



U.S. Department of Transportation

Pipeline and Hazardous Materials Safety Administration

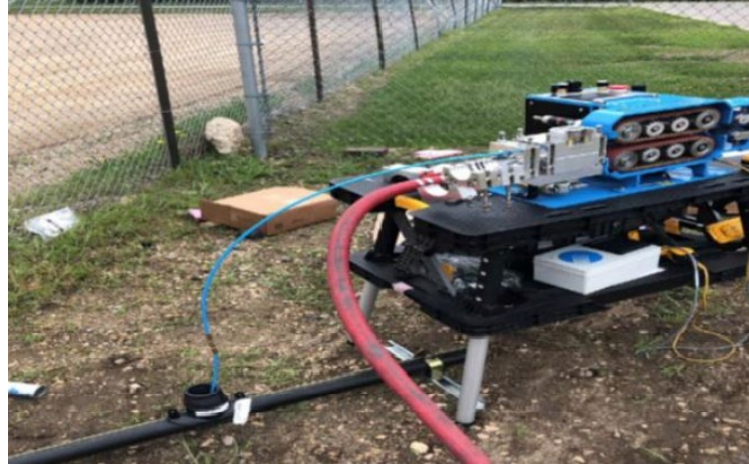
PHMSA Accomplishments

Pipeline Safety Research & Development

Improved Tools to Locate Buried Pipelines in a Congested Underground **693JK3181009**

Main Objective

To mitigate third-party pipeline damage at the earliest stages through the development and commercialization of a geospatial probe to map existing buried utilities through insertion into live gas pipelines. This probe will be capable of mapping live underground pipes 3-dimensionally and provide accurate locations of utilities.



Prototype Testing of Pneumatically Driven Duct Rod Pusher Propelling Duct Rod into a Pipeline.

Picture courtesy: Gas Technology Institute.

NET Improvement

The project developed and validated a geospatial probe to map existing buried utilities through insertion into live gas pipelines. The resulting technology transfer led to the Live Gas Mapper (LGM-2) tool by REDUCT. The LGM-2 can map buried live gas pipes with an ID range of 50mm up to 100mm (2" to 4"). From a single hot tap entry point it can map a gas pipe up to 300 meters/1,000' length in each direction, thus capturing data and the geographical location of 600 meters/2,000' of live gas pipe.

Commercial Partner



PHMSA Funding

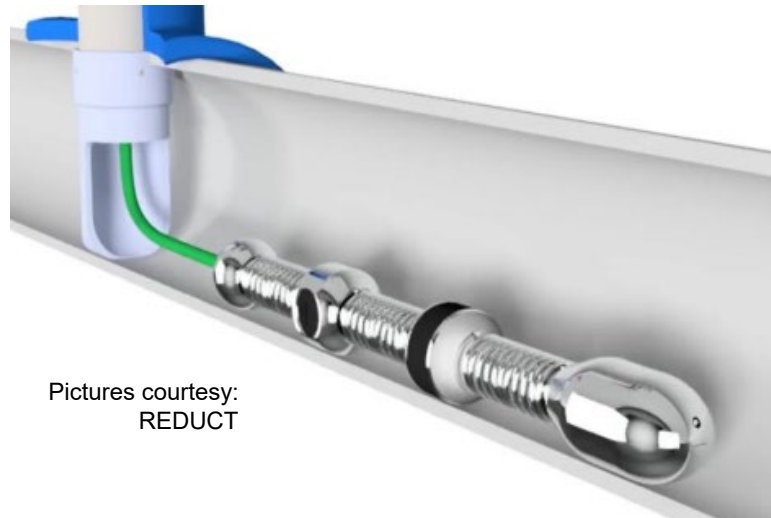
\$502,000

Public Project Page

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US Patent under DOT Contract

N/A



Pictures courtesy: REDUCT