



ABOUT DEIGHTON

Deighton Associates Limited (Deighton) has established itself as one of the world leaders in providing asset management systems and asset management expertise at the strategic, tactical, and operational levels for agencies around the world. Recognized as the premier software product for infrastructure asset management, dTIMS® is used to manage large infrastructure networks in Africa, Asia, Australia, Canada, Europe, New Zealand, and the United States. These infrastructure networks include hundreds of thousands of miles of pavements, thousands of bridges, and millions of wastewater, storm water, and fresh water distribution pipe assets.

ENTERPRISE ASSET MANAGEMENT

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dTIMS for Infrastructure Asset Management



Today's government agencies are changing the way they do business. Asset management is no longer a siloed approach separated by strategic and operational departments and different asset groups. Strategic recommendations are necessary for planning work schedules. Agencies need an enterprise solution that seamlessly integrates all their assets with strategic recommendations and day-to-day work.



dTIMS (Deighton Total Infrastructure Management System) is an enterprise asset management solution that enables an agency to locate, maintain, rehabilitate, and manage critical infrastructure assets throughout their life cycle.

How Does it Work?

dTIMS is comprised of a strategic component, referred to as dTIMS Business Analytics (BA), an operational component, known as dTIMS Operations Management (OM), and an agency insight component, known as dTIMS Business Intelligence (BI). Together, dTIMS BA and dTIMS OM represent the future of smarter asset management, while dTIMS BI leverages your investment by reporting on your agency's analytics and operations.

dTIMS allows you to consolidate all of your agency's infrastructure assets into one common platform for data management, strategic, tactical, and operational asset management. Your roadmap to successful asset management can begin with any asset.

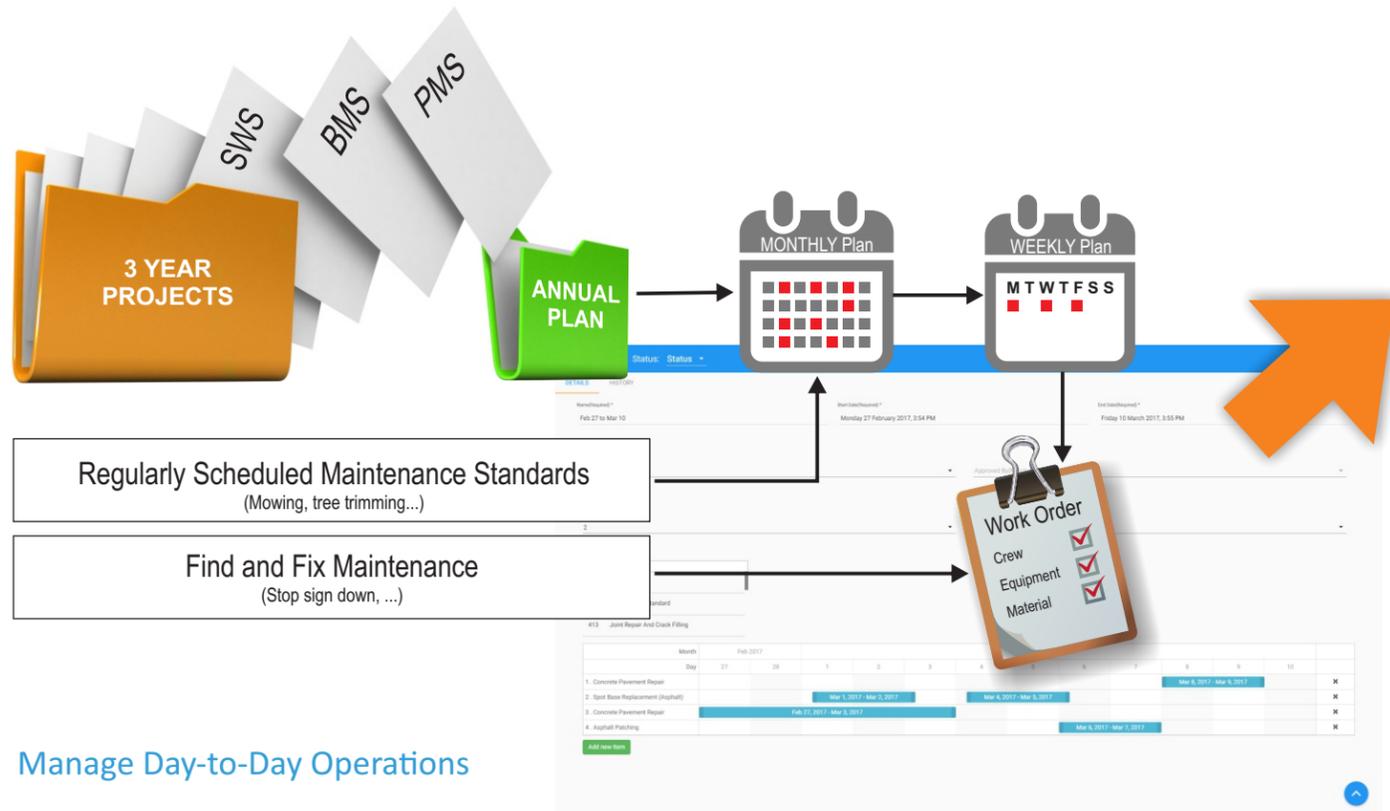
dTIMS' extensive interoperability allows for seamless integration with other existing systems, including: GIS, CRM, ERP, and finance systems. This enables agency-wide communication without complex customization.

Common Asset Registry



dTIMS allows you to incorporate all of your agency's infrastructure assets into one complete platform, including: roads, bridges, culverts, tunnels, curbs and gutters, sidewalks, signals, signs, guiderails, sub-surface utilities, facilities, and more.

dTIMS Operations Management



Manage Day-to-Day Operations

dTIMS OM is an enterprise operations management system used to track the operation, maintenance, and disposal of assets. Core features include the ability to schedule jobs (work orders), secure resources (labour, equipment, and materials), record costs, and track relevant information such as the cause of an issue, downtime involved, and recommendations for future action.

Use the map to drill down into an activity to get detailed asset information. Track pertinent information for all resources. See how time and money are being spent on individual assets. It works in real time on any device and covers the full spectrum of operations management.

Take the recommendations from dTIMS BA and create an effective, optimized, long term maintenance strategy, which can be used by dTIMS OM to develop a schedule of work.

dTIMS OM Checklist

- **Customer Service Requests** - Internal and external customer service requests, including request capture, request routing, and collaboration.
- **Inspections**- Mobile users can enter the results into a dTIMS mobile app or an external app linked to dTIMS asset registry.
- **Work Orders** - Develop work orders based on e-mail notifications or other logic that match your agency's maintenance operations.
- **Scheduling** - Assign crews and employees to work orders and geographically schedule work.
- **Resource Management** - Improved tracking of employees on specific tasks, when tasks are completed, and employee performance.
- **Preventative Maintenance** - Keep your assets and the equipment that supports those assets at an acceptable level of service.

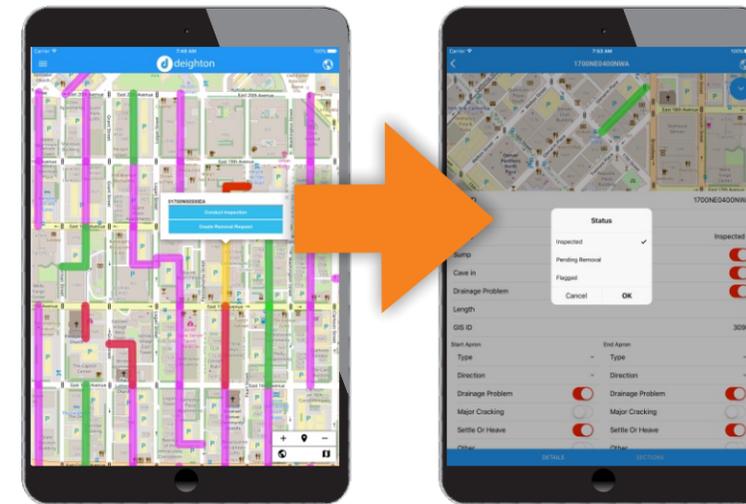


Field Mobility

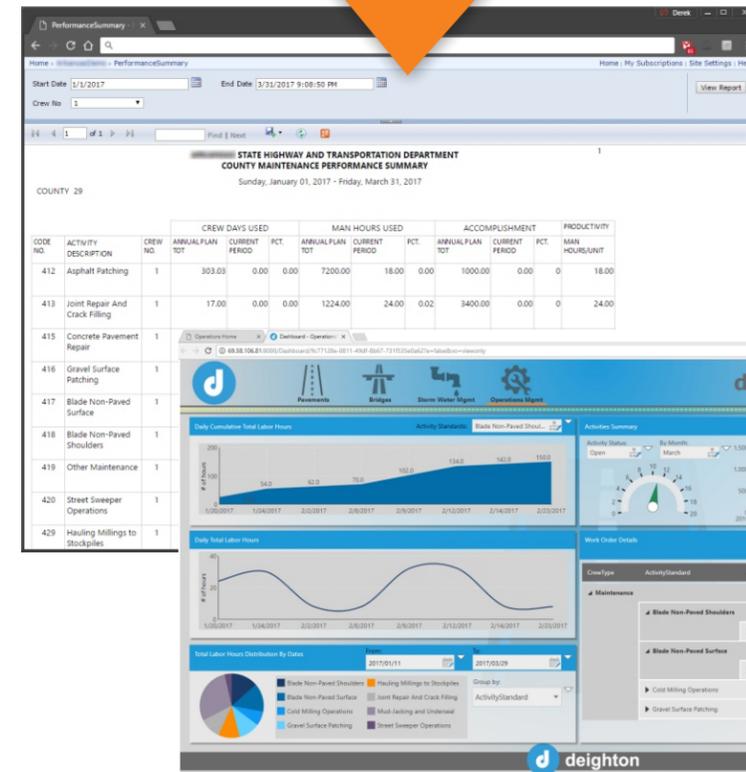
dTIMS mobile apps are designed for field staff. The days of manual worksheets in the field are gone. A tablet or phone is portable and more consistent, and photos or voice recordings are now essential tools for data collection. Staff can capture, analyze, and share work data with their smartphones or tablets.

dTIMS Mobile Apps function online and offline. All of our mobile devices will allow you to log, track, and adjust work activities regardless of connectivity.

Your agency gets better decision-making and productivity in the field, and a quick return on investment.



All dTIMS Apps are purpose driven, which means that staff in the field will only view specific work assigned to them. In addition, mobile workflows have been simplified to reduce the number of steps (clicks) required to complete a task.



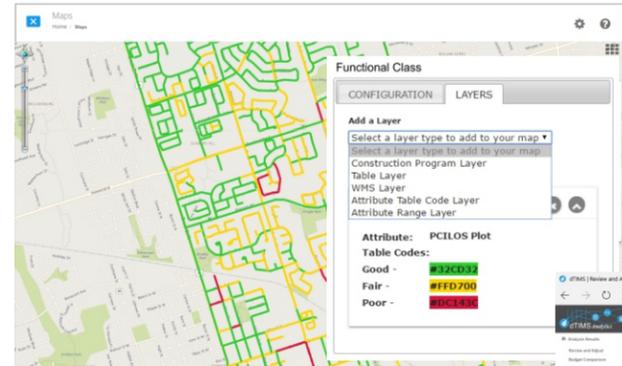
Reporting

Get a view of which work orders have been scheduled, completed, and past due. Managing the backlog of work requests is a key responsibility of maintenance department leaders. Making decisions based on priority work and keeping the schedule up-to-date is critical.

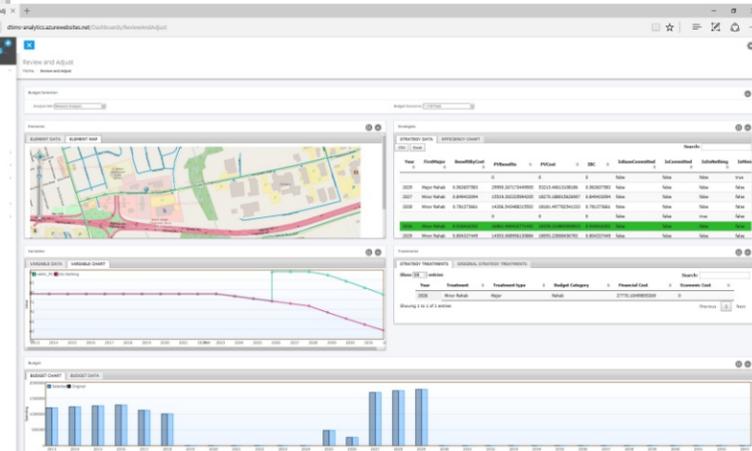
The most valuable insights from dTIMS OM come from reports generated, and the collaboration of the people using the system. dTIMS empowers a wide range of users that possess a wide range of capabilities.



dTIMS Business Analytics



dTIMS is a map-centric application that allows you to view the results of your analysis directly on a map, such as condition distribution or your proposed work plan. Alternatively, you may push dTIMS data out to your agency GIS.



Measure Condition

All of your assets are stored in a relational database with temporal and hierarchical functionality. Models describe the current condition and predict the future condition of your assets.

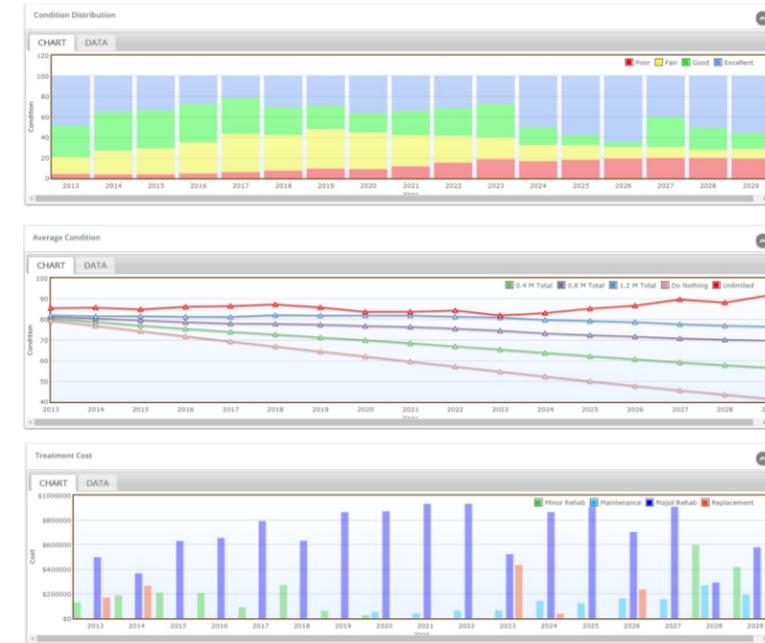
The dTIMS platform allows agencies to structure a database that will support virtually any attribute, which describes the composition or condition of the assets that you are managing. The list of attributes is not limited to a set of predetermined fields that are required to support a vendor-imposed analysis. Instead, the database structure is designed to accept and integrate inventory and condition data that you currently maintain, with the flexibility to modify the structure in the future.

When you run an analysis, dTIMS BA produces a set of alternative treatment strategies for each element included in the analysis. These strategies describe the effects of applying various treatments (or applying no treatments) during the asset's life-cycle.

Optimize Decision Making

dTIMS Life Cycle Cost Analysis (LCCA) is a flexible and sophisticated analysis and optimization tool that will meet the planning needs of your agency now and into the future.

Your agency will have full control over any of the dTIMS parameters used to generate the LCCA, including: analysis segmentation, performance measures, performance prediction models, asset families, treatments, treatment decision trees, treatment impact, treatment costs, budget categories, budgets, and all economic parameters such as discount and inflation rates. Having this much flexibility ensures that dTIMS generates maintenance, preservation, and rehabilitation recommendations according to your business practices, and ensures that you are not forced into a predefined analysis methodology.

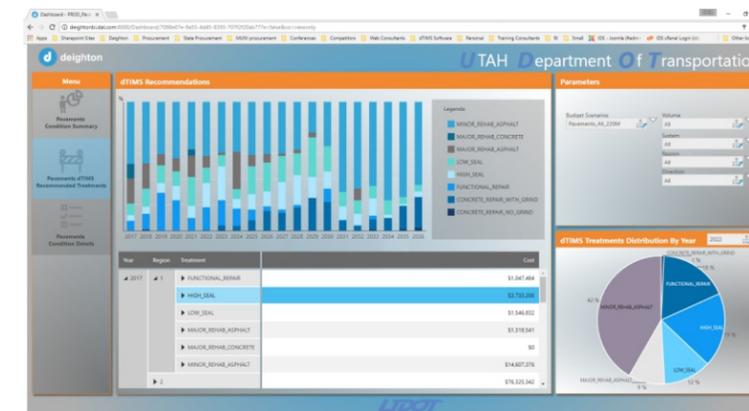


Once you run an analysis on your network, you can generate standard, custom, and map-based reports across your agency to help communicate decisions.

Reporting

dTIMS BA generates detailed reports, comparative reports, map-based reports, and more. View the impact of current work plans, or simulate the potential impact of budget increases or cutbacks.

Report types include: Detailed (Strategies, Treatments, Analysis Variables), Summary (Program Costs, Condition Distribution, Travel Distribution, Treatment Costs, Treatment Lengths), Comparative (Average Condition, Length in Backlog, Return on Investment, Remaining Work), Works Program, and Construction Program.



dTIMS BA and dTIMS OM enable you to view aggregated data through a number of visual reports, such as bar charts, pie charts, scatter charts, and more (shown above).

Business Intelligence

Tired of constantly searching for information? dTIMS allows you to easily interpret large volumes of data. Identify opportunities or shortfalls so you can implement an effective strategy based on insights gained through dTIMS. View custom dashboards for a clearer understanding of the information. Provide historical, current, and predictive views of agency operations in a fraction of the time.

For even greater reach you can easily push dTIMS information to an external agency dashboard.

