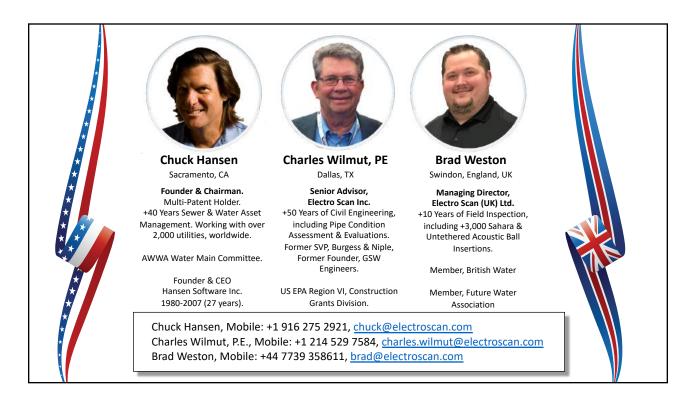
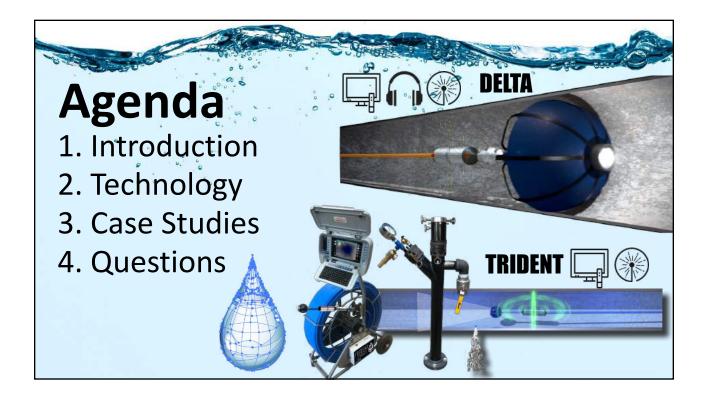


AWWA-Sponsored Webinar "Machine-Intelligent Non-Acoustic Leak Detection"

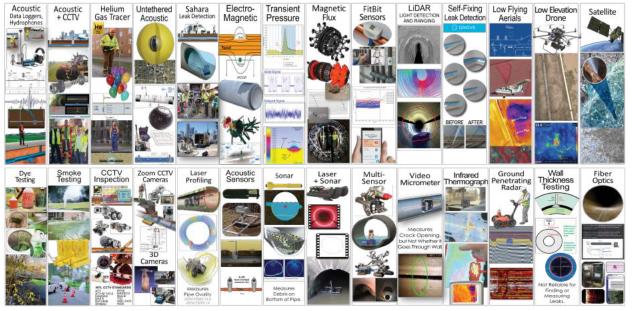






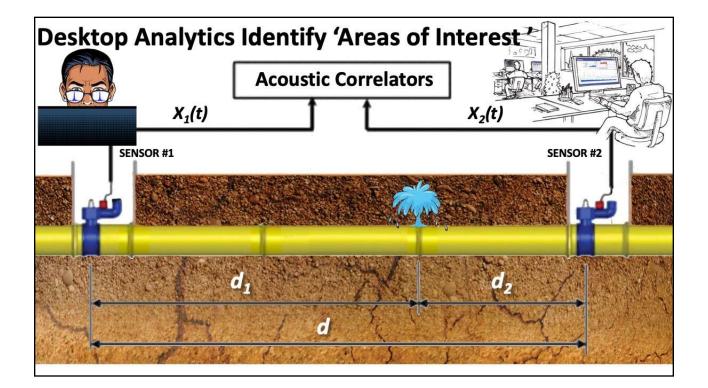


















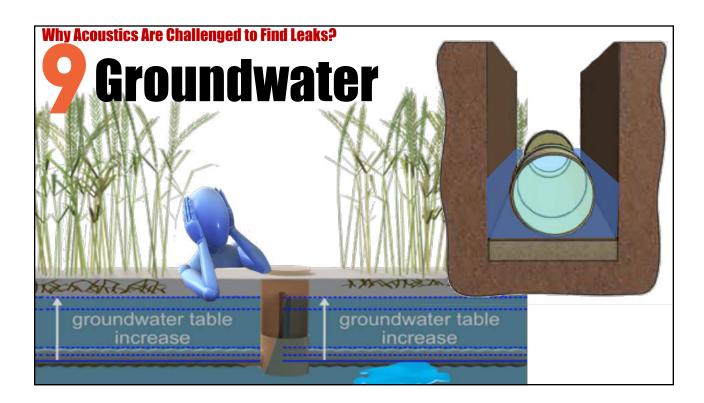








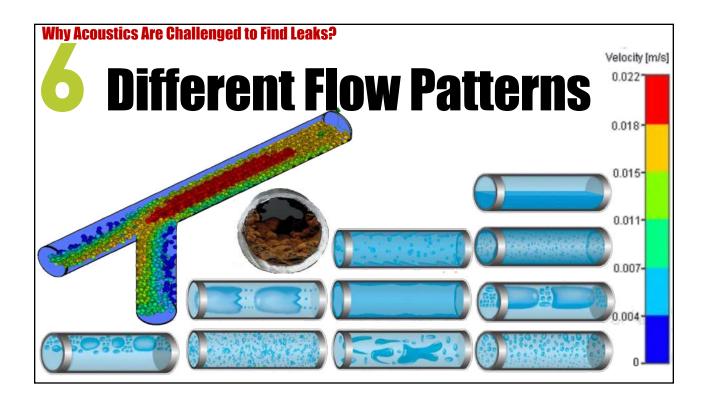




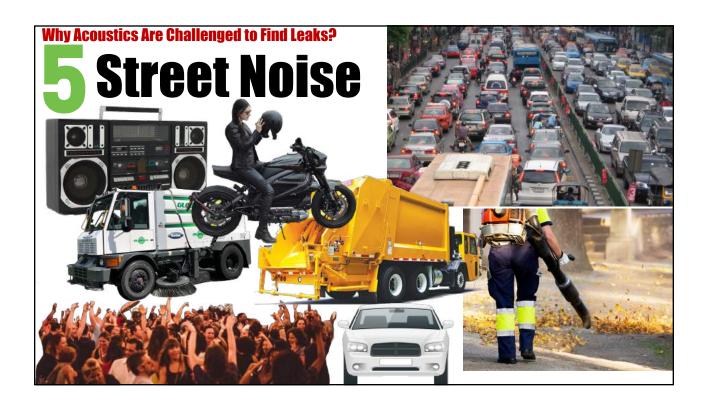






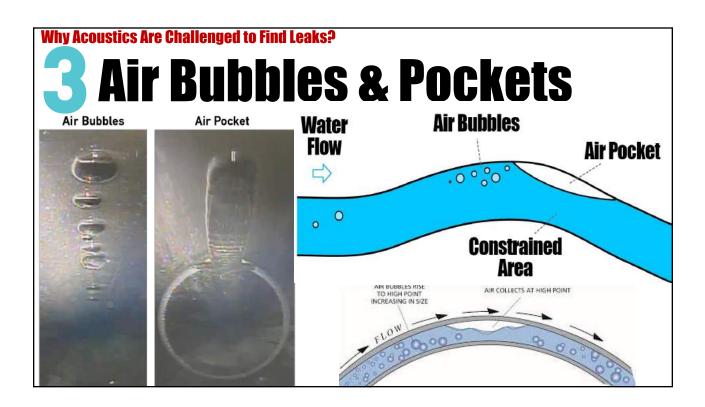


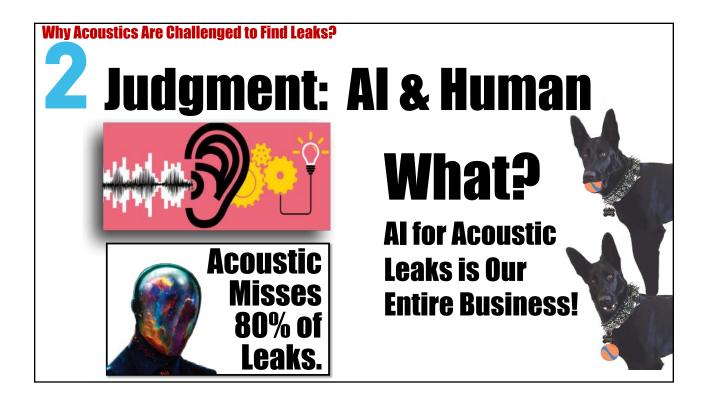






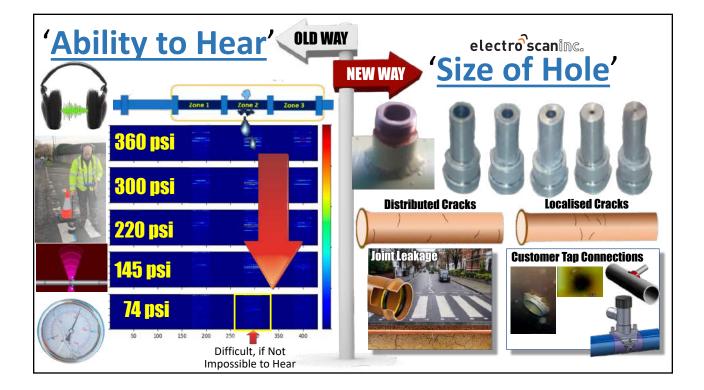










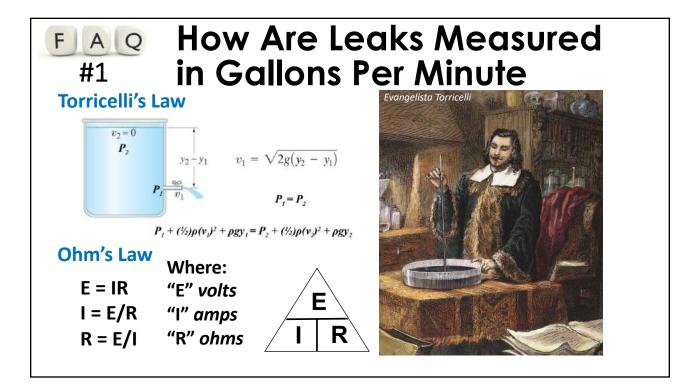


QUICKPOLL #2	
Electro Scan Surveys Are Dependent on Which of the Following:	
A. Ambient & Street Noise B. Pipe Pressure	
C. Groundwater & Surrounding Ponding D. Flow Velocities	
E. Choose Multiples	



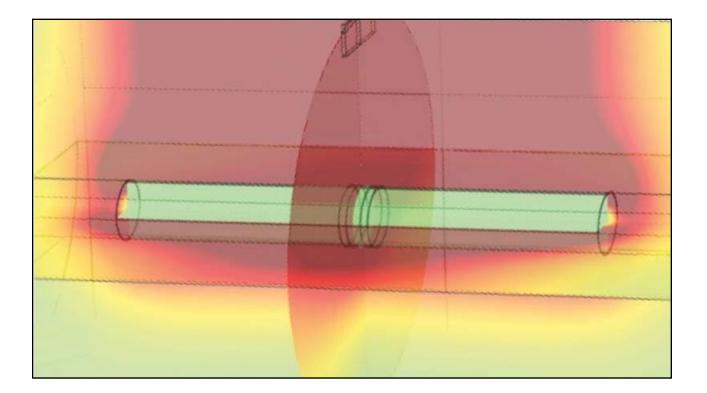




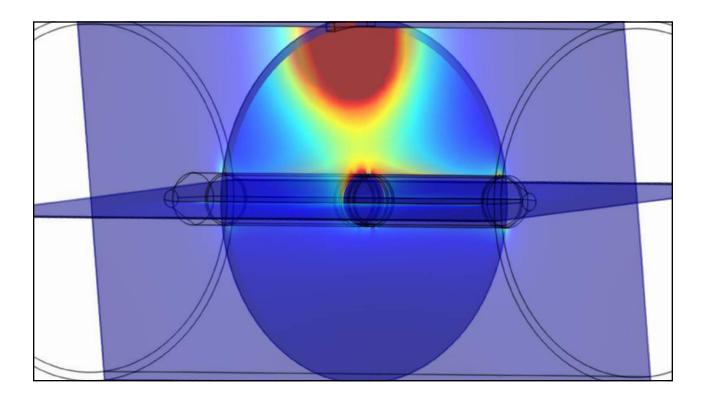


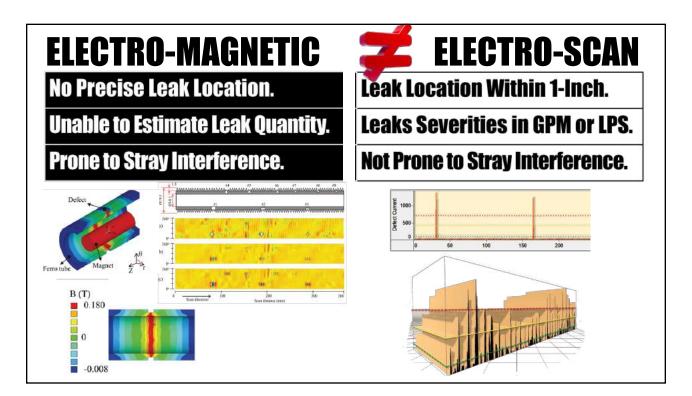
AWWA-Sponsored Webinar "Machine-Intelligent Non-Acoustic Leak Detection"

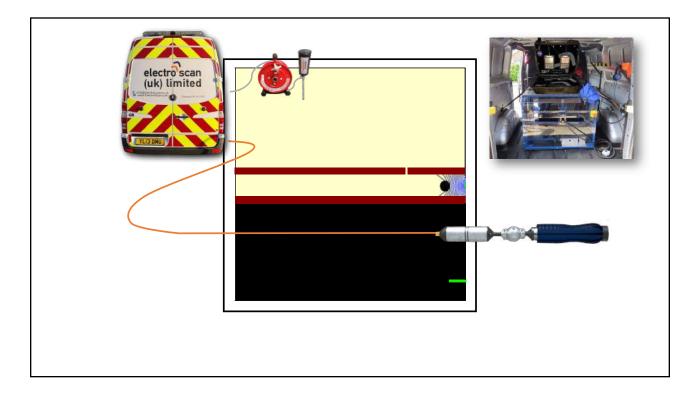


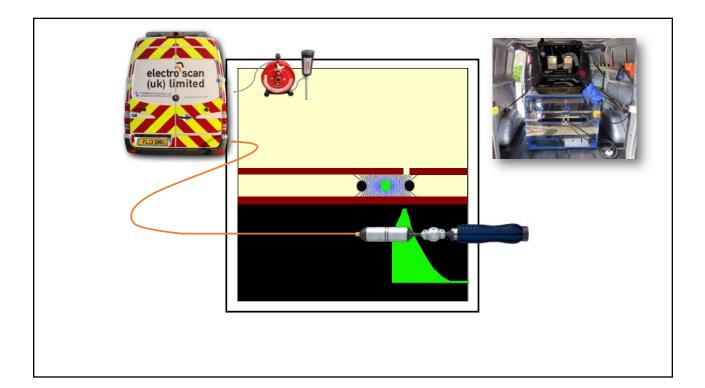




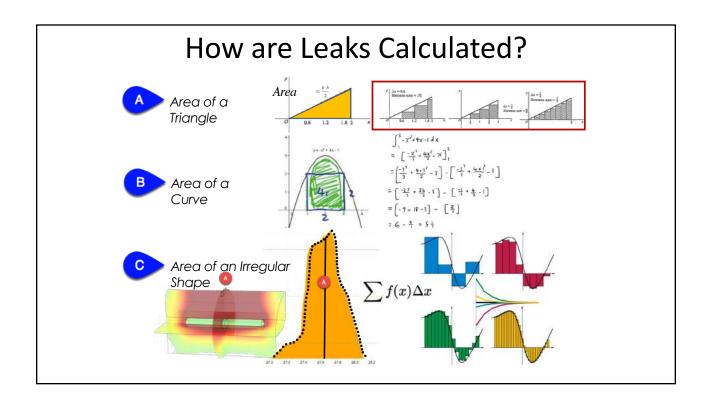


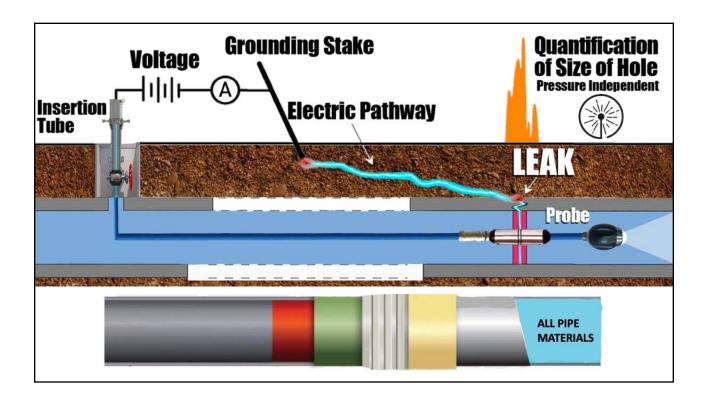


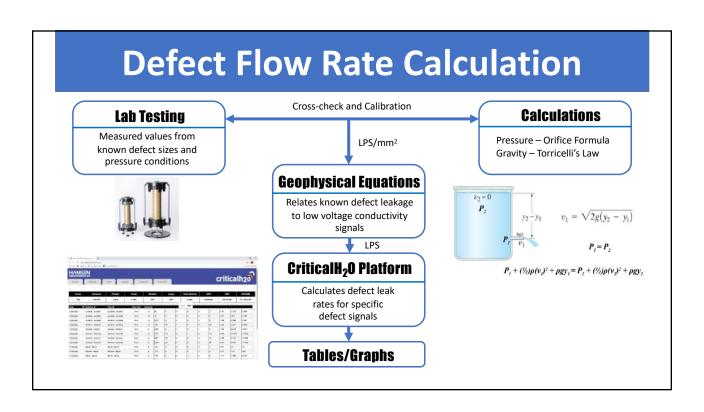


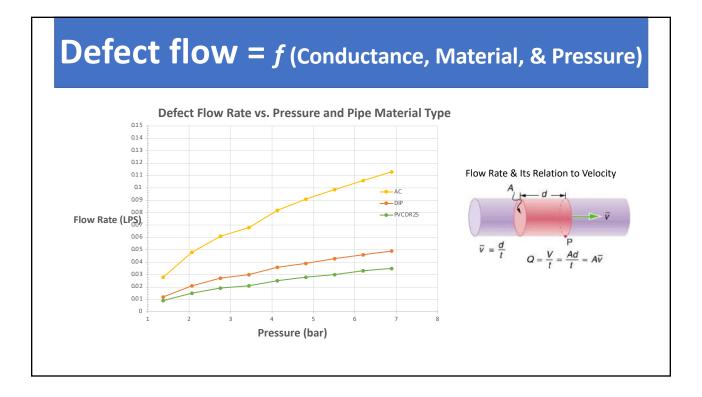


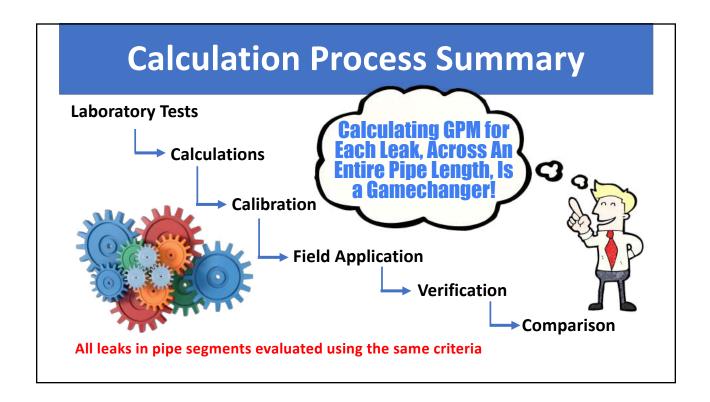


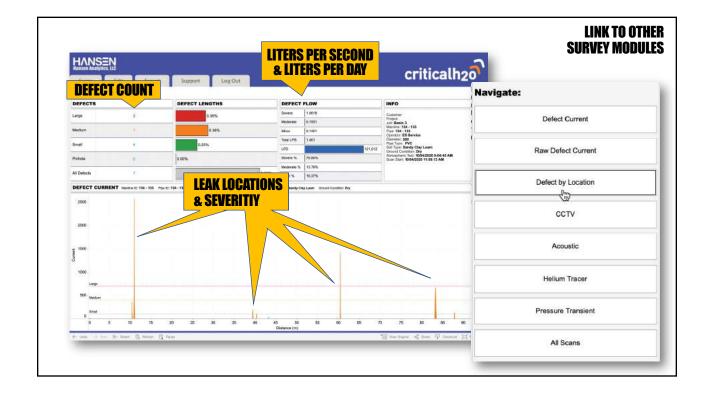


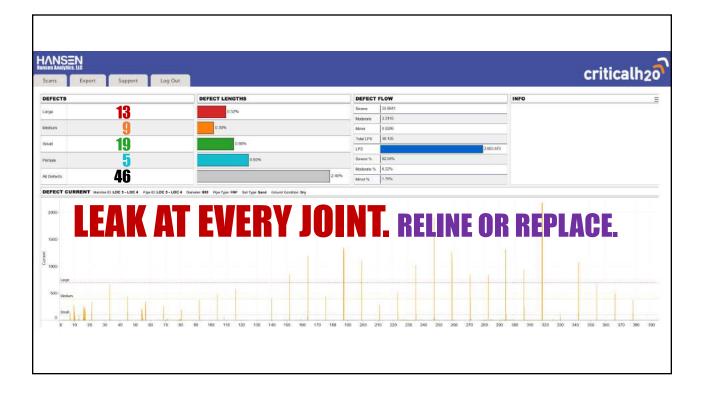




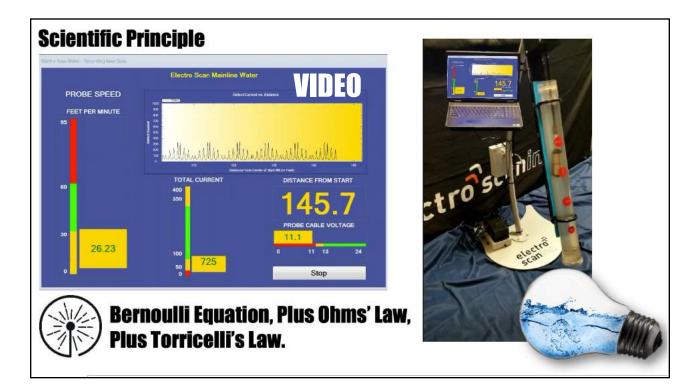


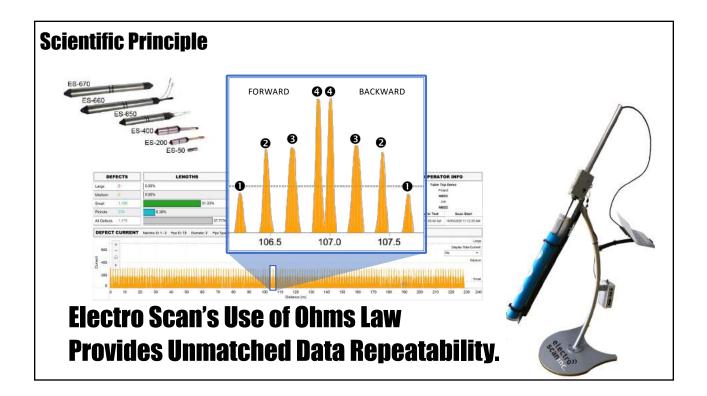


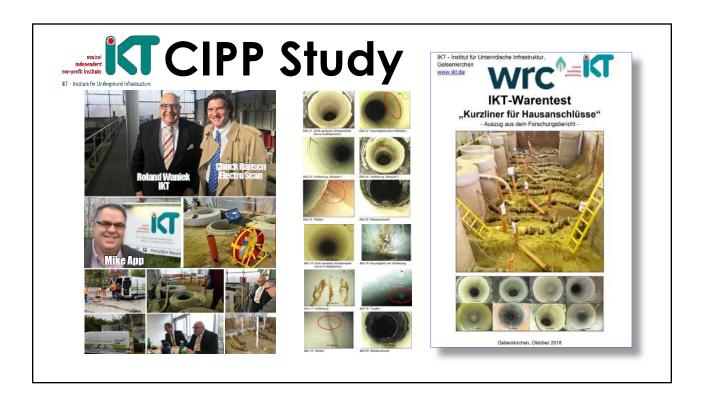


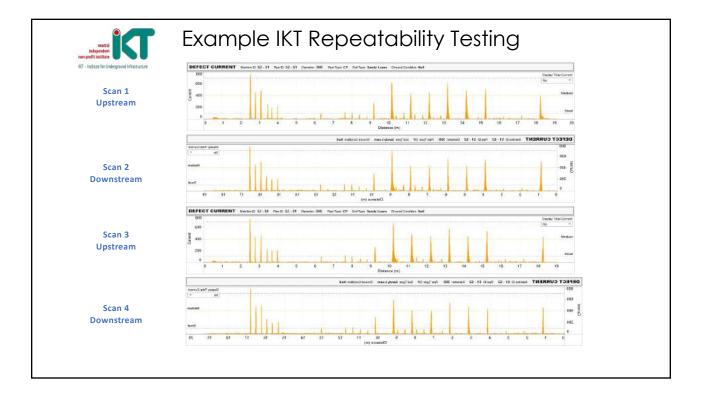


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EFECTS	DEFECT LENGTHS	DEFECT FLOW		
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1		Moderate 0.1274		
idum 🗧	0.06%	Minor 0.0195		
uat U	0.23%	Total LPS 2.414	208,596	
thole	0.00%	Severe % 95.19%	256,399	
^{shole} 5	0.00%	Moderate % 0.70%		
Defects	0.64%	ter a later		
EFECT CURRENT Variation ID GV 05 - END CAP Pipe ID GV 05	-DDC CAP Darretr 225 Mpr Type OVP See Type Band Ground Caroliton Bay	Miner % 0.11%		

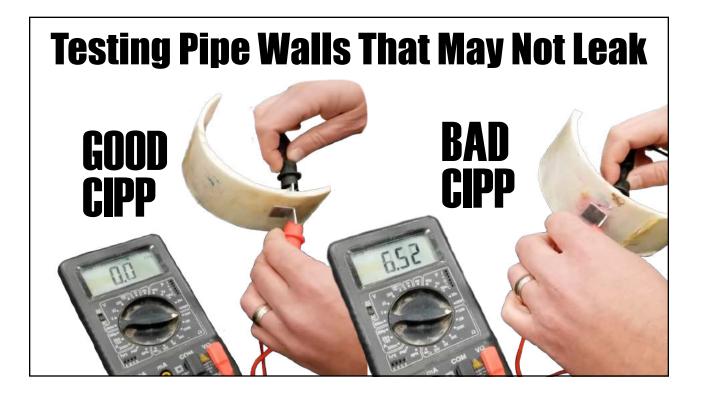








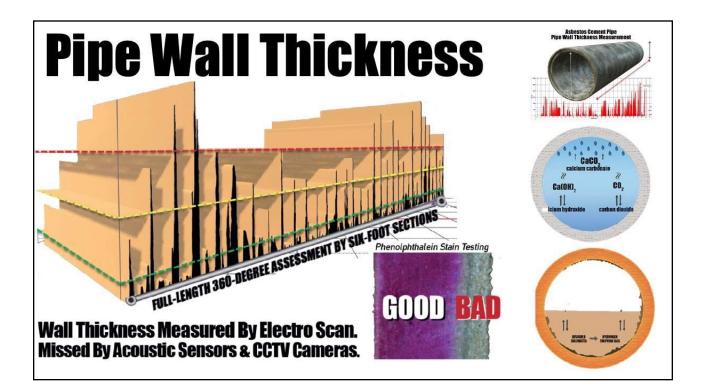
PECT CURRENT	THURSEN DO 201-100-1001 - 220-100-1002 March D 23	185-1998 - 356-185-1887 Damater & Pare Type O	PP Stid Type City Lease Ground Condition Dry	10.0				Length (f.,	GPM	% of G			delonilo/
. 7	17	TOTAL C	PM = 14.51	GPM S	UMMARY	Total:	6	2.651	14.510	100%			91,041
		I U IAL U	IFM = 14.JI		0.000	1087 Diamet	BY LOCATIO	NN Maximo (C Type: CIPP Bo	338-185-185 1 Type: Clay Lo	8 - 338-185-19 am Cround C	87 Pipe ID: onditor: Dry	338-185-1888	88 - 238-12
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0) Medure	0.43%			-GPD IDM	91,041 8 32%	3 M	94.79 96.46	95.08	0.30		2.48%	5.659	2,259
tenel ko	Y 0.15%				5.59%	×	134.94	97.31	0.85		1.17%	245	1.067
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ELL SUI	vey Date: 11/2	9 20 22 24 26 26 W	Dalasta Ini		5-46 56 58 63 63 64	Total;	Defecti 21	3.520	15.730	100%	•1 <i>G</i> / 22,6		24 (1 DI A 94,940
	vey Date: 11/2	99 20 22 24 26 38 25/2019 28.182398 Daniel Strong Pijst (pp. GP	Dalance (n) 9 Sol Type Day Learn Struct Condition Bay	10.0		Total:	21	3.530	15.730	100%	22,6	551 9-	94,940
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ACC CURREN ACC DEFE Large Moduli Moduli	LENGTHS 1 0.59% 1 0.59% 1	99 20 22 24 26 38 25/2019 28.182398 Daniel Strong Pijst (pp. GP	Dalance (n) 9 Sol Type Day Learn Struct Condition Bay	10:0 GPM SU Kłódstała C Minoz T Tatal GPM T GPD EM Severe S 4 Módstała S	UMMARY 4 530 000 600 6 710 22 622 94,019 4 43%	Total; DEFECT Durate Since POINTOT X X X X X X X	21 BY LOCATIC via Past Tues C 13.17 74.11 74.28 74.45 74.56	3.530 DN tament PP Sol Type 13.27 74.13 74.41 74.43 74.61	15.730 Cay Leave C Cay Leave C Cay Dave C C Cay Leave C C C Cay Leave C C C Cay Leave C C C C C C C C C C C C C C C C C C C	100%	22,6 22,6 2,7 2,7 2,7 2,7 1,7 1,7 1,7 1,7 1,7 1,7 1,7 1	551 94 0 338-185-39 0 20 86 14 86 29 43	94,940 5588 612006 362 60 362 121 181
FECT CURRENT HERE 200 HERE 200 HERE 200 Large Modum Street Printyski	LENGTHS 0.09% 0.0%% 0.0%% 0.0%%	10 20 20 30 30 30 20 25/2019 10 10 2010 10 10 10 10 10 10 10 10 TOTAL (onere en * totas taylan: Inselfantes de GPM = 15.71	10:0 GPM SU Kłódstała C Minoz T Tatal GPM T GPD EM Severe S 4 Módstała S	UMMARY 4 530 000 000 5100 22 622 64,819 64,819	Total: DEFECT Derect States 6 to DEFECT X X X X X X X X X X X X X	21 BY LOCATIO 10 CONTROL 20 CONTROL 21 TAL 21 TAL 22 TAL 24 TAL 24 TAL 24 TAL 24 TAL 24 TAL 24 TAL 24 TAL 24 TAL 24 TAL 25 TAL 2	3.530 DN tastes PP Sol Type E00F03 E 13.27 74.13 74.41 74.43 74.61 80.02 83.17 83.12 97.87	15.730 c 338.188.18 Gay Loan C 0.10 0.02 0.12 0.03 0.05 0.00 0.30 0.00 0.38	100%	22,6 687 Pi=10 7 Dig 7 O 101 0 38% 0 08% 0 38% 0 19% 0 19% 0 06% 0 76%	551 9- 538-185-29 0000 10 86 14 86 29 43 14 173 14 778	94,940 5558 02,0116, 362 60 362 121 181 60 724 60 3,259
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FECT CURRENT HERE 200 HERE 200 HERE 200 Large Modum Street Printyski	LENGTHS 0.09% 0.0%% 0.0%% 0.0%%	10 20 20 30 30 30 20 25/2019 10 10 2010 10 10 10 10 10 10 10 10 TOTAL (onere en * totas taylan: Inselfantes de GPM = 15.71	10:0 GPM SL Bevere 11 Modsrate 0 Modsrate % Modsrate %	UMMARY 4 533 050 050 050 2 2 523 94,819 4 43% 57%	Total: DEFECT Destate Sec X X X X X X X X X X X X X X X X X X X	21 BY LOCATION The Part Type Content 13,17 74,11 74,28 74,45 74,45 74,45 80,02 82,87 83,12 97,49 96,19 139,50 150,29	3.530 DN theofiles PP 50 Figure 13.27 74.13 74.41 74.41 74.43 74.61 80.02 83.12 97.87 100.09 139.67 150.29	15.730 c) 238 168 18 Cary Leven C Cary Leven C Cary Leven C Cary Leven C Cary Leven C 0.10 0.02 0.12 0.05 0.00 0.05 0.00 0.38 0.90 0.38 0.90 0.17 0.00	100% 100% 100% 100% 100% 100% 100% 100%	22.6 2017 Pipell 2019 2010 2017 2010 2017	SS1 9+ D 338 186 20 0 86 14 86 14 94 14 173 14 778 6,667 115 14	94,940 0120116 362 60 362 121 181 60 724 60 3,259 27,945 483 60
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RECT CURRENT REC 2000 REC 2000 DEFE Larga Modum Smal Pisteds Al Defect Smal Pisteds	LENGTHS 1 0.0545 0 0.0545 1 0.0545 0 0.0545 1 0.0545 1 0.0545 2 0.0545 5 27	10 20 20 30 30 30 20 25/2019 10 10 200 10 10 10 10 10 10 10 10 10 10 10 10 1	onere en * totas taylan: Inselfantes de GPM = 15.71	10:0 GPM SL Bevere 11 Modsrate 0 Modsrate % Modsrate %	JIMMARY 4833 600 680 6710 228622 94(895 445% 405% 657% 57%	Total: DEFECT Demarker Since X X X X X X X X X X X X X X X X X X X	21 BY LOCATIC Figure Tear Ton Co Define the tear of the tear of the tear of	3,530 DN Database Sol Type 13,27 74,13 74,41 74,41 74,43 74,61 83,17 83,12 97,87 100,09 139,67 150,54 150,71 150,24	15.730 1.326.148.50 (1.97 Lean 0. 0.10 0.02 0.12 0.03 0.00 0.30 0.00 0.30 0.00 0.30 0.00 0.30 0.00 0.38 0.00 0.30 0.00 0.38 0.00 0.30 0.00 0.30 0.00 0.30 0.00	100% 100% 100% 100% 100% 100% 100% 100%	22.6 647 Part 1 by construction 0.38% 0.06% 0.06% 0.5% 0.26% 0.5% 0.5% 0.5% 0.5% 0.26% 0.5% 0.5% 0.5% 0.5% 0.26% 0.5% 0.5% 0.5% 0.5% 0.26% 0.26% 0.5% 0.5% 0.5% 0.5% 0.26% 0.26% 0.5% 0.5% 0.5% 0.5% 0.5% 0.26% 0.26% 0.5%	Stat 9 0120 01 0120 01 0120 01 0120 01 0120 01 0120 01 0120 01 0120 01 0120 01 0120 01 0130 01 014 01 015 14 030 14 030 14 14 14	94,940 9558 962 960 960 960 960 9724 960 9,7545 483 960 1811 2411 960 9,7545 483 960 1811 2415 90 90 90 90 90 90 90 90 90 90
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RECT CURRENT REC 2000 REC 2000 DEFE Larga Modum Smal Pisteds Al Defect Smal Pisteds	LENGTHS 1 0.0545 0 0.0545 1 0.0545 0 0.0545 1 0.0545 0 0.0545 1 0.0545 2 0.0145	10 20 20 30 30 30 20 25/2019 10 10 200 10 10 10 10 10 10 10 10 10 10 10 10 1	onere en * totas taylan: Inselfantes de GPM = 15.71	10:0 GPM SL Bevere 11 Modsrate 0 Modsrate % Modsrate %	JIMMARY 4833 600 680 6710 228622 94(895 445% 405% 657% 57%	Total: Derect Co Control Control Control Control X X X X X X X X X X X X X X X X X X X	21 87 LOCATION 18 Particle Control 18 Topological 1	3.530 3.530 3.537 3.537 3.537 3.27 3.27 3.27 3.27 3.27 3.27 3.27 3.27 3.27 3.27 3.27 3.12 97.87 100.09 130.67 150.54 150.	15.730 1.336.186.95 (207.167.01 0.10 0.02 0.12 0.03 0.02 0.00 0.17 0.17 0.11 0.00 0.00 0.00 0.11 0	100%	22.6 25.5 25.5 25.5 25.5 25.5 25.5 25.5	SS1 9+ 338.116.30 0 000 0 014 0 06 14 06 14 070 0 14 173 14 1778 0.067 115 14 68 14 368 14 14 29 14 115 14 14 29	94,940 92410 362 60 362 121 181 60 3,259 27,945 483 60 181 241 60 181 241 60 0,356 60 181 241 60 181 241 60 181 241 60 181 60 181 181 60 181 181 60 181 241 60 60 181 241 60 181 241 60 60 181 241 60 60 181 241 60 60 181 241 60 60 181 241 60 60 181 241 60 60 181 241 60 60 60 181 241 60 60 181 241 60 60 60 60 60 60 60 60 60 60
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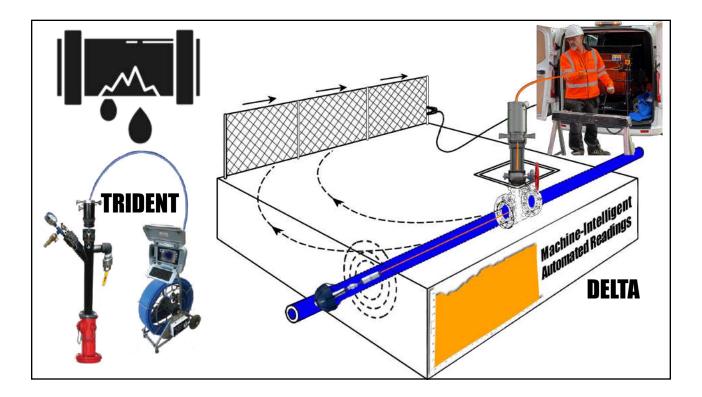




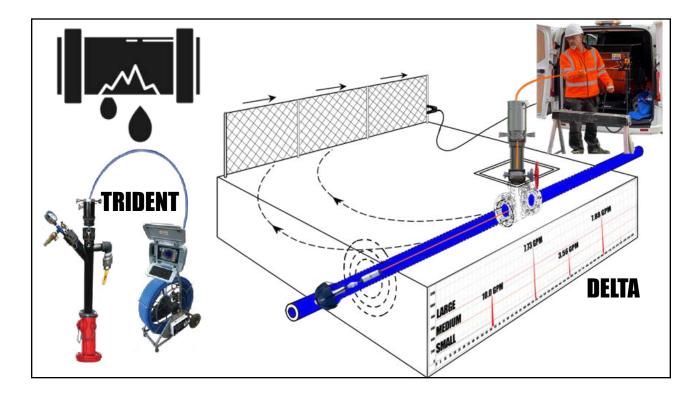








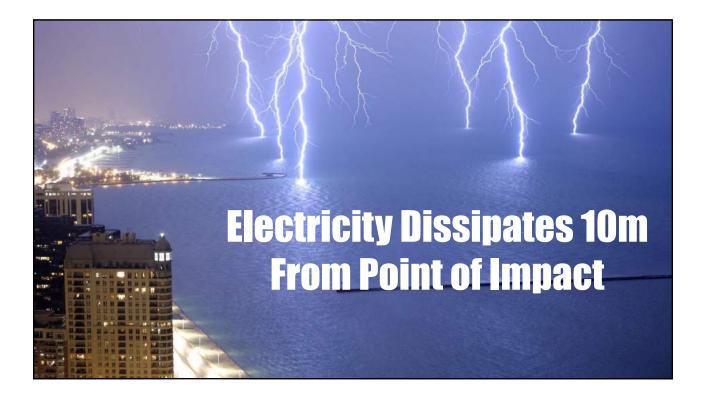






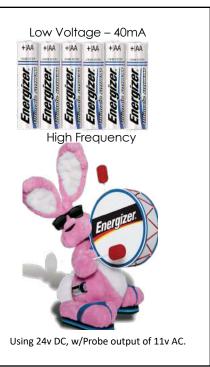


AWWA-Sponsored Webinar "Machine-Intelligent Non-Acoustic Leak Detection"

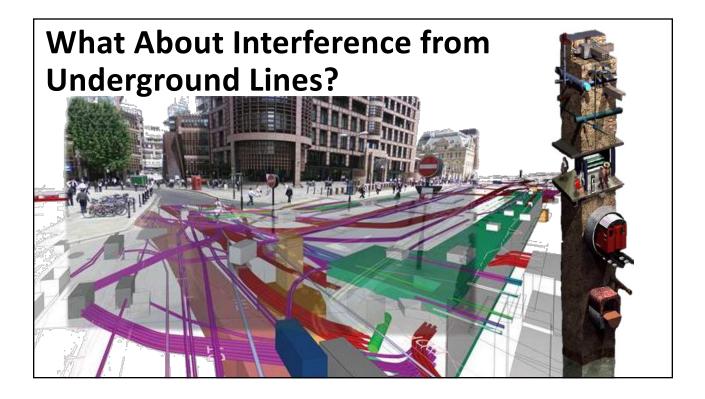


Electro Scan 'Fully & Safely' Dissipates in Less Than 1 Meter











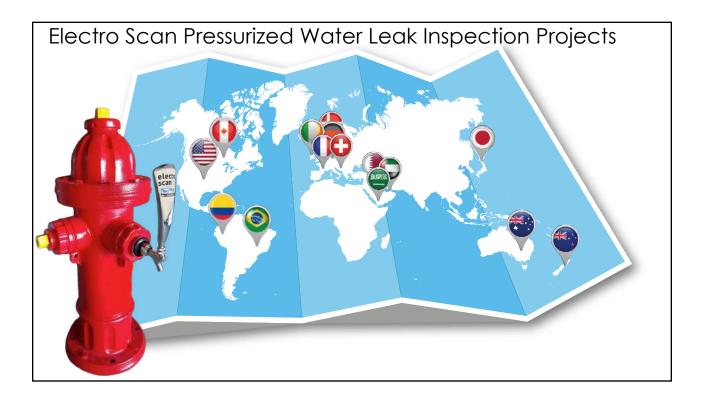




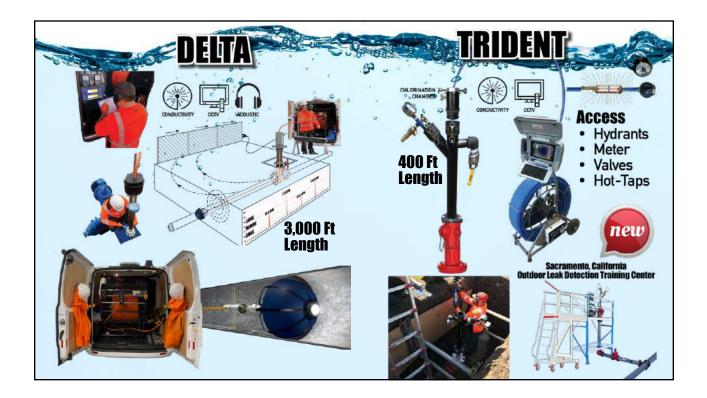


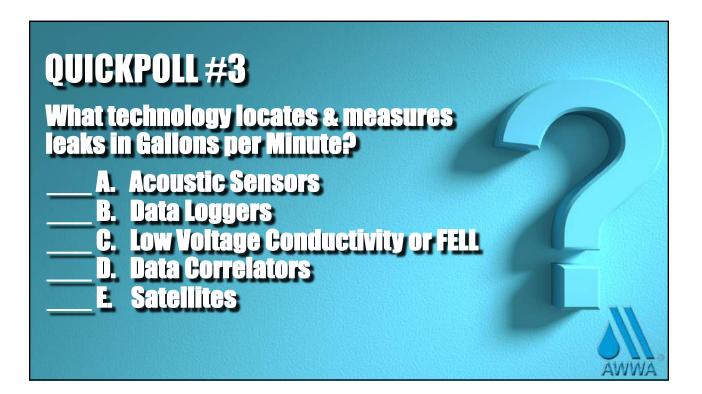






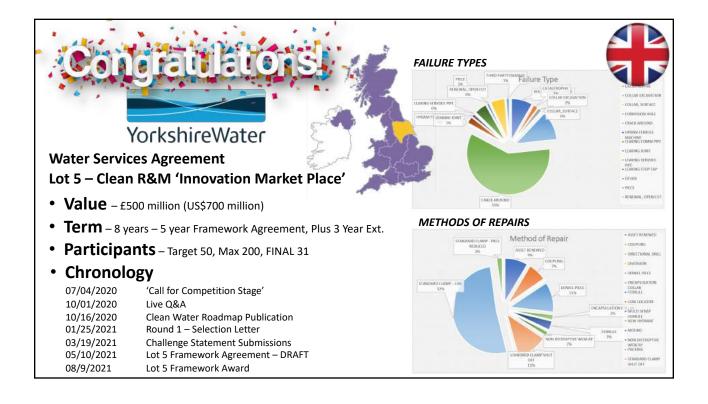


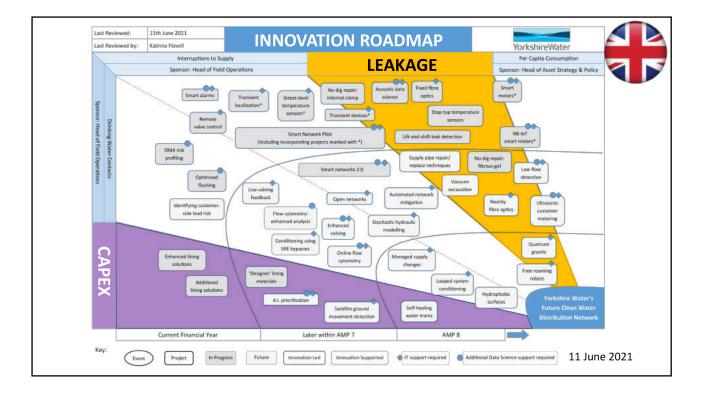


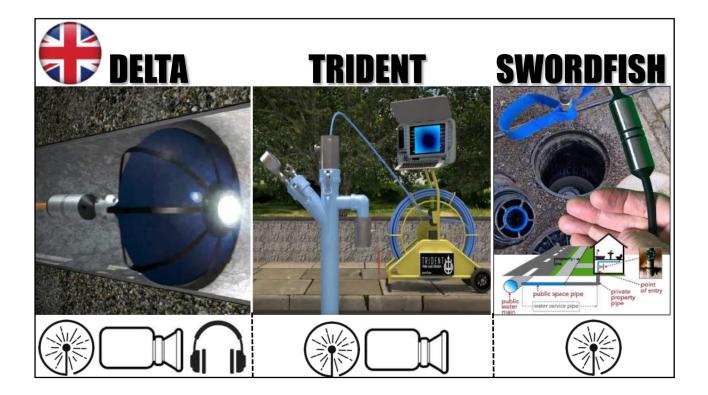




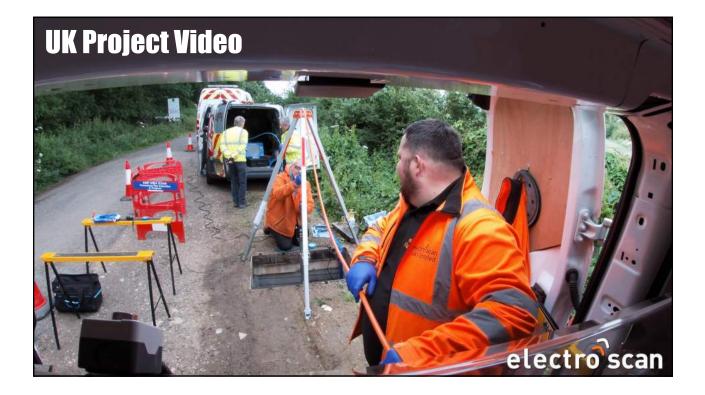




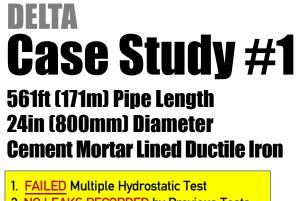












- 2. NO LEAKS RECORDED by Previous Tests a. Acoustic Hydrophone
 - b. Data Loggers & Helium Tracer
- c. In-Pipe Tethered Acoustic Sensors
- 3. PRESSURES are Erratic
- 4. FLOW is Turbulent
- 5. NOISEY Street Traffic



Hydrochute Selection **By Pipe Diameter & Flow** PIPE SIZES IN MM AND INCHES 305 381 457 533 610 MM M/S 12 15 18 21 24 INCHES 0.1 250 300 400 500 550 0.2 250 300 400 500 550 0.3 250 300 400 450 500 0.4 250 300 400 450 0.5 250 300 400 400 450 L 0.6 200 300 350 400 450 O 0.7 200 250 300 400 400 0.8 200 250 300 400 400 W 0.9 200 200 300 300 300 1 200 200 250 250 300 >1 100 200 250 250 250 300/50 300/50 300/50 300/50 300/50 300/50 300/50 >1.5 100 200 200 200 200

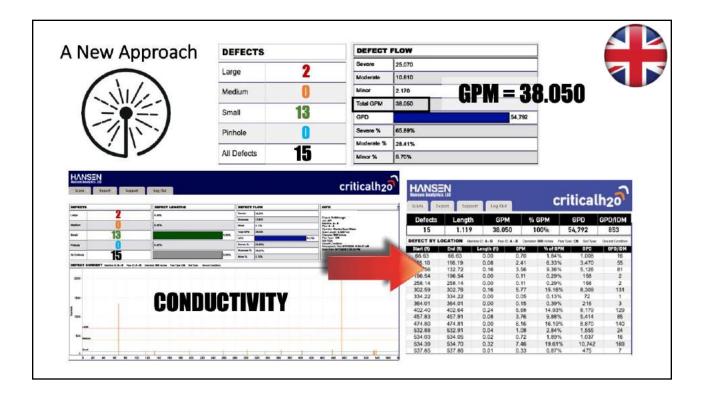






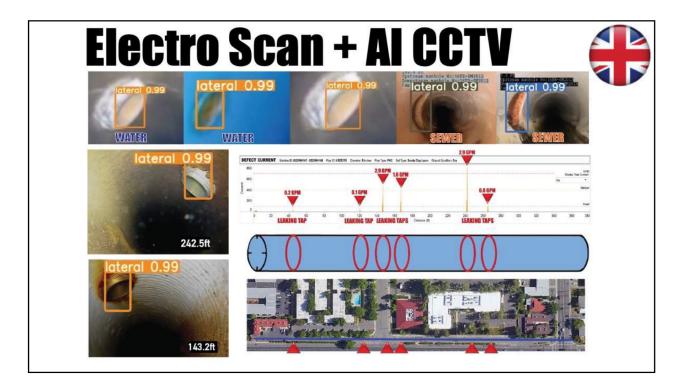




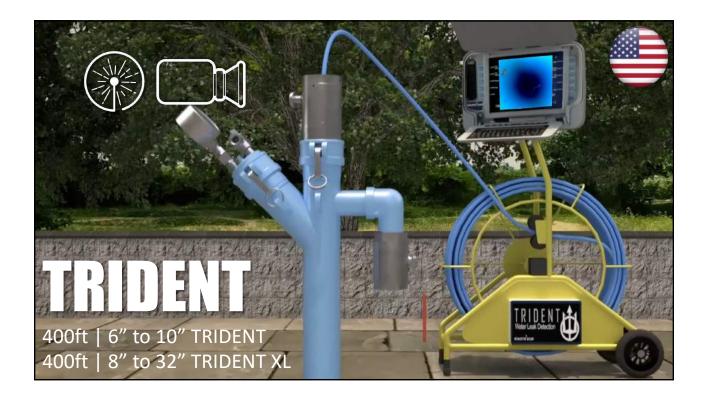


electro scan inc. Email: info@electroscan.com Website: https://www.electroscan.com





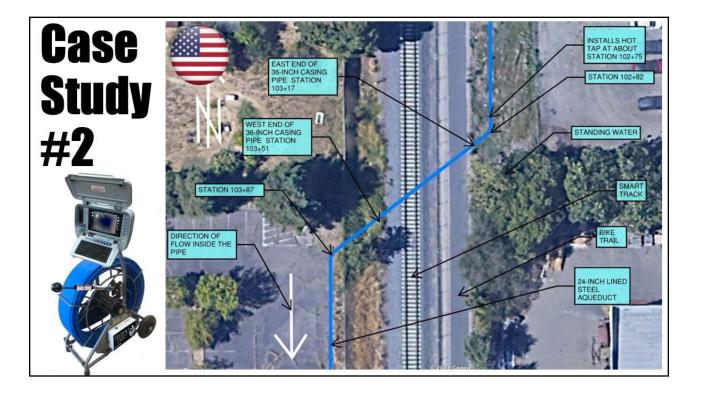




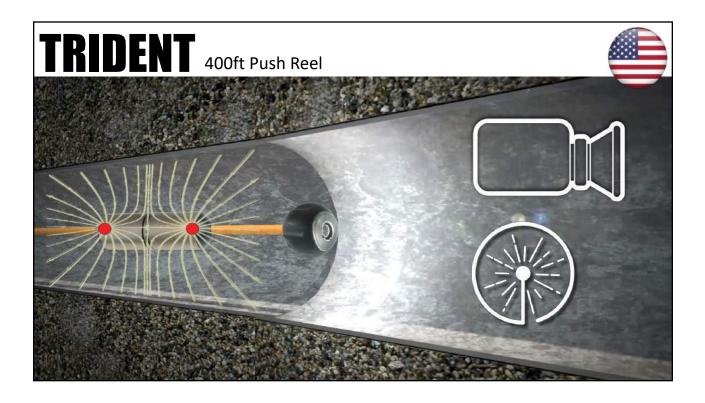












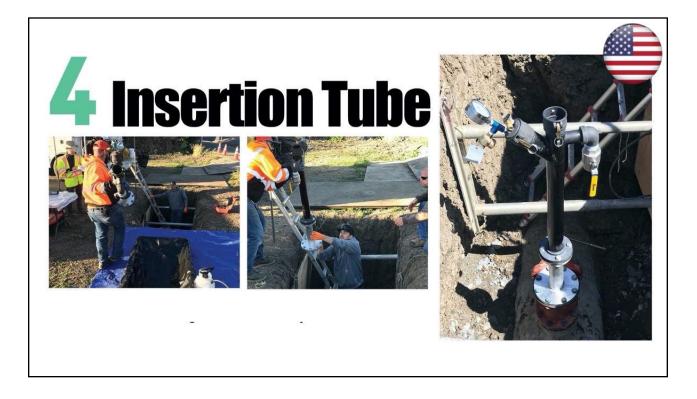




2 FIOW N Electro Scan first meas flow direction before an	sures flow velocity and 👫 📕	
Q = A × Fi × Fp × Vm		
Where: • Q: flow rate: • A: Internal cross section (calculated by Winfluid software from the inside diameter, DI) • E: Insertion factor (calculated by the Winfluid software) • E::::::::::::::::::::::::::::::::::::	Measured Velocity Vm	



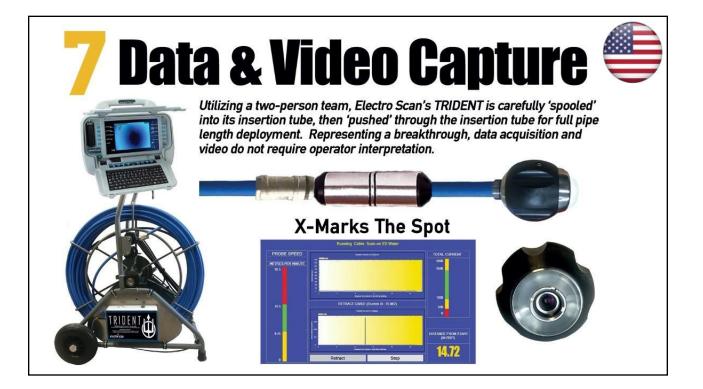












electroscaning Email: <u>info@electroscan.com</u> Website: <u>https://www.electroscan.com</u>



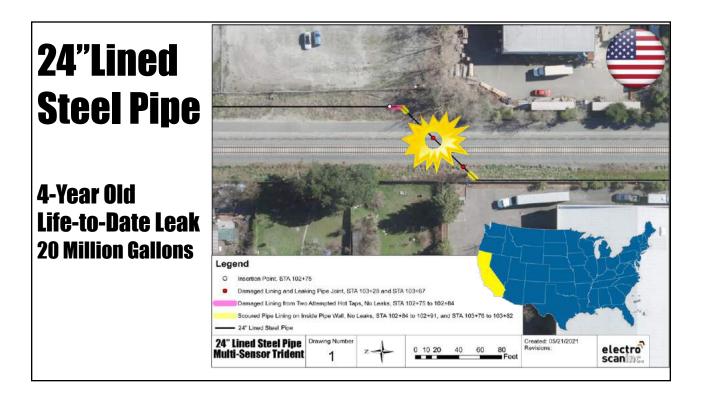








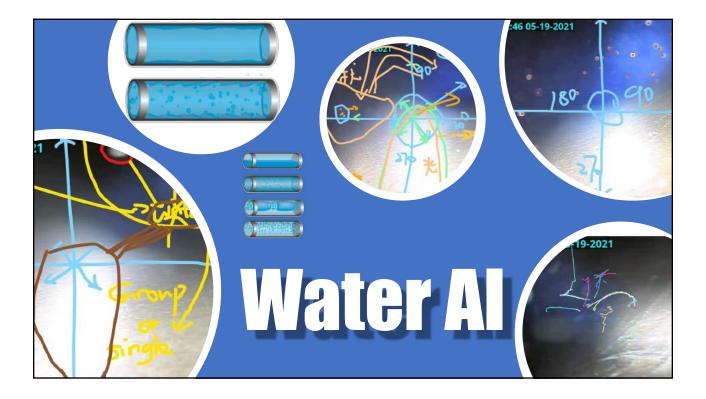




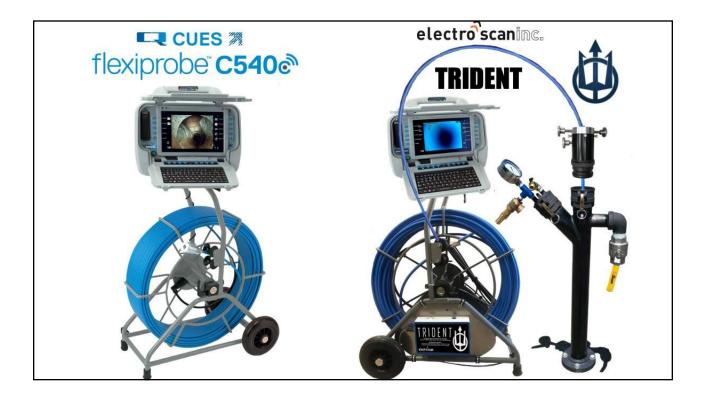


















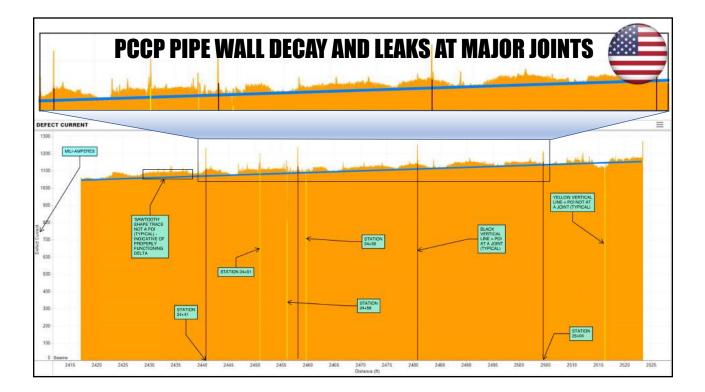






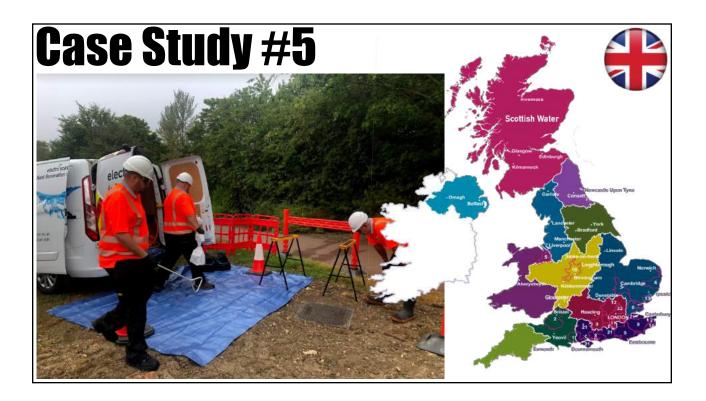


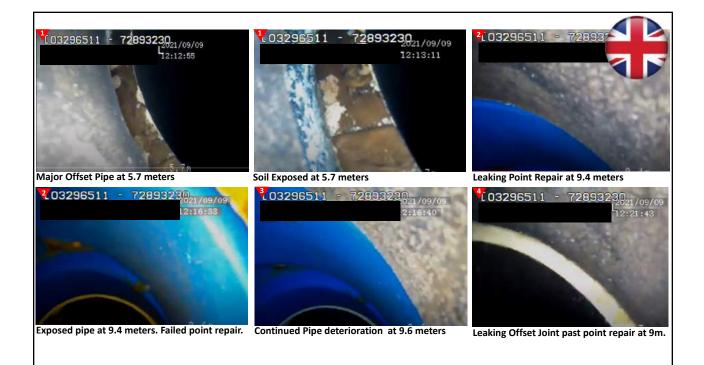






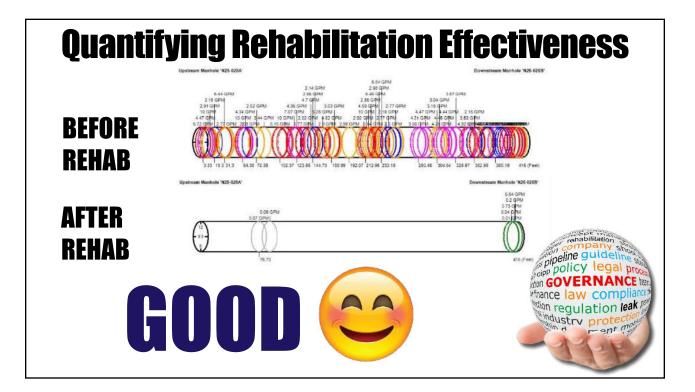
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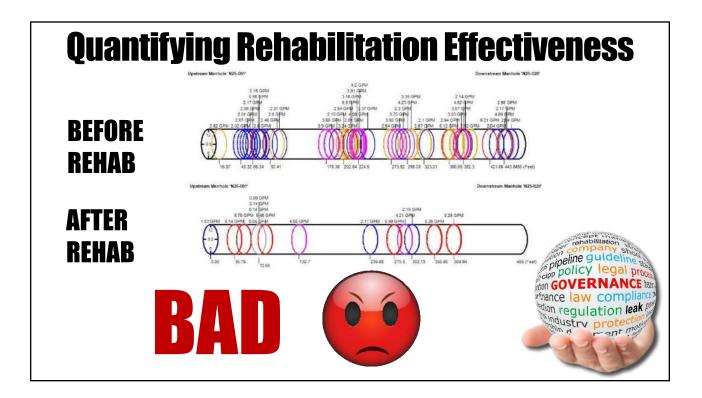


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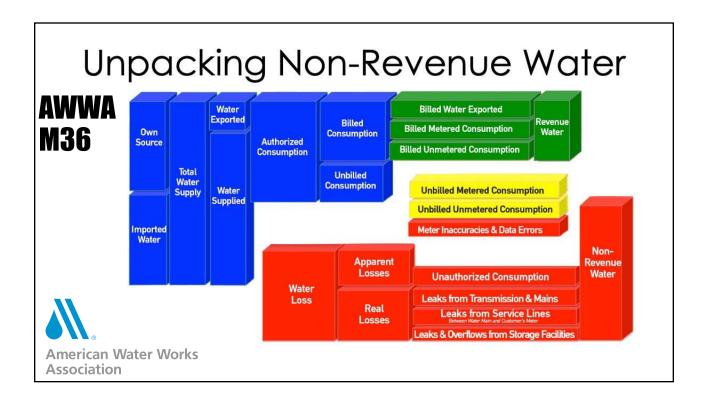


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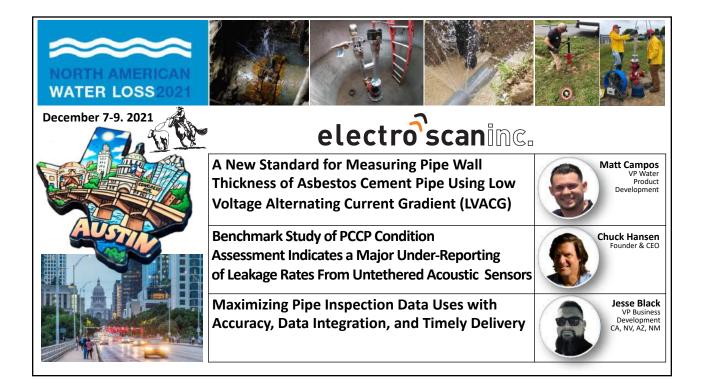


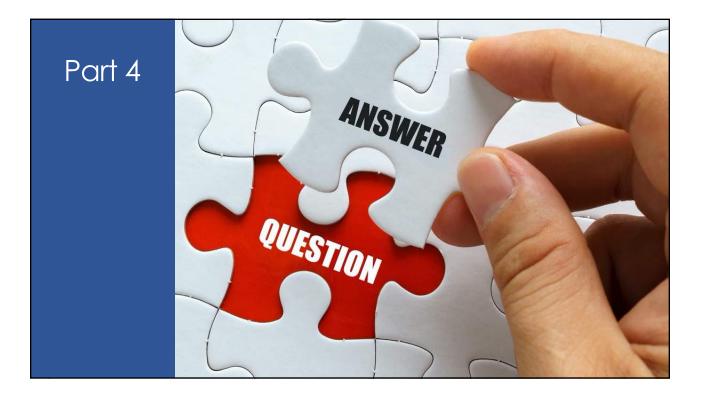
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The Problem We Solve

Overcome The Inaccuracies of Acoustic Sensors*

Lack of repeatability, false-positive readings, inability to assess PVC and high-density polyethylene (HDPE) pipes, and interference from outside noises, are just some of the drawbacks that makes acoustic sensors, data loggers, and correlators, provide questionable results.

Accurately and Consistently Assess Water Main Leaks

Low Voltage Conductivity represents the first technology that provides an accurate, independent, repeatable, and unambiguous assessment of a pipe's condition, including an estimated liters per second for each defect and for the total pipe segments.

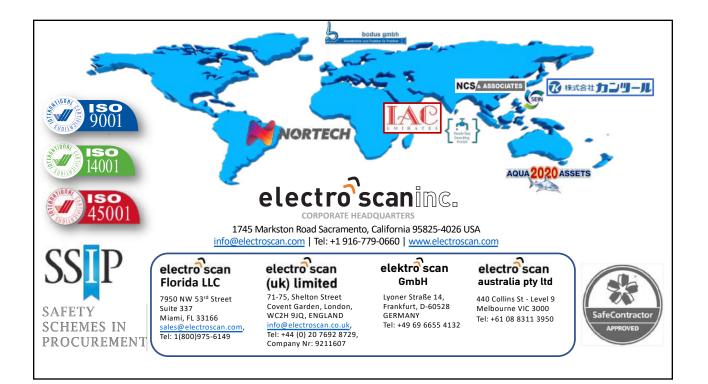
Certify Post-Repair & Rehabilitation Capital Projects

The holy grail of new construction, repairs, and renewal of pipes is the ability to certify to the owner that the pipe has zero leakage, prior to acceptance. While pressure testing before service tap restoration has provided limited assurances, Low Voltage Conductivity provides a comprehensive assessment of pipe condition, <u>BEFORE</u> and <u>AFTER</u> repair or rehabilitation.

* Including Data Loggers and Correlators.







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