

# A CLOSER LOOK AT ASSET MANAGEMENT

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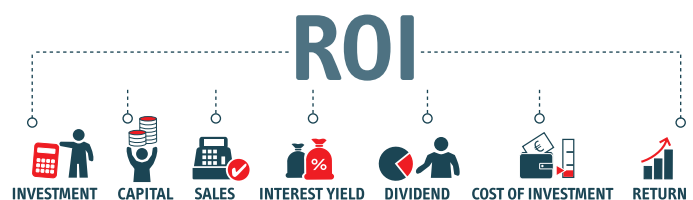
# Asset Management

Every year, billions in tax revenue is spent on public infrastructure which ensures that the necessities of a growing population are taken care of. As such, buildings are an important aspect of public infrastructure and accordingly, have a significant impact on the lives of Canadians. As all levels of government explores options of managing the demands of a growing society, the focus on “Return On Investment” of infrastructure has become ever more important. Ensuring that infrastructure assets will provide adequate service for long periods of time is an important factor for government when it comes to procuring, building and managing infrastructure assets.

As existing infrastructure ages and demand increases for more and better services, communities are increasingly recognizing and developing new ways in designing, planning and managing public infrastructure. This allows them to meet these growing needs while being fiscally responsible and accountable to everyday tax payers.

The Federation of Canadian Municipalities (FCM) states that Canada has an infrastructure deficit of \$123-billion dollars. This means that in order to provide the appropriate amount of maintenance to the country's aging infrastructure, the cost would be \$123-billion. This has shifted the focus of all levels of government to be more prudent regarding the long-term management of all infrastructure assets.

The concept of asset management has been around for decades. However, it is only in recent years have municipalities and other government bodies started paying keen attention to the fact that these assets in the form of public infrastructure requires ongoing investment to sustain them. In other words, asset management provides a framework for decision makers to effectively craft solutions not only for the short-term but also for long-term planning, helping municipalities to better understand the investments needed to maintain these assets giving a better Return on Investment.



# Ontario Regulation 588/17

On December 27, 2017, the Province of Ontario released the Ontario Regulation 588/17 under the Infrastructure for Jobs and Prosperity Act, 2015. Under the legislation, all municipalities are required to prepare a Strategic Asset Management Policy, a plan to maintain core municipal infrastructure, a levels of service proposal and a publicly accessible asset management plan. The first key action in the new asset management regulation (Ontario Regulation 588/17) requires the development and adoption of a Strategic Asset Management Policy by July 1, 2019. As an association that works closely with various municipalities in Ontario, MasonryWorx is positioning itself to provide as much support as necessary in setting up a framework in helping with these policies.

It is therefore necessary to note that municipalities should start thinking of asset management as a process beginning before any shovel “hits the ground” on a project. This means implementing principles of the Lowest Total Cost of Ownership into procurement policies. The Lowest Total Cost of Ownership encourages government decision makers to consider the cost of an asset over its entire service life from construction through to decommissioning. Masonry wall systems are durable and long lasting and therefore stand to be well positioned to provide long term asset management solutions.



MasonryWorx is now also exploring the option of working with the University of Windsor by putting forward a research proposal which looks at healthy and resilient public buildings through masonry construction. The purpose of the study is to position masonry construction as an economically feasible, socially acceptable and environmentally sustainable solution for the low-rise building construction in Canada. The University of Windsor will lead an innovative and integrated research agenda equipped with some state-of-the-art facilities in collaboration with multiple stakeholders and partners to achieve the above objective.

The mission of this study is threefold; first, to enable a massively improved data-driven understanding of the long-term physical condition and thermal deterioration of masonry buildings, secondly, to develop significantly more powerful predictive planning and life-cycle thinking based decision-making techniques and finally, to develop resources for the deployment of masonry construction as a technique for realizing healthy and resilient buildings. The lead candidates are; local governments, school boards and any public sector institutions that owns and operates building infrastructure.

When completed, this study will provide data needed to better understand Life-Cycle performance and asset management especially for masonry buildings. This information will be key in providing very important solutions to the government and building owners focusing on asset management and Life-Cycle Assessment.



# Paul De Rose Memorial Golf Tournament



MasonryWorx is proud to host the Paul De Rose Memorial Golf Tournament on Wednesday July 31st 2019, at the prestigious Copper Creek Golf Club in Vaughan. Set amid the rolling hills and forests of the Humber River Valley this championship golf course promises to provide an unforgettable experience.

Following is a brief itinerary for the tournament:

Registration: 11:00 a.m.  
Shotgun Start: 1:30 p.m.  
Lunch: 11:30 a.m.  
Cocktails/Dinner 6:00/7:00 p.m.



## Material Syntax: 3D Printed Clay



Students at the University of Waterloo, School Of Architecture exhibited models from their 3D-printing course which showed the design potential of new types of façade systems and the future of architecture using 3D-printing technology. Each design had a component of a wall or façade system that encompassed the plasticity, elegance and architectural quality of clay.

The technology allowed students to modify every brick individually and allowed much more complex geometry than would be feasible with conventional brick-making methods. The result was a wide range of installations, including an archway that can act as a sundial, a wall that whistles with the wind and an ornamental screen wall.

The next exhibition will be held in January 2020 and MasonryWorx looks forward to continue working with the school, contributing to this new initiative.