



DEPARTMENT OF THE AIR FORCE AIR EDUCATION AND TRAINING COMMAND

28 Nov 21

MEMORANDUM FOR DISTRIBUTION

FROM: HQ AETC/A9
100 H Street East, Suite 11
JBSA Randolph AFB TX 78150

SUBJECT: Minutes from the Quarterly AETC Innovation Summit (iSummit), 10 Nov 2021.

1. The quarterly AETC Innovation Summit was conducted virtually at Randolph AFB, TX on 10 Nov 2021 from 0930-1130. The theme for this event was Innovation Accelerators You Need to Know. Invitees included HQ AETC Directorates, NAF/NAF-E leadership, AFWERX, AFLCMC/Platform One and numerous AETC innovators. One-hundred-seventeen locations dialed-in with ranks/grades ranging from SSgt/GS-12 to Brig Gen.
2. The purpose of the iSummit was to advance collaboration by providing AETC Airmen at all levels a platform to share experiences on innovation activities and replicate successes stories, while identifying potential internal/external business partners as well as to discuss and counter obstacles to innovation.
3. Lt Gen Brad Webb (AETC/CC) provided crucial remarks, driving home key points on innovation and the Air Force's way forward. He mentioned he was proud of AETC efforts in all things innovation. He also re-emphasized Platform One's comments to empower Airmen to move forward with their great ideas and how important it is to push these those innovation efforts to implementation. In closing, Lt Gen Webb emphasized that losing is not an option if we want to meet Air Force strategic objectives and deter our near-peer competitors.
4. Experts from across AETC and other AF organizations provided the following presentations (full presentations are at Attachment 1):
 - a. Resources, support and scaling opportunities available through AFWERX - Major Steve Lauver. Major Lauver introduced the AFWERX capability developments, discussing the four innovation strategies that AFWERX offers: AFVentures, SPARK, PRIME, and the AFWERX portfolio of capabilities. Finally, Major Lauver highlighted key strategic innovation partners they support, such as Beta Technologies thru Electric Aviation and Kitty Hawk Autonomy, as well as Medevac exercise programs.
 - b. HQ AETC A6C support to innovators - Mr. Lewis Thornton. Mr. Thornton discussed the capabilities A6C brings to bear and how innovators can leverage the Innovation Pathfinder program. Their innovation support includes developing standard IT security related contracting language and the use of the Innovation Pathfinder program, which is a 2-Phase process that allows testing of innovative IT enhancements not yet approved for use by the DoD/AF.
 - c. Platform One: a DoD-wide Path to accreditation of COTS or GOTS software via DevSecOps - Mr. Joey Arora. The presenter highlighted why the DoD continually falls behind its adversaries in software, and how using the DevSecOps platform provides software development while incorporating a security mindset. The approach of Platform One is to help Airmen solve Airmen's problems by helping users find functional solutions to their problems through empowerment and collaboration.

d. New Era in Training Evaluation - Mr. Ricky Collison. Mr. Collison described the current field evaluation process and how it measures training effectiveness, identifying notable issues that hinder the process. To combat this, Mr. Collison proposed several developments for training evaluation, such as incorporating field evaluation data collection into the training record system, which provides immediate data for analysis. These actions enable better identification of training requirements, eliminate survey software subscriptions and produce the data on demand needed to assess training effectiveness.

4. A question and answer session followed the formal presentations (Attachment 2).

5. Col Wegner (HQ AETC/A9 Director) thanked the presenters for their continued efforts to find innovative ways to improve the AETC mission. He stressed the innovation spirit exists in each one of the attendees and innovation is more than objects and technology; that is why it is important to communicate the roadblocks to innovation and to work with leadership to get those roadblocks removed. To that end, he encouraged attendees to go back to their units and share with them the useful resources they discovered at this iSummit.

6. Col Wegner closed by asking the participants to mark their calendars for the next iSummit, tentatively scheduled for 10 Feb 2022. He encouraged attendees and the recipients of these iSummit Minutes to fill out the iSummit feedback form found at the link below to help make the next iSummit even better: https://docs.google.com/forms/d/e/1FAIpQLSdfqm54nwkFU5QANd11z4qL-T_oK7y2vCiS_vhqbDALtruz_w/viewform?usp=sf_link.

7. My POC for the iSummit event is Mr. Greg O'Donnell (HQ AETC/A9A). If there are additional questions or requests for information, please contact him at aetc.a9a.workflow.2@us.af.mil.

WEGNER.THOMAS.F.1149125147
S.F.1149125147
THOMAS F. WEGNER, Colonel, USAF
Director, Analysis and Innovation

Digitally signed by
WEGNER.THOMAS.F.1149125
147
Date: 2021.11.28 13:44:09
-06'00'

2 Attachments:

1. iSummit Slides
2. Question and Answer Session Summary

DISTRIBUTION:

HQ AETC/CC
HQ AETC/CD
HQ AETC/CCC
HQ AETC/A1
HQ AETC/A2
HQ AETC/A3/6
HQ AETC/A4
HQ AETC/A5/8
HQ AETC/ED
HQ AETC/FM
HQ AETC/HC
HQ AETC/HO
HQ AETC/IA
HQ AETC/IG
HQ AETC/IP
HQ AETC/JA
HQ AETC/PA
HQ AETC/RF
HQ AETC/RS/HQ AETC/SB
HQ AETC/SE
HQ AETC/SG
Air University
2nd Air Force
19th Air Force
Air Force Recruiting Service
59 MDW
502 ABW
12 FTW
14 FTW
17 TRW
33 FW
37 TRW
47 FTW
49 WG
56 FW
58 SOW
71 FTW
80 FTW
81 TRW
82 TRW
97 AMW
314 AW
381 TRG
602 TRG
SWTW



U.S. AIR FORCE



HQ AETC INNOVATION SUMMIT



Col Thomas F. Wegner
HQ AETC/A9
10 Nov 2021

THE FIRST COMMAND!

1



U.S. AIR FORCE

HQ AETC INNOVATION SUMMIT Innovation Accelerators You Need to Know



TIME	ORGANIZATION(S)	SME	TOPIC
0930 - 0940	HQ AETC/A9	Col Wegner	Opening Remarks
0940 - 1005	AFWERX	Maj Lauver	Resources, support and scaling opportunities available through AFWERX
1005 - 1030	HQ AETC A3/6C	Mr. Lewis Thornton	The Pathfinder Process and resources/expertise A6C offers innovators
1030 - 1035	AETC/CC	Lt Gen Webb	Innovation Remarks
1035 - 1100	AFLCMC	Mr. Joey Arora	Platform One: a DoD-wide path to accreditation of COTS or GOTS software via DevSecOps
1100 - 1125	2 AF	Mr. Ricky Collison	Transitioning Field Evaluation Questionnaires for immediate evaluation
1125 - 1130	Facilitated Discussion	Col Wegner Mr. Greg O'Donnell	Closing Comments

THE FIRST COMMAND!

2

AFWERX
 TECHNOLOGY | TALENT | TRANSITION

2021 iSummit Presentation

Maj Steve Lauver

3

Capability Development with AFWERX

EXPANDED TECHNOLOGY
 AFWERX AFVENTURES

EXPANDED TALENT
 AFWERX SPARK

EXPANDED TRANSITION
 AFWERX ACQ PRIME
 VALLEY OF DEATH

EXPANDED PORTFOLIO OF CAPABILITIES

- JADC2
- Autonomy
- Hypersonic
- Adv Log
- Swarm
- AI
- Quantum
- GDP

AFWERX 4

Spark Overview

MISSION: We relentlessly inspire and enable Airmen and Guardians to unleash their potential and to drive capability development that increases the efficiency, effectiveness and quality of life of the warfighter.

TAG LINE: Empowering Innovators, Accelerating Results

We do this by **Connecting**, **Developing**, and **Supporting** Airmen and Guardian Innovators



Network Branch (RGSC)

Specializes in promoting the expansion, connectivity, energy and culture of the innovation ecosystem



Development Branch (RGST)

Specializes in training and developing Airmen & Guardian Innovators through curriculum and experiences



Innovation Catalyst Branch (RGSi)

Specializes in accelerating capability development through advocacy, advisement and support

AFWERX

5

A Pathway for Innovation to Scale

By making **progressively larger investments** in our Airmen & Guardian innovators as they show promise and demonstrate success, we mitigate risk, control costs, and increase the likelihood that truly disruptive innovators (and the capabilities they are creating) realize their full potential.



¹ Items listed in one category are also available to all innovators in later categories (further right on the continuum)

² Variations across MAJCOM programs

AFWERX

6

Spark Programs

Empowering Innovators, Accelerating Results...

CONNECT

Spark Cells - base-level, Commander-owned, AFWERX-supported innovation cells

MAJCOM Cells - MAJCOM-level, Commander-owned, AFWERX-supported innovation cells

Colliders - scalable methods to pair industry providers with DAF customers and end-users

Augmentee Opportunities - large-scale efforts to empower decentralized government talent to solve hard DAF problems

DEVELOP

Fellowships - full-time experiential and curriculum-based innovation training:

- **Defense Ventures Fellowship** - 6-week, intensive immersion with startups and venture firms (~4/yr)
- **AFWERX Fellowship** - 5-month immersion with AFWERX (3/yr)

Internships - semester-aligned, experiential training that pairs AFROTC & USAFA cadets w/DAF innov. efforts (3/yr)

Innovation Training - virtual and in-person training for innovators:

- **Design Warfare** - 4-week, intensive design thinking training
- **Spartan-V** - 1-week version of D.W.

SUPPORT

Spark Tank - annual competition for Airmen/Guardian-generated efforts; elevates, celebrates & supports winners

Strike Team - dedicated AFWERX team to support innovators through consultation, advocacy, and support

Products & Tools - advocates for and develops best-in-class innovation tools

- **Vision** - DAF Innovation PM Platform and Connectivity Layer

Spark Incubator - DAF innovators with high-potential projects embed with AFWERX as they pursue their innovations (supported by AFWERX)

AFWERX

7

Spark Cells

CONNECT

Common Characteristics:

- Commander owned
- Direct Report to Wg/CC
- MAJCOM aligned (objective)
- AFWERX supported
- Manage SIF for instillation
- Leverage SBIR/STTR
- FOC:
 - 1 lead (FGO/CIV/SEL)
 - 1 deputy (CGO/CIV/NCO)
 - 1-2 team (AMN/NCO)

AFWERX Role

- Connect the ecosystem
- Host training events
- Empower (versus own)
- Create common products
- Proliferate best-practices
- Support creation of new cells
- Advocate for grassroots innovation
- Support development of innov. tools



- ▼ AFSOC
- ▼ USSF
- ▼ AFCENT
- ▼ ANG
- ▼ AETC
- ▼ USAFE
- ▼ AFGSC
- ▼ AMC
- ▼ ACC
- ▼ AFMC
- ▼ PACAF



Dyess AFB - Created Design Warfare Innovation Course; trained 100+ personnel



Vance AFB - key partner in the authoring and execution of UPT 2.0 & 2.5

Hickam - 1st tactical level software factory: TRON



19 ASOS (Fort Campbell) - Established first AF/Army Joint innovation Cell with 101st Airborne



Eglin AFB - 149 projects to date, piloted new CONS methods at tactical level



Travis AFB - 28 active SBIR/STTRs at installation

AFWERX

8

AFVENTURES A DUAL-USE APPROACH TO NATIONAL SECURITY SOLUTIONS

MISSION

Leverage commercial technology to deliver better capability to the warfighter, faster.

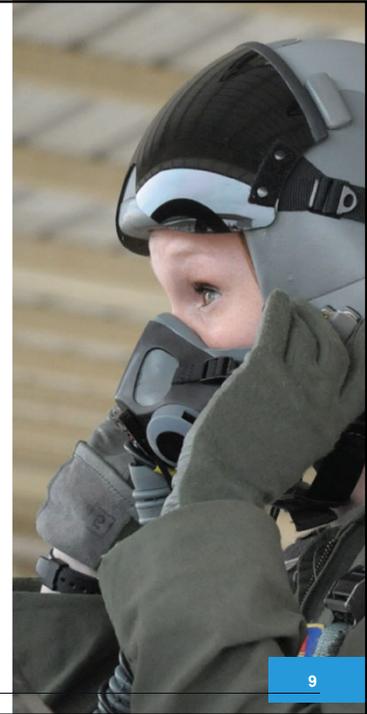
SIMPLICITY

An easy open door enables the Air Force to solve problems using existing & emerging commercial solutions

A NATIONAL APPROACH TO SECURITY

Incentivizes private capital investment in national security interests

AFWERX
AFVENTURES



9

AFVentures at a Glance



MANY SMALL BETS (PHASE I)

- ▶ "Open door for innovation"
- ▶ Up to \$50,000 per award
- ▶ 1000-1500 awards per year
- ▶ Three solicitations per year



SOME MEDIUM BETS (PHASE II)

- ▶ Up to \$750K per initial award
- ▶ Matched funding encouraged
- ▶ 300-500 awards per year
- ▶ Live and virtual customer matchmaking



A FEW BIG BETS (TACFI/STRATFI)

- ▶ Annual Solicitation
- ▶ TACFI - \$375K - \$1.7M
- ▶ STRATFI - \$3M - \$15M
- ▶ Defense Only or Dual-Use Matching option

AFWERX
AFVENTURES

AFWERX
SBIR★STTR

10

Agility Prime Overview

WHAT - THIRD REVOLUTION IN AEROSPACE

Electric Vertical Takeoff and Landing (eVTOL)
Organic Resupply Bus (ORBs)
Coalescence of three technologies

1. **Electric:** Large electric power systems (auto industry)
2. **Autonomy:** AI/Autonomy/Simplified Vehicle Operations
3. **Manufacturing:** Advanced manufacturing and materials

WHY - ACCELERATE FIELDING OF EMERGING DUAL USE TECH

1. **Strategic:** Build domestic industrial base (est. \$1.5T market)
2. **Process:** New transition paths (contracts, certification, budget)
3. **Product:** Field new air mobility in FY23 (20+ use cases)

HOW - COLLABORATIVE RISK REDUCTION

1. **Tech Risk:** Opportunities for collaborative test and eval
2. **Regulatory Risk:** Early military airworthiness review
3. **Financial Risk:** Contracts for testing and early use cases

IN JUST OVER A YEAR SINCE INCEPTION:

- **Industry:** 29 companies applied to air race
- **Airworthiness:** Four complete; Two in process
- **Contracts:** \$100M+, 9 SBIR Phase 2s awarded, 220+ STTRs
- **Co-investment:** Over \$1B in commercial investment
- **Training:** AETC Agility Prime detachment + simulators
- **Hardware:** Aircraft delivered to Springfield + charging station
- **Operations:** C-130J transport OH to TX + ACC Exercise Bushwacker
- **Demonstrations:** JROC, SecAF, CSAF, and CMSAF

WAY AHEAD

- MAJCOM/CCMD Sponsors/Exercises
- Digital Engineering
- Airmen first flights

FLIGHT DEMO FOR SECAF, CSAF & CMSAF NEAR DOWNTOWN AUSTIN

Engaged User Community:

- ACC
- AFMC
- AFGSC
- AFSOC
- AETC
- USMC
- USCG
- USA

Potential Missions:

- CSAR
- Distributed Logistics
- Emergency Response
- Base/Range Logistics
- Firefighting
- Dedicated Trainer

Engagement

- MAJCOM/CC briefs
- Business case analytics
- Concept and use case development

11

Key Milestones

Beta Technologies -- Electric Aviation: continues to advance eVTOL technology with manned flight testing of their ALIA all electric aircraft and strategic installation of their vertiport charging stations across the Northeast US.

[Beta first manned electric aircraft flight airworthiness](#)
[First charging station](#)

Joby Aviation -- Batteries and Electric Infrastructure: leads the eVTOL industry with key technology contributions, increasing battery flight cycle, additive manufacturing, quiet propeller design and also investing in infrastructure to develop takeoff and landing sites in North America.

[Joby Batteries \(2k - 10k cycles\)](#)
[Infrastructure Partnership](#)

Kitty Hawk -- Autonomy and Medevac Exercise: matures and optimizes its Heavyside II prototypes with autonomous flight and demonstrating the first medical evacuation by an electric aircraft in a demonstration to the USAF.

[First exercise KH \(AFRL article\)](#)

Lift Hexa -- JROC Urban Demo and C-130 Load: Lift Aircraft's Hexa all electric multicopter shows promise as a proving ground for key eVTOL enabling technologies including autonomy development, hybrid electric propulsion, and a variety of cargo or emitter payloads for operations.

[LIFT demonstration JROC \(AFRL\)](#)
[C-130 Load of LIFT Hexa](#)



AFWERX

12

Questions



AFWERX



U.S. AIR FORCE



A6C SUPPORT TO INNOVATORS

Mr. Lewis Thornton, GS-13
Mr. Dennis Hawn, CTR
HQ AETC/A6C
10 Nov 2021



U.S. AIR FORCE

Talking Points



- What is Agency IT
- Lifecycle Management and IT Ownership
- A6C Support to Innovators
- What is Innovation Pathfinder
- Sample of Innovations within Innovation Pathfinder
- Innovation Pathfinder Risk Endorsement Form
- Additional Resources

THE FIRST COMMAND!

15



U.S. AIR FORCE

What is Agency IT?



Hardware



Software



Cloud Services



All IT that receives, processes, stores, displays, or transmits DoD information or supports a DoD/AF mission

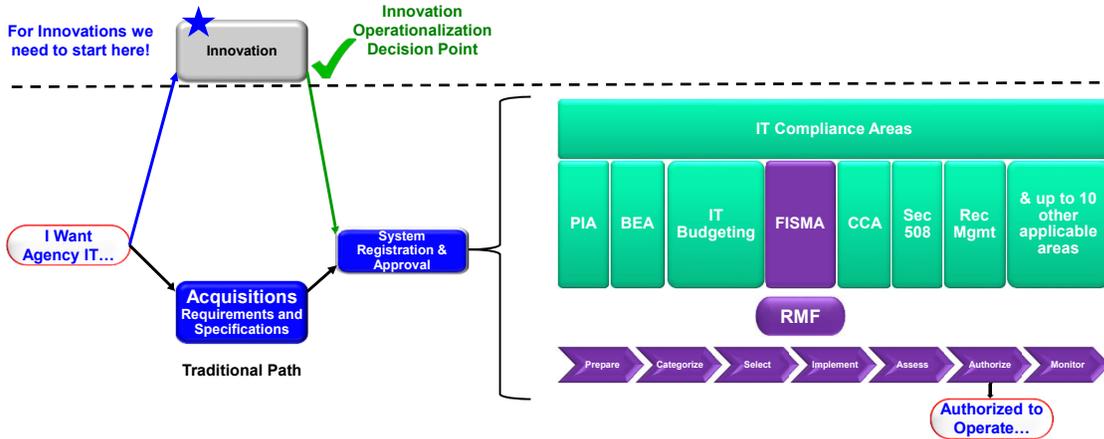
THE FIRST COMMAND!

16



U.S. AIR FORCE

Lifecycle Management & IT Ownership



Operationalized Innovations Require Information System Ownership & IT Compliance Responsibilities

THE FIRST COMMAND!

17



U.S. AIR FORCE

A6C Support to Innovators



- Supported A9A with Blanket Ordering Agreement (BOA) Development
- Developed Standard IT Security Related Contracting Language (PWS)
 - Risk Management Framework (RMF) i.e. ATO Development
 - Info Sys Security Officer (ISSO) / Info Sys Security Manager (ISSM)
 - Training and Certification Requirements (DoD 8570.1M)
 - Software Development Requirements
 - Cloud Computing Requirements
 - IT Program Management Support
- Developed Innovation Pathfinder Process
 - Recruit Train and Educate (RT&E) Authorizing Official (AO) endorsed process
 - 2-Phase process to allow testing of innovations/innovative IT enhancements
 - New or emerging IT that is not yet approved for use by DoD/AF
 - Associated costs are less than \$200K

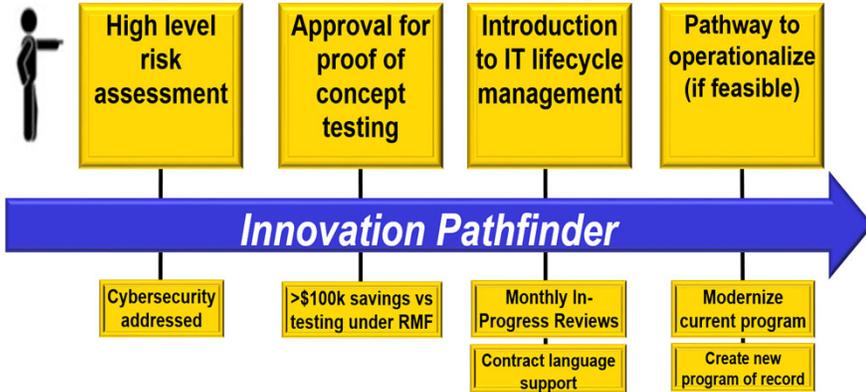
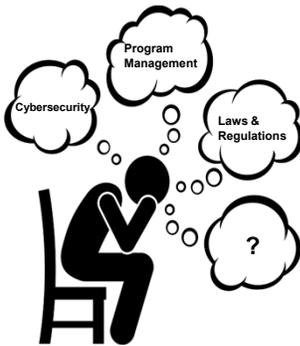
THE FIRST COMMAND!

18



U.S. AIR FORCE

Innovation Pathfinder



Use of Operational Data Requires Approval from AETC DCOM (RT&E AO)

THE FIRST COMMAND!

19



U.S. AIR FORCE

Sample Innovations Within Innovation Pathfinder



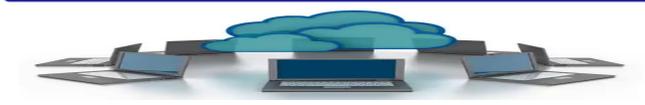
Classroom Collaboration Tools



AR/VR Solutions



Cloud Hosted Solutions



THE FIRST COMMAND!

20



U.S. AIR FORCE

Innovation Pathfinder Risk Endorsement Form



AETC IT Innovation Pathfinder Proof-of-Concept Endorsement

SECTION 1 - IT PATHFINDER DETAILS

1.1 Name

1.2 Acronym

1.3 Funding Source

1.4 Line of Accounting

1.5 Brief Description of IT Innovation Pathfinder/Proof-of-Concept:

1.6 Insert Topology Diagram

Version 2.1

1

1.7 Types of Information Processed, Stored, Deployed or Transmitted (Check all that apply)

Classified	Sensitive But Unclassified				Non-Sensitive Unclassified	
Top Secret	LES	CUI	DTA	UNCL	DoD	
Secret	SRFAA	FOUO	SRFD		Public Information	
Confidential	PI	FOIA	STINFO			

SECTION 2 - SUBMITTING AUTHORITY SIGNATURES

Strator Champion Rank Office DSN

Signature

SECTION 3 - NAF ENDORSEMENT

Please see your respective NAF for endorsement

NAF Rank Office DSN

Signature

NAF Recommendation:

SECTION 4 - IT PDM STAFF SIGNATURE

Rank Office DSN

Signature

IT PDM Staff Recommendation:

Version 2.1

2

SECTION 5 - AO STAFF SIGNATURES

Rank Office DSN

Signature

AO Staff Recommendation:

SECTION 6 - SCA SIGNATURE

Rank Office DSN

Signature

SCA Recommendation: Approve Disapprove

SECTION 7 - AODR ENDORSEMENT

Rank Office DSN

Signature

AODR Endorsement: Granted Declined

Version 2.1

3

THE FIRST COMMAND!

21



U.S. AIR FORCE

Innovation Pathfinder Additional Resources



Innovation Pathfinder – Helping innovators find the best path forward



Additional Information

[SharePoint URL](#)

[Innovation\Pathfinder Process](#)

[Innovation Pathfinder BBP](#)

[Innovation\Pathfinder Proof of Concept Endorsement Form](#)

Points of Contact

Team Lead	Mr. Lewis Thornton	210-652-7101 (DSN: 487-7101)	morris.thornton.2@us.af.mil
Team Member	Mr. Dennis Hawn (Ctr)	210-652-1312 (DSN: 487-1312)	dennis.hawn.ctr@us.af.mil
Team Org Box	AETC/A6CR Innov-Path Workflow	N/A	AETC.A6CR.Innov-PathWorkflow@us.af.mil

THE FIRST COMMAND!

22



U.S. AIR FORCE



QUESTIONS

THE FIRST COMMAND!

23



PLATFORM ONE

UNCLASSIFIED

Platform One

A DoD-wide Path to Accreditation of
COTS or GOTS software via DevSecOps

November 2021

UNCLASSIFIED



UNCLASSIFIED

DoD Continually Falls Behind Adversaries in Software

Yet... all modern DoD systems including weapon systems are **software**-intensive systems

Build → Learn → Build ... **takes too long...**

...and we **still fail**

Fielding simplest, useful function	3 – 5 yrs
Testing complete system against side-effects	2 yrs
Testing cybersecurity via audit/penetration	2 yrs
Fielding high priority function	1 – 5 yrs
Fixing security holes	1 – 18 mos
Publishing software to use	1 – 18 mos



43%
Utter and Complete Failures

51%
Failed Expectations Over Budget Behind Schedule

*Standish Group CHAOS report

UNCLASSIFIED



UNCLASSIFIED

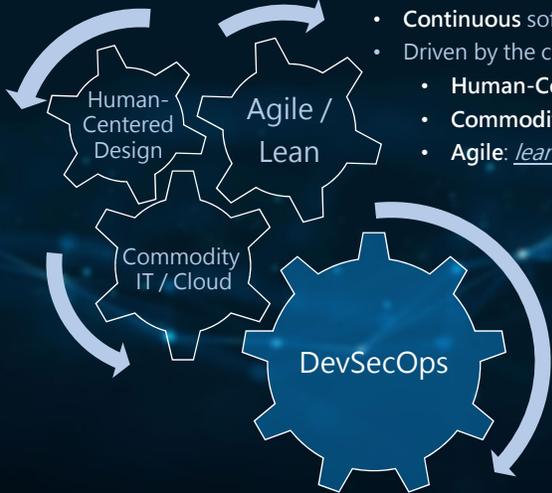
Yet... all modern DoD systems including weapon systems are **software**-intensive systems

UNCLASSIFIED

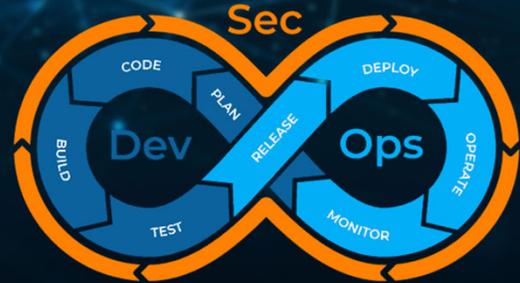


UNCLASSIFIED

What is DevSecOps?



- **Continuous** software development with ops/sustainment w/security throughout
- Driven by the convergence of:
 - **Human-Centered Design (HCD)**: a humanistic way to learn and work
 - **Commodity IT**: cheap, ubiquitous infrastructure = low-barrier of entry
 - **Agile**: *learning fast* to find solutions for complex/ill-defined challenges



UNCLASSIFIED



UNCLASSIFIED

Agile Private Sector vs. Waterfall DoD

Metric	Private Sector (SpaceX)	DoD (F-35)
Vehicles	9	1 (with several variants)
Developers	200	4,000
Code Reuse Rate (Vehicles/Platforms)	80%	5%
Software Update Time	Day prior to launch	7 years (on average)
Software Builds (Daily)	17,000	Not capable today
Hardware-in-the-Loop (HIL) Tests (Daily)	3	Not capable today
Technology Used	Containers	GOTS and closed IP from Primes

UNCLASSIFIED



UNCLASSIFIED

Accelerate Solutions with DevSecOps

Build → Learn → Build → Win



Bring developers and operators together...



...with trusted leading edge technology

- Apps written and operated on Platform One
- Coordinated 100 crew members on 25 C-17s, 10 KC-10s, 18 commercial planes
- Evacuated 124,000 noncombatants from Afghanistan

"The massive inflow of information and coordination issues could not have been managed without the collaboration capabilities provided by Mattermost." — Afghan Ops Theater Direct Delivery section

UNCLASSIFIED



UNCLASSIFIED

Platform One: Why, How, What

MISSION

Guide, empower, equip, and accelerate DoD program offices and weapon system through their DevSecOps journeys

VISION

Fundamentally transform how the DoD delivers secure software at speed through DevSecOps culture, process, and technology



Secure & Connect Users



Cloud Native Access Point provides zero-trust security for development, test, and production enclaves

Harden & Store Components



DoD repository of hardened binary container images approved for DoD-wide use across enclaves

Build & Deploy Platforms



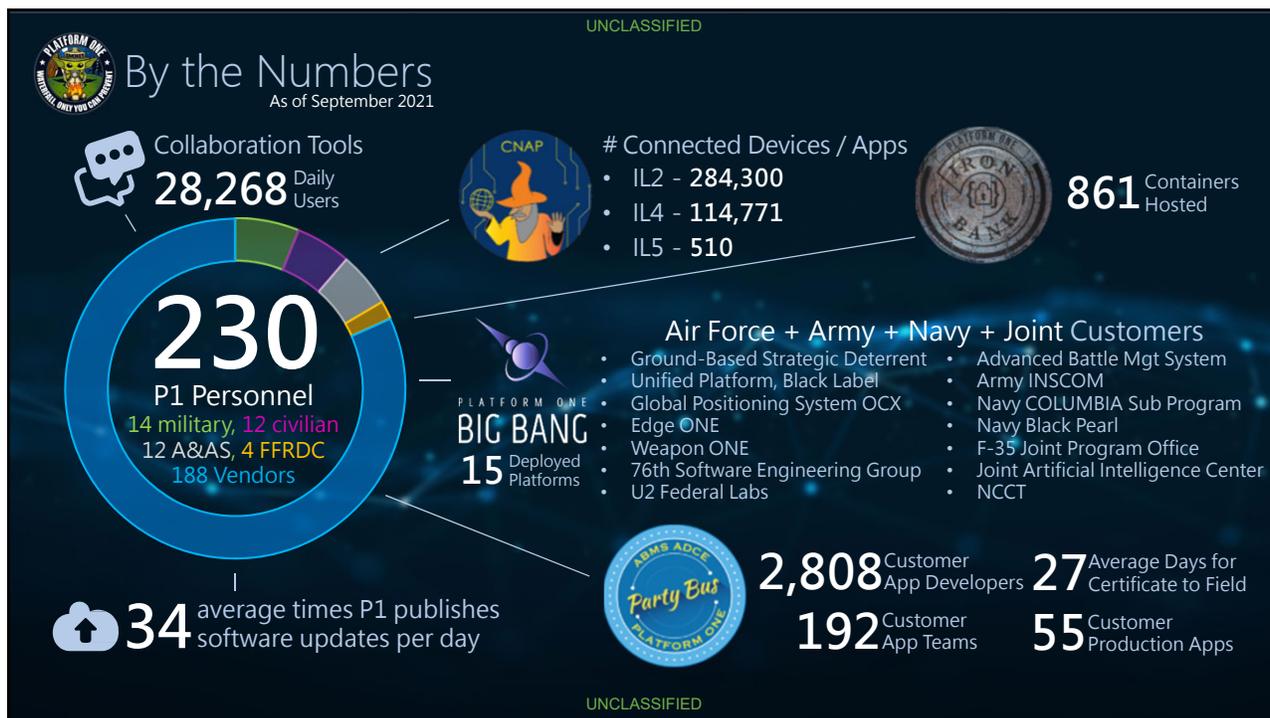
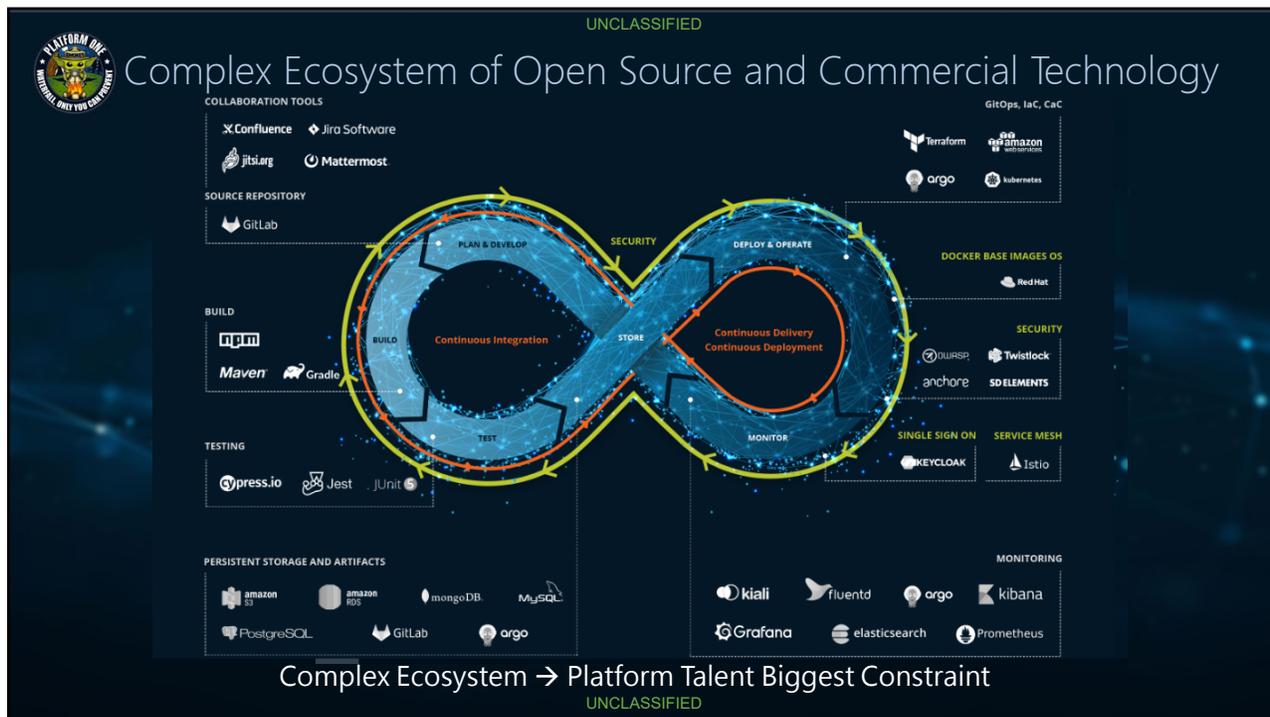
Infrastructure as Code (IaC) and Configuration as Code (CaC) deployable to cloud or on-premise infrastructures

Code & Operate Apps



DevSecOps Platform-as-a-Service at IL-2 to IL-4 accredited and managed by Platform One

UNCLASSIFIED





UNCLASSIFIED

Platform One: Airmen Solving Airmen's Problems ...because the Status Quo is Not OK



Value diversity through **inclusion** means appreciating unique characteristics of **people, ideas, and solutions.**



Nourish **open, safe, candid** discussions to invite and celebrate **collaboration** at all levels



Empathize with our **users** and solve their challenges by **delivering** actual, **functional solutions**



Empower individuals and teams with the trust to be make decisions and be accountable

UNCLASSIFIED



UNCLASSIFIED

DevSecOps Options for the Organization

Changes requires organization to get their own authority to operate or certificate to field

Higher Control
Higher Cost
Lower Focus



Lower Control
Lower Cost
Higher Focus



1. Start one or a combination of options that gets your apps to your users that quickest
2. Evolve to other options as your needs grow, talent matures, and/or funding increases

UNCLASSIFIED

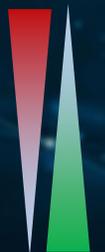


UNCLASSIFIED

Tailor Options and Contribute to the DoD Open Source

Changes requires organization to get their own authority to operate or certificate to field

Higher Control
Higher Cost
Lower Focus



Lower Control
Lower Cost
Higher Focus



- Pick and choose what exists, add anything else, get your own ATO and CTF
- Core changes to CNAP, IB, or BB will affect everyone and is subject to P1 approval

UNCLASSIFIED

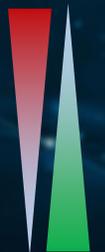


UNCLASSIFIED

DevSecOps Options for the Organization

Changes requires organization to get their own authority to operate or certificate to field

Higher Control
Higher Cost
Lower Focus



Lower Control
Lower Cost
Higher Focus



1. Start one or a combination of options that gets your apps to your users that quickest
2. Evolve to other options as your needs grow, talent matures, and/or funding increases

UNCLASSIFIED



UNCLASSIFIED

DevSecOps Options for the Organization

Changes requires organization to get their own authority to operate or certificate to field

Higher Control
Higher Cost
Lower Focus



Lower Control
Lower Cost
Higher Focus

1. This option requires you to have Govt Funding and adhere to Platform One Standards
2. Connect with our Customer Success team at PlatformOne@afwerxpartner.com



UNCLASSIFIED

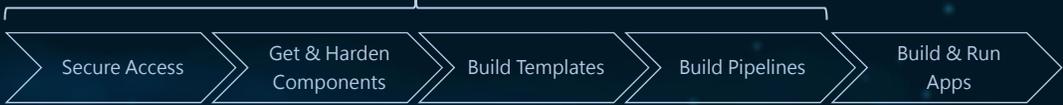


UNCLASSIFIED

Tailor Options and Contribute to the DoD Open Source

Changes requires organization to get their own authority to operate or certificate to field

Higher Control
Higher Cost
Lower Focus

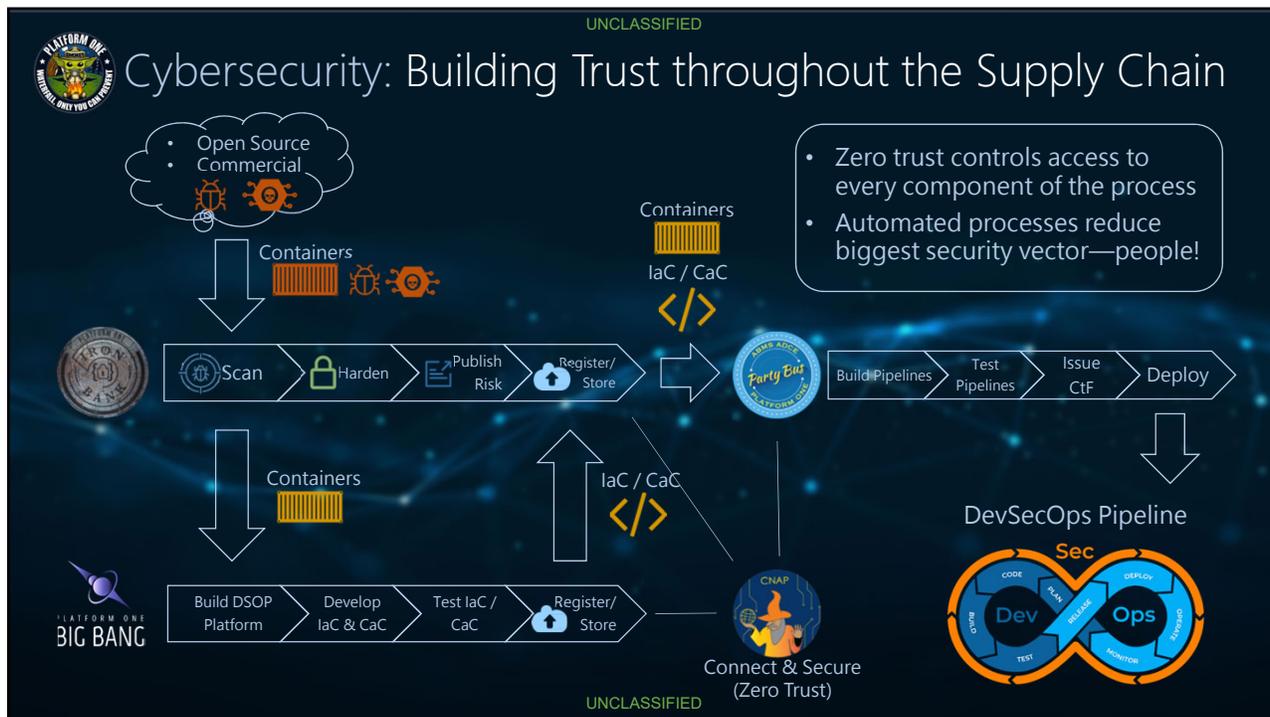


Lower Control
Lower Cost
Higher Focus



- Pick and choose what exists, add anything else, get your own ATO and CTF
- Core changes to CNAP, IB, or BB will affect everyone and is subject to P1 approval

UNCLASSIFIED





U.S. AIR FORCE



New Era in Training Evaluation



GS-13 Ricky Collison
2 AF/A3OS
10 Nov 2021

THE FIRST COMMAND!

41



U.S. AIR FORCE

Overview



- Current Field Evaluations
- Issues
- Proposed Process
- Pros & Cons

Briefer: GS-13 Ricky Collison, 2 AF/A3OS

THE FIRST COMMAND!

42



U.S. AIR FORCE

Current Field Evaluation



- Graduate performance in workplace; measure of training effectiveness.
- Field Evaluation Questionnaire predominate tool.
 - Tasks to be surveyed coordinated between multiple stakeholders.
 - Tasks and graduate data from OTA uploaded into homegrown database.
 - Database constructs and sends survey links via email to unit training managers.
 - Unit training managers identify and distribute to field supervisors.
 - Supervisors respond to online survey.
 - Training evaluators follow up with unit training managers for sufficient replies.
 - Unit training managers encourage field supervisors to complete surveys.
 - The database creates standard analysis report utilized by training evaluators.
 - Training evaluators synthesize data into summary reports distributed to stakeholders.
 - One course field evaluation project averages 3-4 months.
 - Process repeated for a minimum of 250+ initial skill and mandatory 7-level courses.

Briefer: GS-13 Ricky Collison, 2 AF/A3OS 43

THE FIRST COMMAND!



U.S. AIR FORCE

Issues



- Project timelines are lengthy.
- Survey questions up to 200+.
- Personnel changes during assessment period.
- Performance witnessed by multiple assessors.
- Multiple follow ups to gain statistical relevance.
- Manual graduate data transfer between systems.
- Constant updates to unit training manager POCs.
- Unit training managers unaware of responsibility.
- Negative sentiment towards surveys influences bias.
- Airmen's time lost when statistical confidence is not met.

Briefer: GS-13 Ricky Collison, 2 AF/A3OS 44

THE FIRST COMMAND!



U.S. AIR FORCE

Proposed Process



- **Incorporate field evaluation data collection into training record system.**
 - Tasks certified in the field and trained in schoolhouse triggers system request for graduate's initial performance level based on recent observation.
 - Training record system provides a means for assessor comments.
 - Training record system role established for training group evaluators to mine data.
 - Data immediately available for analysis.

Briefer: GS-13 Ricky Collison, 2 AF/A3OS 45

THE FIRST COMMAND!



U.S. AIR FORCE

Pros & Cons



- **Pros.**
 - Data on demand.
 - Return Airmen's time.
 - Better assess training requirements.
 - Eliminate 250+ field evaluation surveys.
 - Lengthy survey reduced to minute moments.
 - Elimination subscription for survey software.
 - Elimination of support for homegrown database system.
 - Accuracy of task assessment through recency of observation.
 - Eliminate maintenance of AF-wide unit training manager POC list.
 - Data accuracy increased through actual observer's assessment of performance.
- **Cons.**
 - Initial investment for functionality.

Briefer: GS-13 Ricky Collison, 2 AF/A3OS 46

THE FIRST COMMAND!



U.S. AIR FORCE

Conclusion



■ CONCLUSION:

- We need to take advantage of emerging systems.
- We need to reduce our footprint on field organizations.
- We need a better, more responsive gauge to increase the quality of training evaluations and quality of graduates.

Briefer: GS-13 Ricky Collison, 2 AF/A3OS 47

THE FIRST COMMAND!



U.S. AIR FORCE



Questions?



48

THE FIRST COMMAND!



U.S. AIR FORCE

HQ AETC Innovation Summit Discussion



AETC's All Partners Access Network (APAN):
<https://community.apan.org/wg/aetc/>

HQ AETC Innovation Dashboard:
<https://datastudio.google.com/reporting/bceedd1c-7abf-4016-a58f-0a75b6fd9d0c/page/CVyuB>

A9 Contact:
aetc.A9A.workflow.2@us.af.mil

THE FIRST COMMAND!

49



U.S. AIR FORCE

Innovation Summit Feedback



Please take a few minutes to use the link below (or in the chat box) to provide us feedback on this iSummit. This will help us make future events even better!

[https://docs.google.com/forms/d/e/1FAIpQLSdfqm54nwkFU5QANd11z4qL-T oK7y2vCiS_vhqbdAltruz_w/viewform?usp=sf link](https://docs.google.com/forms/d/e/1FAIpQLSdfqm54nwkFU5QANd11z4qL-T oK7y2vCiS_vhqbdAltruz_w/viewform?usp=sf_link)

THE FIRST COMMAND!

50



U.S. AIR FORCE

HQ AETC Innovation Summit



Closing Remarks

HQ AETC/A9
Col Wegner

Next iSummit: Tentatively Scheduled
10 Feb 2022/0930-1130

THE FIRST COMMAND!

51

Attachment 2
Question and Answer Session Summary

AFWERX: Resources, support and scaling opportunities available through AFWERX

Question: Mr. Wiley Hill (HQ AETC A6) - How does AFWERX get involved in the innovation process regarding the speed of the innovation, or does this default to someone else regarding the speed of the innovation?

Answer: Maj Steven Lauver - The investments needed and/or scaling required for the project (to include the size of the innovation), will determine if AFWERX gets involved and will impact the speed of innovation.

Question: Mr. Matthew Correia (Eaker Center) - Can an innovator (i.e., me) proceed through the AFWERX process to solicit small businesses for potential solutions?

Answer: We can review your request through AFWERX, then push the submission to independent organizations that might be able to help with your innovation solution set.

Question: Ms. Julie Cantwell (517 TRG) - Can a project be selected but not funded for Phase II and still use Phase III money (the organization's own funds) to continue development for STRATFI or TACFFI?

Answer: Currently there are no instructions for this situation, but we're looking to push these out at the beginning of next year.

Question: TSgt Jorge Grullon-Rodriguez (HQ AETC A9/A9A) - Where can an Airman go to get more information on AFWERX?

Answer: We recently established this website <http://afwerx.com> (responsive and up to date), but we still have <http://afwerx.af.mil> (military centric) that you might find useful.

HQ AETC A3/6: The Pathfinder Process and resources/expertise A6C offers innovators

Question: Mr. Matthew Correia (Eaker Center) - Can your office assist in getting software, applications, and/or user licenses for innovation prototype testing?

Answer: Contact us, but we are not the approval authority to purchase; that will come from your organization. Once you have an innovation you want to test, we can provide assistance to allow that testing to occur.

Question: Maj Philip Geddes (25 OSS) - Is there an "Innovation Pathfinder" equivalent at Air Combat Command?

Answer: Not that I'm aware of, but you can reach out to us to see if we can support, or we will help route you to the appropriate office.

Question: Capt Charles Ruffin (13 DOS) - I'm a Guardian. We don't have a NAF. Is there a similar process to support Guardians?

Answer: Not that I'm aware of, but you can reach out to us to see if we can support, or we will help route you to the appropriate office.

Question: Col Wegner (HQ AETC A9) - When should an innovator reach out to A3/6 to start the process to get their innovation an ATO so it can access the AFNET?

Answer: The sooner you talk to AETC A6, the sooner A6 can help you with your innovation design and ATO establishment.

Question: Capt Rock Reid (Luke AFB) - Could you please give an example of a project you've helped innovators with?

Answer: 365 TRS (Sheppard AFB) had a tablet solution to share information in the classroom. We helped them through the process, what they needed for project management support, and assisted with authorizations to move forward with project.

Question: Capt Rock Reid (Luke AFB) - When should we approach you?

Answer: If you are ready to move from concept to operationalize, then you should talk to us immediately. If you are using sensitive information for your project, please also contact us immediately.

Question: Mr. Roger Kovacs (336 TRS) - How does one get authority to create a sandbox for off-net development/test efforts?

Answer: If you are looking for approval for physical hardware, submit an Innovation Pathfinder Proof of Concept Endorsement form. If you are looking for approval for a cloud solution, contact Platform One or Cloud One as both have sandbox capabilities.

AFLCMC: Platform One: a DoD-wide path to accreditation of COTS or GOTS software via DevSecOps

Question: TSgt Jorge Grullon-Rodriguez (HQ AETC A9/A9A) - Can an Airman use Platform One to prototype applications?

Answer: We can help an Airman in a development environment, where we have about 50 licenses and can help with development space with regard to cost and Platform One requirements.

Question: TSgt Jorge Grullon-Rodriguez (HQ AETC A9/A9A) - Can On-Base Legacy systems send data to Platform One Cloud Systems?

Answer: Data sharing is not allowed from the party-bus environment; we don't allow outside connections to our environment.

Question: TSgt Jorge Grullon-Rodriguez (HQ AETC A9/A9A) - What type of coding languages or platforms do you recommend Airmen be familiar with in order to have a smooth transition into Platform One?

Answer: Some examples would be modern coding language, and we recommend visiting Digital University as they offer a good coding language baseline.

Question: TSgt Michael Bridges (HQ AETC A9/A9A) - Innovation is an important step in any creative cycle. How can we protect both the innovator and the Air Force as it pertains to ownership rights of intellectual property? This is especially critical when developing software and its evolutionary life cycle.

Answer: Is there something you want to develop for an Air Force environment or is there something you are doing on your own? We would need to know which to decide where we can help you in this matter.

Question: TSgt Justin Foster (37 TRSS) - What are the costs involved for developing/hosting proof of concept (not production) applications? Is Platform One viable for use at an 'airman solving airman problems' level to develop and demo a software solution before units are willing to spend any significant amount of money?

Answer: We enable Airman to do that by offering 50 Platform One licenses that may help. Show us your proof of concept and we can rotate licenses to your organization as needed.

Question: Mr. Richards Clayton (HQ AETC A9/SAS) - Can contractors leverage some of those 50 Platform One licenses?

Answer: It depends on the requirements and what you are doing with them in support of AETC requirements.

2nd Air Force: Transitioning Field Evaluation Questionnaires for immediate evaluation

Question: Matthew Correia (Eaker Center) - Your proposed process is well overdue! Using an OJT certification process is the most obvious way to meet your goal. Is OJT certification digitalized in a way that supervisors can record the task and job certification on a tablet/smartphone?

Answer: That would be designed into the new system, although I'm not sure of all the requirements. They are still building the program.

Question: MSgt James Heffron (USSF/Delta 3) - Will this requirement be required for all the UGT (upgrade training) systems that are used in both the Air Force and Space Force as some AFSCs may not be moving to TAFT 2.0? If not, how will you get that data?

Answer: I'm not sure of all the current requirements. The Air Force wants a single system and I believe Space Force should be included.

Question: Ms. Rhonda Battles (59 TRG) - Will all Training Groups have access to extract the data from the proposed platform, regardless of location or host installation IT support? Currently, we operate from an Army installation and some of the Legacy systems currently used are not accessible. As a result, we pay for an independent survey platform.

Answer: I would hope accessibility will be the same for all Air Force units with cross-network functionality across all systems.