

# *Department of the Air Force*

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*Integrity - Service - Excellence*

## **(U) DAF RCO: A History of Open Architecture Interoperability**



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The Open Group FACE™ and SOSA™  
Consortia Technical Interchange Meeting



# DAF Rapid Capabilities Office

## History and Mission



*AT&L Aldridge*



*SecAF Roche*



*CSAF Jumper*



*Kelly Johnson*



**DAF RCO**

### Mission Objectives

- Expedite the fielding of critical combat capabilities to the warfighter
- Enhance material responses to Combat Air & Space Force and Combatant Commanders needs
- Push the bounds of performance for capability delivery

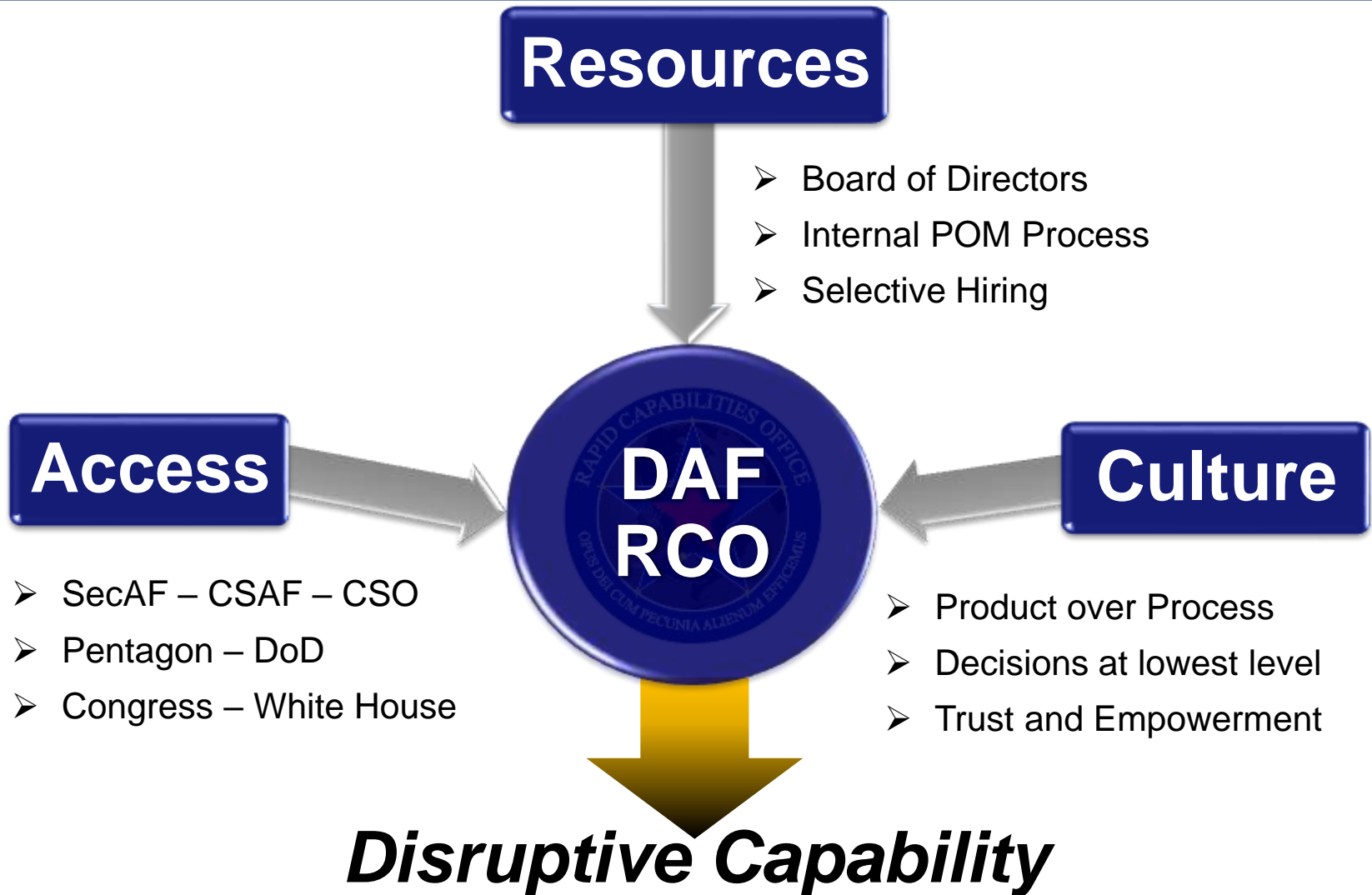


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# DAF Rapid Capabilities Office

## The "Model"





# DAF Rapid Capabilities Office

## The "Recipe"

### ➤ Streamlined Acquisitions

- Meet intent of statute, FAR, DFAR, and AFFAR requirements
- Specifically identify how all statutory and regulatory requirements are met
- Minimize documentation and duplication
- Embedded operators inside the organization
- Early and prominent warfighter engagement
- Decision-Maker vs Staff engagement

### Concept Plan

*Tech Development*

### Development Plan

*EMD*

### Production Plan

*Deployment and Sustainment*

Program Start

DAF RCO brief  
Board of Directors (BoD)

BoD approval constitutes  
Materiel Development  
Decision (MDD)

Acquisition Decision  
Memorandum (ADM) is used  
to clearly delineate  
decisions made by the BoD



# DAF Rapid Capabilities Office

## USAF and USSF Programs

*X-37B Orbital Test Vehicle  
Mission 6 (USSF-7) Launch  
17 May 2020*



*Mission 5 Landing  
27 Oct 2019*

### ➤ X-37B Orbital Test Vehicle

- Experimental test program to demonstrate technologies for reliable, re-usable, unmanned space test platforms
- Five X-37B missions successfully launched & landed
- 6th mission launched on 17 May 20 with a variety of payloads: FalconSat-8 (USAF), SEEDS (NASA), & PRAM (Naval Research Lab)
- X-37B Total Days in Space: 3150+ (vs. Shuttle: 1320)

### ➤ B-21 Raider

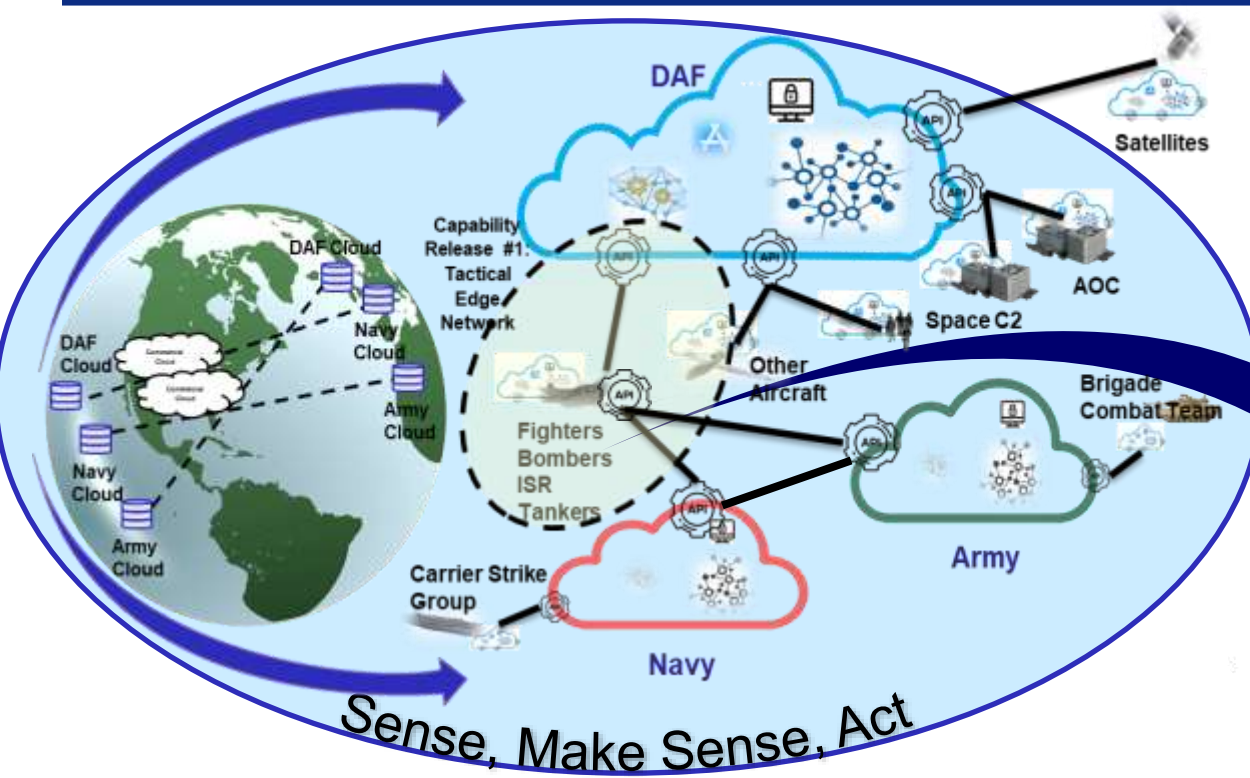
- Backbone of the future Air Force bomber force will hold any target on the globe at risk
- Conventional and nuclear capable bomber with the range, access, and payload to penetrate the most highly contested threat environments
- 2 test aircraft in flow on production line; scaling manufacturing infrastructure and capacity across supply base to prepare for low rate initial production
- USAF to procure at least 100 B-21s



B-21 ARTIST RENDERING  
BACKGROUND PHOTO LOCATION: ELLSWORTH AIR FORCE BASE



# Advanced Battle Management System ABMS Vision



Sense, Make Sense, Act

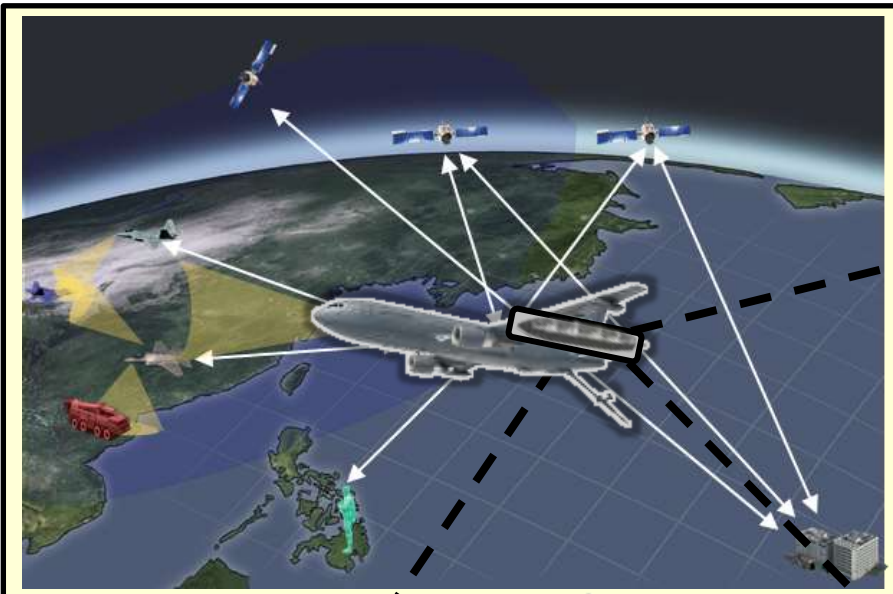
ABMS Attributes
1. Secure Processing
2. Connectivity
3. Data Management
4. Applications
5. Sensor Integration
6. Effects Integration

**ABMS is connecting the Joint Warfighter to the 21<sup>st</sup> century by investing in the digital infrastructure to deliver efficient, timely, and credible data**





# Advanced Battle Management System Capability Release #1



## Tactical Customer

- Real-time updates to tactical plan execution
- Results in dynamically planned attack routes
- Results in superior courses of action for decision makers with a decisive information advantage



## Strategic Customer

- Quickly delivers actionable information for strategy development
- Results in superior courses of action for decision makers with a decisive information advantage



## Operational Customer

- Eliminates multi-day mission planning processes
- Results in robust communication with tactical edge
- Results in superior courses of action for decision makers with a decisive information advantage

### CR #1 and ABMS Objective:

*Quickly deliver actionable information at the most optimal time to Tactical, Operational, and Strategic level customers*