DECISION OPTIMIZATION TECHNOLOGY

FOR WATER MAINS

Affordable water distribution is an essential service for building a strong, vibrant and thriving community. To deliver water service efficiently, how do you decide when to expand, repair or replace what you already own? DOT™ inventories your water distribution system, along with its breaks and repair history, to apply predictive analytics and proactively identify the critical water mains most in need of repair.

DOT

DOT™ evaluates your water distribution system from multiple perspectives. In most communities, adding water main loops to improve system reliability competes with the option of maintaining and reconstructing leaky mains in aging neighborhoods. DOT™ balances planned budgets, network criticality and social justice goals to produce a defensible and implementable project-level plan using easily understood data visualizations.

As you inventory your water distribution assets in a geographic information system and add leak detection information, the scenarios in DOT™ can be customized to meet your community's ever-changing needs. The capital plan produced by DOT™ can be mapped and overlayed with plans from other asset types to advance important "dig once" policies.

The DOT™ water module can inventory and provide visual analytics on a variety of assets, including:

- water lines
- casing
- valves
- hydrants
- hydrant leads

- water meters
- water towers
- channels/streams
- water reservoirs
- wells

- pressure regulating valves
- pump stations
- treatment plants

DATA - MANAGEMENT & INTEGRATION
Collect and maintain inventory data, condition data and historical repairs across all asset types, with simple integration and data-sharing capabilities.

GIS VISUALIZATION
Access georeferenced data, map-centric visualizations of condition and other performance indicators associated with various asset types, all with enhanced GIS capabilities.

CLOUD BASED SOLUTION
Enjoy a maintenance-free, fully web-based application with a high level of security, privacy and compliance.

RISK BASED ANALYSIS
Use our risk-based analysis to develop models of asset criticality and likelihood of failure to determine risk levels at various asset classes and align your capital planning process with risk-based asset management guidelines.

SCENARIO COMPARISON
Set an unlimited number of scenarios with flexibility to investigate various budgeting strategies, policy decisions, treatment options, serviceability criteria and operational constraints while maintaining alignment with other projects.

PREDICTIVE MODELLING
Employ powerful and customizable deterioration models across various asset classes for better long-term predictive analysis and advanced model calibration capabilities.

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