

Army UAS Update

Mr. John Beck, Deputy Project Manager, Unmanned Aircraft Systems 10 July 2015 | HAMA



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Unmanned Aircraft Systems (UAS) Project Office Organization, Vision, and Mission

VISION

Revolutionize our Nation's warfighting operations by being the world class leader in the development, production and sustainment of unmanned aircraft and associated systems.



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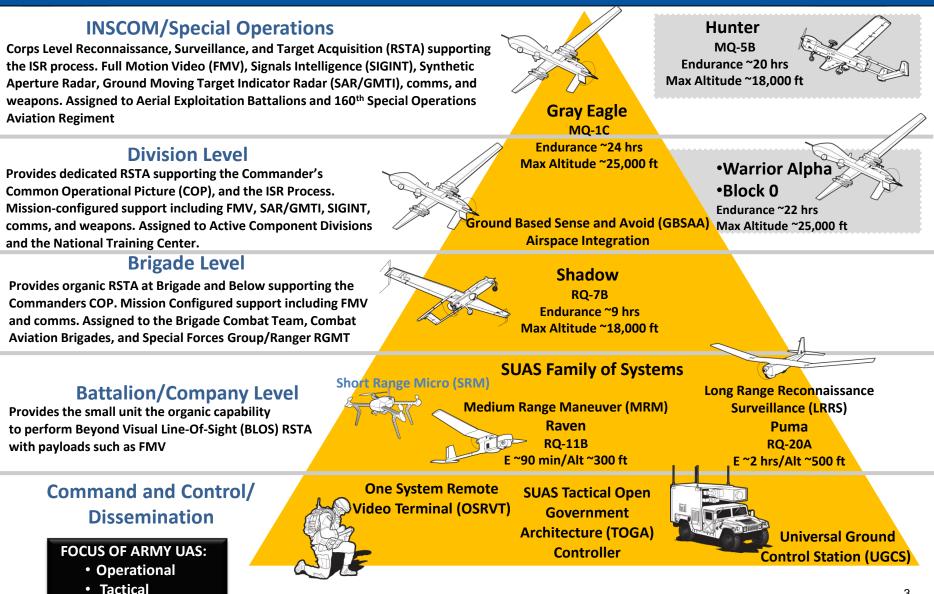
MISSION

Provide our Nation and its allies world class interoperable unmanned aircraft systems and integrated payloads through excellence in program management and lifecycle support.



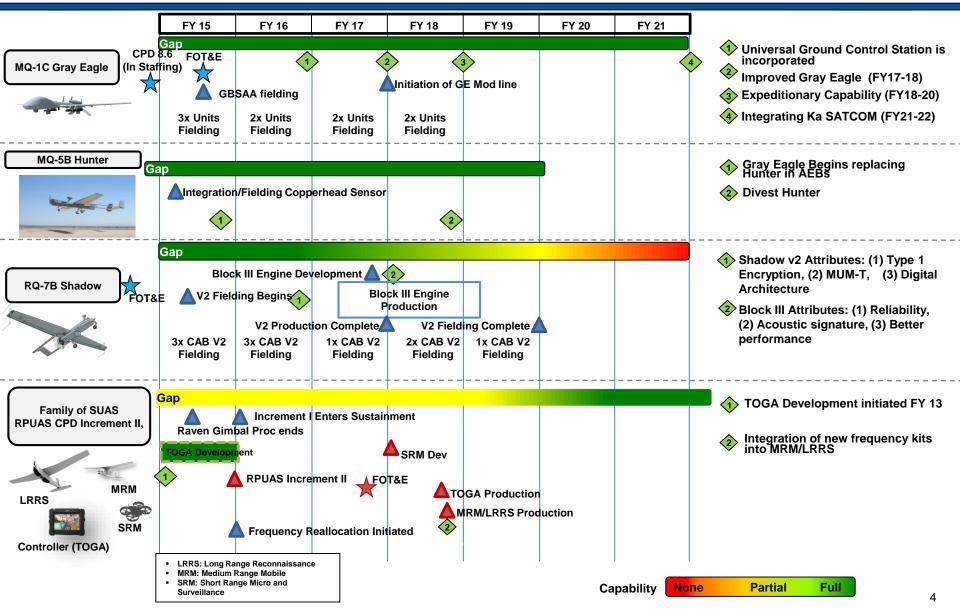


Army Unmanned Aircraft Systems



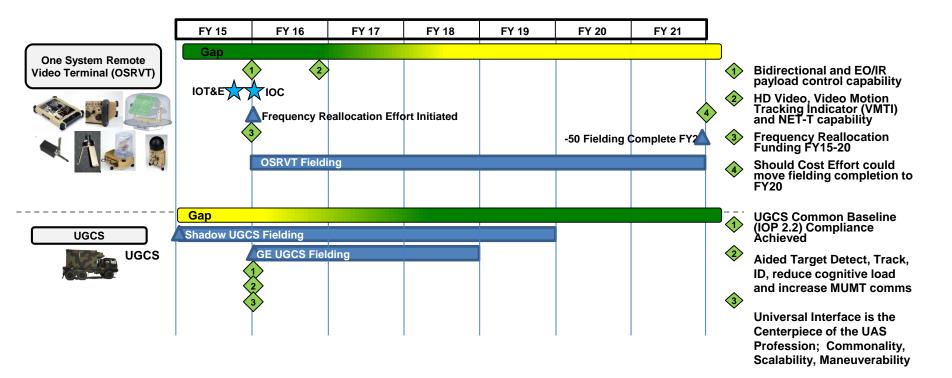


UAS Family of Systems





UAS Family of Systems





Current P3I Priorities Addressing the Future Fight Include:

Gray Eagle MQ-1C

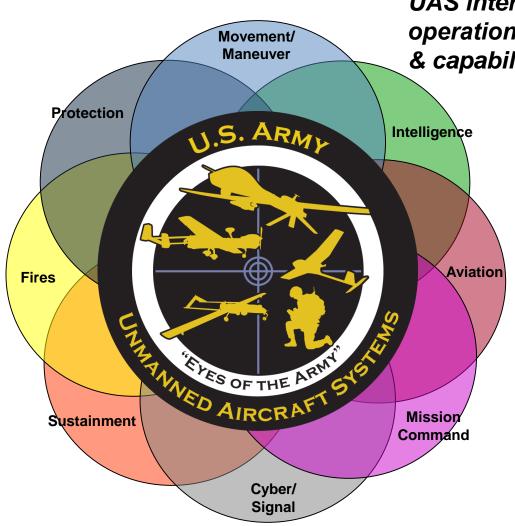
- Expeditionary
 - Alternate airfield ATLS (Alternate Takeoff and Landing System)
 - Self survey using CSP (Common Sensor Payload)
 - SATCOM ATLS
 - Portable maintenance and enhancements
 - System footprint reduction
- Survivability
 - GPS denied
 - Anti-jam antenna
 - Improved Gray Eagle
 - Ka SATCOM
- Commonality/Interoperability
 - UGCS upgrade (IOP compliant) (FACE)
 - ARC 231s
 - Synchronized interoperable waveforms
- Lethality
 - Universal payload interface

Shadow RQ7-B

- Expeditionary
 - Shadow Lite
- Survivability
 - GPS denied
 - Anti-jam antenna
 - Identify Friend or Foe (IFF) Transponder Upgrade
- Commonality/ Interoperability
 - UGCS (Universal Ground Control System) upgrade (IOP compliant) (FACE)
 - Voice Over Internet Protocol (VOIP) MUM-T Upgrade
- Lethality
 - Universal payload interface
 - Second Source Payloads
 - High Definition video for improved target detection and recognition



UAS: Intersection of the Army



UAS interacts with all aspects of operations...mixing stakeholders, missions & capabilities

- Recon/Surveillance/BDA
- Indirect Fire
- Data Dissemination
- Manned/Unmanned Teaming
- Electronic Warfare
- Special Operations Forces
- Comm/Data Relay
- Attack
- Cargo

UAS has revolutionized how the Army fights...it will continue to do so

UAS...a Combined Arms Asset



UAS Challenges and Concerns

- Dedicated Army S&T investment in UAS is required
 - Investment needed on Group 3 and Above
 - Industry will drive S&T on smaller platforms
 - Force 2025 may address
- Current LIRA does not account for threat based UAS.
 - LIRA-17 and Force 2025 and beyond to address
- Migration to Soldier maintenance
- Relevance of UAS in Next War
 - Vulnerabilities must be addressed in modernization lines
 - Integration into the Aviation ASE portfolio

- Survivability
 - Serviced within the Aviation ASE portfolio
 - Improve Engine reliability and fuel system
 - Vulnerabilities must be addressed in modernization lines
- **Expeditionary**
 - Reduce/eliminate reliance on runways and airfields
 - FSR migration to Soldier maintenance
- Commonality/Interoperability
 - Convert fleet to common software and hardware; look and feel
 - Make the Control System the primary interface to future UA development
 - Develop an universal armament interface adaptable across the Aviation Fleet



Discussion