

Unmanned Aircraft Systems Overview Huntsville Aerospace Marketing Association





COL Scott Anderson

Project Manager, Unmanned Aircraft Systems

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Organization

PEO Aviation

























































PM UAS



Director,

COL Scott Anderson Project Manager



Mr. Travis Sinclair **Deputy Project Manager**

HQ Staff

Mr. Wilson Ho



Ms. Meredith Clark **Business Management Division**



Mr. Eric Garrison International Programs Office

Logistics Management Division



Mr. Sean Townsend **Technical Management Division**



Charity Evans Acquisition Operations (AcqOps)

Product Offices



Ms. Carson Wakefield Product Lead

Mr. Stephen Hutson Deputy Product Lead SUAS



LTC Olin Walters **Product Manager**

Mr. Robert Dudley

Deputy Product Manager



LTC Chris Getter **Product Manager**



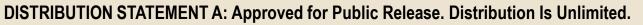
LTC Amanda Watkins **Product Manager**



Mr. Sean Tynan
Deputy Product Manager
EUAS



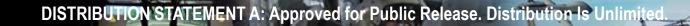
Mr. George Goodman Deputy Product Manager C2E











Team UAS



COL Scott Anderson Project Manager



Mr. Travis Sinclair Deputy Project Manager

HQ Staff



Ms. Meredith Clark Chief, Business Management Division



Mr. Wilson Ho Chief Logistics Management Division



Mr. Sean Townsend Chief Technical Management Division



Ms. Jennifer Gillum Director, Rapid Integration & Acceptance Center (RIAC)



Mr. Eric Garrison Director, International Programs Office



Charity Evans Director Acquisition Operations (AcqOps)

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TUAS



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Digital Ecosystem

- MBSE(SysML)
- Digital Thread
- Infrastructure
- Product Life Cycle Mgmt
- Modeling and Simulation

Key Enablers



Agile Development

MOSA

- Architecture & Standards
- Governance & Policy
- Business Practices
- Contracting Efficiencies
- Affordability & Savings



- DevSecOps
- Integrated Development Env
- Continuous Integration/Continuous Delivery (CI/CD) Pipeline
- Training
- Contracting Strategy
- Qualification Materiel Release

MOSA

Modular Open
Systems Approach

Digital "Thread"

AFSIM/ATCOM/ OneSaf CAMEO EA

w/Plug-ins

Matlab/Simulink/ Helios/etc.

Windchill

Using A Data Centric Approach and Process Flows for Optimal Tool Optimization

Cloud-Based Environment

PEO Aviation Digital Transformation is Synchronizing Modernization





Future UAS Desired Capabilities



IMPROVED SURVIVABILITY

IMPROVED LETHALITY

OPEN ARCHITECTURE

SWARMING

OPERATE in DENIED or DEGRADED ENVIRONMENT

NETWORKED PAYLOADS

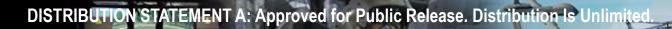
STAND-OFF SURVIVABILITY
STAND-IN EFFECTS

ARTIFICIAL INTELLIGENCE and MACHINE LEARNING

Future UAS Modernization

UAS Platform Upgrades

New Platforms / Products





Air Vehicle Size Comparison



Breadth of the PM UAS Portfolio

Worldwide Responsibility: Greater than 10,000 Air Vehicles Supporting All Echelons, USASOC, and INSCOM



Unmanned Aircraft Systems

SUPPORTING:

- **All Echelons**
- **ISR and SOCOM**



Soldier UAS

APO: systems

CURRENT

- RQ-11B Raven: 2,485 (3 per)
- RQ-28A Short Range Recon:

6,963 (2 per)



Tactical UAS

APO: systems

CURRENT

RQ-7B Shadow: 110 (4 per)



APO: air vehicles

CURRENT

Endurance UAS

- MQ-1C Gray Eagle 204
 - GE-15
 - GE ER -25 96



APO: systems

- LRR: 1,403 (1 per)
- MRR: 3,683 (1 per

SRR: 6,963 (2 per)



APO: systems

- FTUAS: 76 (4 per)
- RQ-7b V2 Blk III: 46 (4 per)

FUTURE

APO: air vehicles

- GE-15: 108
- GE ER-25M: 96

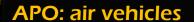


Command, Control & Effects

APO: systems CURRENT

 One System Video Remote Terminal (OSRVT) 3,424

FUTURE



- Air Launched Effects: TBD
- Scalable Control Interface: SW
- Robotic and Autonomous Command and Control: SW

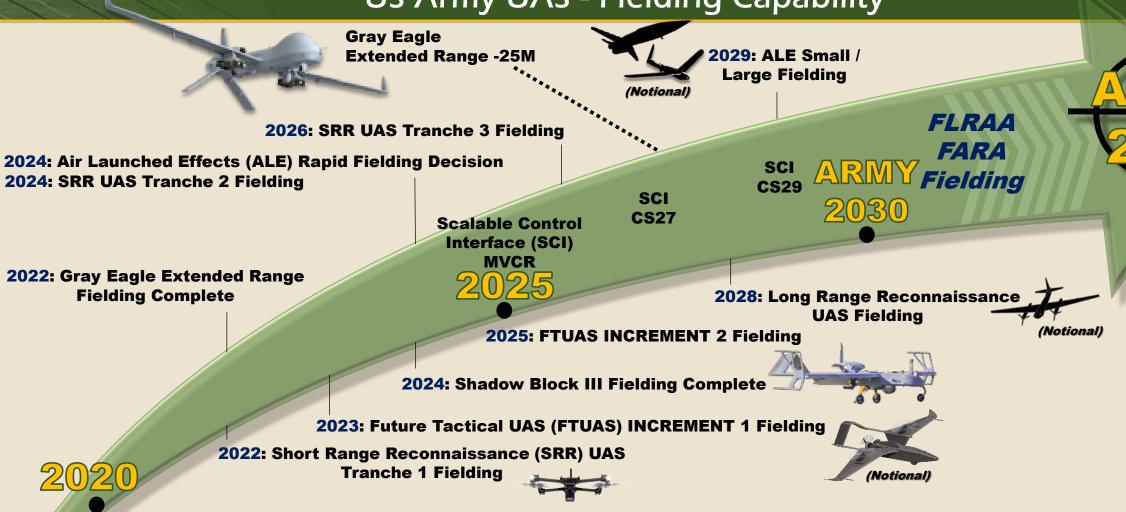
Supporting Our Forces and Our Allies With Worldwide Strength and Diversity

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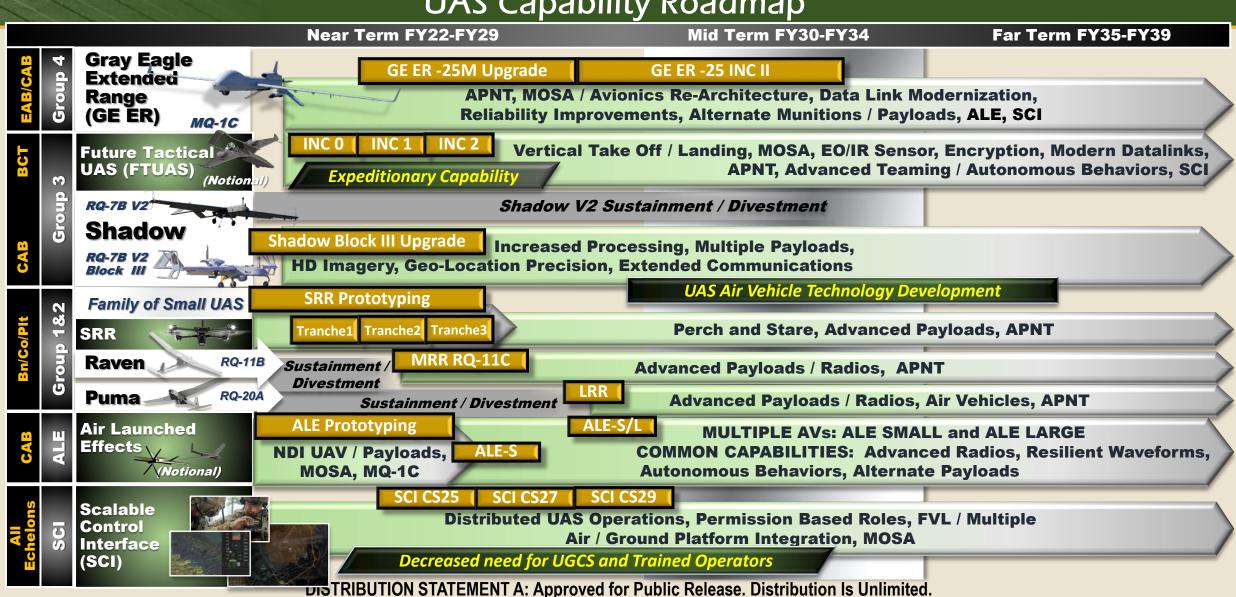
US Army UAS - Fielding Capability



ACCELERATING TOWARD THE FUTURE



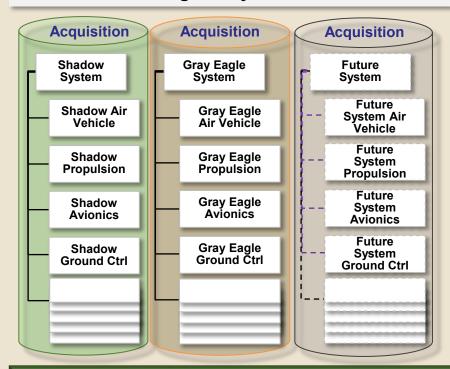
UAS Capability Roadmap



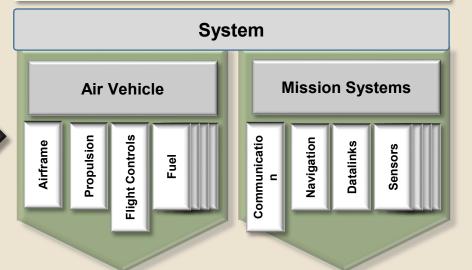


Changing the UAS Acquisition Paradigm

Traditional Paradigm – Cylinders of Excellence



UAS Family of Systems Paradigm



UAS FoS Phase 1 Initiated the Paradigm Change, From the Top Down

UAS Family of Systems Paradigm Enables:

Acquisition at Subsystem/Component Levels

Expanded Competition

Opportunities for Commonality and Reuse

Gov't Owns Requirements at Acquisition Level

Government Performs Some of the Integration Role (Versus the Prime Contractor)

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Questions