



WASTEWATER PLANNING



DOT

DOT™ ASSET MANAGEMENT AND
CAPITAL PLANNING SOFTWARE

Engineers and planners know that the effective management of a wastewater network is essential to the well-being of a community. The system is complex, with many distinct and interrelated elements that complicate long-term maintenance, rehabilitation and replacement. Planning decisions require attention to breaks and repair history, preventive maintenance strategies, future growth and demand projections, risk and safety considerations, funding sources and alignment with other departments to satisfy the safety and quality-of-life objectives of your community.

DOT™ (Decision Optimization Technology™) asset management and capital planning software helps you track the condition of your wastewater network using either age-based or condition-based (CCTV or other physical inspection methodology). DOT™ performs a risk-based analysis built on asset criticality and likelihood of failure, environmental impact, business disruption, difficulty of access and repairs and other factors. It builds actionable plans by applying predictive modeling and state-of-the-art optimization algorithms to arrive at scientifically proven results.

The DOT™ Wastewater module can analyze and produce customizable visuals on a variety of assets, including but not limited to:

- gravity sewers
- sanitary force mains
- sewer laterals
- treatment plants
- manholes
- lift stations
- lagoons
- casing pipes

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|  <p>DATA - MANAGEMENT & INTEGRATION</p> <p>Collect and maintain inventory data, condition data and historical repairs across all asset types, with simple integration and data-sharing capabilities.</p> |  <p>GIS VISUALIZATION</p> <p>Access georeferenced data, map-centric visualizations of condition and other performance indicators associated with various asset types, all with enhanced GIS capabilities.</p> |  <p>CLOUD BASED SOLUTION</p> <p>Enjoy a maintenance-free, fully web-based application with a high level of security, privacy and compliance.</p> |
|  <p>RISK BASED ANALYSIS</p> <p>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.</p> |  <p>SCENARIO COMPARISON</p> <p>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.</p> |  <p>PREDICTIVE MODELLING</p> <p>Employ powerful and customizable deterioration models across various asset classes for better long-term predictive analysis and advanced model calibration capabilities.</p> |
|  <p>INTEROPERABILITY & INTEGRATION</p> <p>Our API integration capabilities make it possible to communicate with a variety of applications, such as GIS and financial systems, to achieve a hassle-free and centralized data management process.</p> |  <p>DATA-RECOVERY & BACKUP</p> <ul style="list-style-type: none"> • Disaster recovery with geo-redundant storage and site recovery • Automatic backup and restoration process • 99.9% guaranteed software availability |  <p>MODERN AND EASY-TO-USE INTERFACE</p> <p>DOT™ software provides a modern user interface suitable for users at different levels of skills, from asset management to engineering and operational departments.</p> |



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