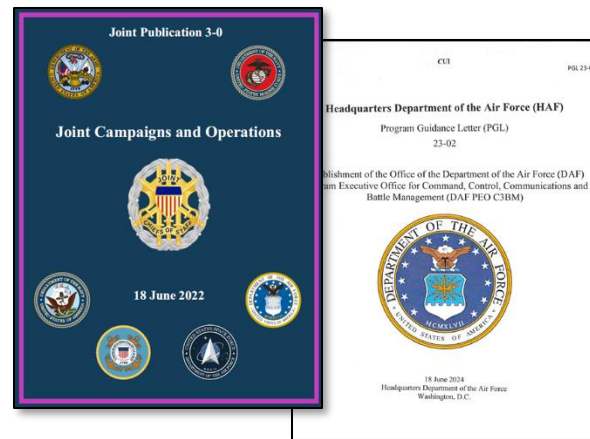
How We Arrived at This Point ...





C3BM in the Joint Environment

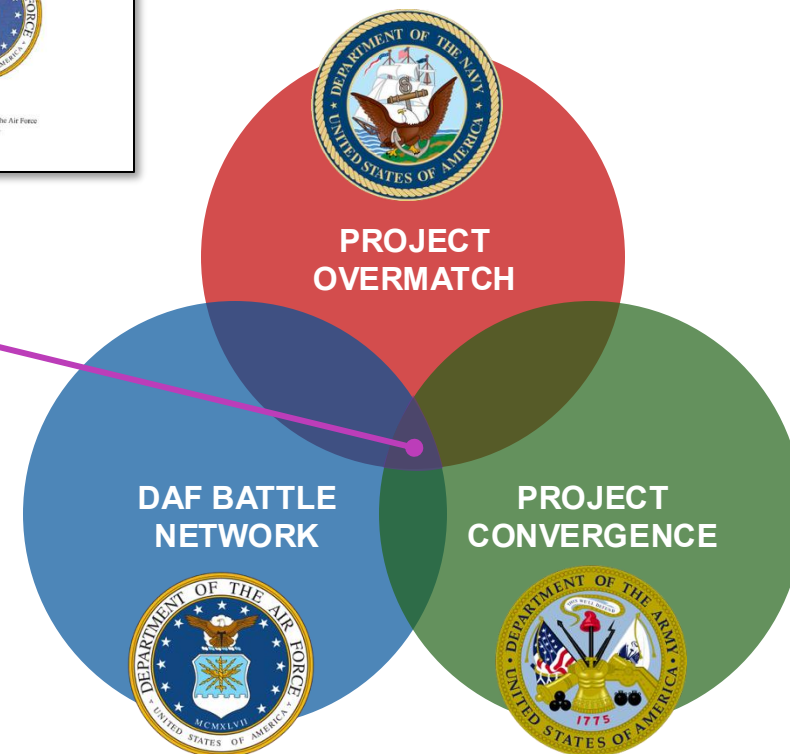
- **Joint Publications 3-0**
Joint Campaigns & Operations
 - Updated emphasizing the need for integrated capabilities
- **Command, Control, Communications & Battle Management (C3BM) Program Guidance Letter**
 - Signed by Hon. Kendall (Secretary of the Air Force)
 - Serves as the Department of the Air Force's contribution to CJADC2



Combined Joint All-Domain C2 (CJADC2)



U.S. Department of Defense



"winning
tomORRow's
waR, today"

is not
a stRategy

it's a
mindset →





Attacking this Problem Requires a Different Mindset and Approach

A complex system that works is invariably found to have evolved from a simple system that worked.

John Gall, Systems Theorist

Any organization that designs a system will produce a design whose structure is a copy of the organization's communication structure.

Melvin Conway

In God we trust. All others must bring data.

W. Edwards Deming



PEO Leadership



Maj. Gen. Luke Cropsey
Program Executive Officer



Dr. Bryan Tipton
Chief Architect & Engineer



Ms. Kate Nelson
Director



Mr. Gordon Kordyak
Deputy PEO



DAF PEO C3BM Organization



**Air Force Materiel
Command**



**USAF Service Acquisition
Executive (SAF/AQ)**

**USSF Service Acquisition
Executive (SAF/SQ)**



**Air Force Life Cycle
Management Center**



**Program Executive Officer
(DAF PEO C3BM)**
Maj. Gen. Luke Cropsey

*Organize, Train and
Equip Functions*

AFLCMC/C3 (2-Ltr) Director
Ms. Kate Nelson

Deputy PEO
Mr. Gordon Kordyak

Chief Architect & Engineer
Dr. Bryan Tipton



DAF PEO C3BM Organization

PEO/Director Staff

Sr Individual Mobil. Augmentee	Military Deputy
Executive Officer	Program Exec Gp (C3Z)
Sr Enlisted Leader	Human Resources
Operations Mgmt	Public Affairs

Senior Functionals

Enabling Divisions

Dir of Finance (C3F)	Dir of EN/Dep Chief EN (C3E)
Dir of Acquisitions (C3P)	Dir of Intelligence (C32)
Dir of Contracting (C3K)	Dir of Cyber (C3R)
Dir of Security/IP (C3V)	Dir of Logistics (C3L)
Director of Test (C3T)	

Acquisition

Core Divisions

Advanced Battle Mgmt Sys (C3B)	Kessel Run (C3C)
Ops Response Tm (C3O)	C2ISR (C3I)
Joint Fires Network (C3J)	Airspace Msn Planning (C3M)
Aerial Networks (C3N)	Space C3BM (C3Q)

Architecture & Systems Engineering

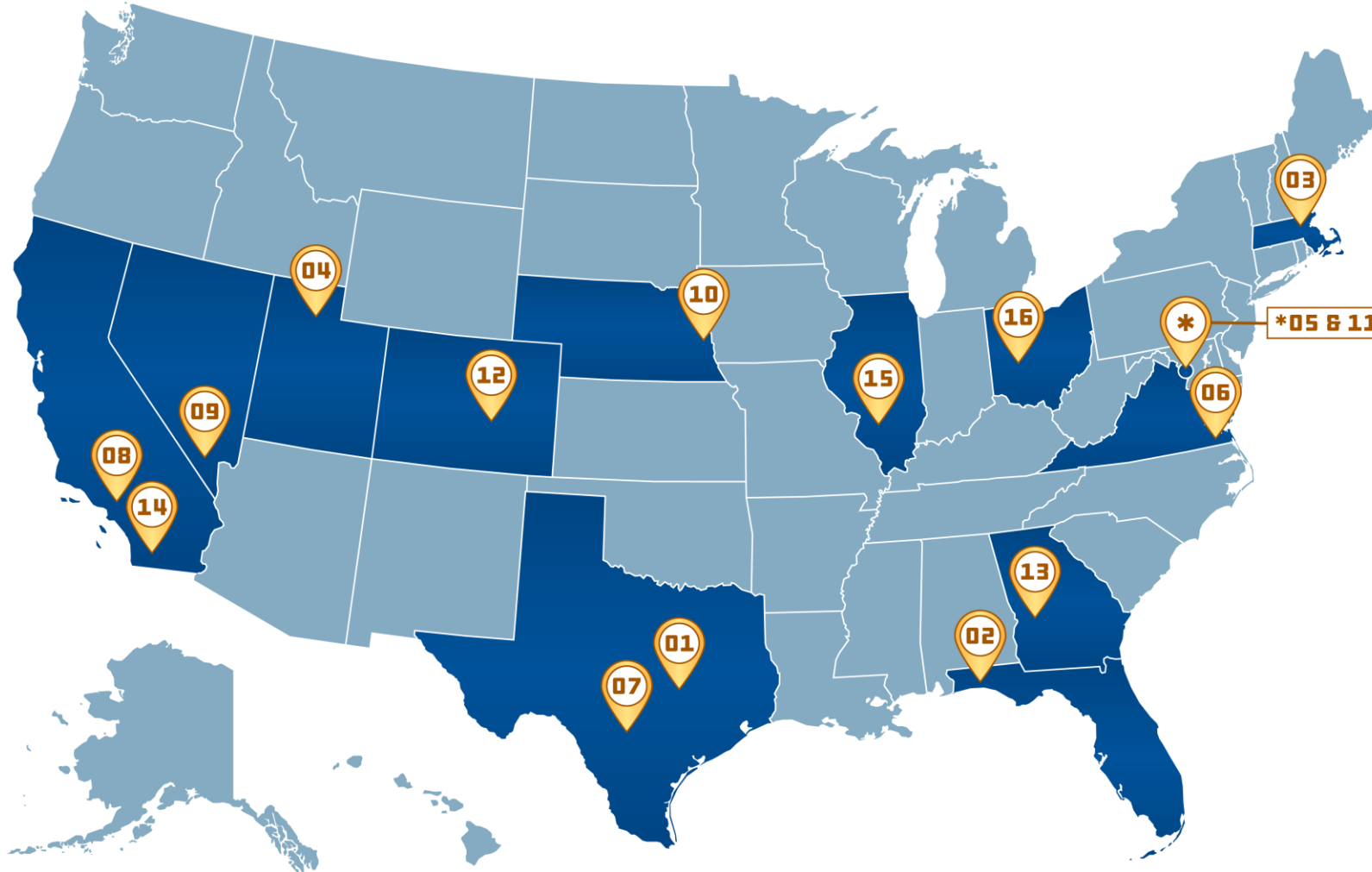
Chief Information Officer	Chief Data Officer
ASE Air Deputy	ASE Space Deputy
Air MIT (C3U)	Space MIT (C3S)
Maritime MIT (C3W)	Land MIT (C3G)
Cross Cutting MIT (C3D)	Homeland Air Def MIT (C3H)

MIT – Mission Integration Team

Air Force Research Laboratory
Space Systems Command - SSIO



DAF PEO C3BM Operating Locations



C3BM LOCATIONS

- 01** - Austin TX
- 02** - Eglin AFB
- 03** - Hanscom AFB
- 04** - Hill AFB
- 05** - JB Anacostia-Bolling
- 06** - JB Langley-Eustis
- 07** - JB San Antonio
- 08** - Los Angeles AFB
- 09** - Nellis AFB
- 10** - Offutt AFB
- 11** - The Pentagon
- 12** - Peterson SFB
- 13** - Robins AFB
- 14** - San Diego CA
- 15** - Scott AFB
- 16** - Wright-Patterson AFB



Why the DAF BATTLE NETWORK?



The system-of-systems connecting sensor, effector, and logistics systems resulting in better situational awareness, faster operational decisions, and decisive direction to the Force.



Integrates 50+ programs of record across the DAF to deliver resilient decision advantage for the USAF, USSF, Joint, and Coalition force.





Setting Priorities – 2025 Strategic Anchors

Key Problem	Strategic Anchor	Solving the Problem
Lack of credibility and responsiveness with our operational partners	Operational Credibility & Responsiveness	Deliver “fight tonight” and “bets with no regrets” capability now, strategically prioritizing today’s operational risk posture with modernization requirements
No DBN-wide strategy that is coherent and complete, to effectively implement and execute	DAF BATTLE NETWORK-Wide Strategies	DBN-wide informed and adopted acquisition and technical strategies that effectively close kill chains and efficiently field capability at scale
Lack of lethal enablers that allow us to internally and externally solve the bureaucratic drag on the system	Lethal Enablers	Align internal and external capabilities to actively engage the full range of options to deliver whatever is needed to kill stuff and break things

Strategic Anchors guide lower-level work, broken down incrementally using Objectives and Key Results (OKRs)



What is the DAF BATTLE NETWORK?

Introducing “The Stack”

The Stack

The Stack is the foundation of the DAF BATTLE NETWORK and consists of four key layers:

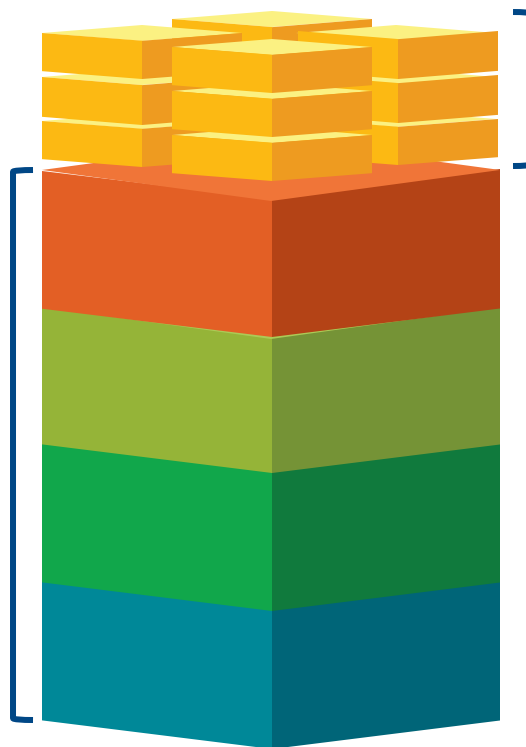
Software Platform

Data

Connectivity

Processing

Foundation is enduring, delivered by robust acquisitions programs and scales to meet user demands



Application layer is user-defined, more volatile, and responsive

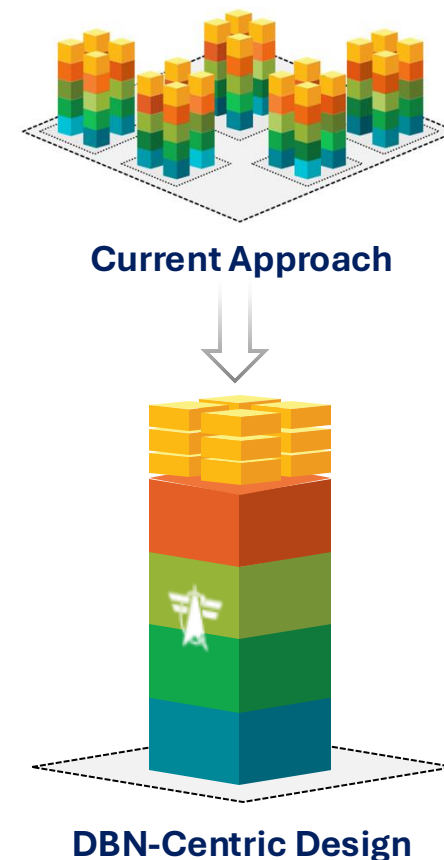
Mission-Based Applications

C3BM programs and other DAF BATTLE NETWORK-connected systems provide tailored applications to meet various mission needs, each riding on and leveraging The Stack



What We Need to Do

- Deliver operationally relevant capability now while shaping the tactical direction toward DBN-wide solutions
- Converge overlapping lines of effort across the enterprise to gain efficiency and align requirements starting with C3BM internal programs
- Develop “The Stack” to support and scale with mission application needs without slowing down delivery of near-term capabilities
- Prototype operational and technical capabilities as a faster path to full-scale fielding as part of the "formal" C3BM approach
- Align processes and organizations upstream and downstream from the acquisition effort to achieve the needed speed and scale of delivery



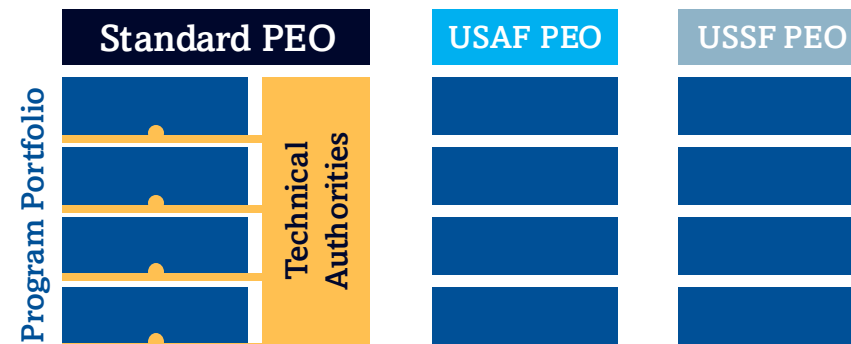
Recognize and operate within given manpower and funding constraints



What is an Integrating PEO (iPEO)?

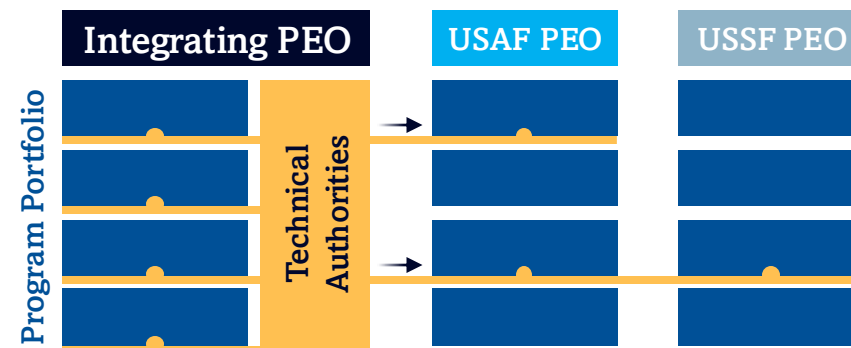
- **Traditional PEO: Responsible for their internal portfolio**

- Programs tend to be siloed
- Coordinate among stakeholders with limited external authority



- **Integrating PEO: Responsible for their internal portfolio, with additional technical authorities impacting external programs (i.e., another PEO's portfolio)**

- Expanded technical authorities for PEO and Chief Architect
- Analyze prioritized mission threads that align to operational priorities
- Work directly with all DAF PEOs to implement architecture into their respective programs
- Deliver DAF BATTLE NETWORK (DBN) & integrate with DoD Services & Allies/Partners

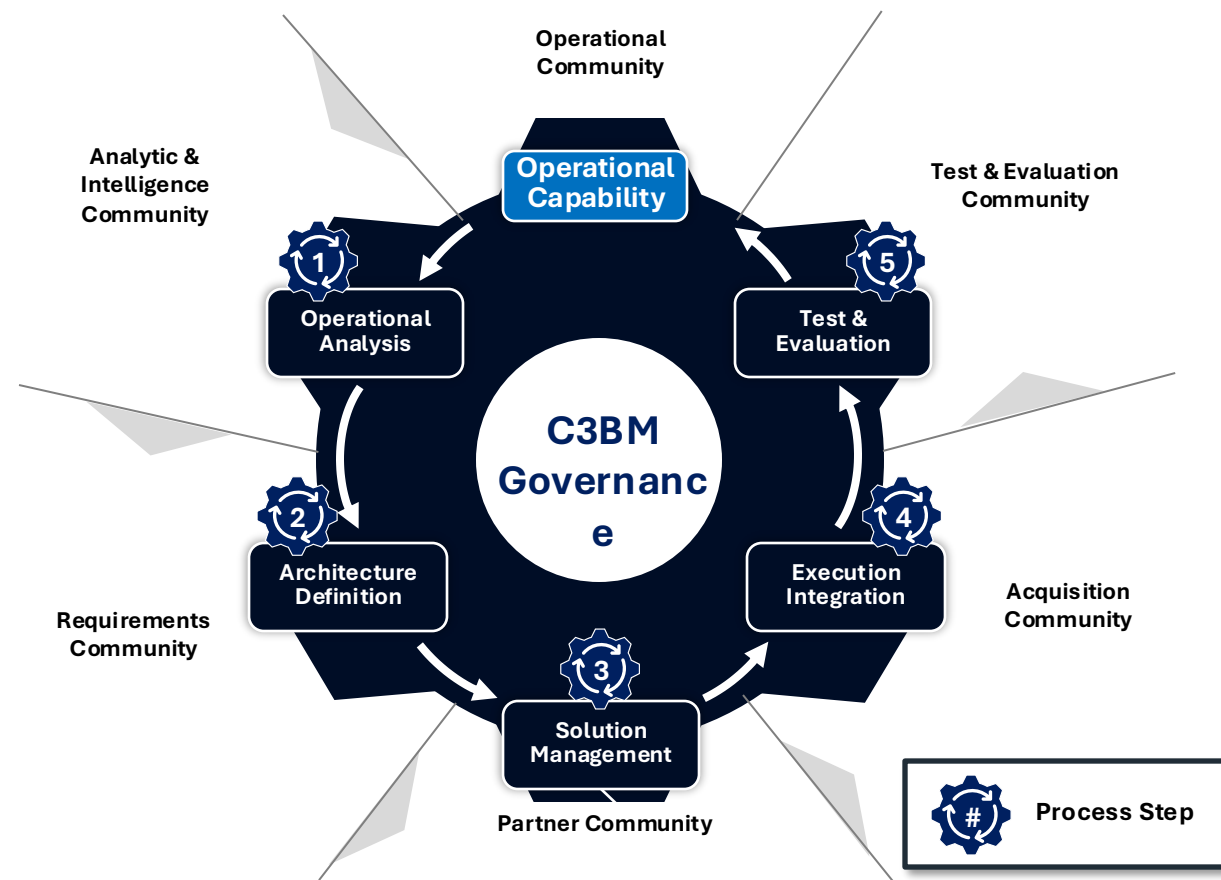
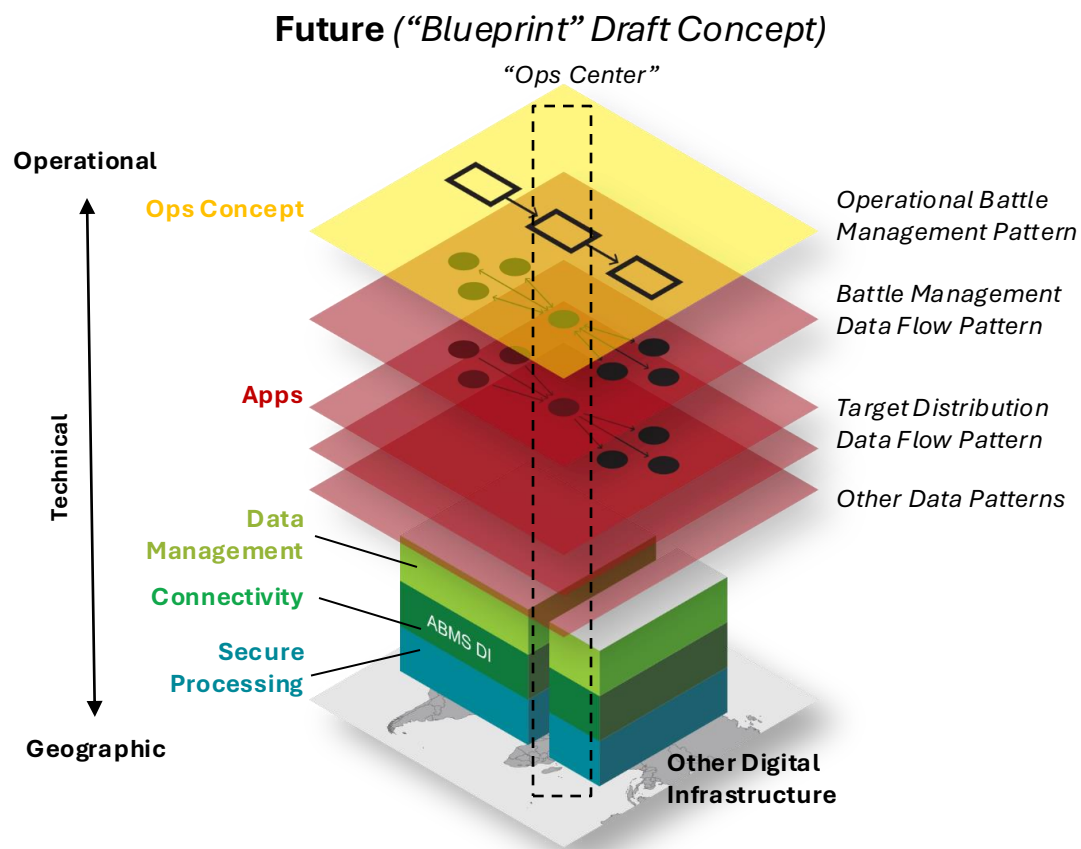


***Mission Thread:** An end-to-end sequence of activities, processing, and information flows that are required to accomplish a specific mission objective or capability.



Building the DAF BATTLE NETWORK

Integrated by Design



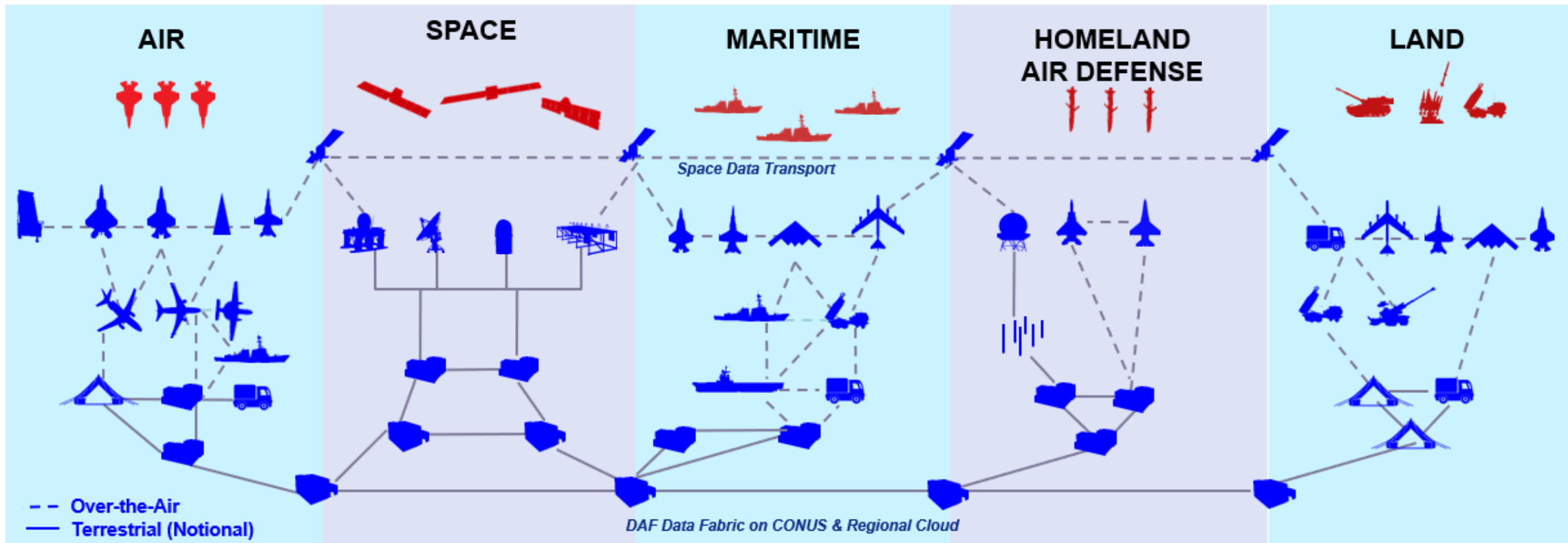
C3BM Architecture and System Engineering (ASE)

- Integrates the DAF BATTLE NETWORK thru technical architecture authorities and programmatic alignment
- Manages the DAF contribution to CJADC2 with Systems of Systems Engineering and Extreme Teaming



Integrating Capabilities & Synchronizing Action

- Objective: Sensor/platform/weapon interoperability and communication to close kill chains
- Kill Chain model: Find, Fix, Track, Target, Engage, Assess (i.e., from locating a target to determining whether the attack was successful)





Why Integrated Product Teams?

C3BM seeks to integrate the larger stakeholder community around interoperable solutions

The Challenges

1. **Horizontal Integration:** Creating a mechanism to integrate at a DAF BATTLE NETWORK system-of-systems level
2. **Complexity:** Shifting complexity off the individual and onto the organization
3. **Value Flow:** Driving programmatic content via DBN architecture in a systematic way
4. **Scale:** Managing information flow to our vast stakeholder network at speed
5. **OT&E:** Leveraging consistent venues for knowledge-sharing to unleash the full potential of the organization

The Change

Establishing IPTs to:

- Create a battle rhythm for implementation planning and synchronization
- Integrate the mission engineering work and system architecture strategies with the programmatic delivery



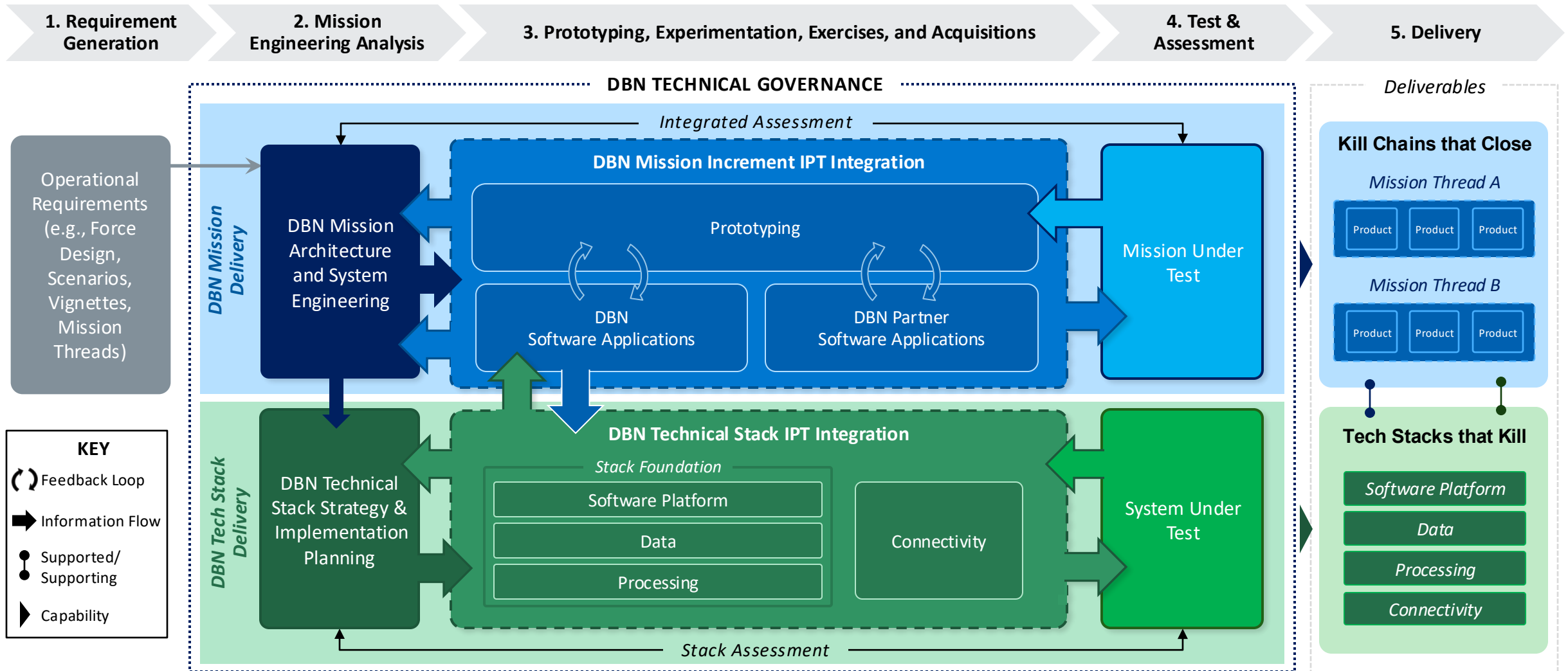
Defining Mission & Stack IPTs

IPTs lay flat technical and programmatic details across extensive webs of stakeholders, streamlining the delivery of capabilities required to close prioritized mission threads

	Mission Increment IPTs	DBN Stack IPTs
PURPOSE	Use baseline-controlled mission threads to bind system-of-systems delivery with specific, concrete, and time-constrained weapon system deliveries called increments	Facilitate strategy and implementation planning for each layer of the DBN technical architecture that we are responsible for deploying
TEAMS	• Air Increment • Space Increment • Maritime Increment	• Software • Data • Processing • Connectivity



Designing for Stack-Supported Mission Delivery





Advanced Battle Management System

C3B – ABMS Division



Mission: To arm Air Battle Managers with connectivity, software, and information to achieve decisive victory from anywhere

Breaking it Down: Build a network that helps military commanders quickly share information and make better decisions by connecting different weapons systems, sensors, and communication systems that historically haven't been able to connect or share information





Kessel Run

C3C – KR Division



Mission: Continuously deliver targeting and command & control software solutions that are operationally effective and defiantly available, 24/7 x 365, in a major theater war against capable adversaries determined to defeat them

Breaking it Down: Organic software development team that builds and maintains digital tools and applications to help military operations run more efficiently, using modern coding practices





Command, Control & Intel, Surveillance and Reconnaissance

C3I – C2ISR Division



Mission: One team committed to modernize, sustain, and integrate unrivaled C2ISR capabilities for National Defense

Breaking it Down: Manages the computer systems and networks that collect, process, and share intelligence information and operational data across Air Force units worldwide





Airspace Mission Planning

C3M – AMP Division



Mission: Rapidly deliver mission planning and mobility air forces command and control software to enable National Military Strategy in a highly contested environment.

Breaking it Down: Builds the software systems that help pilots and aircrew plan their flights, from mapping routes and calculating fuel needs to coordinating weapon systems and cargo drops





Aerial Networks

C3N – AN Division



Mission: Lead, develop, and sustain the Aerial Networking systems connecting information, operators, and the DAF BATTLE NETWORK

Breaking it Down: Develops the communication systems that allow military aircraft to share data and coordinate with each other and ground forces in real-time during missions





Summary

- DAF PEO C3BM is modernizing the DAF's C3 systems to ensure resilient decision advantage for the Joint and Coalition Force.
- The DAF BATTLE NETWORK is the system-of-systems DAF PEO C3BM is designing to provide this resilient decision advantage.
- Multiple organizations and programs, both inside and outside DAF PEO C3BM contribute to the DAF BATTLE NETWORK's capabilities





Connect with us



<https://linktr.ee/C3BM>



<https://usaf.dps.mil/sites/C3BM>

C3BM Intranet (CAC-Enabled)



www.afldmc.af.mil/C3BM

Official Public Website



www.linkedin.com/company/peo-c3bm

LinkedIn Page



SAF.PEOC3BM.FrontDoor@us.af.mil

Email

Questions?

