Q&A

ATEC HQ 001

Autonomous Swarm Dynamics & Counter-Drone (C-UAS) Technologies

1.) Would the government be interested in a solution that incorporates Passive Multi-Sensor Fusion to achieve High-Density TSPI independent of Swarm Replication and Realistic Threat Behaviors?

A1: ATEC is highly interested in innovative, high-fidelity tracking capabilities, and competitive proposals focusing specifically on Passive Multi-Sensor Fusion to achieve High-Density TSPI. Offerors should clearly detail how their specialized tracking solutions can integrate with broader swarm replication networks and standard range target-control architectures.

2.) What's the maximum range over which the sensors would be expected to perform?

A2: ATEC is seeking highly scalable tracking solutions capable of operating across diverse, multi-kilometer test ranges typical of open-air testing. Rather than dictating a fixed maximum distance (requirements are dependent on UAS type and use case scenarios), vendors are invited to outline the optimal operating envelopes, sensor ranges, and scalability parameters of their proposed technology.

3.) Are the sensor locations restricted? Must they be collocated at/near the target area or can they be deployed to optimized locations on the test range?

A3: Sensor deployment is not restricted to fixed or collocated target areas. Vendors are invited to propose their optimal deployment strategies including dispersed, remote, or dynamically optimized range positioning to best capture high-fidelity tracking data.

4.) Are there any known limitations or restrictions on sensor deployment? (e.g. SWaP, network connectivity/throughput, environmental, shore power availability, etc.)

A4: Proposed solutions should be ruggedized and optimized for austere, remote open-air range environments where shoreline power and fixed network backbones may be limited or unavailable. Vendors are encouraged to detail the specific Size, Weight, Power (SWaP) requirements of their systems, highlighting any self-contained or expeditionary capabilities.

5.) Is the TSPI product used strictly as independent post-test truth/verification for evaluation or is there a real time throughput or latency requirement?

A5: ATEC utilizes TSPI data for both real-time range safety/monitoring and highly precise post-test engineering analysis. Vendors must define their system's real-time latency thresholds and post-test data reduction timelines, detailing how their platform supports both immediate operational visibility and high-fidelity post-mission evaluations."

6.) At this time are you able to quantify the expected "density" and "precision" of the TSPI? (OOM/upper bound)

A6: ATEC expects high-density tracking solutions capable of simultaneously resolving dozens of distinct, highly maneuverable targets in representative swarm environments. Vendors are to define the upper limits of their proposed tracking and sensor fusion capabilities.

7.) Section 3 lists four desired solution attributes, Swarm Replication and C2, Passive Multi-Sensor Fusion, High-Density TSPI, and Realistic Threat Behaviors. Will the Government accept a Solution Brief that addresses a subset of these attributes, or must a Solution Brief address all four to be evaluated?

A7: ATEC encourages comprehensive, integrated solutions, but highly competitive solution briefs addressing a focused subset of the desired attributes (such as standalone sensor fusion or target tracking) will be fully evaluated. Offerors proposing a specialized capability should clearly outline how their technology is designed to interface and interoperate with broader swarm replication and range control networks.

8.) If Solution Briefs addressing a subset of the attributes are acceptable, does the Government anticipate integrating or pairing complementary respondents, either at Reverse Industry Week or in a later phase, to assemble a complete capability?

A8: The Government does not anticipate integrating or pairing complementary respondents during the initial phase or Reverse Industry Week. However, the Government reserves the right to facilitate collaboration or evaluate joint capabilities in subsequent phases if deemed to be in the best interest of the Government.

9.) Section 6.1.1.c.vii requires a proposed schedule and total estimated out-the-door price. For a Solution Brief that addresses a subset of the attributes, should the estimated price reflect only the scope the respondent proposes to deliver, or should it reflect an estimate for a complete integrated solution across all four attributes?

A9: The estimated price and proposed schedule must reflect the specific scope of the attributes the respondent proposes to deliver. If proposed subset requires specific interfaces or integration dependencies to function, respondents should list these dependencies as clearly stated assumptions in their brief and not include speculative pricing.

10.) Section 6.1.1 permits either six written pages or fifteen briefing slides. Please confirm that the title page and the Intellectual Property Statement are excluded from both limits, as indicated in Sections 6.1.1.a and 6.1.1.f.

A10: The title page and Intellectual Property Statement are excluded from the overall page and briefing slide count limitations.