

Quarterly Report – Public Page

Date of Report: October 29, 2018
Contract Number: 693JK31810009
Prepared for: DOT/PHMSA
Project Title: Improved Tools to Locate Buried Pipe in Congested Undergrounds
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For quarterly period ending: October 31, 2018

Project Scope

The purpose of this project will be to mitigate third-party pipeline damage and cross bores at the earliest stages through the development and commercialization of a geospatial probe to map existing buried utilities by being inserted inside of a live gas pipeline. This probe will be capable of mapping live underground pipes 3-dimensionally and give accurate locations of utilities. Additionally, a cloud-based data collection system will be created in order to effortlessly collect and store data, so it is easily accessible to the utilities.

Technical Status

During the first quarter, the project team scheduled and held a kick off meeting to review the projects scope and efforts. The team will also review the technology development plan and make changes if necessary.

An industry survey was created by the project team to help determine key design parameters for the updated gyro-scoping sensor system. The survey was send to 10+ utilities to get industry input prior to starting conceptual design stage of project.

All the following activities were completed during the 1st quarter:

- Held team kick-off meeting and conference call at Geospatial's HQ.
- Formed Technical Advisory Panel made up of representative from several large local distribution companies around the U.S.
- Created an industry survey to gather important information from the gas industry on key performance parameters for the new tool.

Results and Conclusions:

The project is progressing on schedule. Project team was able to interact directly with several local distribution companies during the project kickoff call. A follow up industry survey was created to officially document input from several gas utility companies.

Plans for Future Activity:

During the next quarter, the following activities will be conducted:

- Develop alpha-prototype drawings for new gyroscope sensor based on comments from Technical Advisory Panel. Procure parts and materials needed to build alpha prototype.
- Procure required software and developing a system flow diagram for cloud-based data collection.