Green Line Re-Casting Business Case for COVID and Economic Recovery

steer

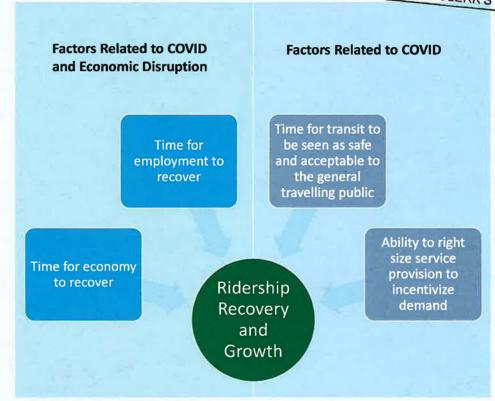
# CITY OF CALGARY RECEIVED IN COUNCIL CHAMBER JUN 0 1 2020 ITEM: 4/ GC 2020-0583 DISTRIBUTION CITY CLERK'S DESCRIPTION

## **Scenario Framing**

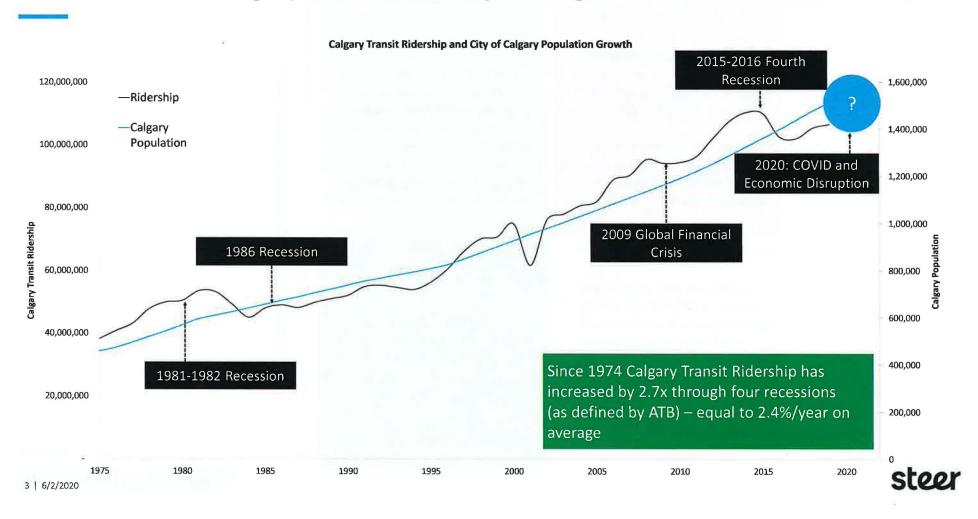
Scenarios have been set out to communicate how changes to economic activity and the pandemic could impact the ridership and benefits of the Green Line LRT.

Scenario analysis is useful when facing an uncertain future:

- Transport models are based on past travel behaviour and growth
- The future is unknown and cannot be forecasted completely



## **Historic Context: Calgary Transit Ridership Through Economic Recessions**



### **Scenario Overview**

% of 2019 Ridership post stabilization

#### Rapid return to business as usual

- Economic disruption is minimal, economy and employment rebounds
- Travelling public does not have aversion to transit
- Service can be ramped back up to meet demand

#### Slow return to business as usual

- Some economic disruption that impacts the commuter market in the short-medium term; and/or
- The travelling public has an aversion to using transit; and/or
- Service takes longer to recover and be right sized to demand

# Rapid ridership growth that peaks at lower ridership than 2019

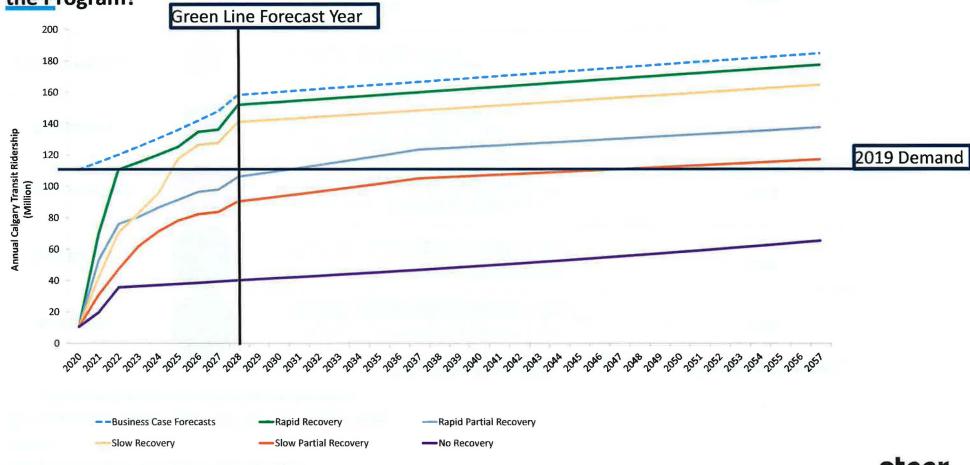
- Some industries rebound quickly, but others have major productivity or job losses
- The travelling public does not have aversion to using transit
- Service can be ramped up to meet demand

# Slow ridership growth that peaks at lower ridership than 2019

- Major economic slow down that lasts beyond the pandemic; and/or
- The travelling public has a new aversion to using transit; and/or
- Service cannot be ramped up to meet growing demand



Stress Testing the Green Line: How Could Economic Change and COVID Disruption Impact the Program?



steer

# **Impacts on Green Line LRT**

The Green Line was tested under the four scenarios to understand impact on ridership and benefits.

0.56		4,400
0.54		4,200
0.51		3,000
0.38	00000000000000000000000000000000000000	3,900
0.32		2,800
	16,500	1,500
	0.51	0.51  0.38  0.38  0.32  0.32

# Implications for Green Line and Required Level of Service

- High performance bus lines can carry approximately 2,000 passengers per hour per direction.
- Under the slow partial recovery scenario, a downtown bound bus would be required every 2 minutes in the peak to meet opening year demand
- This level service may be challenging to deliver due to the road configuration in the SE and Downtown

