

Topic 2: Munitions Response (MR)

Proposals in this topic area should address the reduction of the Department's current liabilities under the Military Munitions Response Program due to unexploded ordnance (UXO) and discarded military munitions or the sustainability of the current testing and training ranges through active range clearance and reducing the generation of UXO. All technologies that can potentially improve the Department's environmental performance or reduce costs are of interest. Areas of high priority include:

Classification

Technologies are needed that can discriminate munitions ranging from 20 mm projectiles to 2000 lb. bombs from other items in the sub-surface. A single technology need not be applicable to all possible munitions types, nor all possible site conditions. Technologies are requested for ultimate inclusion in a series of live-site Classification Demonstrations being conducted by ESTCP in four categories:

- Integrated systems (hand held, man-portable, or vehicle towed) that can survey tracts of land, detect potential munitions and discriminate munitions from clutter;
- Systems that are cued by other survey technologies which can cost effectively, non-invasively interrogate the suspected item and discriminate munitions from clutter;
- Signal processing technologies that can exploit the current state-of-the-art magnetic and electromagnetic induction survey data to improve classification capabilities; and
- Production technologies that have demonstrated the ability to collect classification-quality survey data and analyze these data using advanced processing techniques.

Underwater Munitions

Technologies are needed that can reliably detect and classify munitions that are proud or buried, either individually or in clusters, in the underwater environment. Munitions of interest range from small projectiles to large bombs at depths to 120 feet.

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