

Hidden Value in GIS Inventory

PSAB 3150 Solution at The Region of Halton

The Riva Advantage by Ian Woodbury



GIS is now at the centre of operational asset tracking in the municipal environment. Building up complete infrastructure layers has taken years of hard work and the processes for maintaining data quality and integrity in their ESRI GIS environment have become mature. The new challenge is to get more value out of this investment in maintaining the geographic representations of assets. The Region of Halton (Region) working with Riva Modeling Systems Inc. found a great opportunity to do this within the context of PSAB 3150.



PSAB 3150/GIS Opportunity

PSAB 3150 guidelines require the region to determine and report on the depreciated value of all their assets by the end of 2009. The biggest challenge to completing this task lies in asset valuation when there is no history of original acquisition costs. Early on in the process, the Region identified the GIS as having the most complete and accurate representation of their linear asset inventory. The challenge was to turn this operational inventory into a financial inventory.

... biggest challenge to completing this task lies in asset valuation when there is no history.

Working with experts, the Region developed valuation formulas that could take the information available in the GIS and turn it into an inventory of assets with replacement costs. The key attributes identified were standard data fields in the Region's GIS, like length, width or diameter,

... take the information available in the GIS and turn it into an inventory of assets.

material and year of construction. They tested the formulas against sample data extracted from the GIS and confirmed that the approach would produce acceptable values.

Working with Live Data in Real Time

There was still a large challenge. These inventories were continually being updated and added to in real time. How could the Region automate this process and keep the financial inventory in synch with the operational inventory? This was where Riva Modeling could bring a big advantage to the project. Riva En-

Add Column	Name	Asset Type	Constructed
	WSL CENTRIFUGE 1	FlexAsset	2002-01-01 00
	WSL CENTRIFUGE 2	Centrifuge	2001-01-01 00
	AERATOR 6	Aerator	1995-01-01 00
	AERATOR 1	Aerator	1995-01-01 00
	DIGESTER MIXER 1	Digester Mixers	1995-01-01 00
	DIGESTER MIXER 3	Digester Mixers	1995-01-01 00
	COMBUSTION TURBINE G	Combustion Turbine G	1995-01-01 00
	STEAM TURBINE GENERA	Steam Turbine Genera	1995-01-01 00
	STEAM TURBINE GENERA	Steam Turbine Genera	1995-01-01 00
	STEAM TURBINE GENERA	Steam Turbine Genera	1995-01-01 00
	WSL CENTRIFUGE 6	Centrifuge	1995-01-01 00
	REACTOR MIXER 1	Reactor Mixer	1995-01-01 00
	REACTOR MIXER 3	Reactor Mixer	1995-01-01 00

GIS Hidden Value and PSAB 3150, The Region of Halton...

terprise Inventory (Riva EI) was configured to build the financial asset records from the GIS records using its synchronization toolset. This ensured that any changes in the inventory or attributes in GIS would automati-

... attributes in GIS would automatically flow into the financial record.

cally flow into the financial record. Riva Modeling then helped the Region put the valuation formulas to work, calculating replacement cost, deflating

these costs to estimate acquisition costs and then creating opening inventories and balances. This resulted in a financial inventory that was always in synch with the operational inventory.

Bonus: Integration between GIS and Finance

This spring, the Region is completing the process by moving their financial assets from Riva EI into their SAP asset accounting system. This will leverage another

Riva Modeling integration component (Riva SAP-AA) that connects to SAP Asset Accounting to create all



the assets with opening balances. In addition, all future changes to assets and all new assets will flow through from the ESRI GIS to SAP without manual intervention. The workflow is simple, for example when a new pipe is installed, the GIS group draws it with material, length and diameter and sets the status to "In Service". That night, the GIS synchronization component identifies the new pipe segment as an addition, calculates out the useful life and replacement value for the pipe and sends it to the asset accounting module using the Riva SAP-AA integration component. When the asset accountants get the bill from the contractor, the asset is already sitting in their accounting module, ready to have the value of the asset and any related work settled into it.

The Region of Halton now has a fully integrated GIS and financial system, married via Riva EI and enabled with the Riva PSAB 3150 reporting module it can gener-

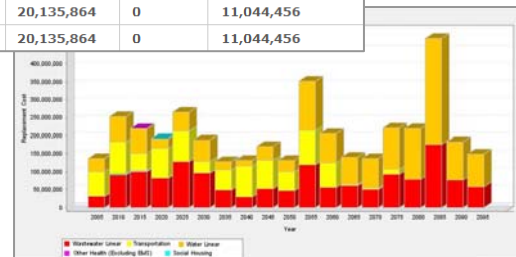
ate all the reports necessary to comply with the 3150 guidelines in minutes.

Working with Riva Modeling Systems Inc., the

... PSAB 3150 reports in minutes.

Region has developed a truly sustainable model for getting more out of their operational GIS investment.

TCA CONTINUITY SUMMARY REPORT			
TYPE	ACQUISITION	SALVAGE	OPENING BALANCE
CATEGORY: INFRASTRUCTURE			
CLASS: LINEAR			
Noise Wall	2,174,252	0	1,504,552
Road	15,961,616	0	8,539,904
	20,135,864	0	11,044,456
	20,135,864	0	11,044,456



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