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U.S. ARMY



# FARA Program Update



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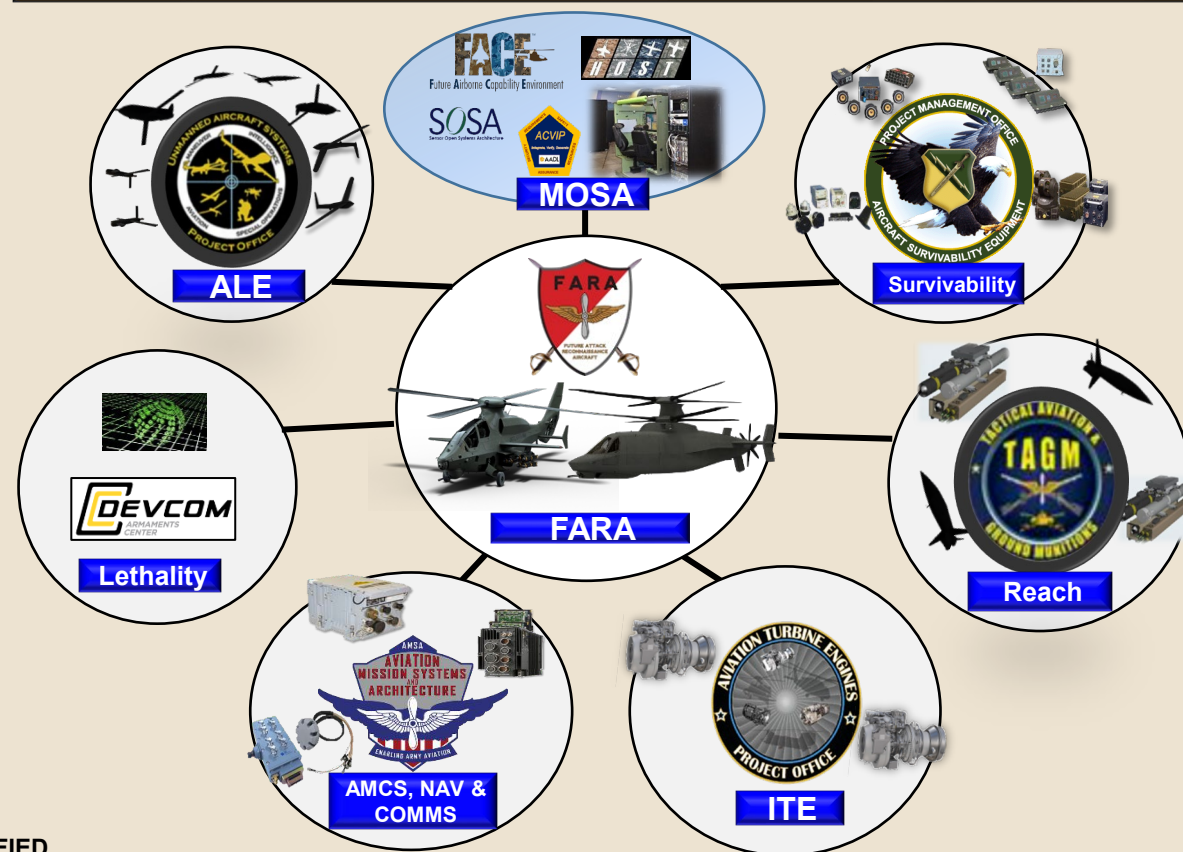
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# FARA Program Overview

The Future Attack Reconnaissance Aircraft (FARA) fills a critical armed aerial reconnaissance gap for the Army and enables operation in highly contested, complex airspace to achieve victory against a peer/near-peer enemy

FARA provides next-generation flight performance, increased stand-off ranges, and establishes the FARA Ecosystem, teamed with Air Launched Effects and Long Range Precision Munitions





# System Technical Review



## CP DESIGN & DEVELOPMENT

**SPS:** CP v1.26  
**ID&RR:** Complete  
**FD&RR:** Complete  
**Engineering Release:** above 95%  
**CP Build Status:** >90%  
**Airworthiness:** On Plan (SoF)  
**CP Testing:**  
   Components  
   SW  
   SubSys/System

## WS PRELIMINARY DESIGN

**SPS:** DRAFT FARA v2.1  
**Verification Methods:** above 90%  
**Trades:** Ongoing  
   Power/Performance  
   Autorotation  
   Rotor Optimization  
   Gun System  
**Airworthiness:** Draft Inc 1 AQP

## MISSION SYSTEMS

**ACDD Attributes:** Aligned  
**SPS:** Refinement ongoing  
**GFE/CFE:** Defined

## MOSA

**Architecture:** Aligned FAF 4.0  
**Open Sys:**  
   Internal Demos  
   (Qty 2) OSVD events planned  
**Full MBSE Modeling**

## TECH MATURITY

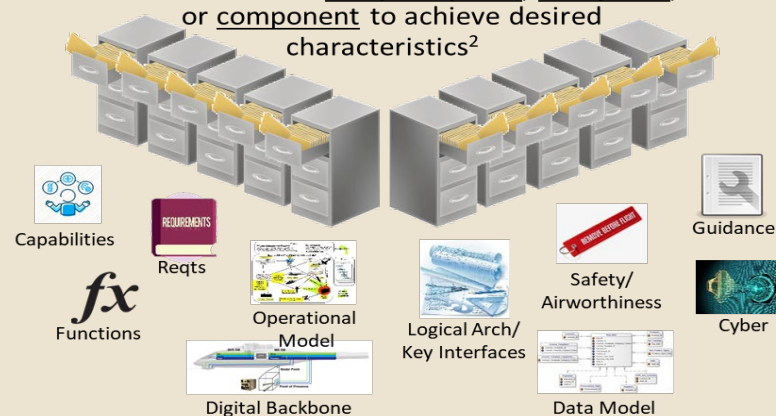
**On plan for TRL 6 or above for MS B entrance**  
  
**Technology Agreements in place**  
  
**ALE, MEL, and LRPM mapped to FARA schedule**



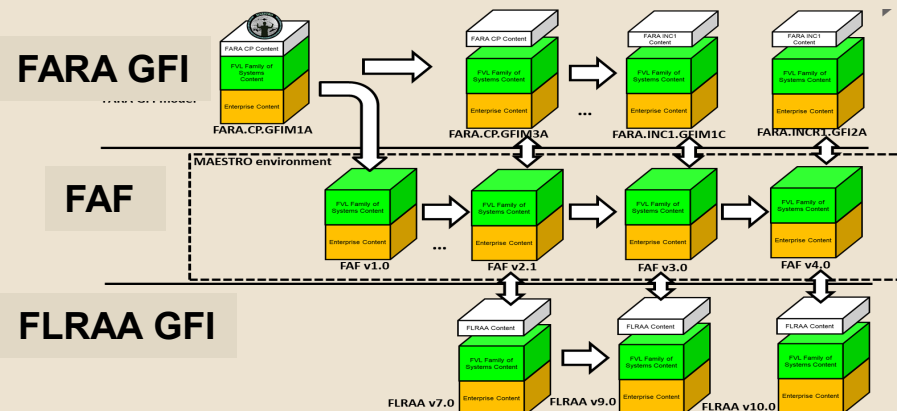
# System Technical Overview – MOSA, MBSE, & Digital Backbone

## Common Architecture Constraints (FAF)

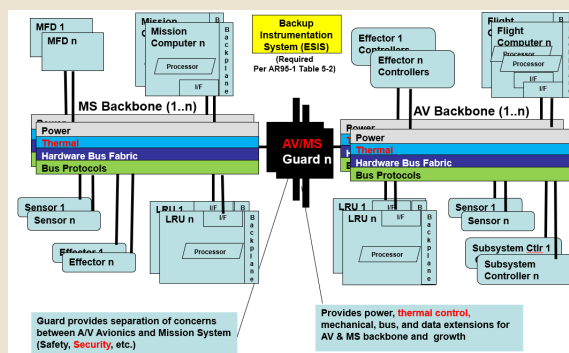
MOSA is enabled by a set of *managed* and *connected* assets<sup>1</sup> based on an architecture strategy used to build a system architecture for a weapon system, subsystem, or component to achieve desired characteristics<sup>2</sup>



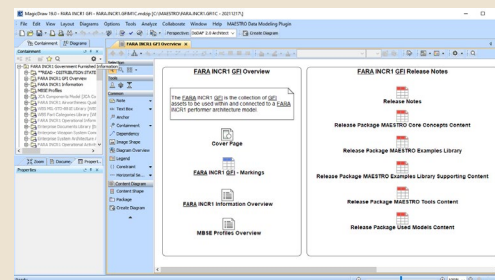
## FVL Model-based GFI derived from FAF



## Digital Backbones



## MBSE



### Model-based Technical Data Package

- Functional Baseline
- Allocated Baseline
- Product Baseline

## Open Systems Verification Demo

### Two distinct events

- OSVD 1 3QFY23 – Focus: Initial evidence of alignment
- OSVD 2 3QFY24 – Focus: Maturity/Issue resolution

### Approach

Use independent 3<sup>rd</sup> party Integrator (S3I) to:

- perform specified changes on FARA system
- assess ability of system to accommodate change without OEM involvement
- provide evidence of MOSA alignment with Government objectives
- observe/monitor performer cyber testing

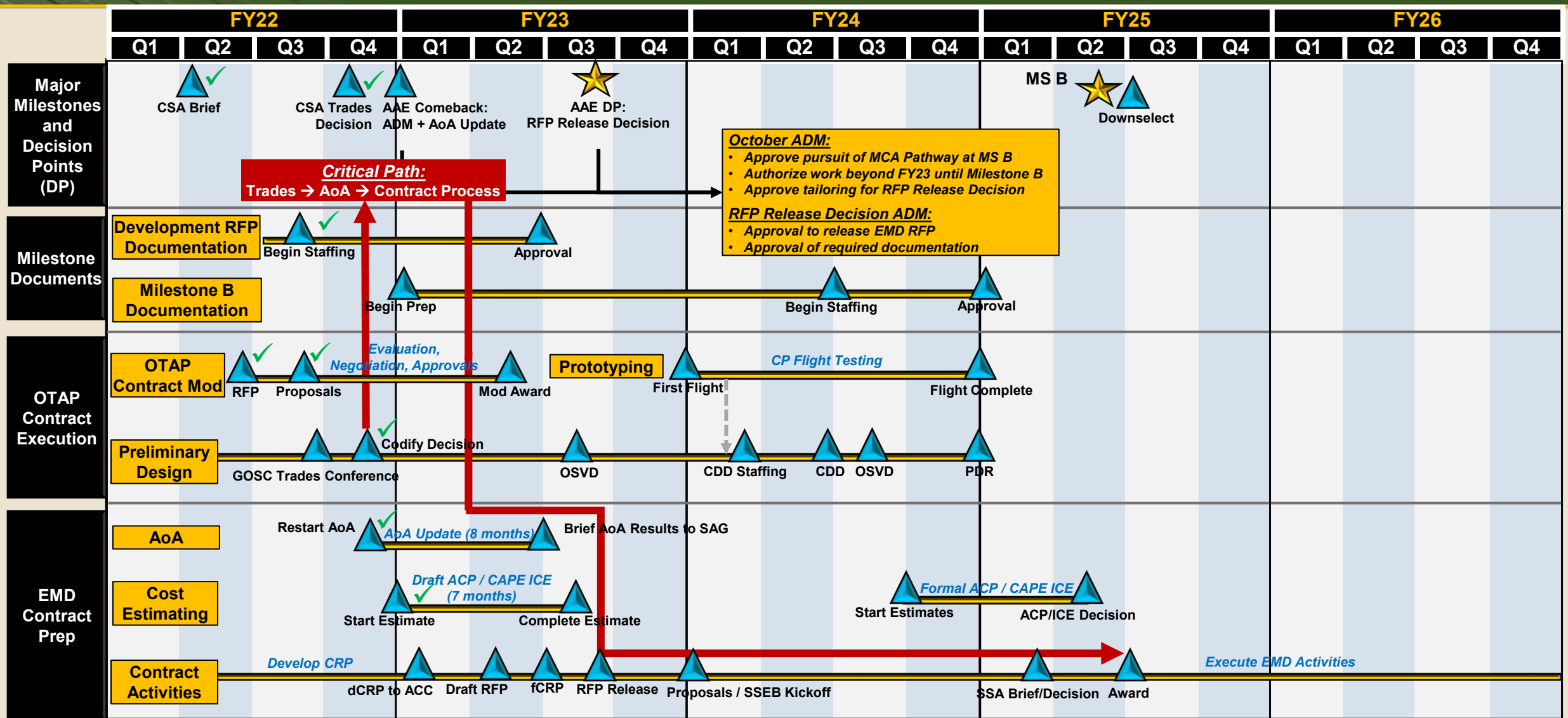
Use of Government developed scenarios

- GFI to communicate approach, scenarios, and roles
- Specific changes developed/coordinated with 3rd party Integrator
- Specific types of changes consistent across performers

Performer provides access to lab/SIL environment and necessary system/Lab familiarization



# FARA Path to Milestone B



**Critical Path:**  
Trades → AoA → Contract Process

**October ADM:**

- Approve pursuit of MCA Pathway at MS B
- Authorize work beyond FY23 until Milestone B
- Approve tailoring for RFP Release Decision

**RFP Release Decision ADM:**

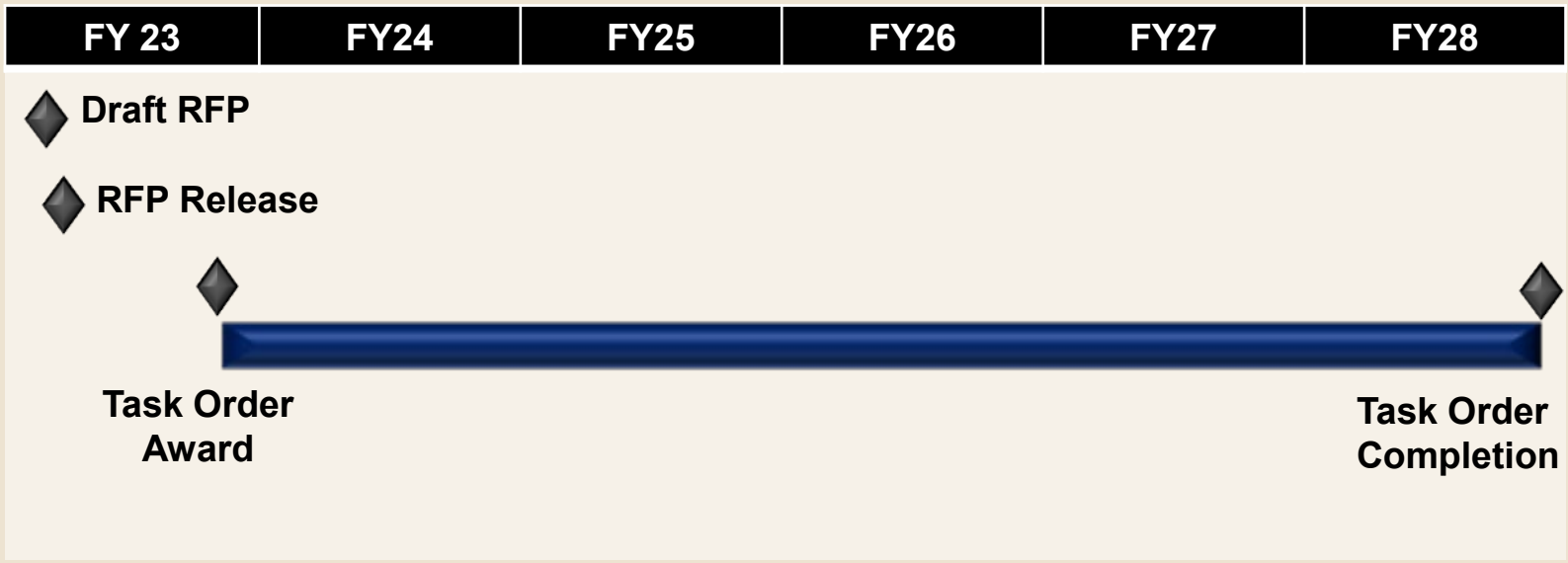
- Approval to release EMD RFP
- Approval of required documentation



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# PMO FARA Programmatic Support Services Task Order

- ☐ **Scope:** Performance-based effort includes technical (management/documentation), logistics, program, acquisition, contracting/acquisition analysis, cost estimating, budget, operations, public affairs, human resources, schedule support, and administrative support.
- ☐ **Contract Type:** Cost Plus-Fixed Fee anticipated
- ☐ **Period of Performance:** Five (5) year performance with an additional six (6) month option period per FAR 52.217-8.



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## Closing Comments and Questions

