



PICARD

PURSUING INTELLIGENT COMPLEX AEROSOL RAPID DETECTION

INTELLIGENCE VALUE

The PICARD program aims to develop a fieldable sensing platform for the rapid identification of aerosol particles with complex chemical and physical characteristics in challenging environments. The need to distinguish chemical threats from common background chemistry is critical to national security as many are dispersed as aerosols.

The PICARD program is expected to release a BAA and begin source selection in the Winter of 2022 with two technical areas: point detection for in-situ sampling of aerosols and standoff detection. PICARD will be a 42-month effort to deliver integrated sensors (from sampling to analysis) capable of addressing chemical mixtures and morphologies over large particle size distributions with high sensitivity and accuracy in complex environments.

PRIME PERFORMERS

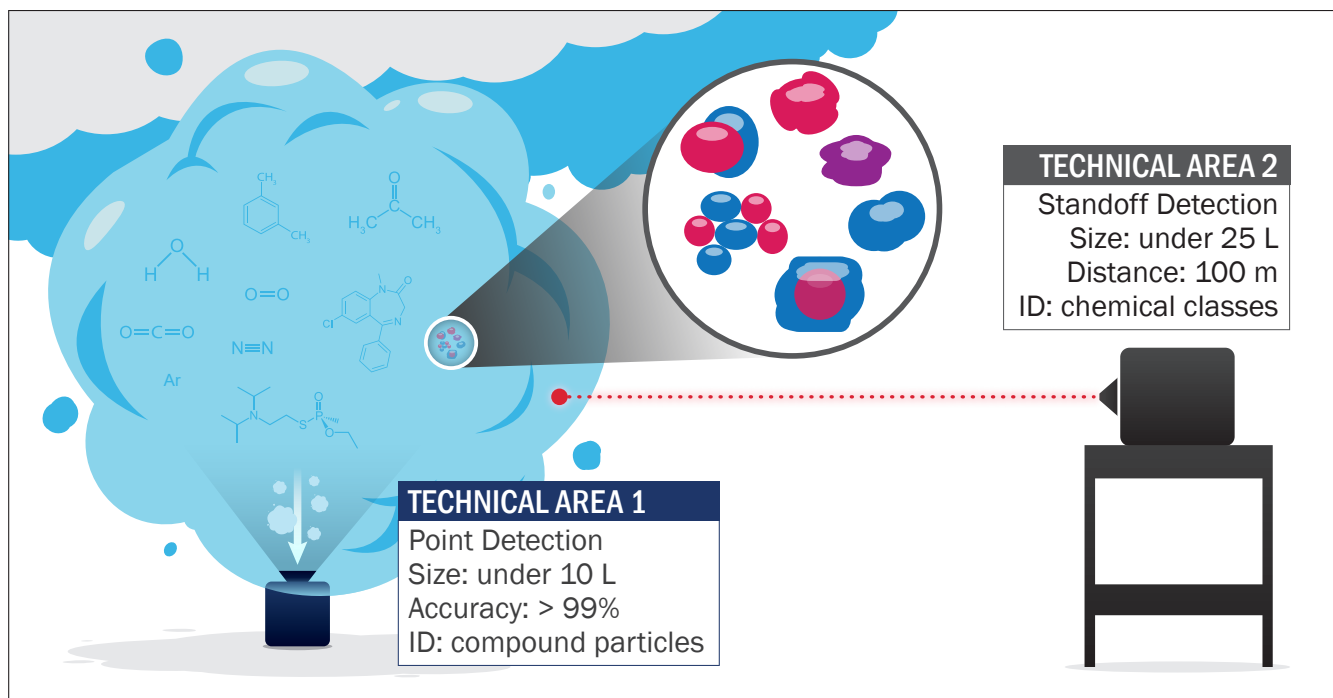
- Detect ION
- Signature Science
- Virginia Tech
- University of Colorado – Boulder
- SRI International
- Leidos

TESTING AND EVALUATION PARTNERS

- Naval Research Laboratory
- Pacific Northwest National Laboratory
- Sandia National Laboratory

KEYWORDS

- Aerosol science
- Chemical sensing
- CBRNE
- Spectroscopy
- Spectrometry
- Standoff detection
- Environmental sampling



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