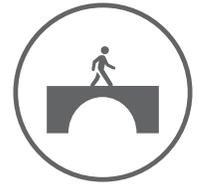




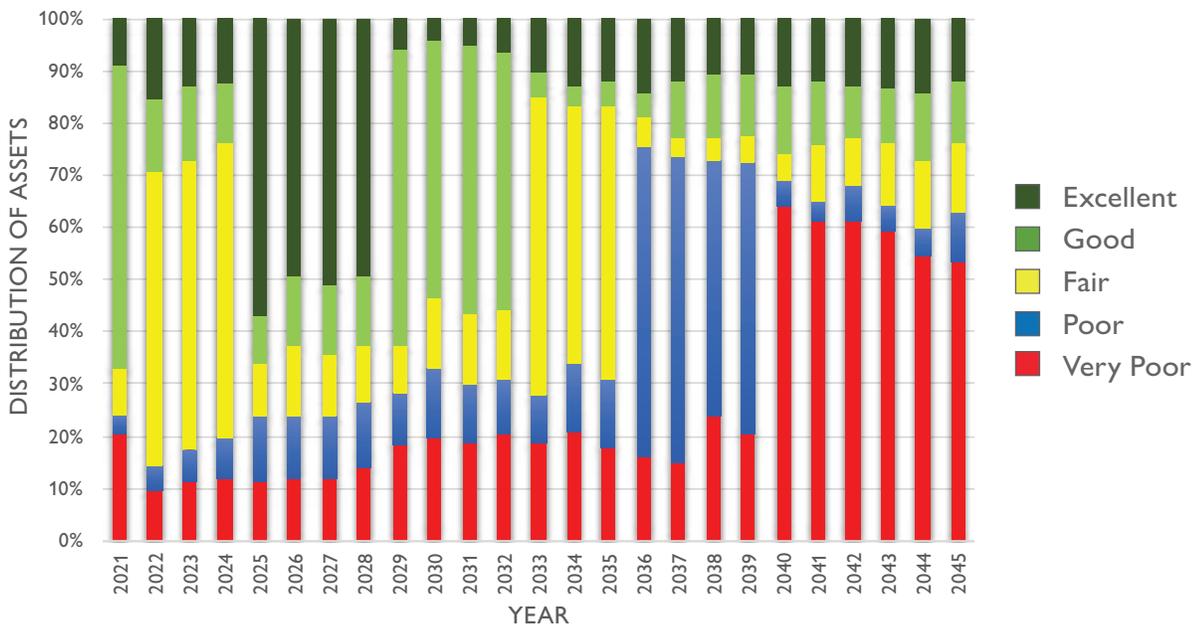
Bridges and culverts

Total asset replacement value	\$50 million
Current condition	GOOD
Projected condition in 25 years	VERY POOR ⬇️
Annual average funding	\$700,000
Annual funding needed to meet target performance	\$1.1 million
Annual funding gap	\$400,000
Funding Source	Tax Base and Stormwater User Fees
Data Maturity Level	Medium



ASSETS INCLUDE
40 pedestrian bridges and 22 road culverts

Annual performance of bridge assets



CURRENT STRATEGY

Within the city, bridges fall into two categories: pedestrian bridges and road structures. Pedestrian bridges are meant to support pedestrians, cyclists and maintenance vehicles such as those used for snow clearing. All road structure bridges in the city are storm culverts with a span of three metres or greater, and may support heavy transport, motor vehicles, emergency vehicles, pedestrians and cyclists. Bridges are funded by both the tax base and through stormwater users fees.

Both types of bridge structures are replaced when they reach the end of their useful life. Inspections completed every two years determine if there is a need for work to be done, ranging from replacement of railings to asphalt and concrete repairs, right up to full bridge replacement.

ASSET PERFORMANCE

We evaluate the performance of our assets using asset data, a combination of historical knowledge, age, observed conditions, measurements and analytical techniques. The quality and availability of this information (also known as “asset data maturity”) is continuously improving. Updates to asset data and deterioration trends will change the projected performance of an asset. The higher the data maturity is, the greater confidence we have in our future performance projections for the asset. The maturity of our bridge asset data is considered medium.

Just over 20% of bridge assets are currently considered in poor or very poor performance. Over the 25 year timeline, with the current level of funding, we anticipate the percentage of our bridge assets with a poor or very poor profile to increase from just over 20% in 2021 to approximately 60% by 2045. Based on the best available bridge asset data, deterioration rates and 2020-2029 capital funding, we estimate that bridge assets have an annual infrastructure funding gap of \$400,000.

The information presented here is based on the best currently available data regarding asset inventory, performance and degradation curves along with funding included in the approved 2020-2022 capital budget and 2023-2029 capital forecast.



**Bridge assets
with a poor
or very poor
performance**