

sUAS KINETICS STATEMENT OF OBJECTIVES (SOO)

1.0 Objective:

The Air Force Life Cycle Management Center (AFLCMC) is seeking to identify sources for domestically produced innovative kinetic solutions utilizing Small Uncrewed Aerial Systems (sUAS) to enhance operational capabilities across a range of mission sets. The objective is to identify and procure production-ready Group 1 (up to 20 lbs), Group 2 (20-55 lbs), and Group 3 (55-1,320 lbs) sUAS platforms within 6 months of contract award. These systems must provide a secure, sustainable, and adaptable kinetic capability, meeting stringent performance and operational requirements. All drones and critical drone components for this effort must be compliant with section 848 of the National Defense Authorization Act for Fiscal Year 2020 ("FY 2020 NDAA") (Public Law 116-92).

2.0 Background:

The Air Force requires advanced sUAS platforms capable of delivering kinetic effects with enhanced autonomy, survivability, and operational flexibility. These systems will be deployed in diverse environments and must be readily supportable, secure against cyber threats, and adaptable to evolving mission needs.

3.0 Desired Outcomes:

- Identification of mature and readily available sUAS technologies capable of meeting the specified KPPs and KSAs.
- Development of a robust and sustainable kinetic sUAS capability for the Air Force.
- Enhancement of operational effectiveness through survivability and adaptability.

3.1 Key Performance Parameters (KPPs):

The proposed sUAS solutions must demonstrate robust performance in the following areas:

- **System Security and Anti-Tamper Protection:** Protection against unauthorized access, modification, or exploitation.
- **Cybersecurity:** Resilience to cyber threats and vulnerabilities, ensuring data integrity and system control.
- **Sustainment:** Efficient storage requirements and high operational availability to minimize downtime and maximize mission readiness.

- **Exportability to Foreign Countries:** Compliance with export control regulations to facilitate potential foreign military sales.

3.2 Key System Attributes (KSAs):

The proposed sUAS solutions should exhibit the following key attributes:

- **Dispersion:** Appropriate scattering of impact around the aim point to provide intended effects.
- **Probability of Kill (Pk):** Warhead lethality against intended targets.
- **Payload Weight Capacity:** Efficient weight capacity to accommodate range with kinetic payloads.
- **Safe and Arm:** Must meet stringent USAF safe and arm requirements.
- **Weather Operational Thresholds:** Ability to operate effectively in a range of weather conditions.
- **Open Architecture Interface:** Open architecture design (such as the DEVCOM Common Lethality Integration Kit [CLIK] interface framework) to facilitate integration with existing and future systems. Commonality to enable integration into multiple UAS sensor packages.

4.0 Important Considerations:

- This SOO is intended to provide potential offerors with a clear understanding of the Air Force's objectives.
- Offerors are encouraged to propose innovative solutions that meet or exceed the requirements outlined in this SOO.

Note: This Statement of Objectives is for informational purposes only and does not constitute a solicitation. The Government reserves the right to modify or cancel this effort at any time.