

## **Obstacle Detection for Horizontal Directional** Drilling (HDD)

> >

gti

- Significant increase in the use of HDD
- for laying pipes Knowledge of various objects in front of drill head is critical to avoid hits
- > Horizontal drilling heads can penetrate other obstacles such as sewers, plastic gas pipes, electric lines, or fiber optic cables
- Presentation will discuss progress on detecting obstacles during HDD operations

**Obstacle Detection Technologies** Ground Penetrating Radar (GPR) > Integrated Acoustic -Electromagnetic > > Differential Impedance gti















