PAE LP & I and PEO-SW Distributed Micro Sensors Assessment Event
White Paper Submission Template

THIS IS THE TITLE PAGE AND DOES NOT COUNT TOWARDS YOUR PAGE TOTAL

Provide Company Name, Title, Date, Point of Contact, E-Mail Address/Phone/Address, and Technology Focus Area (TFA)

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Ensure that your White Paper covers the following areas:

EXECUTIVE SUMMARY: Provide a more detailed description/summary of your technology. Proposals should include the definition of the product, techniques, applicability to the environment outlined for this effort. Submissions should define the current technology readiness level (TRL) *, any current deployments of the technology in defense or commercial systems, and process to achieve TRL 7 maturity (if not already at that level).

NOTE: The following TRL Definitions are sourced from the OUSW(R&E) TRA Guidebook (Feb 25) https://www.cto.mil/wp-content/uploads/2025/03/TRA-Guide-Feb2025-Cleared.pdf:

TRL	Definition	Description	Supporting Information
5	Component and/or breadboard validation in a relevant environment.	Fidelity of breadboard technology increases significantly. The basic technological components are integrated with reasonably realistic supporting elements so they can be tested in a simulated environment. Examples include "high-fidelity" laboratory integration of components.	Results from testing a laboratory breadboard system are integrated with other supporting elements in a simulated operational environment. How does the "relevant environment" differ from the expected operational environment? How do the test results compare with expectations? What problems, if any, were encountered? Was the breadboard system refined to more nearly match the expected system goals?
6	System/subsystem model or prototype demonstration in a relevant environment.	Representative model or prototype system, which is well beyond that of TRL 5, is tested in a relevant environment. Represents a major step up in a technology's demonstrated readiness. Examples include testing a prototype in a high-fidelity laboratory environment or in a simulated operational environment.	Results from laboratory testing of a prototype system that is near the desired configuration in terms of performance, weight, and volume. How did the test environment differ from the operational environment? Who performed the tests? How did the test compare with expectations? What problems, if any, were encountered? What are/were the plans, options, or actions to resolve problems before moving to the next level?
7	System prototype demonstration in an operational environment.	Prototype near or at planned operational system. Represents a major step up from TRL 6 by requiring demonstration of an actual system prototype in an operational environment (e.g., in an aircraft, in a vehicle, or in space).	Results from testing a prototype system in an operational environment. Who performed the tests? How did the test compare with expectations? What problems, if any, were encountered? What are/were the plans, options, or actions to resolve problems before moving to the next level?

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TECHNOLOGY CONCEPT: Describe the unique aspects of your technology, any detailed technical specifications, and the proposed work as it relates to the TFA.

APPROACH: Describe how your technology/capability solves the designated TFA. If applicable, identify any past or current efforts in which your technology/capability has successfully demonstrated results that have, partially or in its entirety, addressed the TFA.

ROM COST/SCHEDULE: Lay out your Rough Order of Magnitude for cost and schedule to implement your company's solution. If you are proposing a solution with multiple increments, please clearly layout each increment. You may want to list the variables that could influence the cost and schedule, and you may want to include any assumptions made in calculating the ROM cost and schedule. Submission should include ROM cost estimate requested based on a contractor-defined architecture with the definition of driving cost constraints.

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SUBMISSION MAY NOT EXCEED TWO (2) PAGES, TIMES NEW ROMAN 12-POINT FONT, NOT INCLUDING THE TITLE PAGE