



PM FW

# HADES HAMA Discussion

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# HADES High Accuracy Detection & Exploitation System | Example

## DID YOU KNOW?

### HADES is a multi-intelligence jet A-ISR platform providing:

- Support to Global ISR requirements
- Government Owned and Government Operated (GOGO)
- Bombardier Global 6500 business jet aircraft
- Pre-prototype activities to inform HADES with a Campaign of Learning

### WHAT WILL HADES PROVIDE?

#### HADES provides Army Commanders with an organic capability to:

- Enhanced early Indications & Warning (I&W)
- Enhanced Situational Awareness and Understanding
- Conduct deep sensing to support Long Range Precision Fires
- Increase intra/inter-theater collection flexibility
- Assists in satisfying Army and Joint priority intel gaps

### WHAT IS THE "CAMPAIGN OF LEARNING"?

#### ISR TF began the Campaign of Learning in FY20 to:

- Explore high-TRL solutions to satisfy HADES A-CDD requirements
- Conduct HADES pre-prototype Aerial Technical Demonstrations
- Leverage TRAC to define requirements and potential solutions

### COLLECTION

- Deep sensing to support Long Range Precision Fires
- Cross-COCOM airborne intelligence capability
- Simultaneous ELINT & COMINT collection capability
- Commercial Radar collection capability
- Providing 200-Hours Per Month (HPM) of collection



### FLIGHT CAPABILITIES

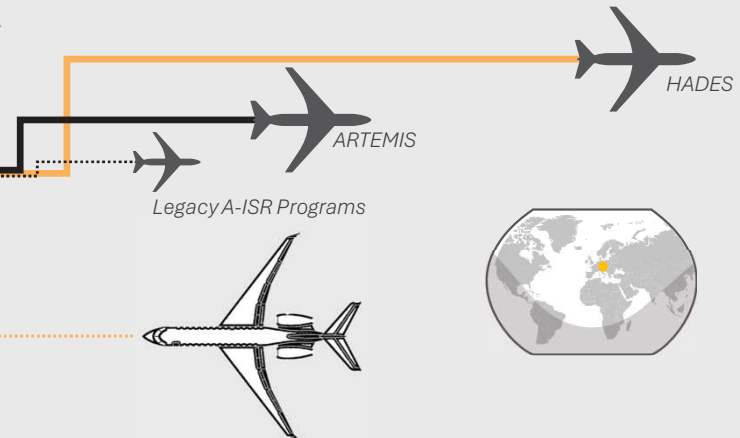
**6.5x** the Range      6,000nm/ 12+ hrs

**2x** the Max Altitude      51,000'

**2.5x** the Speed

**>95%** Dispatch Rate

- Greater Speed, Altitude, Endurance at Range (when compared to legacy aircraft)



### WHAT IS HADES?

#### A platform/sensor pairing that provides:

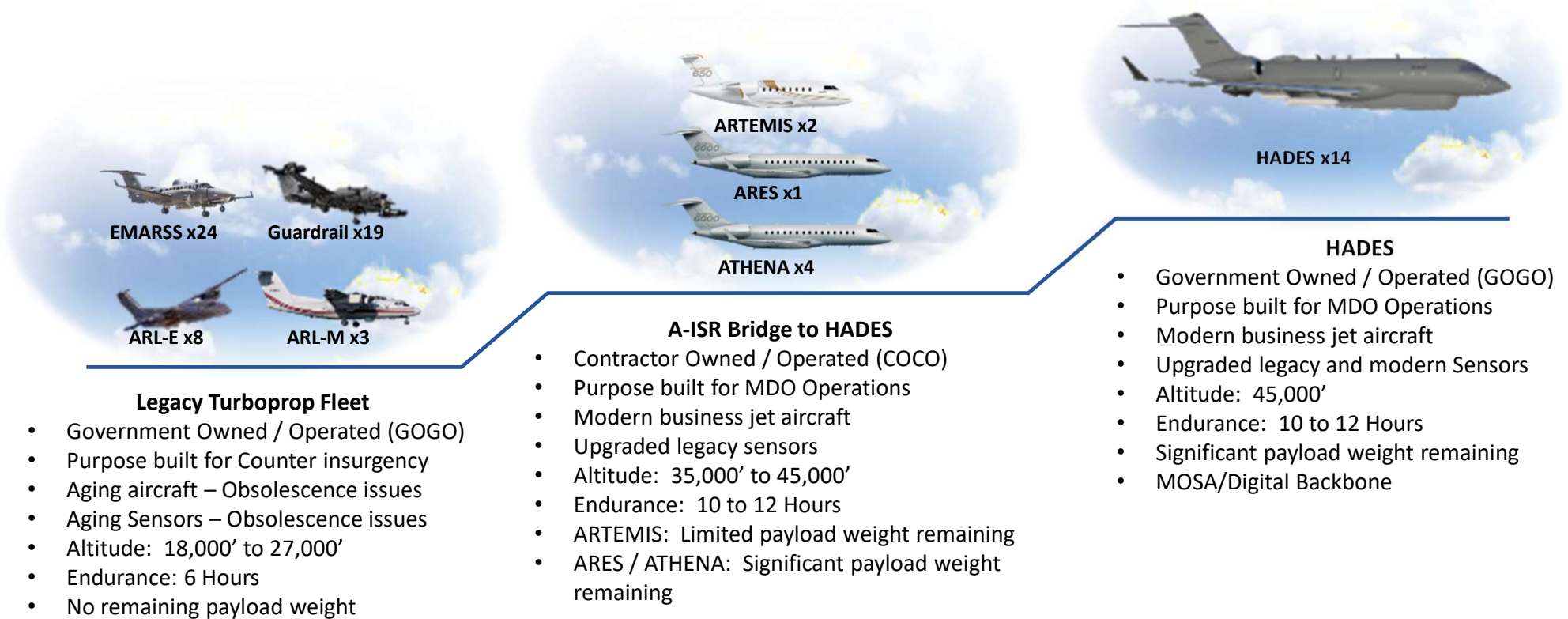
- Greater size, weight, power & cooling to host deep sensing payloads in a single, economically viable platform
- Higher altitudes to enable deep sensing
- Longer endurance to enable persistence
- Greater range to cover increased geography
- Capability for external stores to enable use of air launched sensors and effects

## WHY IMPORTANT?

HADES provides critical information to allow commanders decision advantage throughout the competition continuum



# Transitioning the Legacy Army A-ISR Fleet to HADES



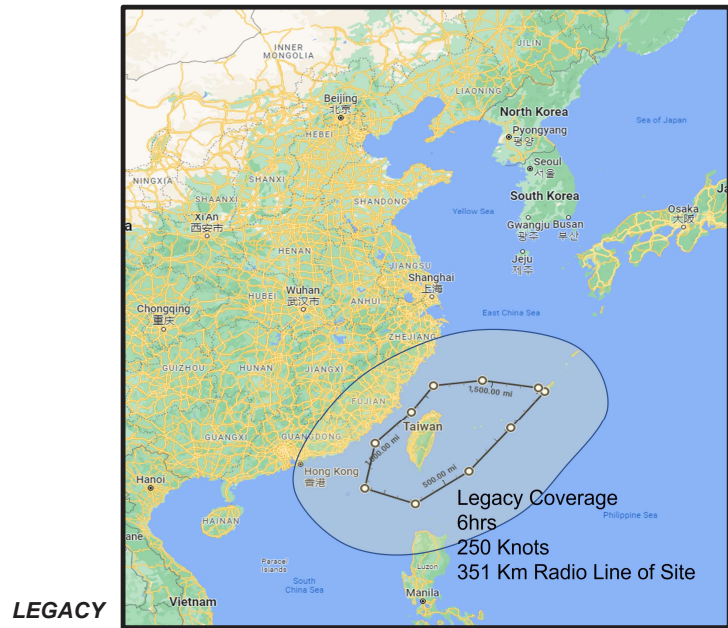
- Legacy Turboprop Fleet**
- Government Owned / Operated (GOGO)
  - Purpose built for Counter insurgency
  - Aging aircraft – Obsolescence issues
  - Aging Sensors – Obsolescence issues
  - Altitude: 18,000' to 27,000'
  - Endurance: 6 Hours
  - No remaining payload weight

- A-ISR Bridge to HADES**
- Contractor Owned / Operated (COCO)
  - Purpose built for MDO Operations
  - Modern business jet aircraft
  - Upgraded legacy sensors
  - Altitude: 35,000' to 45,000'
  - Endurance: 10 to 12 Hours
  - ARTEMIS: Limited payload weight remaining
  - ARES / ATHENA: Significant payload weight remaining

- HADES**
- Government Owned / Operated (GOGO)
  - Purpose built for MDO Operations
  - Modern business jet aircraft
  - Upgraded legacy and modern Sensors
  - Altitude: 45,000'
  - Endurance: 10 to 12 Hours
  - Significant payload weight remaining
  - MOSA/Digital Backbone

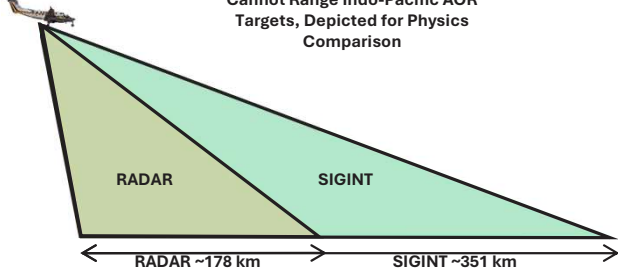


# Notional Legacy vs HADES System Comparison

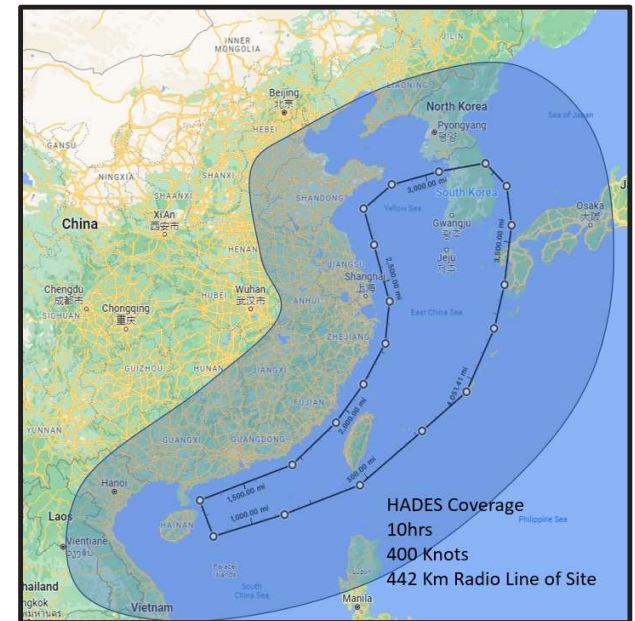


**LEGACY**  
@ 27,000 Ft MSL

Cannot Range Indo-Pacific AOR Targets, Depicted for Physics Comparison

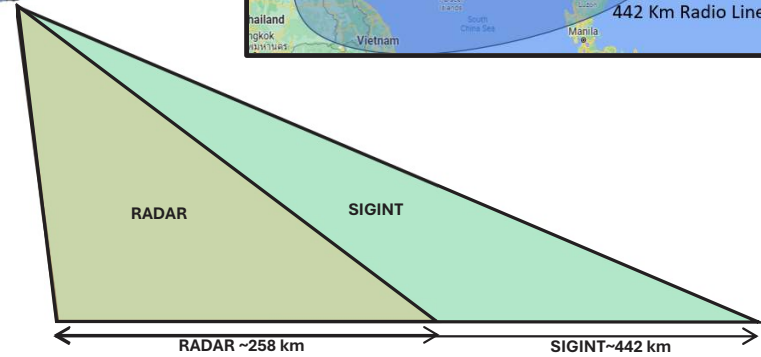


## Notional flight paths only



**HADES**  
@ 45,000 Ft MSL

Range from target



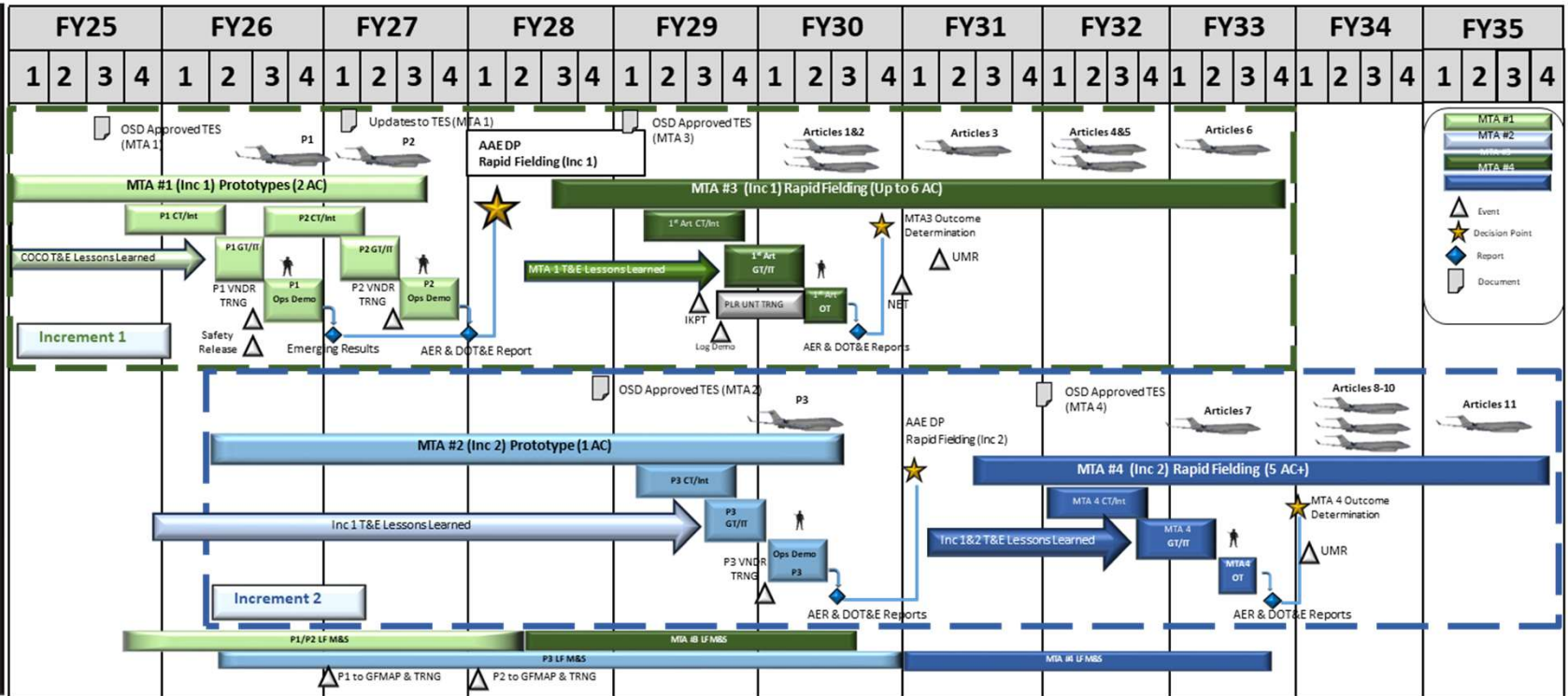


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# HADES Program Schedule

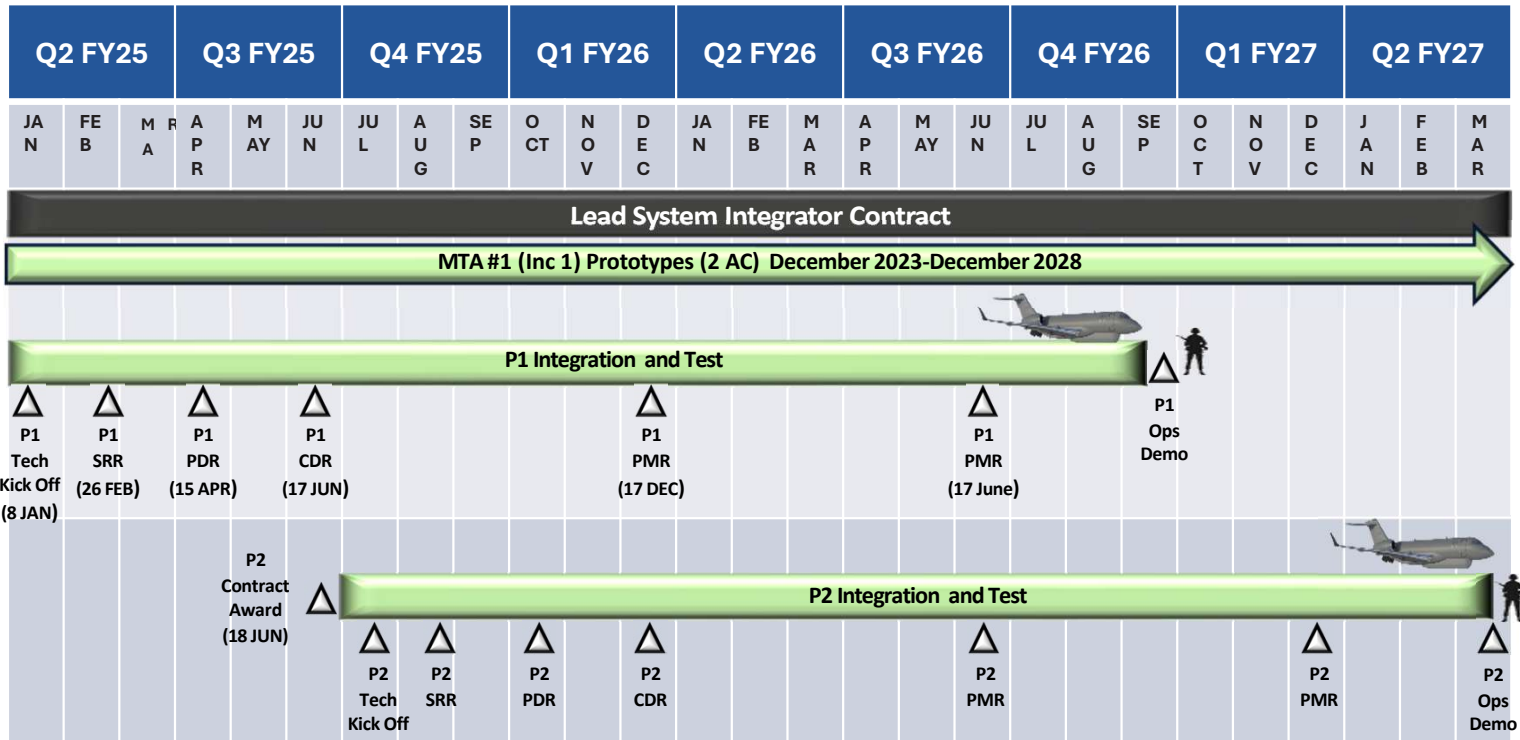
## Multiple Year, Hybrid FFP/CFPI type contract

- CLINs tailored to support rapid transition to Rapid Fielding
- Competitive Pricing for Initial Task Order and sustainment operations
- Hooks included for continued modernization
- Incentivizes Modular delivery of systems





# HADES MTA 1 Schedule

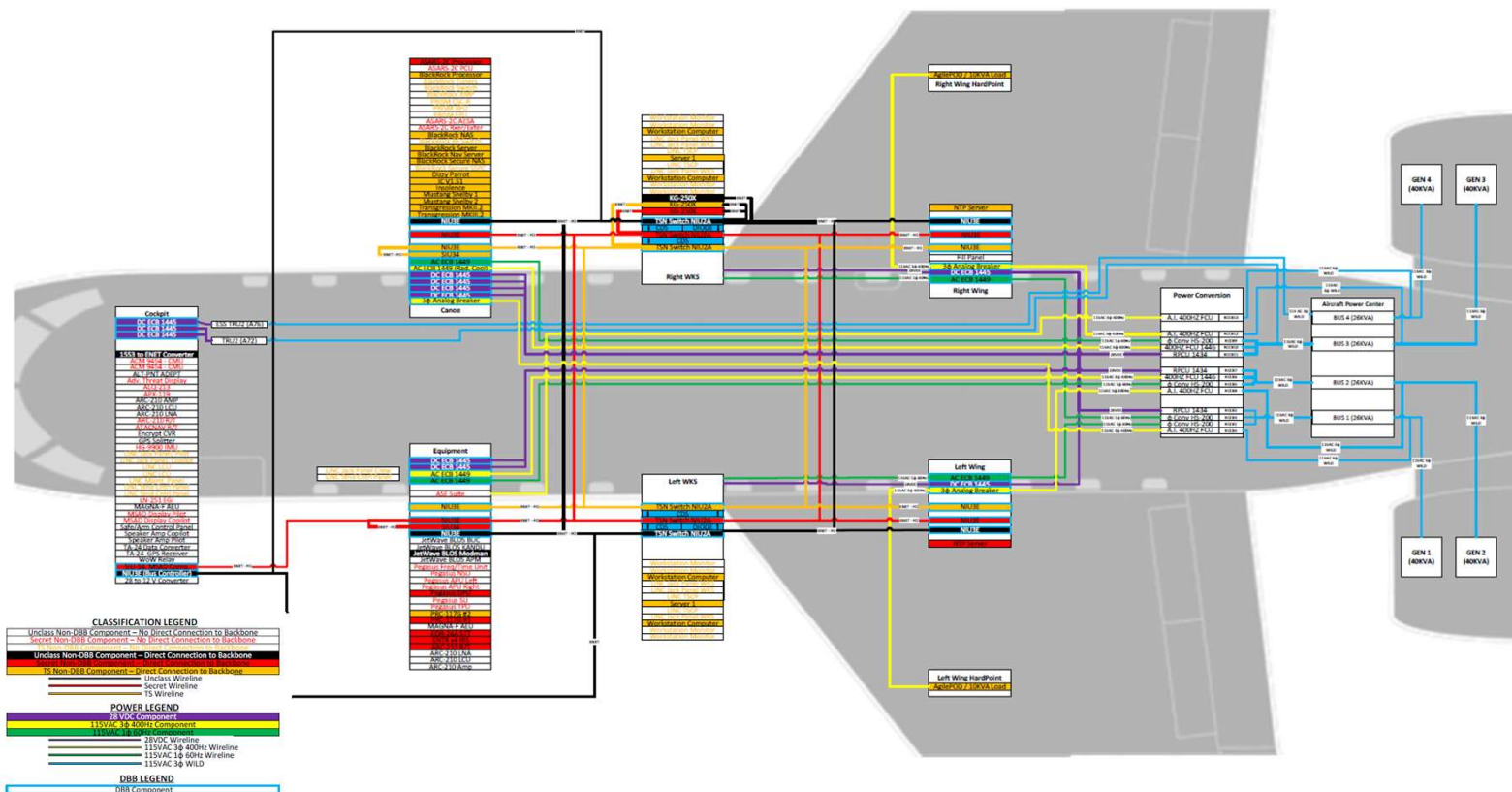


- USG pre-prottest baseline schedule projected Prototype 1 delivering 4QFY26
- Anticipating Prototype 2 build at 20 months due to sensor deliveries and new work to integrate new sensors



# HADES DBB Notional Design

- This notional design was developed by SNC to provide a high-level understanding of how the different components would work together
- This shows the connectivity of both power and data to the DBB from Mission System components





U.S. ARMY



# QUESTIONS