



# TRANSPORTATION PLANNING



**DOT**

DOT™ ASSET MANAGEMENT AND  
CAPITAL PLANNING SOFTWARE

Engineers and planners know that building a quality road management program is complex. It requires an understanding of preventive maintenance, a depth of knowledge of available treatments and when to apply them, and the resulting lifecycle gains. Adding to the complexity, the program needs to meet political objectives, consider funding sources, align with other departments, incorporate risk and safety factors and satisfy the quality-of-life objectives of your community. Vital to the program's success is the ability to clearly communicate recommendations to stakeholders and decision-makers.

DOT™ (Decision Optimization Technology™) capital planning tools simplify planning complexity, provide onscreen scenario comparisons, clarify your best course of action and clearly identify the consequence of underfunding your road network. When your fully defensible and implementable recommendations are crystallized, DOT™ will generate easy-to-understand reports that are presentation-ready, giving you the visual tools you need to gain decision-maker and stakeholder support.

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

- Roads
- Sidewalks
- Curbs and gutters
- Streetlights
- Traffic signals
- Traffic signs
- Intersections
- Medians

 <p><b>DATA - MANAGEMENT &amp; INTEGRATION</b></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><b>GIS VISUALIZATION</b></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><b>CLOUD BASED SOLUTION</b></p> <p>Enjoy a maintenance-free, fully web-based application with a high level of security, privacy and compliance.</p>
 <p><b>RISK BASED ANALYSIS</b></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><b>SCENARIO COMPARISON</b></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><b>PREDICTIVE MODELLING</b></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><b>INTEROPERABILITY &amp; INTEGRATION</b></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><b>DATA-RECOVERY &amp; BACKUP</b></p> <ul style="list-style-type: none"> <li>• Disaster recovery with geo-redundant storage and site recovery</li> <li>• Automatic backup and restoration process</li> <li>• 99.9% guaranteed software availability</li> </ul>	 <p><b>MODERN AND EASY-TO-USE INTERFACE</b></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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