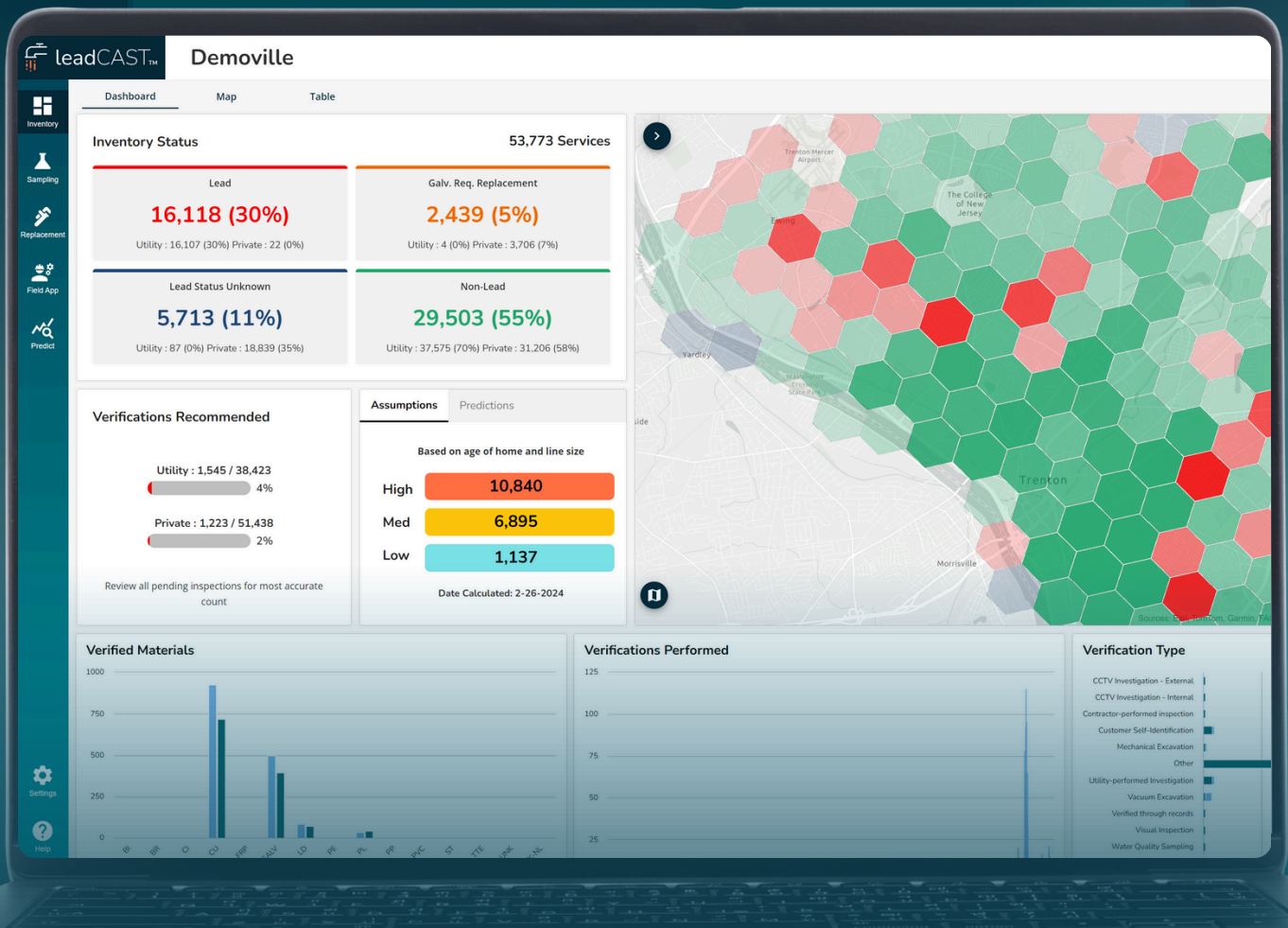




All-in-one LCRI Compliance Management



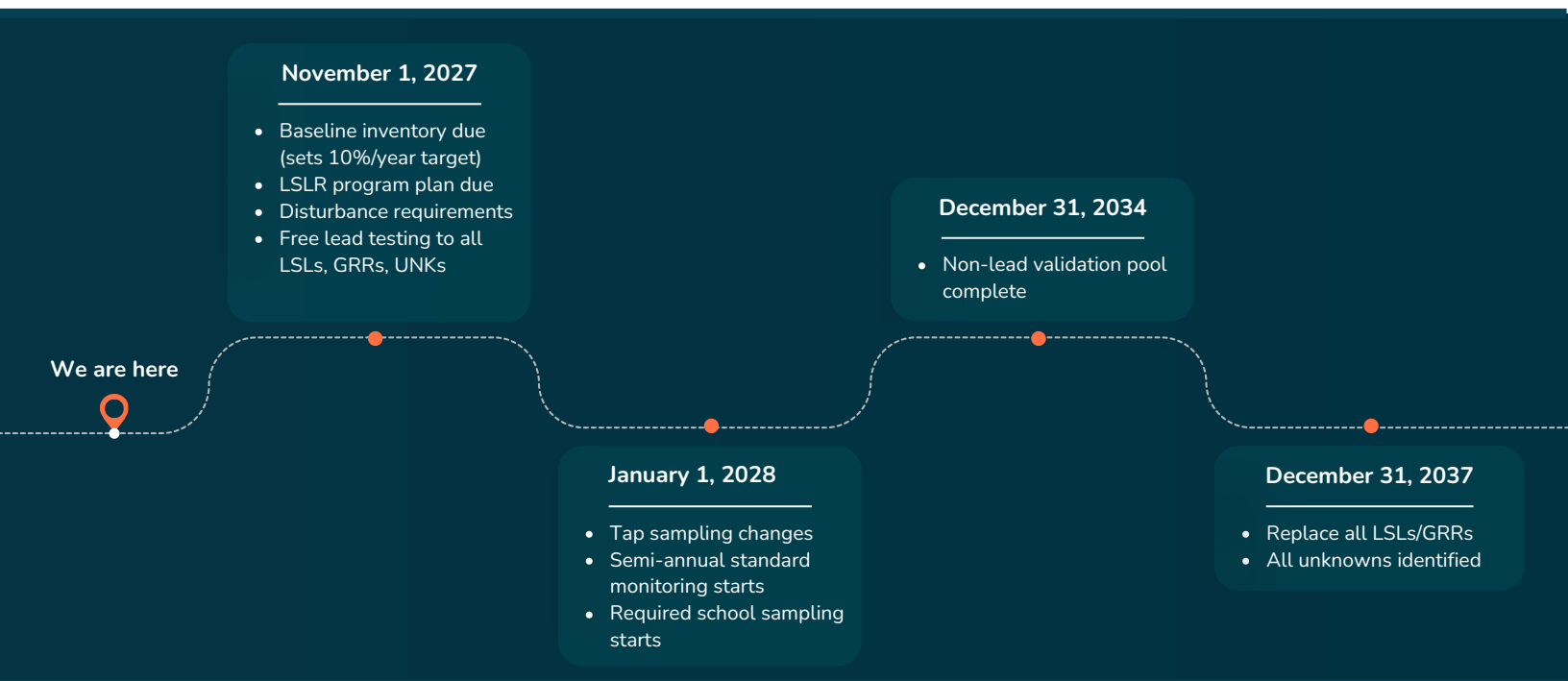
Built by Lead and Copper Rule experts

Following the October 16, 2024 Lead and Copper Rule Revision (LCRR) initial inventory deadline, there are additional LCRR and Lead and Copper Rule Improvements (LCRI) requirements that utilities need to follow to stay in compliance. Trinnex is very experienced in these requirements and is continually tracking them to ensure our software solutions help you succeed in your compliance journey.

leadCAST® is your all-in-one LCRR/I compliance tool that helps with inventory management, public outreach, predictive modeling, sampling, and replacement planning.



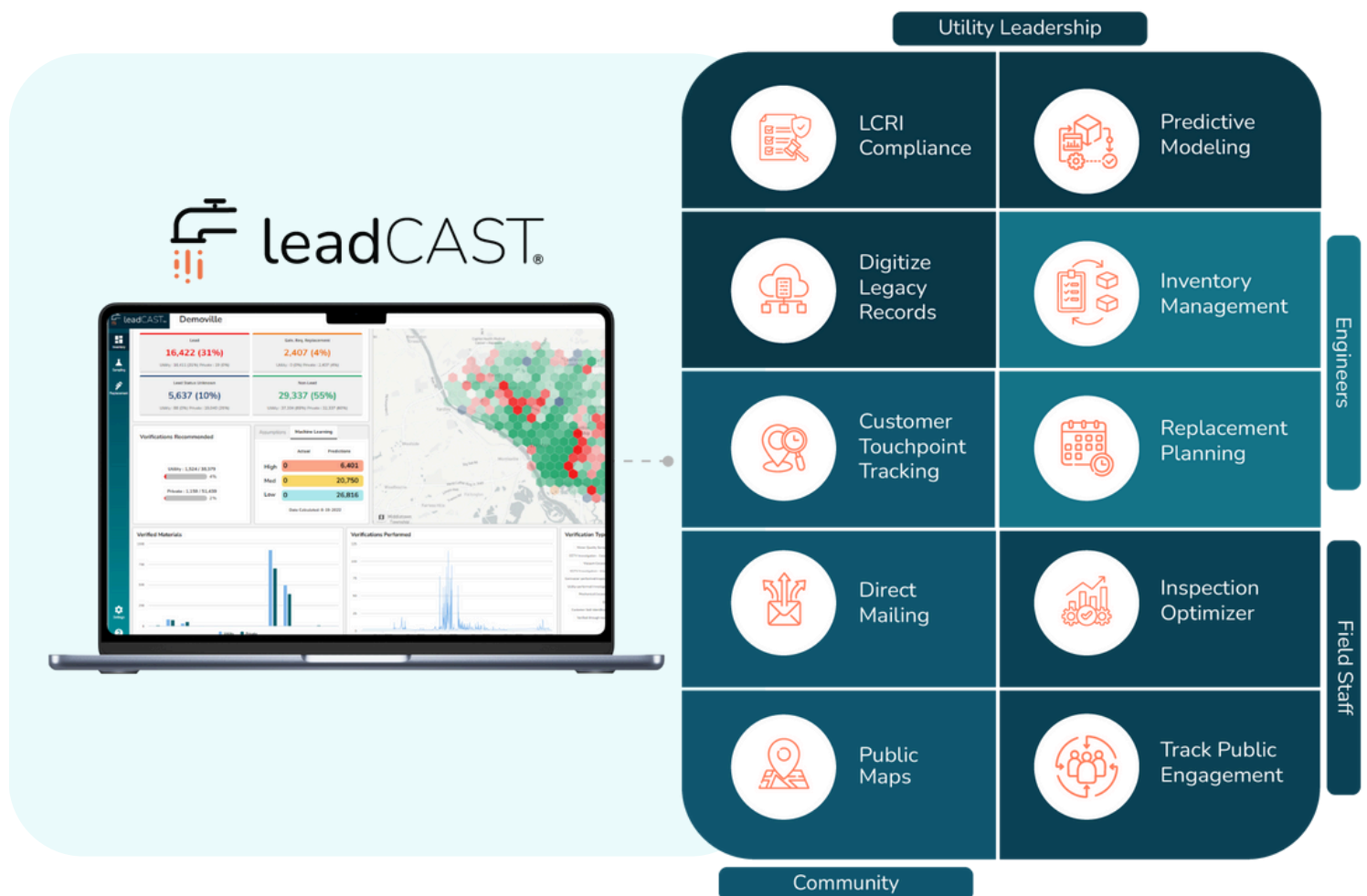
The journey to a lead-free future extends to 2037



- *The LCRI requires another inventory submission in 2027, and every year thereafter until there are no more unknowns in the inventory.*
- *The new inventory requires connectors to be identified in the inventory.*

All-in-one LCRR/I compliance platform

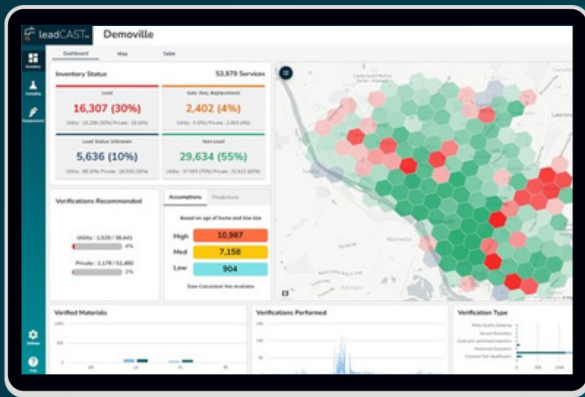
leadCAST is a cloud-based software designed to streamline LCRR/I program management. It consolidates everything needed—inventory, customer communications, sampling, and replacement workflows—into one platform. The dashboard offers real-time visualization and reporting by integrating GIS, field data, construction management, water quality data, and more into a single system. Built by water professionals for water professionals, leadCAST incorporates LCRR/I expertise and provides extensive data connectivity across various sources.



leadCAST delivers significant value across all LCRR/I stakeholders

From advancing digital transformation for utility leadership, to engaging the public with trust at the forefront, leadCAST powers the behind-the-scenes and community efforts that are crucial for a successful lead service line replacement program.

leadCAST is purpose-built to solve the complexities of service line inventory management with simple yet comprehensive workflows

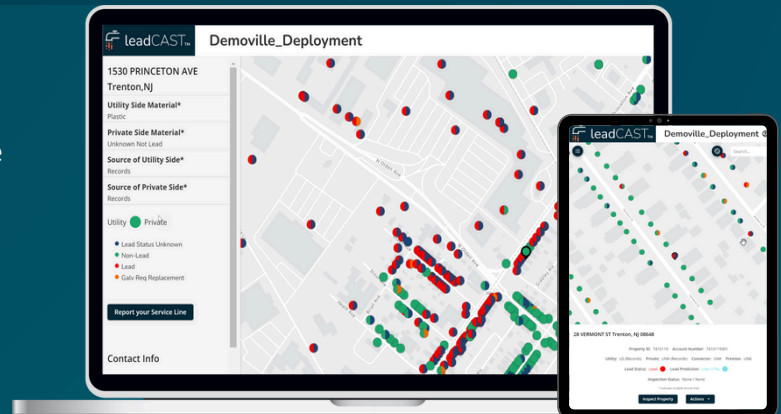


Service Line Inventory Dashboard

- Comprehensive inventory workflows
- Data format based on the EPA inventory template
- Dashboard that tracks both the public and private side service lines, and inspection progress

Public Inventory Maps

- Searchable public map displaying service line materials and replacement status
- Reduce inspection costs through customer reporting
- Can be embedded into an existing utility website



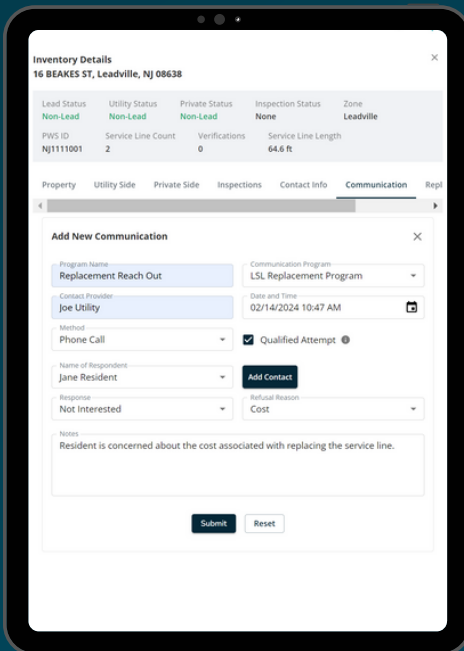
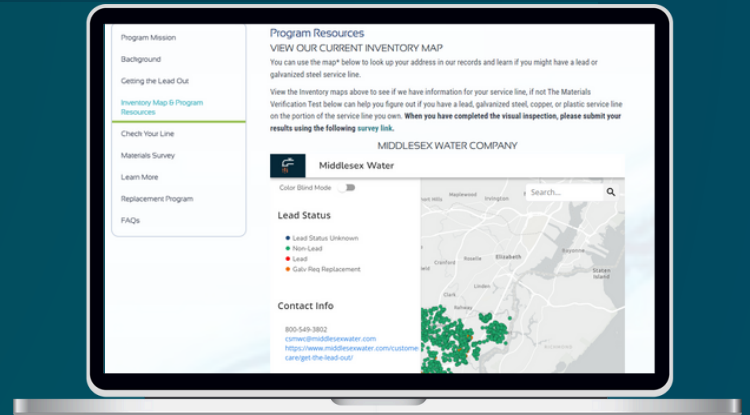
Powering inventory creation for utilities of all sizes

leadCAST has inventoried over 5 million service lines across the country. Utilities from large to small have trusted leadCAST in meeting their initial inventory deadlines with 100% success rate.



Customer Portal

- Directly interface with customers
- Identify private-line material, order sample kits, and view property information
- Supports multiple languages

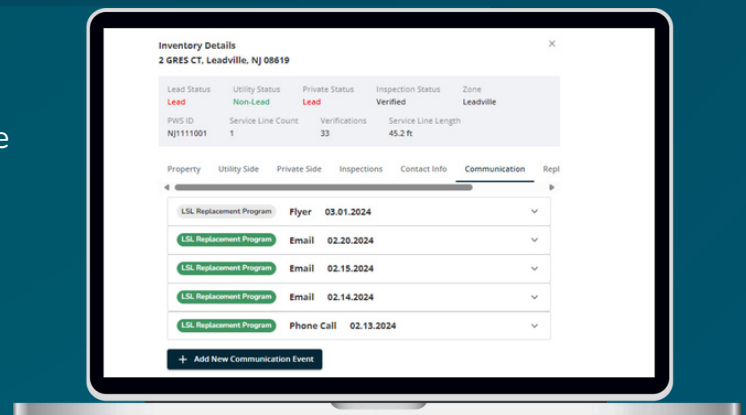


Effectively track your communication programs, such as replacement outreach and door-to-door campaigns, and build a data-rich, defensible record of your outreach activities.

With **leadCAST's** customer portal, customizable website, and email notifications, you can always rest assured that residents have access to replacement information, sampling results, and important notices.

Customer Touchpoint Tracking

- Communication log that documents point-in-time communications
- Time of outreach, medium (phone, door-to-door visit, flyer), and customer responses all tracked
- Reportable to demonstrate compliance



leadCAST tracks the inspections and investigation methods to validate every service line in your system

leadCAST allows you to streamline field verifications. Whether on a tablet or a cell phone, field staff can easily log into leadCAST and submit a field verification with just a few clicks. The data collected through the mobile application is transmitted to leadCAST's inventory database in real time.

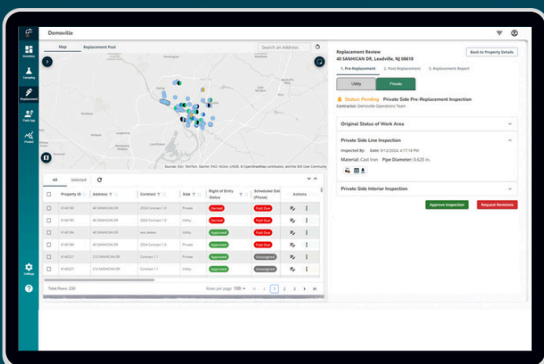


Mobile Field Inspection App

- Access on any device, including tablets and smartphones
- Simplified forms including connectors, utility and private-side, and premise plumbing
- Data is used to update overall service line inventory

Customer Self-Reporting

- Enable residents to submit a material report in just a few clicks
- Save money by mobilizing residents to report their service line
- Protect data integrity through robust QA/QC workflows for verifying submissions



Inspection QA/QC Workflow

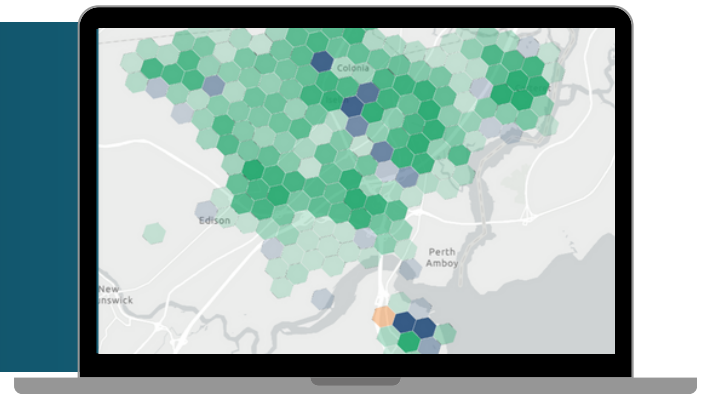
- Track material validation for multiple materials on single service lines
- Built-in QA/QC to ensure accurate data and reporting
- Aids predictive models in states requiring comparison of record and field-verified materials

leadCAST Predict - developed by nationally recognized water experts and accredited AI experts

leadCAST Predict is a full-service machine learning (ML) solution helping you gain control over the unknowns in your service line inventory through advanced predictions. leadCAST Predict uses an ML model coupled with your inventory data to generate predictions of service line material.

Product features

- Domain expertise quality checks
- Easy-to-follow predictions report
- Inspection Optimizer for unbiased predictive modeling
- Interactive dashboard with dynamic map



How leadCAST Predict works:



Data

Our experts use statistical techniques to prepare, clean, and improve your data to support optimal modeling.

We combine service line inventory with parcel and census data to predict unknown materials.



Model

Our experts evaluate the performance and reliability of many different types of models.

We select the best fit for your data.



Results

An interactive dashboard within leadCAST Predict displays service line material predictions with hotspots.

We deliver a final report describing how the model was built and tested for transparency.

Trinnex works with utilities and state policymakers to drive innovation forward and gain acceptance of predictive modeling as a materials classification method. We uphold thorough commitments to responsible artificial intelligence (AI) practices.

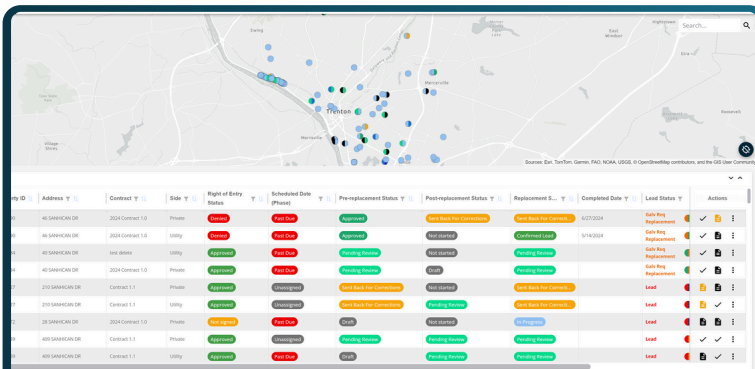
“leadCAST Predict helped us see the light at the end of the tunnel.”

Over 50% of the City of West Palm Beach’s service lines were unknown service lines. Though they did not expect to have lead, they were very concerned over the costs of field inspections with 18,000 unknowns. West Palm Beach chose leadCAST Predict to help them quickly reduce their unknowns through statistical analysis and carefully targeted field verifications and save substantial costs.

Check out our [savings calculator](#) to learn how much you can save.

leadCAST Replacements streamlines the data management and documentation required by the LCRI mandate to replace lead or GRR

leadCAST allows utilities to manage service lines that need replacement from the very first step of assigning work to contractors and collecting the right of entry (ROE), to scheduling for replacement, pre- and post-replacement inspections, QA/QC and approvals.



Proj ID	Address	Contract	Side	Right of Entry Status	Scheduled Date	Pre-replacement Status	Post-replacement Status	Replacement S...	Completed Date	Lead Status	Actions
40 SANHICAN DR	2024 Contract 1.0	Private	Not signed	Approved	Approved	Approved	Approved	Approved	Approved	Approved	
40 SANHICAN DR	2024 Contract 1.0	Utility	Not signed	Approved	Approved	Approved	Approved	Approved	Approved	Approved	
40 SANHICAN DR	2024 Contract 1.0	Private	Not signed	Approved	Approved	Approved	Approved	Approved	Approved	Approved	
210 SANHICAN DR	Contract 1.1	Private	Not signed	Approved	Approved	Approved	Approved	Approved	Approved	Approved	
210 SANHICAN DR	Contract 1.1	Utility	Not signed	Approved	Approved	Approved	Approved	Approved	Approved	Approved	
20 SANHICAN DR	2024 Contract 1.0	Private	Not signed	Approved	Approved	Approved	Approved	Approved	Approved	Approved	
400 SANHICAN DR	Contract 1.1	Private	Not signed	Approved	Approved	Approved	Approved	Approved	Approved	Approved	
400 SANHICAN DR	Contract 1.1	Utility	Not signed	Approved	Approved	Approved	Approved	Approved	Approved	Approved	

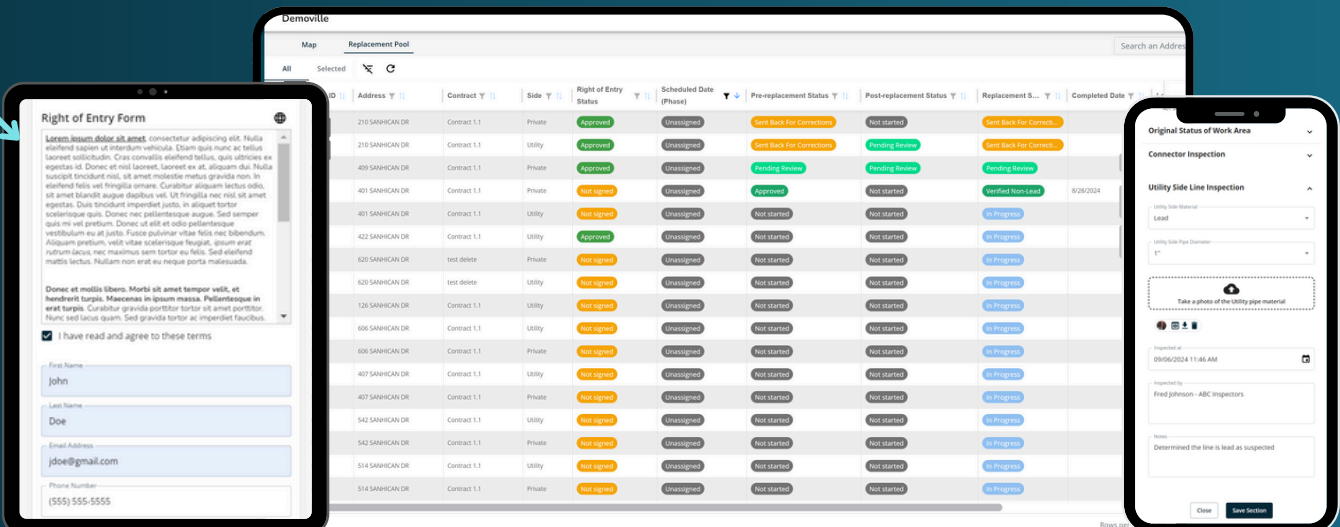
leadCAST can collect ROE documents, integrate with work order and/or construction management tools, and share updates with your customers in real time.

Key benefits:

- Manage all of your replacements in one location
- Easily collect ROE approvals
- Robust QA/QC capabilities through replacement documentation
- Manage projects effectively with live, up-to-date maps

A single, integrated solution to manage your replacements

leadCAST integrates GIS, field data, program management information, and water quality data into a single data management platform to streamline replacement workflows.



Address	Contract	Side	Right of Entry Status	Scheduled Date	Pre-replacement Status	Post-replacement Status	Replacement S...	Completed Date
210 SANHICAN DR	Contract 1.1	Private	Approved	Unassigned	Not started	Not started	Not started	
210 SANHICAN DR	Contract 1.1	Utility	Approved	Unassigned	Not started	Not started	Not started	
400 SANHICAN DR	Contract 1.1	Private	Approved	Unassigned	Not started	Not started	Not started	
401 SANHICAN DR	Contract 1.1	Private	Not signed	Unassigned	Not started	Not started	Not started	
401 SANHICAN DR	Contract 1.1	Utility	Not signed	Unassigned	Not started	Not started	Not started	
402 SANHICAN DR	Contract 1.1	Utility	Approved	Unassigned	Not started	Not started	Not started	
620 SANHICAN DR	test delete	Private	Not signed	Unassigned	Not started	Not started	Not started	
620 SANHICAN DR	test delete	Utility	Not signed	Unassigned	Not started	Not started	Not started	
126 SANHICAN DR	Contract 1.1	Utility	Not signed	Unassigned	Not started	Not started	Not started	
606 SANHICAN DR	Contract 1.1	Utility	Not signed	Unassigned	Not started	Not started	Not started	
606 SANHICAN DR	Contract 1.1	Private	Not signed	Unassigned	Not started	Not started	Not started	
407 SANHICAN DR	Contract 1.1	Utility	Not signed	Unassigned	Not started	Not started	Not started	
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542 SANHICAN DR	Contract 1.1	Private	Not signed	Unassigned	Not started	Not started	Not started	
514 SANHICAN DR	Contract 1.1	Utility	Not signed	Unassigned	Not started	Not started	Not started	
514 SANHICAN DR	Contract 1.1	Private	Not signed	Unassigned	Not started	Not started	Not started	

Right of Entry Form

Placeholder text for Right of Entry Form.

☒ I have read and agree to these terms

First Name: John

Last Name: Doe

Email Address: jdoe@gmail.com

Phone Number: (555) 555-5555

Utility Side Inspection

Original Status of Work Area: Connector Inspection

Utility Side Inspection: Lead

Take a photo of the utility pipe material

Inspected at: 09/06/2024 11:46 AM

Inspected by: Fred Johnson - ABC Inspectors

Note: Determined the line is lead as suspected

Close Save Section

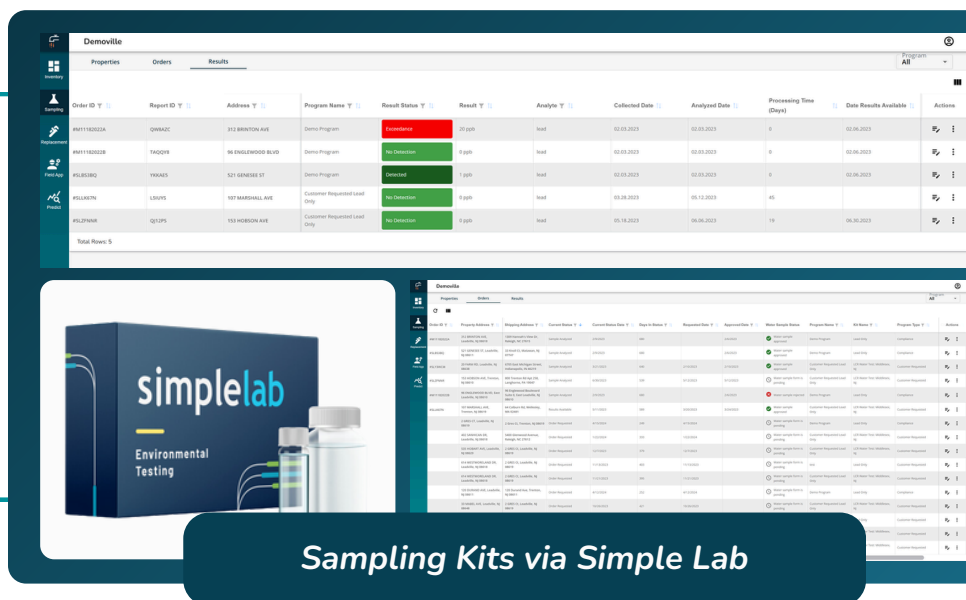
leadCAST's sampling module assists in end-to-end kit ordering and results

leadCAST's sampling capabilities address the tap sampling compliance and non-compliance requirements outlined in the EPA's LCRR/I regulations.

Easily order sample kits through the leadCAST sampling interface, including via the Customer Portal. Track sampling kit orders, delivery, and results all from a centralized location.

Product features:

- Compliance pool data management
- Tap sample kit tracking
- Tap sample kit lab results
- Exceedance notifications



Order ID	Report ID	Address	Program Name	Result Status	Result	Analyte	Collected Date	Analyzed Date	Processing Time (Days)	Data Results Available	Actions
PM1718252A	QWASZ	312 BENTON AVE	Demo Program	Exceedance	0.00	Lead	02.03.2023	02.03.2023	0	02.03.2023	
PM1718252B	TADQV	96 ENGLEWOOD BLVD	Demo Program	No Detection	0.00	Lead	02.03.2023	02.03.2023	0	02.03.2023	
PM18238Q	YKAKX	521 GARDNER ST	Demo Program	Exceedance	7.00	Lead	02.03.2023	02.03.2023	0	02.03.2023	
PM18237N	LQVVS	107 MARSHALL AVE	Customer Requested Lead Only	No Detection	0.00	Lead	03.28.2023	05.11.2023	45		
PM12098H	Q31PL	133 HOBSON AVE	Customer Requested Lead Only	No Detection	0.00	Lead	05.18.2023	06.06.2023	19	06.06.2023	
Total Rows: 5											

Sampling Kits via Simple Lab

leadCAST direct mail enables lightning-fast compliance mailers at scale



Prepare your notifications in days instead of months

Quickly generate a list of residents based on your service line inventory, create your own (or work with state-defined) templates, and hand-off to USPS.



Send and track physical mail with ease and no impact to resources

The scale and urgency of these communications creates stress and high administrative costs. Let us alleviate that burden for your team.



Stay in compliance with EPA regulations

leadCAST is built by and for LCRR/I experts. We provide you with an end-to-end management system to meet requirements with confidence.

Powering replacement programs across the U.S.



leadCAST is trusted by both small and large water systems to deliver consistent performance and protect public health



Helping utilities around the country solve the complexities of service line inventory management, replacement, and more.

“Trinnex and the **leadCAST** solution have been indispensable by helping us create our inventory, informing our public-facing communications, and as a method for residents to report service line materials.”

- League City Public Works, TX

“Working with Trinnex, we've developed better insight and transparency into our lead service line inventory, which results in better tracking, data management, and overall efficiency.”

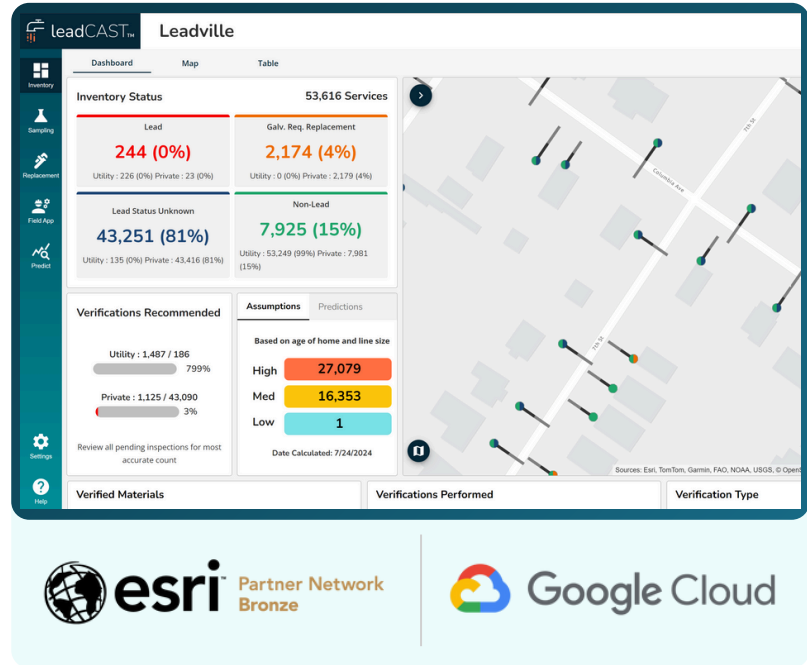
- Middlesex Water Company, NJ

Integrated, comprehensive, and secure

leadCAST is the industry's most comprehensive LCRR/L compliance tool and has helped clients around the United States manage their service line replacement program.

As an Esri and Google partner, leadCAST integrates with your existing tools and database to get the most from your existing technology investment.

We infuse engineering domain knowledge with technical expertise into the design and workflows of leadCAST to ensure that your utility stays ahead of the regulations and provides the safest, lead-free drinking water to your communities.



Trinnex's SOC 2 Type 2 compliance certificate ensures the safety and privacy of customer data, confirming secure data practices and risk mitigation. Our clients can trust that we proactively address vulnerabilities and maintain robust data protection controls. **Trinnex's SOC 2 audit** was conducted by the independent compliance assessor A-LIGN, a technology-enabled security and compliance partner trusted by more than 2,500 global organizations to help mitigate cybersecurity risks.

About trinnex

Trinnex helps infrastructure leaders advance their digital journey through proven processes, software tools, and consulting partnership. Our team has decades of domain knowledge, data-science expertise, and a commitment to technical software excellence. We positively impact public health by removing lead in drinking water, limiting sewerage pollution, providing streamlined water quality compliance, and simplifying utility operations.

[Contact a Trinnex expert today](#)