



1st Air and Space Communications Operations Squadron

Integrity - Service - Excellence



**Reimagining the future:
A unified approach to delivering
operationally relevant C2 solutions**

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Overview

- Why are we here?
- USAFE Dilemma and Response
- CJADC2 Integration with the Air Force
- Solutions
- Where We're Going
- Challenges
- Way Forward



Why are we here?

- **Current fight has proven existing C2 models are at risk**
 - **AFDP-1 – Airmen execute mission command through centralized command, distributed control, decentralized execution.**
- **ACE is predicated on distributed C2 capabilities**
- **BlackNet provides the digital infrastructure required for reliable, resilient, survivable transport capabilities**
- **Deployable JWICS provides:**
 - **Tactical ability to coordinate mission actions**
 - **Real time data correlation and dissemination**
 - **Increases speed and accuracy of “Sensor to Shooter”**

CJADC2 Begins With Intelligence; the Fight is on JWICS



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USAFE Dilemma and Response

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Anti-Access/Area Denial challenges EUCOM's ability to:

- Command & Control
- Find/Fix targets
- Integrate stand-off fires
- Mass at Main Operating Bases

USAFE's response – ACE:

- Disperse off MOBs, regenerate combat power

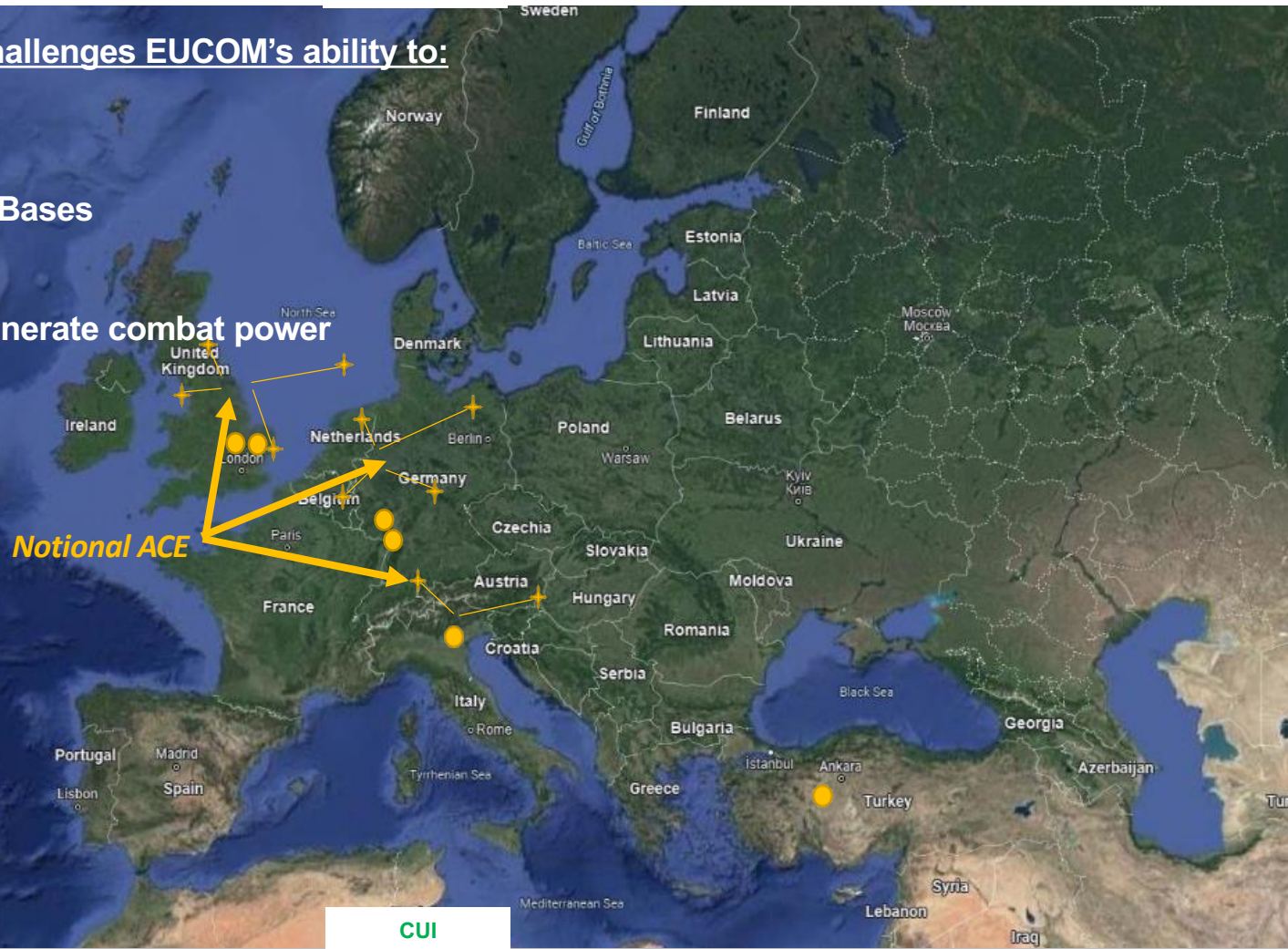
USAFE'S New Problem:

- Once dispersed, how do we turn military airplanes back into Integrated Airpower?

USAFE'S response:

- 435 AGOW New Mission
- Integrated Airpower
- JWICS to the Edge
 - Eastern Flank
 - Neptune Eagle

Notional ACE



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EUCOM lacks a multi-domain integrator at the tactical edge

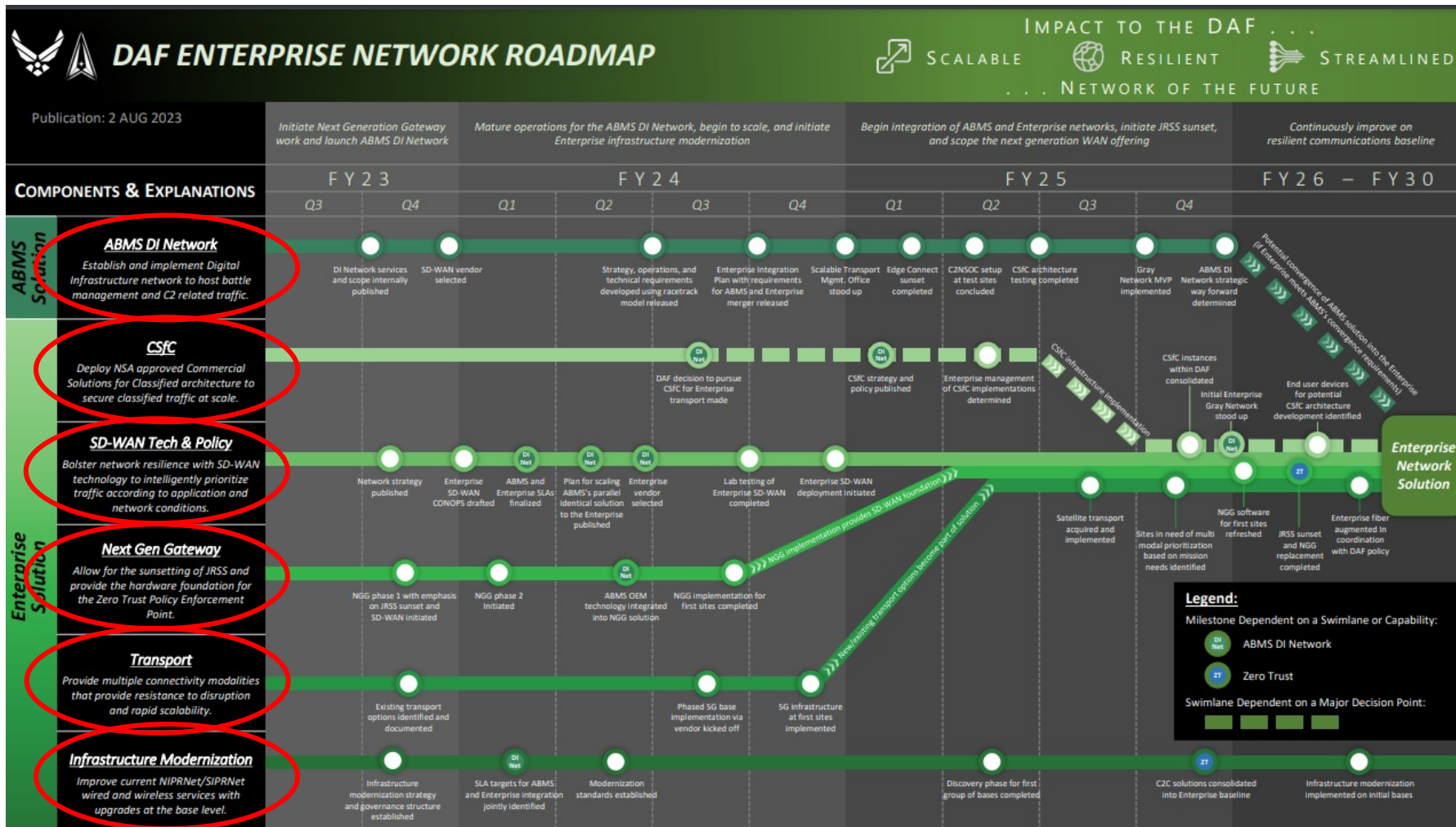
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CJADC2 Integration w/Air Force



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Solution

- Created freedom of maneuver with disciplined initiative
- Distributed control, decentralized execution with authorities and rights to enable C2 at forward edge
- Top-Down authorities to meet operational need
 - USAFE Designated Authorizing Official
 - Units with authorities and rights
- Bottom-Up approach of iterative experimentation to determine real requirements
- Relevant Risk Management
- Leveraging technology to improve the art of warfare

Decentralized execution promotes effectiveness and resilience at the tactical level.



Where We're Going

- **BlackNet is the de facto standard for agnostic transport**
- **Commercial Solutions for Classified (CSFC)**
 - JWICS and SIPR VDI solutions for on-the-move requirements
- **Infrastructure and Network Resiliency**
 - JWICS, SIPR and NIPR
- **Cloud and Edge Computing – scaled to need**
- **Collaboration with PACAF and CONUS**
- **Set the Theater**
 - Warm base
- **Deployable JWICS and C2 Capabilities**
 - Smaller, lighter, leaner



Challenges

- Create competitive advantage for CFACC and JFC while creating dilemma for the enemy
- Multiple C2 systems not aligned to CJADC2 approach
- Current solutions are mobile, not agile
- Security Requirements and Increased Vulnerabilities
- ACE CONOPS are not the same

CJADC2 success predicated on warfighter feedback and continued Academic, Industry and Whole of Government collaboration

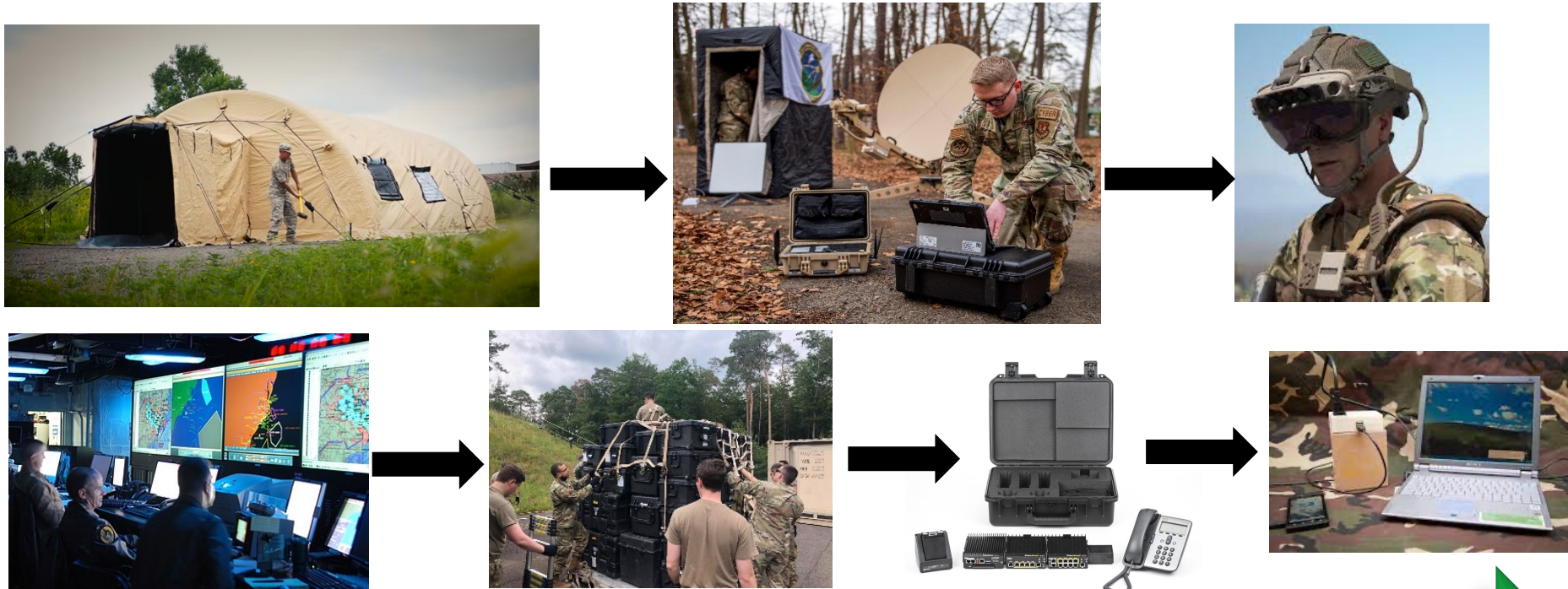


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Way Forward

Vision:

Integrated, operationally driven, agile solutions that enable CJADC2



Mobile

Agile

Reimagined

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Questions?

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