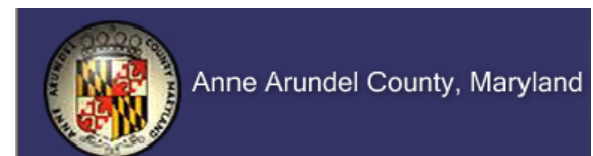


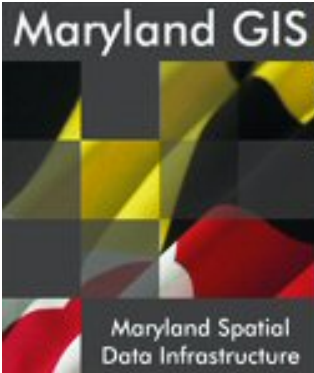


# Buried Utilities



- Utility infrastructure is often buried underground for aesthetic and safety reasons. Buried utilities must be identified when construction occurs in the area, because damage to the utilities can be inconvenient, dangerous, and costly.
- Private vendors and multiple county departments are responsible for marking utility infrastructure in the field prior to any construction. Some utilities are overlooked because the paper maps used to locate infrastructure may be outdated, and because separate dispatch and tracking systems are used, as well.
- Fiber optic cables are often installed by cable companies as part of franchising agreements and then turned over to local jurisdictions to maintain. Without documentation of fiber locations, the lines are often cut. Each repair can cost up to \$50,000.

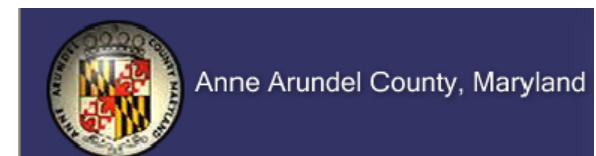


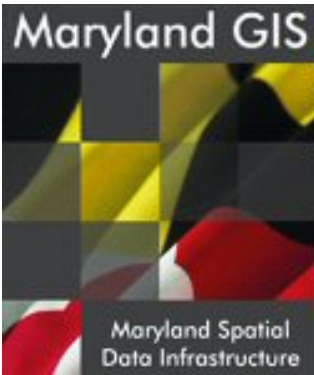


# Approach Taken To Overcome



- Miss Utility, DPW, BOE, and OIT all work together to mark and maintain the fiber optic infrastructure.
- The Cable division tracks new and ongoing projects, notifies BOE or DPW Survey to input the segments, and OIT provides up-to-date Web mapping for site review.
- Ground penetrating identification devices are used to find buried infrastructure. GPS is used to mark positional locations.
- This project is on-going, and survey marking is completed with days of installation.
- The major challenge include coordinating multiple departments and marking the physical infrastructure.





# Outcomes



- The final product is a Web viewing application that allows visualization of marked infrastructure and areas that need to be input.
- This new product will allow the utility infrastructure to be marked and inventoried in a timely manner.
- Cost savings will be gained in maintenance, efficient installation, and prevention of inadvertent utility damage.
- Each repair prevented on the fiber optic cables can save up to \$50,000. Repairs prevented on other infrastructure save inconvenience and lives.
- Without all groups working together, a successful outcome could not be accomplished.

