

Department of the Air Force

Integrity - Service - Excellence

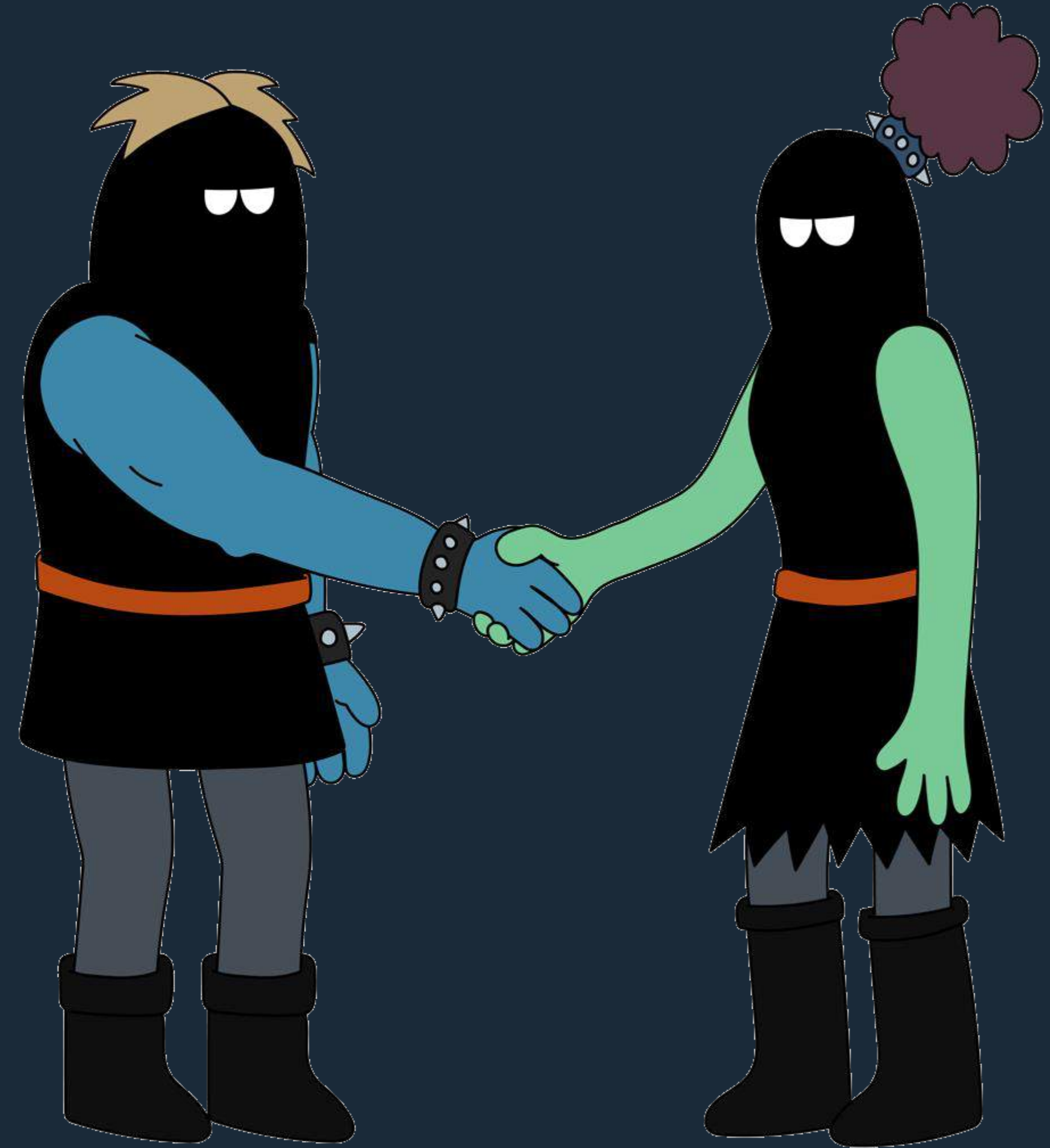
C3BM Delivery of The DAF BATTLE NETWORK



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DAF PEO C3BM, Deputy PEO
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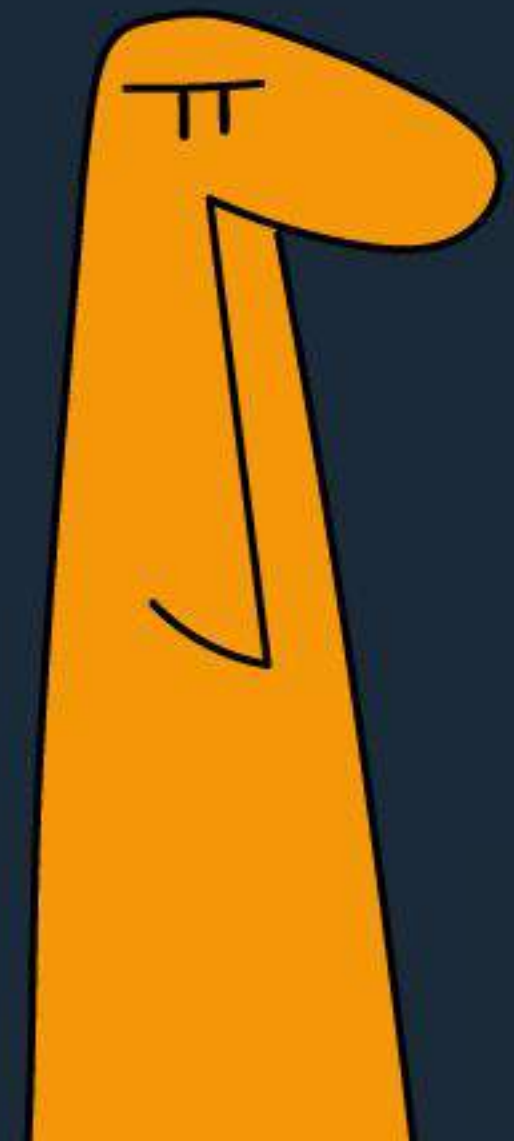
(Re) Introduction to DAF PEO C3BM



"winning
tomORRow's
wAR, today"

is not
a sTRAtegy

it's a
mindset →





DAF PEO C3BM Mindset

“We are to the joint and combined force what the headsmen is to the executioner’s ax—willful, disciplined, and premeditated direction of lethal means.”



EXTREME TEAMING • RUTHLESS FOCUS • VIOLENT EXECUTION



DAF PEO C3BM Values





DAF PEO C3BM Portfolio



DAF PEO C3BM

DAF Integrating PEO for Command, Control,
Communications, and Battle Management (C3BM)



DAF BATTLE NETWORK Technical Architecture

DAF PEO C3BM Architecture & System Engineering (ASE)

Air | Space | Maritime | Land* | Homeland Air Defense*

DAF PEO C3BM Internal Program Portfolio



C2ISR

Distributed Common Ground
Station (DCGS)

Extended Tether Program (ETP)

Global Command & Control
System – AF (GCCS AF)

Integrated Broadcast Service
(IBS)

EOD Info Management System



Kessel Run

All Domain Common Platform
(ADCP)

Command & Control Incident
Management Emergency
Response Application (C2IMERA)

Kessel Run All Domain
Operations Suite (KRADOS)

Kessel Run
Air Operations Center

Kessel Run Targeting &
Geospatial Intelligence

Kessel Run
Modeling & Simulation



Airspace Mission Planning

Mission Planning Systems (MPS)
Weapons

MPS Mobility Air Forces (MAFPS)

MPS Joint Precision Air Drop
System (JPADS)

MPS Core Mission Planning
(CMP)

MPS Combat Air Forces & Global
Strike (CAF-GS)

MPS Agile Global Mobility &
Special Missions (GMSM)



ABMS

Aerial Networking (Phalanx
Griffon, Hybrid SATCOM)

Air Base Air Defense System
(ABADS)

Cloud Based C2 (CBC2), BCS-F &
Common BMC2 Interface

DAF Integrated Fires Command &
Control (DIFC2)

Digital Infrastructure (Fixed,
Deployable, Remote, Network)

Distributable Battle Management
Node (DBMN)

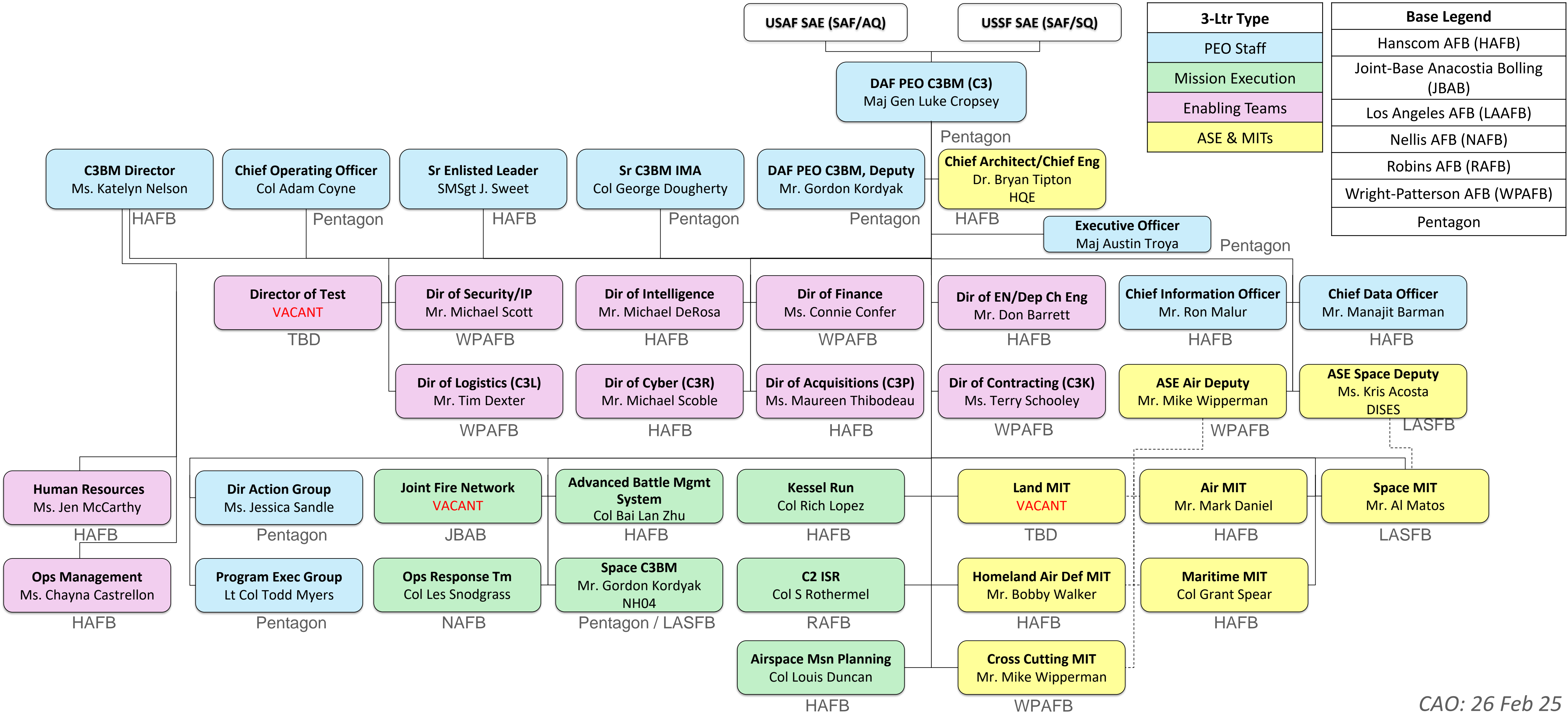
Control & Reporting Center (CRC)

* Future

EXTREME TEAMING • RUTHLESS FOCUS • VIOLENT EXECUTION

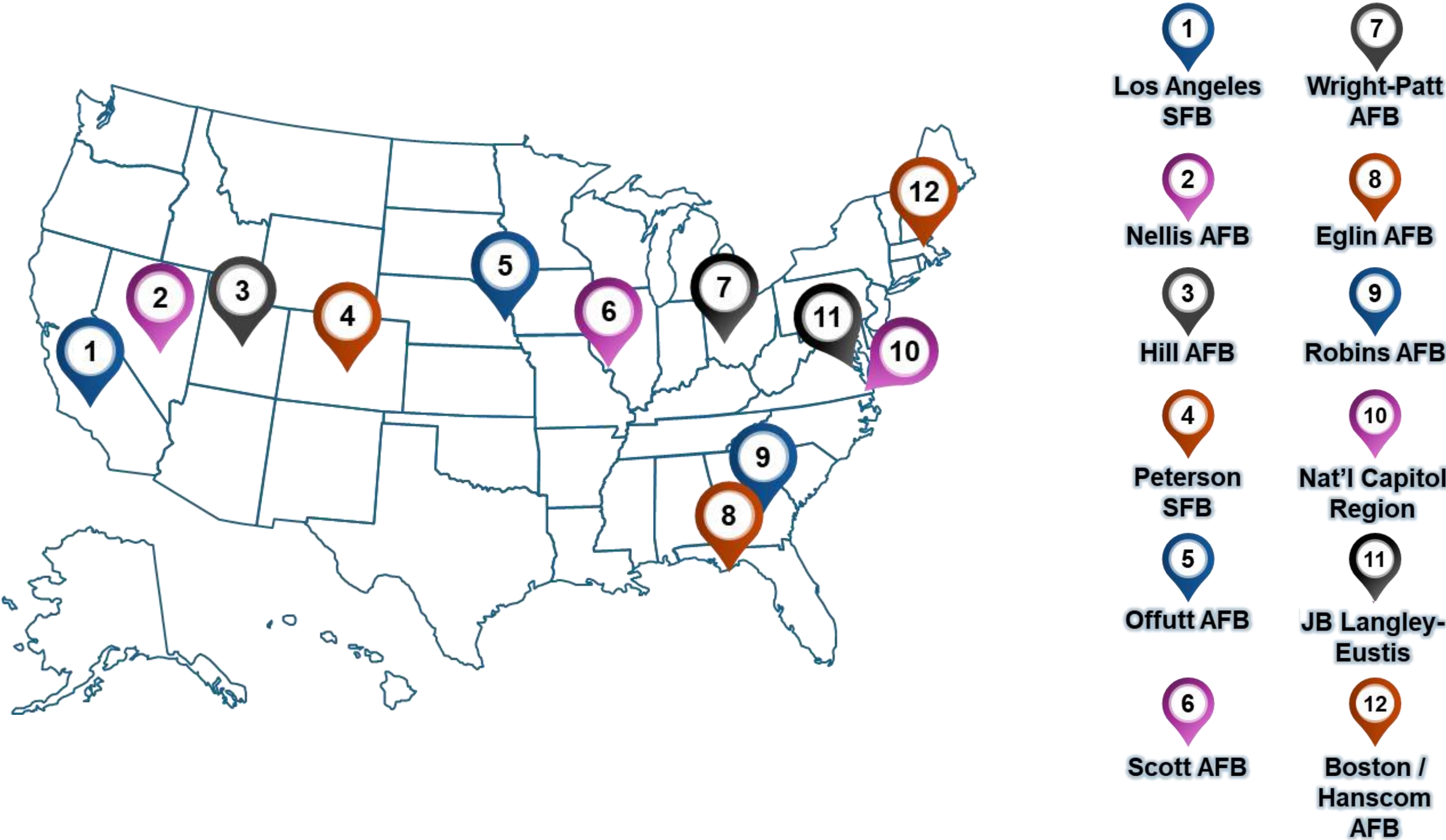


DAF PEO C3BM Leadership





C3BM Locations





DAF PEO C3BM Community

As the USAF “DAF BATTLE NETWORK Integrating PEO,” C3BM partners across the USAF and USSF to technically drive and integrate, as well as lead programmatically assigned, inter- & intra- Air/Space C2 & Battle Management activities to deliver resilient decision advantage for the Joint and Coalition fight!



*It's Time for the
Ultimate DBN Play!*

Defining the DAF BATTLE NETWORK

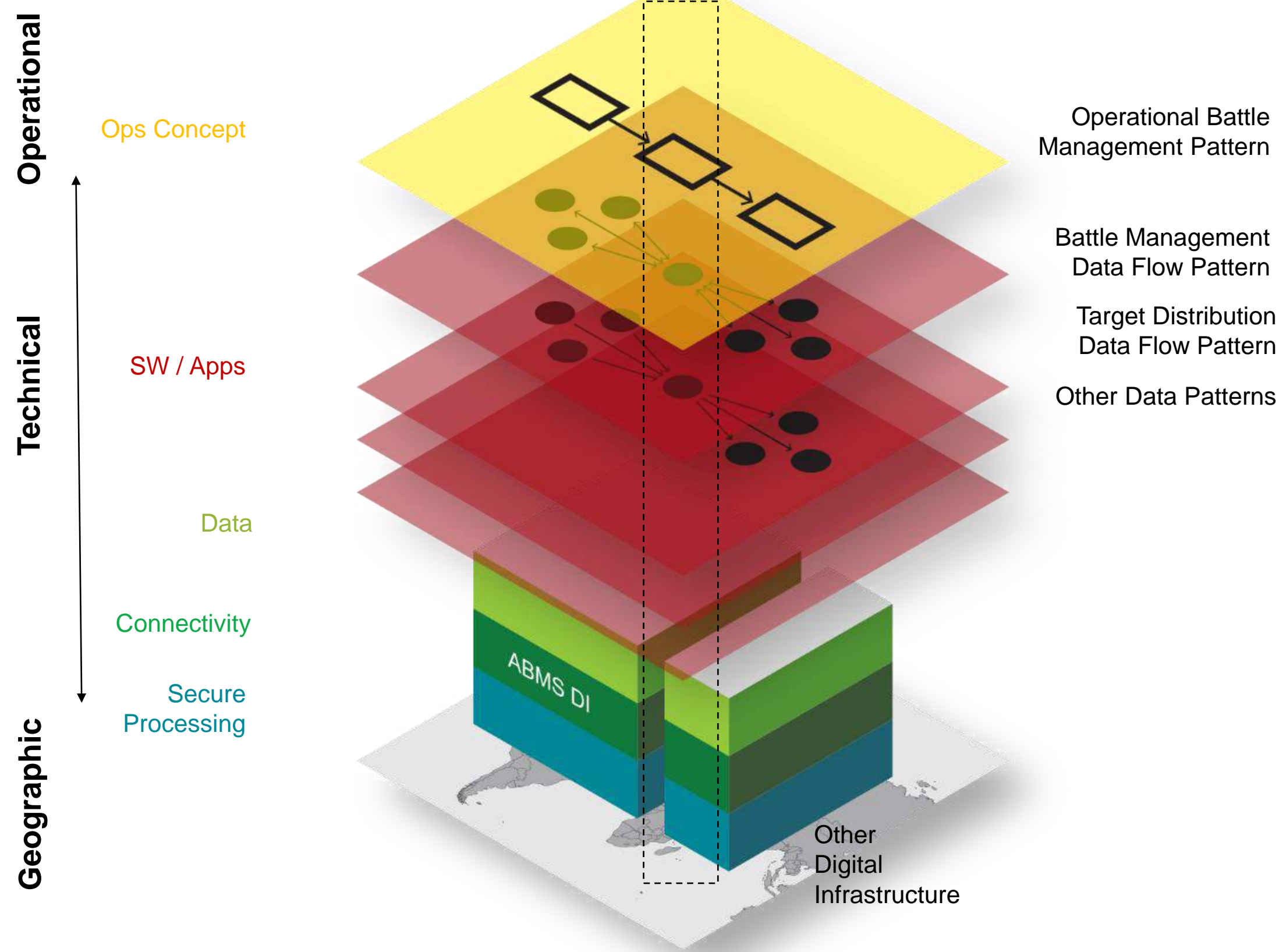




What is the DAF BATTLE NETWORK?

Future (“Blueprint” Draft Concept)

“Ops Center”



■ The DAF BATTLE NETWORK is “The Stack” generalized into 4 categories:

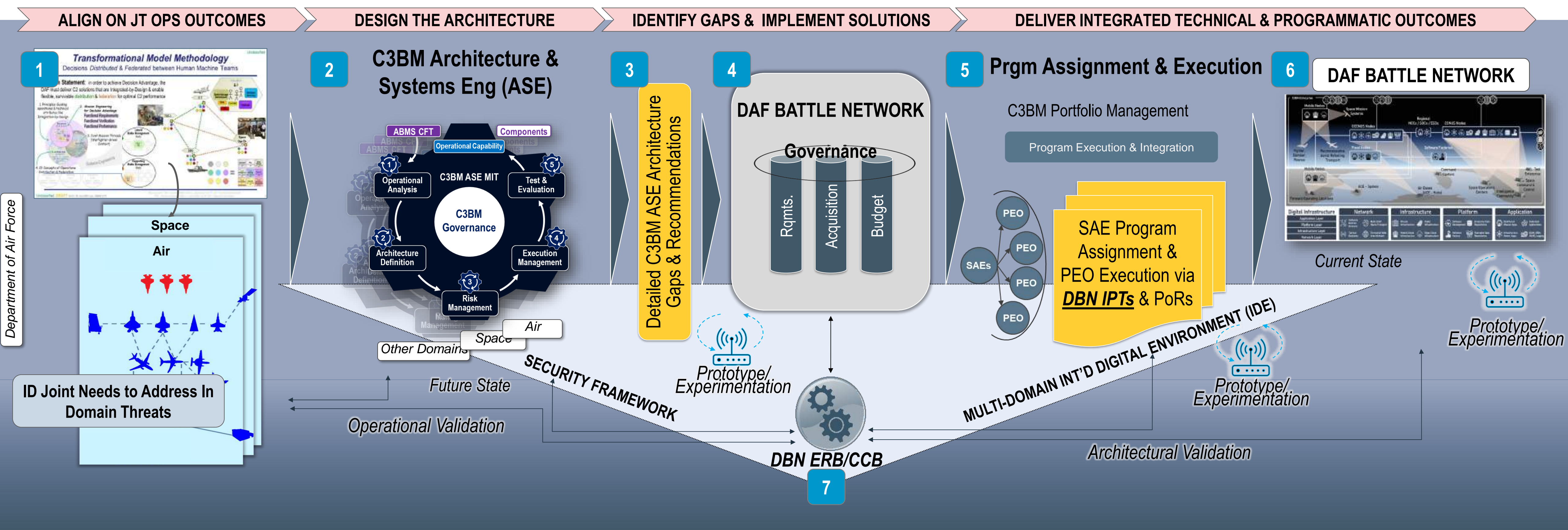
- Secure Processing / Digital Infrastructure
- Software / Applications
- Connectivity
- Data





DAF BATTLE NETWORK

Portfolio Integration Methodology





How to Deliver the DAF BATTLE NETWORK

C3BM seeks to integrate the larger stakeholder community around interoperable solutions to deliver the DBN

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

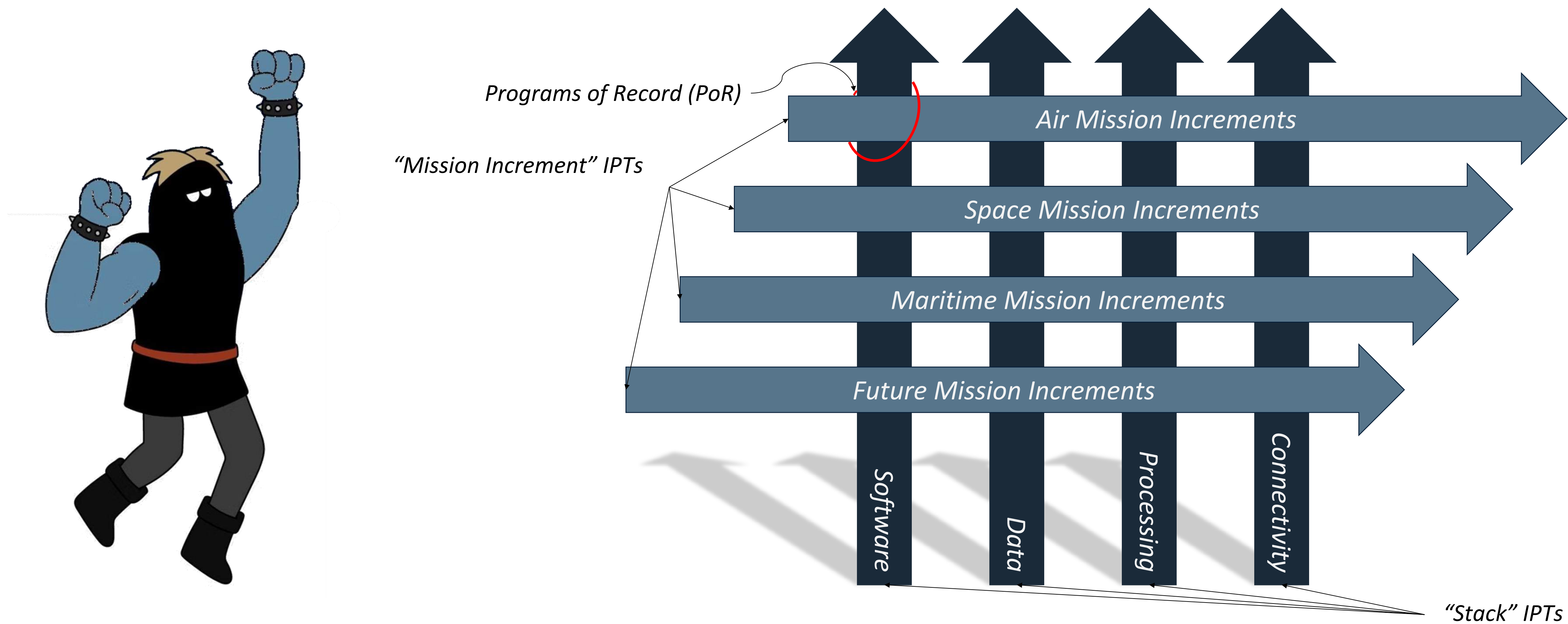
Establishing Integrated Product Teams (IPTs) to:

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



How to Deliver the DAF BATTLE NETWORK

USAF & USSF Led IPTs Translate Architectures into Achievable Incremental Capability Deliveries Turning...
Architectures → Functional Decomposition → System-of-Systems → PoR Capabilities





DBN IPT Value Flow Model

Mission Teams

Mission Thread Architecture Solution Management Execution Integration Integrated Assessment

Mission Increment IPTs

Air Mission Increment IPT

Space Mission Increment IPT

Maritime Mission Increment IPT

Stack IPTs

Software IPT

Data IPT

Processing IPT

Connectivity IPT

Technical	Programmatic
DBN ERB	GOSG/CCB
Mission ERB	Convening PEOs or CCBs
Program ERB	PMRs

Products

Product	Product
Product	Product
Product	Product
Product	Product
Product	Product
Product	Product
Product	Product
Product	Product

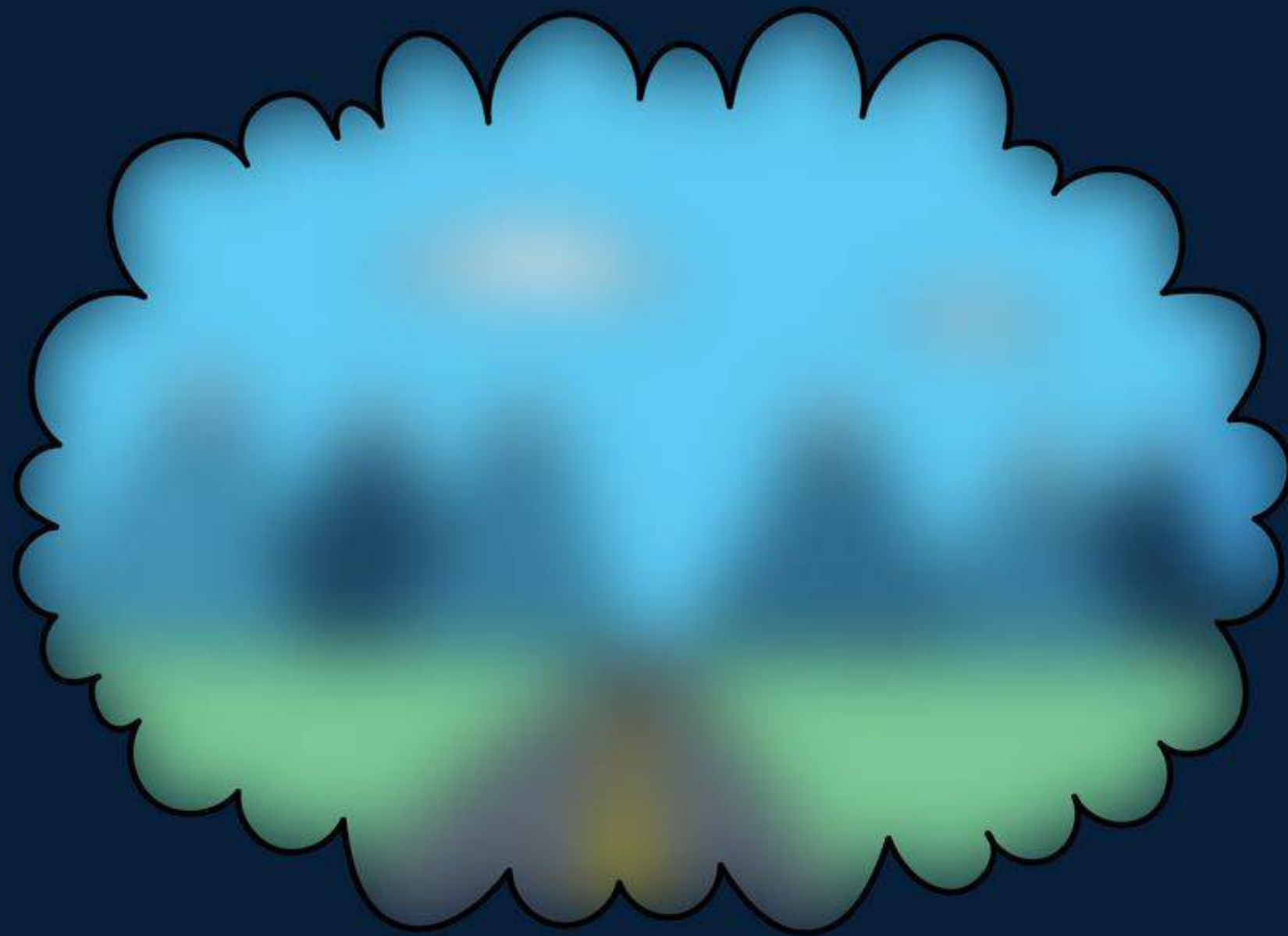
Plan Design Build Test Field Sustain Deprecate

Acquisition Teams

***Delivering the DAF
BATTLE NETWORK***



the more detailed the vision
the easier it is to realize





Theory of Victory

- **Align on the operational problem to be solved – mission over function**

- **“Thin Slice” the product delivery**

- “Big Bang” acquisitions is out
- Simple, working systems, are in
- Enabled by very rapid, iterative product deliveries (e.g. SWP)

- **Modularize the design**

- Reduce the number of interdependencies
- Target threat and technology clock-speeds
- Create “composable” systems

- **Tight coupling between ops, acquisition, and resourcing required**

- Complexity precludes accurate predictions of future
- Requires robust experimentation between ops and acquisition
- Resources must be managed at the same level as the system-of-systems

**System-of-Systems
Architecture Must Beat
Individual Systems For
Success!**



DAF PEO C3BM 2025 Priorities

Strategic Anchor	Objective	End-States
Weaponize the Enterprise	Obj 1. Integrate the Technical Process	<ul style="list-style-type: none">C3BM Core Processes are defined and implemented to link DBN technical requirements to product deliveryC3BM DBN governing forums stood up and in executionDBN Stack and Mission Integration IPTs are formally established across the DBN Enterprise to address key technical and program integration challenges
Close the Pacing Challenge Mission Threads at Scale	Obj 2. Sort the Stack	<ul style="list-style-type: none">A digital infrastructure strategy (e.g., network, cloud infrastructure, platform, data, and application layers) equips C3BM to provide mission partners with clarity on what C3BM is building and aligns program investment strategiesC3BM has software pathway acquisition strategies implemented and synchronized across the PEO portfolioSolutions & POAMs for cybersecurity, network operations, and cross-domain solutions identified
	Obj 3. Streamline and Scale	<ul style="list-style-type: none">Deliver ABMS tactical C2 software and resilient digital infrastructure delivery is scaled to additional operational locations and mission threads; Phalanx Griffon is on track for fielding to key weapon system platformsDeliver Wing & Ops C2 apps (C2IMERA & KRADOS) are adopted on new modernized and resilient architectureDelivery of weapons planning capabilities for bomber & fighter aircraft are delivered; delivery of mission planning software for MAF & CAF platforms are accelerated; define TAP-SoS Dynamic Mission Replanning strategyDeliver on DCGS, ETP, and IBS program commitments while reorienting to new AI/ML & software pathway strategiesIntegration of Space C2 & Joint C2 capabilities into DBN, including new DAF Integrated Fires C2 program



Recent Successes

■ **Build the Team**

- C3BM Program Guidance Letter signed by SecAF in 2024
- Successfully transitioned 2,500+ personnel into the C3BM “Square Peg” Family across 12 sites
- Hired 2-Ltr Director, Chief Information Officer, Chief Data Officer

■ **Close the Pacing Mission Thread**

- Delivered Air, Maritime, Space & Cross-Cutting Incremental Architectures
- Assigned as Transition PEO to turn Joint Fires Network prototype into Program of Record
- Awarded Digital Infrastructure (DI) Network Integrator & Phalanx Griffon Integrator (PG-I) Contracts
- ABMS delivered MVCRs to Air Defense Sectors & supported 1st deployment of ABMS supporting CJTF-HOA
- Awarded Kessel Run (KR) CloudCITI 2.0 Bridge & Global Warfighting Cloud Infrastructure efforts
- Demonstrated new Air Mission Planning capabilities for search & rescue as well as integration with USSF UDL
- Awarded efforts to expand C2ISR S/W licensing for key intel fusion capabilities & targeting community collaboration

■ **Weaponize the Enterprise**

- Hosted FY25 DAF BATTLE NETWORK General Officer Steering Group & Architecture Conference
- Assigned as DAF BATTLE NETWORK Integrating PEO



Command & Control Intelligence, Reconnaissance & Surveillance (C2ISR)

- ***What:*** ArcGIS - Provides contextual tools through software licenses for mapping and spatial reasoning; offers a unique set of capabilities for applying location-based analysis intelligence missions, gaining greater insights using contextual tools to analyze and visualize data & sharing these insights with others via apps, maps, and reports
- ***When:*** RFP: 2025 / Award: 2026
- ***What:*** MultiStream Platform Support, Phase 2 - Continued engineering support for Common Enterprise Infrastructure (CEI), Trusted Manager (TMAN), Mission Planning System (MPS) and the Ground Control Processor (GCP) and related intelligence systems
- ***When:*** RFP: 2025 / Award: 2026
- ***What:*** DCGS Signals Intelligence (SIGINT) Field Support - Sustainment responsibilities essential for maintaining DCGS Hardware (HW) and Software (SW)
- ***When:*** RFP: 2025 / Award: 2026
- ***What:*** IBS Crypto Modernization - Development of an encryption / decryption device to ingest data reports formatted IAW MIL-STD-188-186 and encapsulated in an IP packet
- ***When:*** RFP: 2025 / Award: 2026



Kessel Run (KR)

- **What:** Kessel Run Enterprise Software Tools (KREST) - Purchasing and management of enterprise-wide end user software tools
- **When:** RFP: 2025 / Award: 2025
- **What:** C2SET Follow-on - Scalable Modeling & Sim capability for C2 training; modernized capabilities to provide JFACC/CFACC opportunity for Wing Level C2 training on KRADOS WS for AOC operators
- **When:** RFP: 2025 / Award: 2025
- **What:** ASCEND - Cloud, platform, and security engineering services support for ADCP & Office of the CIO; blend of Govt-led / vendor-led teams across IaaS, PaaS and security areas
- **When:** RFP: 2025 / Award: 2026
- **What:** Flight Ops Enterprise Solution - Opportunity to provide the DAF with a Cloud-based enterprise-level (system-of-systems) aerospace readiness tool
- **When:** RFP: 2025 / Award: 2026
- **What:** Joint Targeting Toolbox (JTT) - Develop, field, maintain, and support operations of the JTT software series and support the transition from and deprecation of the fielded legacy JTT-CP S/W
- **When:** RFP: 2026 / Award: 2026



Airspace Mission Planning (AMP)

- **What:** Mission Planning Hardware: Mobile Computer (FY26) - Supply commercial best-in-class 2-in-1 detachable laptop/tablet capable of supporting unique Msn Planning requirements
- **When:** RFQ: 2025 / Award: 2025
- **What:** Mission Planning H/W: Workstation (FY26) - Supply best-in-class commercial tower workstation capable of supporting unique Mission Planning requirements for CAF
- **When:** RFQ: 2025 / Award: 2025
- **What:** Mission Planning Hardware: Mass Storage - Supply commercial best-in-class mass storage device capable of supporting unique Mission Planning requirements
- **When:** RFQ: 2025 / Award: 2025
- **What:** Joint Mission Planning System Baseline Sustainment – S/w sustainment & help desk support for two baselines; facilitate performance improvements / prototyping w/direct aircrew involvement
- **When:** RFP: 2025 / Award: 2025



Advanced Battle Management System (ABMS)

- **What:** Remote Digital Infrastructure (RDI) - Develop, test and field Remote Digital Infrastructure kits, stacks, and gateways to provide additional DI form factor supporting Tactical C2 community stakeholders.
- **When:** RFP: 2025 / Award: 2025
- **What:** TYQ-23A & CDLS – Provide contractor logistics support for the Control and Reporting Center's Tactical Air Operations Module (TYQ-23A) and the Communication Data Link System (TSC-250)
- **When:** RFP: 2025 / Award: 2026
- **What:** Voice Communications – Develop, integrate, and maintain software application for voice communications within a cloud-based system in a connected and disconnected state
- **When:** RFI: 2025 / Award: TBD
- **What:** Battle Management Optimization Software – Develop, integrate, and maintain fused battle management optimization software for BLOS fire and control for specialized targets in the DAF Battle Network
- **When:** Late 2025



2025 DAF PEO C3BM focus:

- Establish technical Review Process
- Sort the Stack
- Streamline and Scale

DBN IPTs Translate Governance into Action

- Mission Increment & Stack IPTs

Deliver to Deprecate

- C3BM will build operational credibility through our ability to deliver on schedule & cost
- Deliver in 2025 to build upon success of 2024



PEO C3BM Front Door <SAF.PEOC3BM.FrontDoor@us.af.mil>



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thank you thank you thank you thank you thank you thank you thank you thank you
thank you thank you thank you thank you thank you thank you thank you thank you
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