

# Asset Management Overview



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## What are assets?



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## What is asset management?

**Asset management** is the coordinated activity of an organization to realize value from assets.

- Considers service needs of our community
- Manages risks and opportunities
- Optimizes financial investments in infrastructure

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**How does asset management deliver value to our community?**

**Performance**

+

**Risk**

+

**Cost**



**Value from services**

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## Key Issues & Challenges?

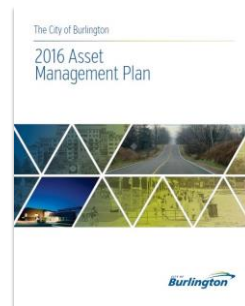
- Aging infrastructure;
- Competing priorities;
- Increasing service level demands;
- Capital and operating reinvestment rates;
- Climate change; and
- Legislative requirements (e.g. O.Reg 588-17)

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## Burlington's Asset Management Approach

- Manage infrastructure using proven life-cycle strategies
- Asset management planning
- Make informed decisions about assets in repeatable and supportable ways, based on good data
- Increase overall asset management awareness throughout the organization
- Internally-developed asset management plan



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## Burlington's Assets: At a Glance



- 1,614 km of paved road
- 140 bridge/culvert structures
- 512 km of sidewalk and multi-use pathways

**\$ 2.01 B**

- 1.5 million sq. ft. of facility/building space
- 27 parks and recreation facilities

**\$ 547.7 M**

- 26 Storm Water Management (SWM) Ponds
- 760 km of mainline storm sewers

**\$ 66.6 M**

- 105 park sites
- 7 skate parks
- 5 splash pads

**\$ 200.3 M**

- 60 conventional buses
- 145 corporate fleet vehicles
- 44 fire vehicles

**\$ 70.6 M**

- 300 servers
- 40 major software applications

**\$ 44.7 M**

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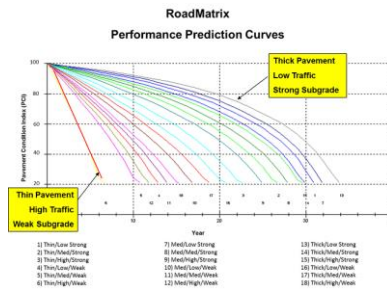


## Burlington's Assets: At a Glance

- Condition / age determines where an asset is in its life-cycle
- Information is used to determine capital renewal need and timing



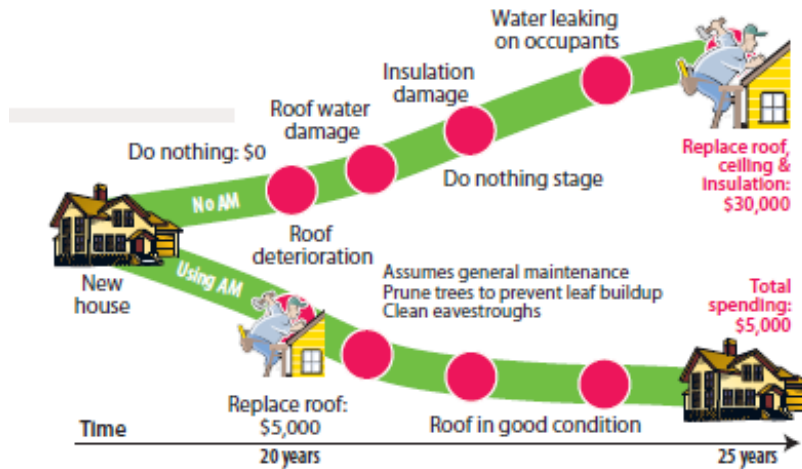
Rating	Condition	Condition Assessment Definition	Age Based Condition	Probability of Failure
1	Very Good	Well maintained, good condition, new or recently rehabilitated.	Greater than 80% of asset useful life remaining.	Improbable
2	Good	Good condition, few elements exhibit existing deficiencies.	60% - 79.9% of asset useful life remaining.	Not likely
3	Fair	Some elements exhibit significant deficiencies. Asset requires attention.	40% - 59.9% of asset useful life remaining.	Possible
4	Poor	A large portion of the system exhibits significant deficiencies. Asset mostly below standard and approaching end of service life.	20% - 39.9% of asset useful life remaining.	Likely
5	Very Poor	Widespread signs of deterioration, some assets may be unusable. Service is affected.	Less than 20% of asset useful life remaining.	Very Probable



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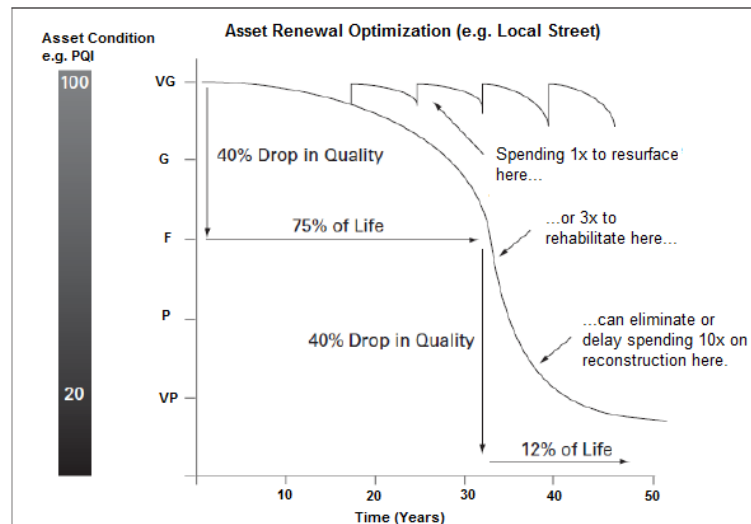
## Optimized Renewal Strategy



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## Optimized Renewal Strategy (e.g. Local Road)

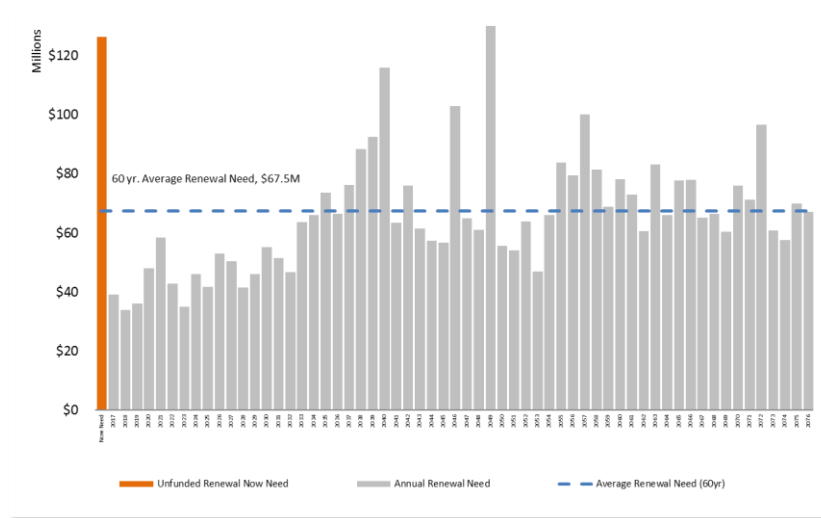


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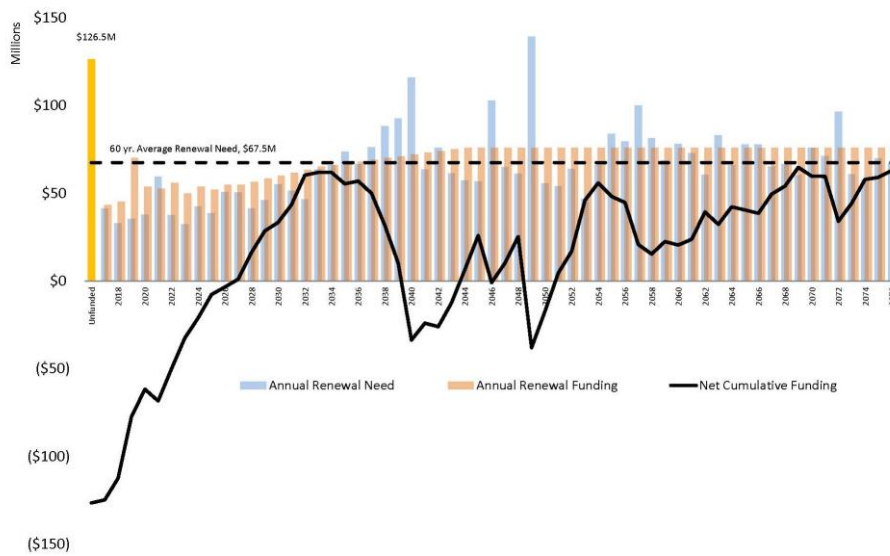
## Renewal Needs Analysis



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## Asset Management Financing Plan



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## Recap : Program Objectives

- Review / update of asset inventory, condition and estimated service life
- Identification of the maintenance, repair and rehabilitation
- Establish a list of priorities that will result in the most efficient use of resources available
- Achieve the best value for taxpayers by maximizing our investment and avoiding more costly repairs (Optimization)