



UXO

UXO TECHNOLOGIES



As part of the Army's commitment to sustainability, military readiness, and the Grow the Army initiative, the Army is building and modifying ranges to maintain a trained and ready force, while ensuring the protection of human health and the environment.

The Army's Range Modernization Program will require construction on tracts of land that has been

previously used for training. Some of these lands have unexploded ordnance (UXO) that can be difficult to detect and dangerous to remove.

In an effort to reduce future range construction costs associated with UXO, the Army is implementing new technology applications, designs, and constructions methods to this process. The goals of implementing these technologies into the range modernization process are: to reduce costs, accelerate schedules and improve safety.

BACKGROUND

When an installation needs to construct or modernize a range, UXO considerations are not always incorporated into the preliminary stages of range siting and design. The current process involves choosing a site and then surveying only a small portion of the chosen site to assess UXO density and types in order to prepare a removal plan. UXO removal then occurs prior to construction.

The Army is currently doing research with different technologies in an effort to streamline the range planning and construction process. Some of these technologies include:

For more information

U.S. Army Environmental Command
Public Affairs Office
1-800-USA-3845 or 1-800-872-3845
email: imcom-usaecpublicaffairsoffice@conus.army.mil
<http://aec.army.mil>

- Wide Area Assessment – Gather UXO density and distribution data using high resolution maps, archive data, airborne laser systems, and magnetic sensors. This process can assist range layout in avoiding high density UXO areas which translates into cost savings, and risk avoidance.
- Remote Robotic Technologies – Remotely operated equipment can be used to, clear vegetation, map ordnance densities, and detect and remove ordnance. This will accelerate clean-up schedules, reduce range downtime, and improve operator safety for removal actions.
- Vertical Construction – This technology focuses on building above ground targets and building up roads, rather than digging down to remove ordnance. These approaches will minimize intrusive digging while reducing the amount of money spent on clearing UXO.

