

Section I. General Information

Title of Submission:

Short Title (Used for display, no special character)

Submitting Organization Name:

Submitting Organization address:

POCs Name:

POCs Email:

POCs telephone: Commercial:

DSN:

Supporting Organization(s) Name:

Short Description of Technology:

Team: Submitters are encouraged to team amongst industry, academia, and government partners. Provide a brief description of the subject matter expertise that each member of the team provides and a brief description of the participating organizations.

Section II Capability and Operational Relevance

Indicate any and all capability concept areas this technology will support:

Situational Awareness - Information related to friendly, enemy, environmental factors in regard to surrounding conditions and attendant circumstances which may impact the mission.

Counter Reconnaissance - Deny the enemy's ability to obtain, by visual observation, electronic sensing, or other detection methods, information about activities and resources of friendly forces or to prevent data collection concerning the meteorological, hydrographic, or geographic characteristics of a particular area.

Fires and Effects - The use of weapons systems or other actions to create specific lethal or non-lethal effects on a target. These effects could include kinetic, electronic, cyber, etc.

Command and Control - The exercise of authority and direction by a properly designated commander over assigned and attached forces in the accomplishment of the mission. Command and control functions are performed through an arrangement of personnel, equipment, communications, facilities, and procedures employed by a commander in planning, directing, coordinating, and controlling forces and operations in the accomplishment of the mission.

Maneuver - Employment of forces in the urban area through movement in combination with fires to achieve a position of advantage in respect to the enemy. Movement in urban environments requires the ability to traverse urban canyons, over walls and structures, in subterranean corridors, over buildings, and through structures.

Operational Relevance: *Describe how the proposed technology/engineering innovation addresses specific warfighting Capability Concept(s), or elements and/or combinations of Capability Concept(s) selected above:*

Picture of Technology: *Operational view of the technology indicating submitter-provided capability and assumed environment and system view of connections, specifically communications, indicating submitter-provided capability and assumed connectivity.*

(Please attach pictures using the adobe attachment function -from Adobe menu - view, show/hide, navigation pane, attachments)

Technology Readiness Levels: *Assess the current technology readiness level (TRL) of the major systems/sub-systems. Describe whether the estimate is based on test data from a developmental (lab-, simulation-based) or operational (test range or other with operational users). If applicable, project the TRL achievable upon completion of the proposed submission. Define the amount of time it would take to mature your technology to the point that it would be ready for operational use(in months). Explain any assumptions you have made and risks associated with this estimate:*

Section III Technical information and parameters

Critical Technical Parameters: *Describe the critical technical parameters that characterize the specific contribution of the proposed technology/engineering innovation. Sample technical parameters for each of the Capability Concepts are described in the Special Notice. In tabular format, quantify the performance that has been demonstrated and describe the environment or conditions it has been tested under. Please be sure to include units in all measures (i.e. kg, mph, W, etc.). Include references to test reports or other artifacts that can be made available upon Government request. If test data in a relevant Urban operational environments is not available, which may be the case if for example the submission is proposing re-purposing of an existing capability, estimate the technical performance that may be immediately achievable.*

Size, Weight and Power - define the size, weight and power requirements of the technology, please use the following units of measure - size=cubic meter, weight=kg, power= Wh:

Size (m³) =

Weight (kg) =

Power (Wh) =

System and Data Architecture: Describe the systems, interfaces, and the data architecture of the technology/engineering innovation being submitted. Include diagrams, architectural views, or other graphical representations to describe the major systems/sub-systems and interfaces. Submissions are not required to provide end-to-end solutions, but should identify external interfaces that will ultimately be required for the technology/engineering innovation to function in the intended operational environment.

Cost: Provide an estimated developmental cost to mature the proposed technology/engineering innovation to low rate production levels. In addition, provide a not to exceed estimate of a low rate production cost for the technology/engineering innovation. These estimates are not contractually binding but could be used as evaluation criteria to determine suitability for further experimentation.

Development Cost: \$

Low Rate Production Unit Cost: \$

Are there any operational limitation due to weather or other enviornmental factors? If so, please explain:

Describe how many operators your technology will require for setup, operational use and for maintenance:

Describe the support your technology will need from a host platform, host network, or any other dependent support it will require to be transported, maintained and utilized oprationally. Include details on size,weight, power, bandwidth, frequencies, etc:

Describe any standards your technology uses in its design and operation.

Describe any certifications that your technology will require to be used operationally, the amount of time you estimate that will be needed to gain those certifications and any risks you see to this time estimate.

Describe any safety concerns with your technology or the need for personal protection equipment to utilize the technology:

Describe any opens systems architecture concepts that your technology incorporates. How do you visualize the ability to integrate this technology into other systems?

Describe any scalability or adaptability that your technology employs. Can your technology provide varying levels of response?

To what extent has your technology applied principles of reliability to enable use across all military environments?

Section IV Demonstration requirements

Experimentation Plan and Objectives: *Describe how you propose to demonstrate the utility of the technology/engineering innovation in an experimentation plan. Describe all phases of the proposed experiment in detail (pre-deployment, deployment, operation, recovery, post-recovery). Describe required lay-down areas, range requirements. Identify any and all support, handling, or special gear that the Submitter will bring to conduct the experiment. Estimate how many persons are required on-site to conduct the experiment. Identify needed support requirements – power, network, vehicle platforms, personnel, space, equipment or others. Provide a pictorial representation of the experiment with network connectivity diagrams, personnel and vehicle movements.*

Dependencies and Special Considerations: *Identify any and all other government furnished information (i.e. interface specifications, launch and recovery procedures, targetry, etc.) and/or equipment required to support the submission (i.e. unmanned system deployment from 60MM mortar, weapon or target deployment from an MV-22 Osprey, communication link to MH-60, GPS, GSM, Secret or higher facility clearance/storage capabilities). Identify any significant certifications required prior to conducting a planned experiment (i.e. TEMPALT, WSERSB, ATO, Li-ion Battery Certification, etc.). Identify significant hazards associated with operating or maintaining your technology (i.e. explosives, lasers, radiation, etc.) For each specific dependency or consideration, identify at least one feasible alternative (i.e. launch from submitter's vehicle, test rigs, simulations, static displays) that would mitigate, for example, the uncertainty risk of operational asset availability(ies).*