



# STRUCTURAL PLANNING



**DOT**

DOT™ ASSET MANAGEMENT AND  
CAPITAL PLANNING SOFTWARE

Engineers and planners know that managing a bridge network is complex, with many distinct and interrelated elements that complicate long-term maintenance, rehabilitation and replacement. Your decisions need to consider preventive maintenance, knowledge of available treatments, traffic impact outcomes, risk and safety factors and, because of the large dollars involved, funding sources to complete the work.

DOT™ (Decision Optimization Technology™) capital planning tools manage planning complexity, provide onscreen scenario comparisons, clarify your best course of action and clearly identify the consequence of underfunding your structures network. DOT™ builds actionable plans by incorporating inspection data based on various rating systems, such as NBI and NBE; predictive modeling based on inspection histories; and engineering models at the element level by using state-of-the-art optimization algorithms to arrive at a scientifically proven result. When your recommendations are crystallized, DOT™ generates easy-to-understand reports and gives you the visual tools needed to gain decision-maker and stakeholder support.

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

- Bridges
- Culverts
- Tunnels
- Retaining walls
- Footbridges

 <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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