



Seismic Subsurface Object Location and Analysis System | (pronounced “solace”)

**In development by GoVentures, Inc.**

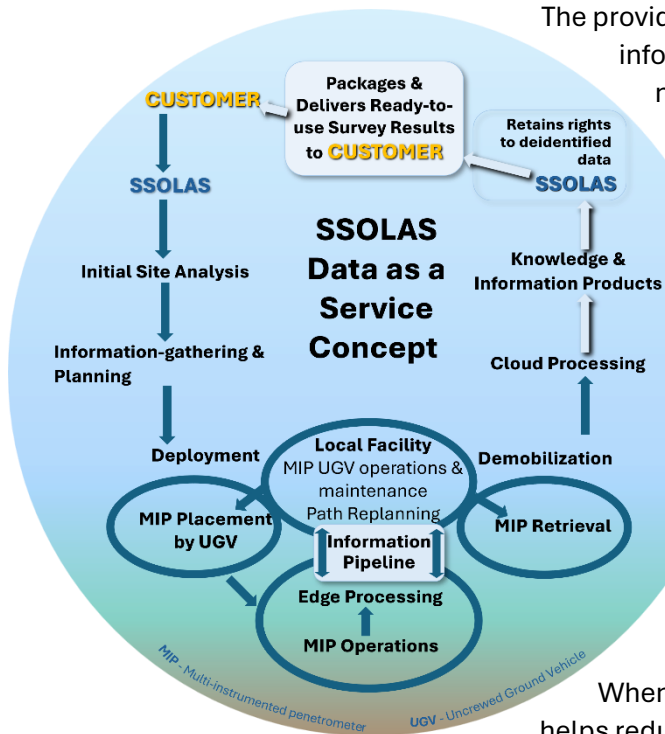
Patent pending

**SSOLAS** is a seismic acoustic sensing system to locate and characterize objects hidden underground in conditions where other methods can’t: It is designed to detect both metal and non-metal objects across a range of soil types and produce subsurface data that is layered over digital information on the real environment (“mixed reality”) so that technicians can “see” where objects were and were not detected.



**Potential applications:** landmines and other ordnance • bridge foundations • tunnels • dams • unmarked pipelines • abandoned tanks

## The envisioned market approach is data as a service (DaaS)



The provider deploys the system at the customer’s site. The resulting information, in forms including the “mixed reality” product mentioned above, is provided to the customer for their use. The provider retains the right to use deidentified, aggregated data, which is added to a growing knowledge base.

## SSOLAS is early stage technology

Currently at Technology Readiness Level 2-3 on a 9-point scale used by U.S. government agencies, where 1 is basic research and 9 is proven in operations.

SSOLAS sends controlled sound energy into the ground and measures how the soil responds. Buried objects change that response in ways the system is designed to detect. Because it does not rely on electromagnetic properties, it is designed to work in conditions that limit conventional sensors: mineralized or conductive soil, metallic clutter, and plastic casings.

When fully developed, SSOLAS will be an automated system that helps reduce the need for people to work in dangerous field conditions.

Seismic sensing and edge data processing were demonstrated in field testing in summer 2025 at two farms (Pennsylvania and Maryland) and at Texas A&M’s Bush Combat Development Complex, which covered four soil types. GoVentures is actively seeking funding and partners to continue developing SSOLAS.

GoVentures, Inc. was founded in 2002 by two senior professionals with decades of experience in aerospace, robotics, construction, government affairs, and contract and program management.

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