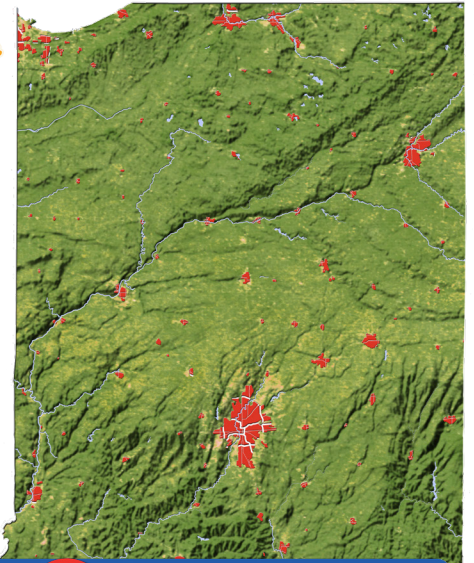


Untethered Acoustic Ball Missed in Sewer Force Main Causing Over \$200,000 Damage to Pump Station



Acoustic Ball Missed Being Caught By Supplier's Crews Causing Major Damage.

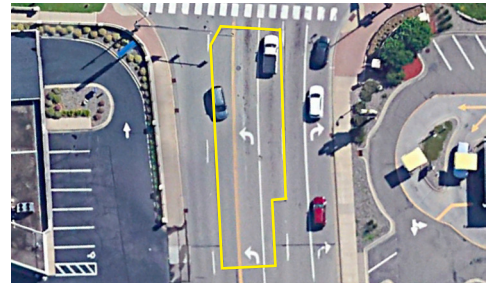
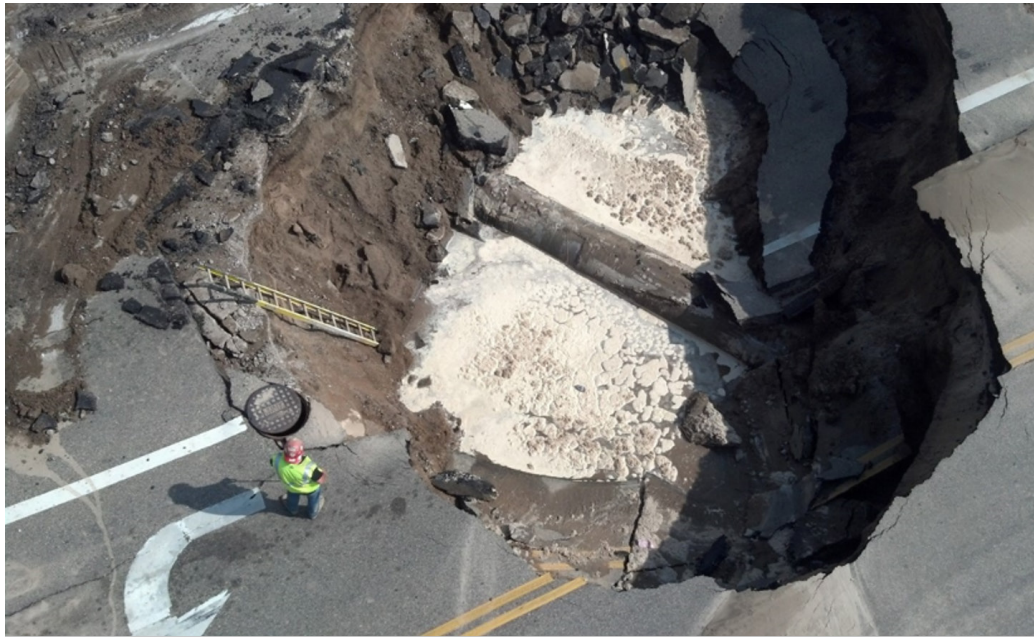
Socal Water Utility Tests Over 200-Miles Using Acoustic Ball Finding ZERO LEAKS.



Untethered Acoustic Ball Misses Leaks And, Catastrophic Failures Follow.

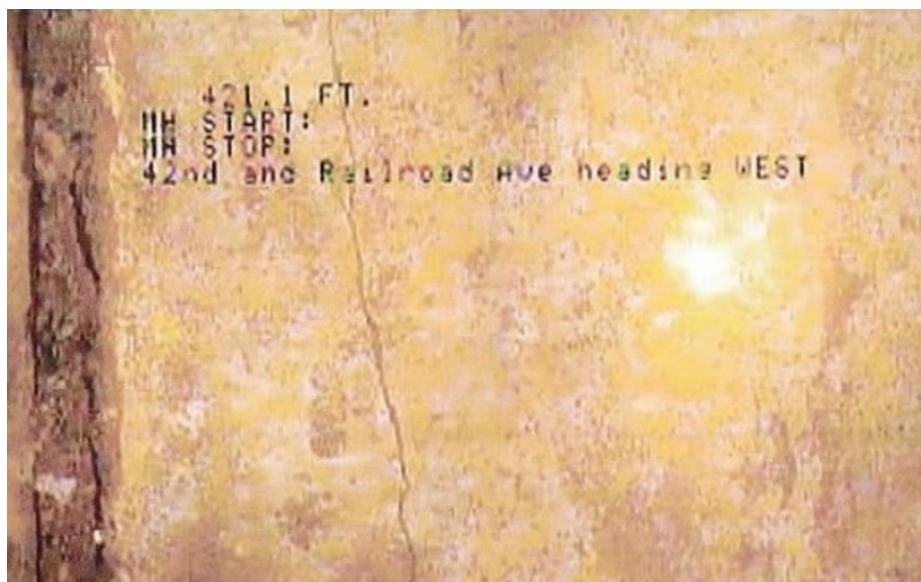
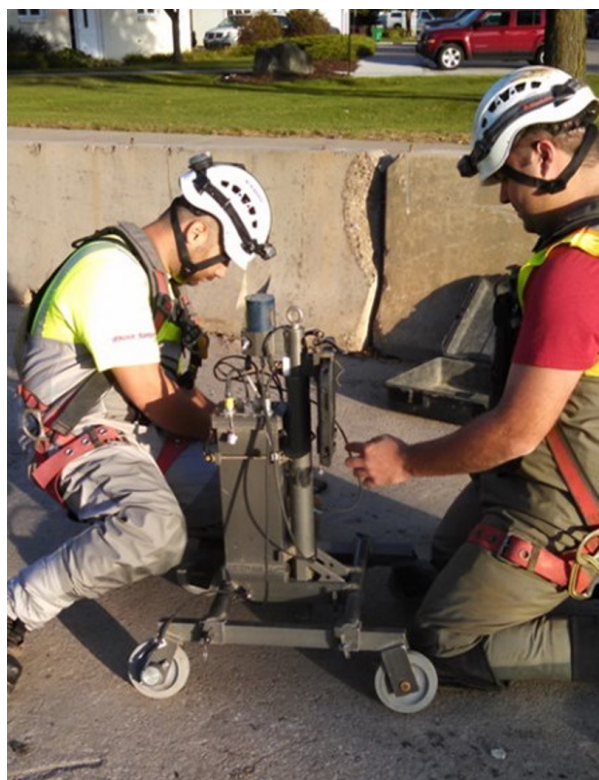


Rupture #1 – After Acoustic Ball Found No Leaks





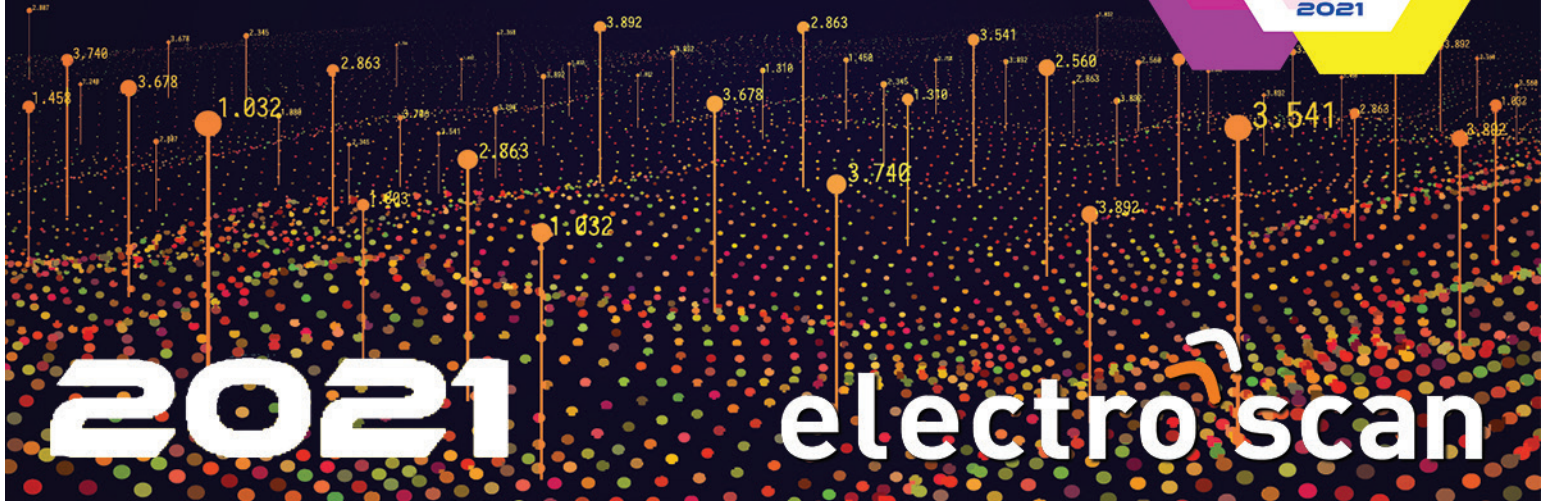
Both Ruptures Cost Over \$2 Million, Each



CCTV of dewatered pipe showed major radial cracks that were not identified as 'LEAKS' using Untethered Acoustic Ball.

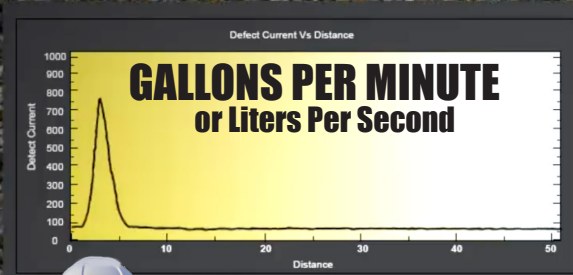
Electro Scan automatically identifies & quantifies leaks from cracks, without dependence on pipe pressure or noise.

LEAK DETECTION SOLUTION OF THE YEAR

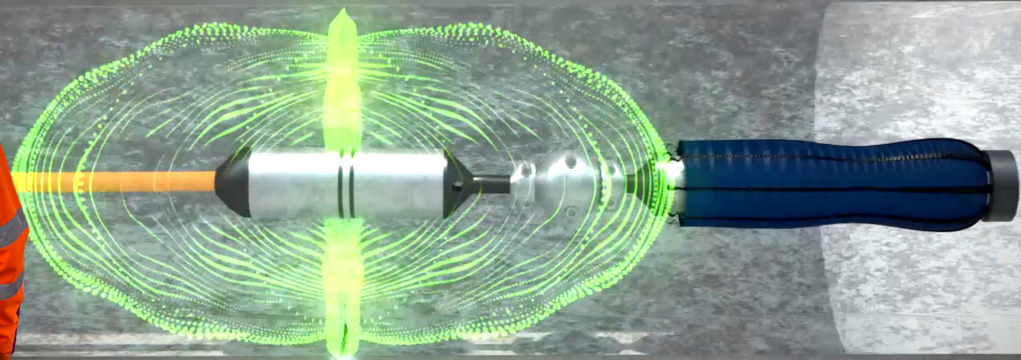


2021

electro scan



- Not Acoustic
- Not Electro-Magnetic
- Not Laser
- Not Pressure Transient
- No Lost Balls Causing Damage



Electric Current Measures Size of Hole



**LISTENING
FOR LEAKS**

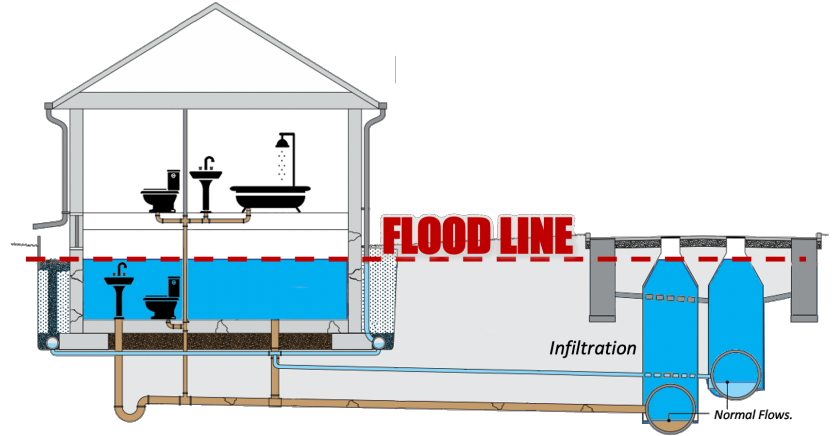


**MEASURING
SIZE OF HOLES**

New Standard for Targeting High Risk Flood Locations

Top 3 Causes of Flooding

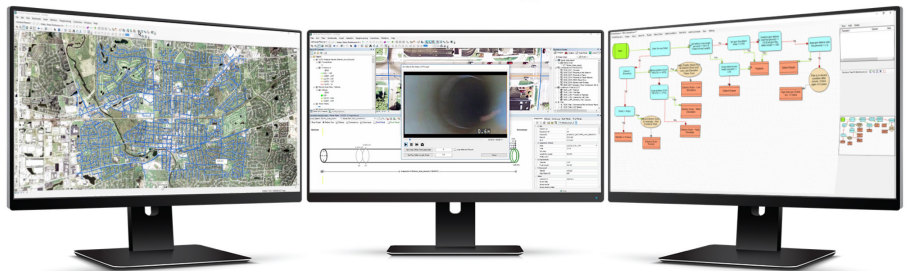
1. Wet-Weather Infiltration into Sewers LEAKS
2. Pipe Blockages
3. Equipment Failure



Seamless GIS Intergration

electro^{scan}

Innovyze[®]



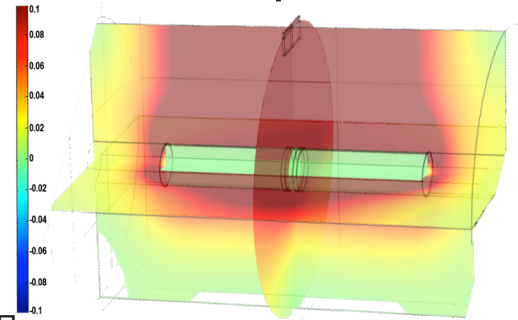
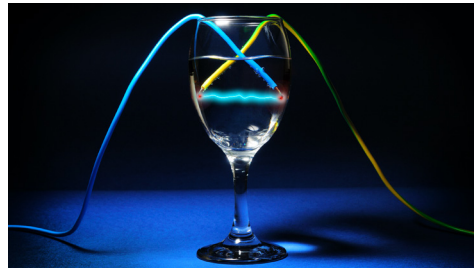
Technology

“Electro Scan’s Focused Electrode Leak Location, is a Game Changing Technology”

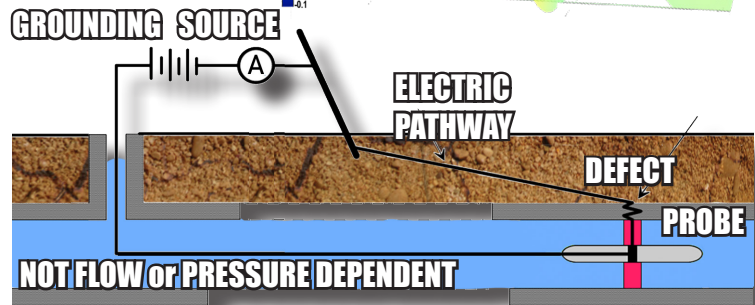


How Do We Find & Measure Leaks?

If a pipe leaks electricity, it leaks water. And can be measured in gallons per minute or litres per second.



Completing The Circuit Finds Every Leak!



Results independently calibrated using COMSOL Multiphysics®.



FELL FINDS LEAKS MISSED BY OTHERS



Acoustic Sensors

Dye Flood Testing



Conductivity

Sonar

“Electro Scan’s Machine-Intelligent Data Replaces Time Consuming, Often Inaccurate Acoustic & Visual Guesswork.”

Team



Chuck Hansen, Founder & CEO.

International pioneer in water & wastewater asset management & condition assessment. Multi-patent holder in pipe leak detection, with nearly 40 years of experience in water & sewer industry. Founded Enterprise Asset Management (EAM) company in 1983 and sold for \$100 million in 2007. Founded Electro Scan in 2011 and Electro Scan (UK) Limited in 2014. Former Chair, ASTM F36.20, Inspection & Renewal Water & Wastewater Infrastructure.



Carissa Boudwin, VP, Chief Revenue Officer.

In charge of corporate wide Technology as a Service (TaaS) and Software as a Service (SaaS) licensing. B.S. George Mason University. Over 5 years with the Company managing data reporting, sales quotes & proposals, technology licensing, and revenue recognition.



Michael Condran, PE, VP, Chief Engineering Officer.

Responsible for engineered quality assurance, quality control, decision support, and reporting, with 25-years of experience with major global engineering firms. Licensed PE in Colorado, Florida, North Carolina, and Washington.



Mike App, VP, Chief Implementation Officer.

Responsible for all Project Implementations & Deliverables, worldwide, with over 10-years of experience in Cured-In-Place Pipe (CIPP) and trenchless rehabilitation industry.



Paul Pasko, PE, VP, Intl. Business Development.

Responsible for International Partnerships and Projects, Pasko brings over 30 years of experience condition assessment & Trenchless rehabilitation projects. In 2019, Pasko was recognized by the American Public Works Association (APWA) as the Professional Manager of the Year Award – Engineering and Technology. Licensed PE in Illinois and Minnesota.



Brad Weston, Director, Electro Scan (UK) Limited.

Responsible for UK and EU Water & Sewer Leak Detection Projects, with Master Certificate in Advanced Low Voltage Conductivity. Prior to working with Electro Scan, Weston worked for WRc doing over 1,000 water insertions.

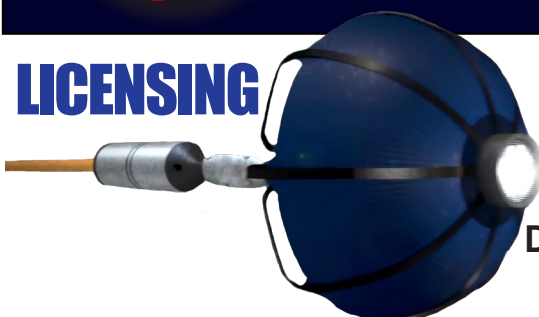
Accurate, Fast, Repeatable



**Field Data
5-Minutes
or Less.**



LICENSING



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