

3.2.1 GIS Centric Roads Asset Management System

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Increasing demands on optimal managing of Roads assets in the City of Calgary and the urgent need for planning the work, assigning field crew for executing it as well as evaluating the works on the assets have been the main motivations in applying an asset management system. With respect to the fact that the Roads assets are spatially distributed, handling of them also requires spatially enabled systems. GIS has been used extensively in the asset management to provide spatial analyses tools manage the assets.

This paper presents the approach of design and implementation of Roads Asset Management System and elaborates the role of GIS as the main repository for the asset registry. The paper starts with explaining the system architecture of the asset management system followed by the coupling method of GIS and work management systems. The Object Model and their particular characteristics will then be discussed in details. Paper presents number of conclusions and also suggests few recommendations for similar architectures in other businesses.