STORMWATER PLANNING

DOT

DOT™ ASSET MANAGEMENT AND CAPITAL PLANNING SOFTWARE

Heavy rainfall creates substantial runoff that can quickly overwhelm a municipality's drainage network. Undersized and deteriorating pipes installed decades ago can burden downstream pipes and are difficult for system operators to maintain. System deterioration can lead to inflow and infiltration problems that reduce wastewater network capacity and can substantially increase sewage treatment cost.

DOT™ (Decision Optimization Technology™) is a comprehensive asset management and capital planning tool that helps you track the condition of your network across a variety of storm assets and evaluates your stormwater system using either age-based or condition-based (e.g., NASSCO PACP Rating based on CCTV inspection) methods. It also performs risk-based analysis based on asset criticality and likelihood of failure, environmental and surface water impacts, business disruption, difficulty of access and repairs. Your decisions become proactive, based on in-depth civil engineering principles and advanced mathematical optimization processes that weigh operational and economic requirements to produce actionable plans.

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

- Manholes
- Storm lines
- Catch basins
- Ponds
- Detention ponds

- Culverts
- Ditches
- Pumping stations
- Casing
- Cleanouts

- Outfalls
- Headwalls
- Valves

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.

INTEROPERABILITY & INTEGRATION
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.

DATA-RECOVERY & BACKUP
- Disaster recovery with geo-redundant storage and site recovery
- Automatic backup and restoration process
- 99.9% guaranteed software availability

MODERN AND EASY-TO-USE INTERFACE
DOT™ software provides a modern user interface suitable for users at different levels of skills, from asset management to engineering and operational departments.

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