

Water Main Predictions

Identify, assess, and manage water mains at risk of leaks or failure using locally-tailored, AI-driven predictive modeling.

Water Main Predictions identifies water mains most at risk of failure or leaks using custom, dynamic predictive modeling enhanced by external data and backed by BlueConduit's expert Data Science team.

These predictions save water systems money, time, and headaches, enabling smarter Condition Assessments, maintenance and replacement planning, and funding requests.

Water Main Predictions delivers:

Tailored, local models for the best PoF accuracy

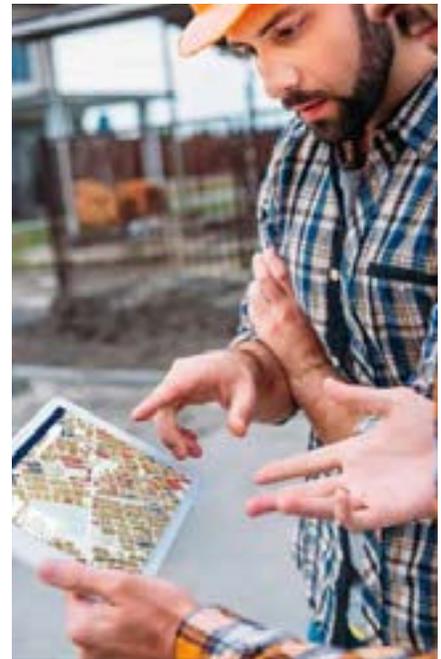
Harness BlueConduit's proven process and experience in lead service lines to create custom predictive models for every water system, providing our customers with the most accurate probability of failure (PoF) analytics.

Data enrichment

Our model utilizes robust external data including weather data, soil type, parcel information, and more to dynamically enrich and improve the analysis.

Dynamic updates

We automatically update our predictive models monthly to ensure predictions are up-to-date and responsive to new data and local realities.



Seamless integration: Water main predictions with Esri GIS

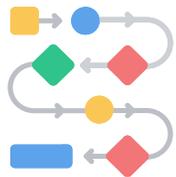
PoF analytics are delivered as Esri data and dashboard layers showing dynamic PoF across multiple timeframes.

How does it work?



STEP 1 Data review

We leverage people + tech to assess your historical water mains break data and other relevant datasets.



STEP 3 Initial predictive modeling

The Water Main Predictions product, alongside our expert Data Science team, generates PoF predictions for every water main across multiple time horizons.



STEP 2 Data enrichment

Utility data is enriched with relevant external data including weather, soil type, demographic data, and more.



STEP 4 Dynamic updates & planning

Predictions, **delivered in Esri**, are updated monthly based on updated weather and water main break data, to support dynamic short- and long-term capital planning and projects.

Talk to us about managing your water mains today

Partner with BlueConduit to optimize your water main management strategies, minimize service disruptions, and ensure the reliability of your network.

Contact Us