

Digital Mapping of Buried Pipelines with a Dual Array System DTRS56-02-T-0005

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PHMSA

Pipeline and Hazardous Materials Safety Administration

Pipeline Safety Research and Development

Technology Development for Improved Threat Prevention

Project Abstract

This purpose of this research project was to develop technology to detect all underground utilities, including plastic pipelines and provide high quality location information. The solution must be noninvasive for detecting, mapping and inspecting steel and plastic pipelines. The system combines measurements from ultrawideband radar and electromagnetic induction arrays with precise positioning and advanced image processing.

ACCOMPLIS

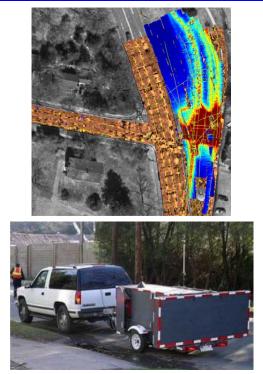
PHMSA Funding: \$469,060

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NET Improvement

Witten's patented technology was at the time, the first commercial system capable of producing highly accurate, threedimensional maps and images efficiently and noninvasively (without digging) in conditions as much as ten feet underground and based on rapid computer analysis of radar images.

US Patent under DOT Contract: 6,525,539; 6,766,253; and 6,667,709



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Vehicle mounted or smaller hand walked system by operator for rural or urban deployment.

Commercial Partner

This technology was offered by Witten Technologies Inc. of Jacksonville, FL until 2010. No current company information is available.