



NOVOTX
AN ACCELA COMPANY

AMERICA'S INFRASTRUCTURE CRISIS

The cost of doing nothing is rising

Aging pipes, reactive maintenance, and fragmented data are pushing agencies toward catastrophic failures. A smarter path forward exists — before the next crisis hits your community.



The Current State

America's Infrastructure Is at a Breaking Point

Decades of deferred maintenance, fragmented data, and reactive management have created a compounding crisis — one that falls squarely on local government agencies to solve.

- **Reactive by default.**
Emergency repairs cost 3–5x more than planned maintenance and cause far more disruption.
- **Data lives in silos.**
Permitting, public works, and asset records don't talk to each other — high-risk assets stay invisible.
- **Federal pressure is growing.**
Houston, Memphis, and Baltimore are under consent decrees. Agencies without proactive data are next.
- **Budgets don't stretch.**
Federal funding covers ~7% of the need. Smarter data — not just more spending — is the only path forward.

\$3.7T

10-Year Infrastructure Gap

244M

Gallons Spilled, Potomac '26

60 Years

Avg Age of Failing U.S. Pipes

D+

ASCE Wastewater Grade 2025

The Opportunity

Better Data Changes Everything

See Every Asset

A live, map-based picture of every pipe, pump, and structure — with condition scores and risk ratings, not guesswork.

Act Before It Breaks

Proactive inspection schedules and automated reminders catch problems early — at a fraction of emergency repair cost.

Connect the Dots

Every permit creates an asset record. Every asset record drives smarter capital planning for decades ahead.

Defend Your Decisions

Live dashboards give leadership and regulators the evidence they need — before the EPA or a federal judge asks for it.

The Solution

Accela + Novotx: The Full Infrastructure Lifecycle

For the first time, permitting, public works, asset management, and field operations are connected in one platform — giving agencies visibility from the moment infrastructure is approved through decades of operation.

GIS-Native Asset Management

Live Esri map with every pipe, pump, valve, and structure — condition-scored and risk-ranked.

Condition & Risk Scoring

Score every asset by failure likelihood and community impact. Prioritize budgets on real risk.

Automated Maintenance

Recurring inspections, checklists, and automated reminders keep crews ahead of failures.

Permit-to-Asset Connection

Every Accela permit approval automatically creates a tracked asset record in Elements XS.

Mobile Field Operations

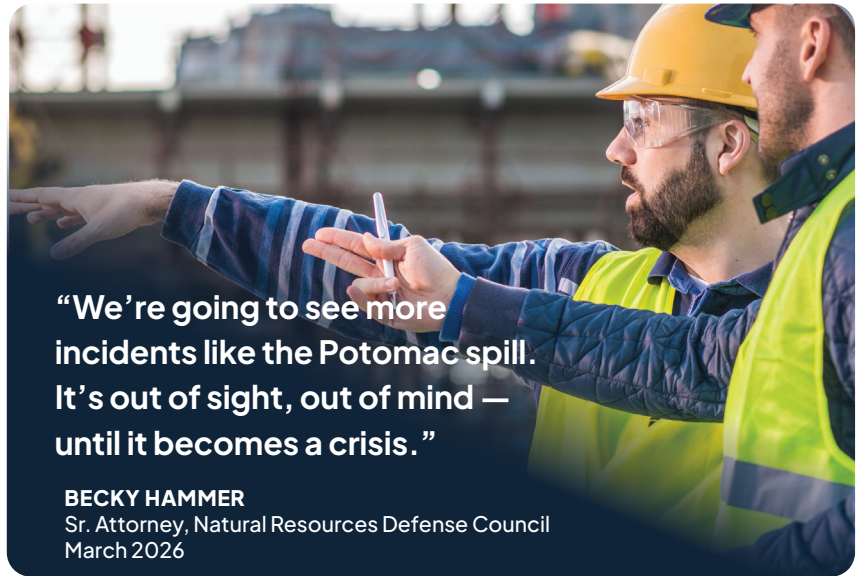
Work orders on any device. Every inspection updates the live GIS record in real time.

Dashboards & Capital Planning

Report to leadership and regulators with documented, evidence-based asset decisions.

Elements XS · GIS-Native Asset Intelligence

Elements XS — built on Esri ArcGIS — maps every asset with condition scores, failure risk, inspection history, and work orders. Field crews and planners share the same live picture. This is what proactive infrastructure management looks like.



“We’re going to see more incidents like the Potomac spill. It’s out of sight, out of mind — until it becomes a crisis.”

BECKY HAMMER
Sr. Attorney, Natural Resources Defense Council
March 2026

How it works



A Permit Is Approved in Accela

The approval automatically creates a corresponding asset record in Elements XS — no manual re-entry, no lost data between departments.



The Asset Is Mapped, Scored & Scheduled

The new asset appears on the live GIS map with attributes, condition score, and inspection schedule — visible to planning and public works from day one.



Field Crews Inspect & Update in Real Time

Mobile work orders update the GIS record with photos, notes, and findings — building a defensible maintenance history for regulators and leadership.



Leadership Plans, Prioritizes & Justifies

Risk dashboards surface the highest-need assets. Capital budgets are built on evidence — not assumptions — and defensible for decades ahead.

3–5x

Lower cost for planned maintenance vs. emergency repair

\$2.5M

Economic output generated per \$1M invested in water infrastructure

Single

Platform from permit approval through decades of asset operation

See Elements XS in Action

Request a personalized demo and discover how your agency can move from reactive crisis management to proactive, data-driven infrastructure stewardship — starting today.

[Request Demo](#)