riva
modeling™

City of Burlington, Ont., Streamlines Asset Management with One System

"The City is now able to integrate all of our source asset management systems into one software package for long-term lifecycle management. The RivaDS system saves time by allowing staff to access inventory, condition, lifecycle, and rehabilitation information from a single software system. Reporting time is also drastically reduced, as reports can be run on any combination of asset classes by a single staff person. In the past, it would take several staff from various departments to gather and report on asset information. Now the information is in one easy-to-access system, thus reducing the need to have other staff involved in the process."

Paul Rohoman, C.E.T., Infrastructure Technologist, Capital Works Dept.

CITY OF
Burlington
Ontario ♦ Canada

Client Profile

Location: Ontario, Canada
Population: 175,800
Industry: Municipal Government
Net Assets: $2.1B+
www.burlington.ca

Solution

RivaDS Decision Support

Integrations

SAP AA
Esri ArcGIS
Road Matrix Pavement Management System
Avantis Maintenance Management System

In 2012, the City of Burlington (COB) in southwestern Ontario began using the RivaDS solution to manage the complex lifecycles of its largest asset class, roadways, comprising about 80% of their inventory replacement value. Working with the City, Riva Modeling created the central asset inventory by integrating to all source systems and spreadsheets. The project included integration to Esri GIS, Road Matrix (Pavement Management), Avantis (CMMS) and SAP Asset Accounting (ERP system).

Challenge

Prior to 2011, the City had been using four systems to manage their roads, bridges, and storm sewers, but none of the four systems had complete lifecycle prediction modeling capability. It was clear they could benefit from one comprehensive asset management solution that could provide a sophisticated means of tracking lifecycle needs and costs. RivaDS Decision Support was the system they selected.

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Solution

RivaDS is a solution which allows its owners to answer these crucial questions regarding asset management:

1. What do we own?
2. What is it worth?
3. What condition is it in?
4. What do we need to do to it?
5. When do we need to do it?
6. How much money do we need?

Since the early 90s, COB had been using a pavement management system to manage their roadways assets. In 2002, they implemented a storm sewer CCTV management system, and in 2005 a bridge management system. The City also uses a GIS to manage other asset types such as sidewalks, noise walls, and street lights. These existing systems essentially answered the first three questions mentioned above; i.e., they had a good asset inventory and condition data.

One year prior to installing RivaDS, Riva Modeling had implemented another of its core applications—RivaEI (Enterprise Integration)—and developed the RivaAS (Asset Settlement) module to help the City meet PSAB 3150 (asset accounting) compliance. It turned out that the work involved in the PSAB implementation had laid substantial groundwork for the RivaDS project: the City asset management team decided it would be efficient to integrate all inventories into a single management system.

Riva configurations are established by the client and considerable effort was put in by COB staff to establish their unique asset lifecycle events, creating a custom model for the City of Burlington. RivaDS was installed on the City's servers and their entire asset inventory from RivaEI (PSAB and SAP integration) was loaded. Working with the City, Riva Modeling created the central asset inventory by integrating to all existing asset source systems.

The system was configured to identify synergies and cost saving resulting from the grouping of projects within the same right-of-way or corridor such as road, storm sewer and pedestrian network rehabilitations.

Several factors led to a smooth implementation:

- COB's data was in qualified and useable condition
- RivaDS project team already familiar with COB's systems and staff
- City staff were vested in the project
- Asset hierarchy had already been established.

The Benefits

With the RivaDS solution, COB staff can now:

- Predict optimal asset rehabilitation and replacement timing.
- Provide guidance on the right treatment, at the right time to the right asset.
- Compute costs associated with the rehabilitation or replacement requirements.
- Compare funding provided vs. funding required and show the magnitude of funding gap.
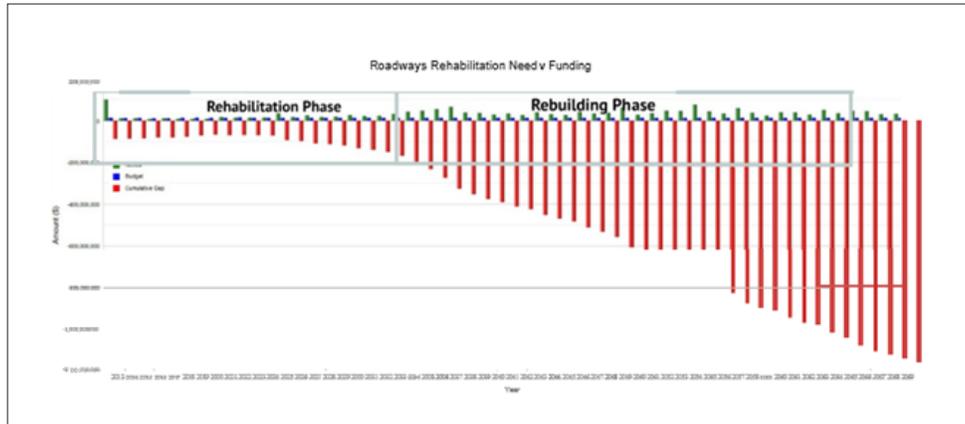
Value of Using RivaDS

The RivaDS solution brings value to asset-intensive organizations in the following ways:

- **Consolidation:** Bringing your data sources together to effectively make decisions through the use of one system.
- **Efficiency:** Capital planning effort is reduced by as much as 50% and rehabilitation synergies are improved.

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- **Effectiveness:** Detailed listing of all rehabilitation needs for any given year for a 100-year planning horizon.
- **Timeliness:** Asset condition data is synchronized nightly to provide the most up-to-date rehabilitation model.
- **Transparency:** All values can be tracked to see exactly where they came from. All formulas and strategies are easy to review and test.

To learn about how Riva Modeling Systems can help your organization address its asset management challenges, email us at:

info@rivamodeling.com

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About the City of Burlington

The City of Burlington, Ontario, lies in the central west region of southern Ontario. It is a thriving, mid-sized city within reaches of the GTA (Greater Toronto Area). In 2014, the City was recognized on three occasions for its leadership initiatives and innovation with regards to asset management:

- Riva Modeling Luminary Award.
- IT Symposium award from the Ontario Public Works Association for work on the Corporate Asset Management System implementation (Riva Decision Support implementation).
- IAM Next Generation Asset Manager of the Year Award.