

Investing in Calgary's Green Line LRT



The Green Line

In 1981, Calgary's fi st LRT line was opened, revolutionizing transportation in our city. The system has since expanded to become the backbone of the regional transit network with 58 route-kilometres of track and 45 stations. Today, on the average weekday, over 320,000 passengers are carried on the existing LRT network, making it the most successful LRT system in North America.

The Green Line is the next LRT line to be built in Calgary.

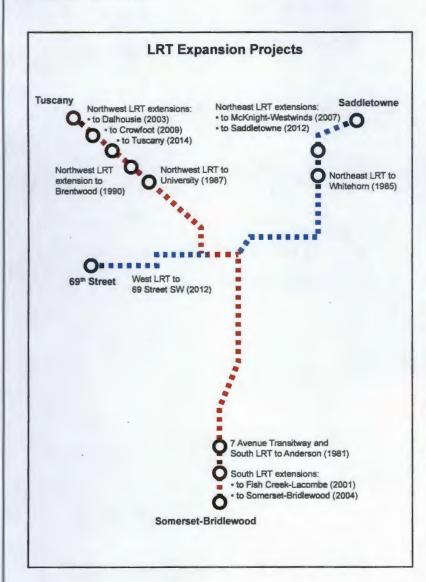
In 2014 Calgary City Council committed \$520 million to this project to start initial implementation of the Green Line. On July 24, 2015 the Government of Canada made a historic funding commitment to the Green Line of up to \$1.53 billion, contingent on matching provincial and municipal funds. The City of Calgary hopes to use this opportunity to partner with all levels of government and advance construction.

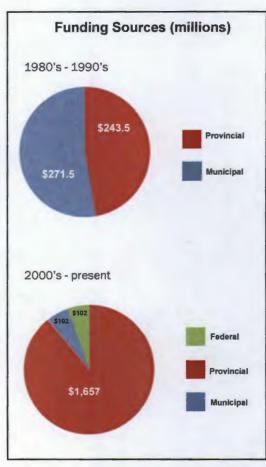




Historical LRT Development, Growth and Funding

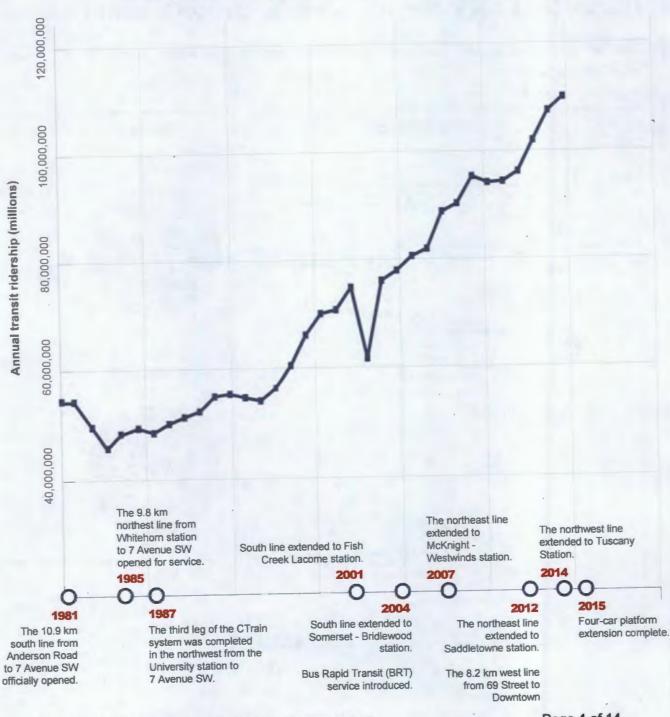
The Province of Alberta's contribution over the last 30 years has been instrumental to the success of Calgary's LRT system.





Calgarians have responded to LRT improvement and ridership has increased significantly as the sys em has grown.

Annual transit ridership and expansion of the LRT system



TT2015-0881, GREEN LINE FUNDING, STAGING AND DELIVERY/Att2.pdf ISC: Unrestricted

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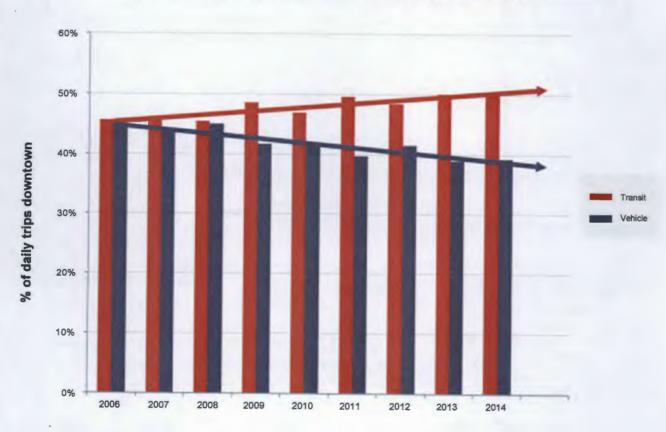


Return on Investing in Calgary's LRT

Transit supports Calgary's economic engine

More than 50% of Calgarians use transit to get to the downtown for work. Transit helps Calgarians move efficiently o and from the central business district – Calgary's economic engine. The current system has enabled downtown growth and urban densification, and s veral transit oriented development projects along the LRT line.

How Calgarians are getting downtown during the AM peak: Transit vs. Vehicles



Calgary: the economic driver that contributes to the success and growth of Alberta



Calgary has the second highest total employment growth over the past 10 years among Canadian CMAs*

*Census Metropolitan Area

Source: Economy at a glance: Calgary's advantages, Calgary Economic Development, March 2015

Continued investment in transit will benefit Calgarians and Albertans

Increased investment in transit



An Economic Advantage

- Result in less traffic and congestion
- Increased efficiency in goods and service movement



Better Lives for Calgarians

- · Travel to work efficiently and economically
- · Air will be cleaner reduce carbon pollution
- · Options for low income seniors and families

Stronger Alberta Economy

- · Increased productivity
- Increased taxes to fund public services
- Increased contribution to Alberta



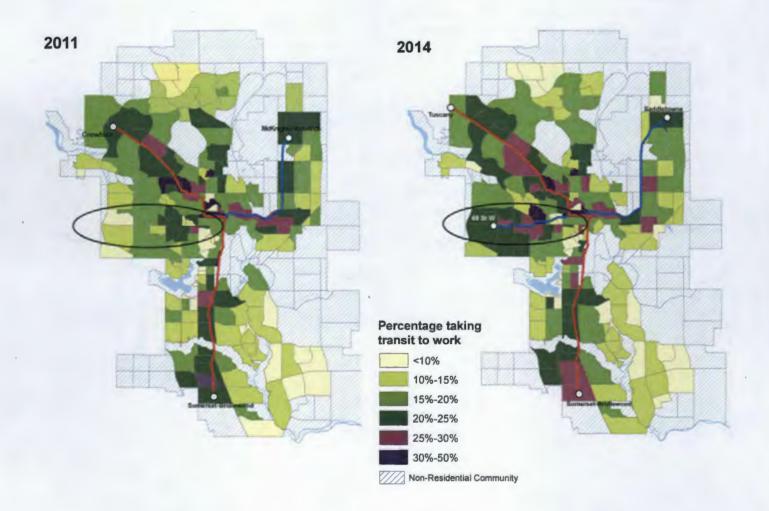


West LRT

In December 2012, West LRT, Calgary's largest ever infrastructure project was opened for service. The project was a catalyst to improve transit, pedestrian facilities, cycling infrastructure, traffic flow and enhance development opportunities across west Calgary. West LRT included 6 new CTrain stations, over 8 km of double track and 1,192 park and ride stalls. West LRT was 95% funded by the Government of Alberta through the Municipal Sustainability Initiative and GreenTRIP.

Calgarians respond positively to improved rapid transit options

Adding West LRT resulted in a large jumps in transit use for those communities in close proximity to the LRT line. In some cases upwards of 30% of residents now take transit to work (City-wide average is 18%). We expect to see similar results in the Southeast and North Central parts of the City with the completion of the Green Line LRT.





A plan to enhance mobility and be fiscal y and environmentally responsible

We have a plan and we're ready

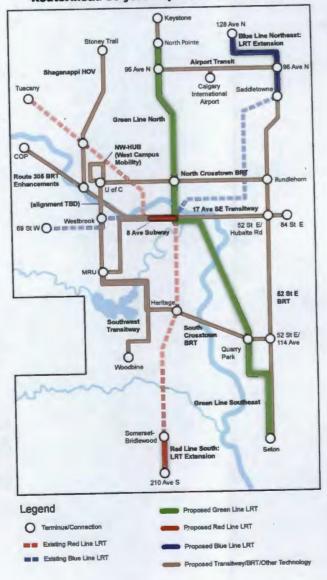
The Calgary Transportation Plan is a 60-year vision which responds to growing transportation concerns by providing a balanced approach to improving mobility for all modes of travel.

RouteAhead is The City's 30-year, \$13 billion strategic plan for transit and includes new customer service oriented rapid transit projects.

Investing in Mobility, The City's 10 year capital plan, showcases the major projects and annual programs around infrastructure to meet Calgarians' transportation needs as they work, shop, and play.

The next major LRT expansion is the Green Line.

RouteAhead 30-year Rapid Transit Network



Calgary's GreenTRIP Projects Investing in Calgary's Green Line LRT (Fall 2015)

The Government of Alberta funded the following projects under the first round of submissions:

- West LRT
- · 60 new Light Rail Vehicles
- Southeast Transitway Pre-design and Transit-Oriented Development Planning

In September 2015, the Government of Alberta approved funding for:

- North Crosstown BRT
- · South Crosstown BRT
- · 17 Avenue SE Transitway
- · Southwest Transitway
- · LRT Traction Power: Four-Car Train Upgrades

GreenTRIP has been an integral part of advancing our 30-year strategic plan and helping make Calgary Transit the first choice for getting around Calgary.

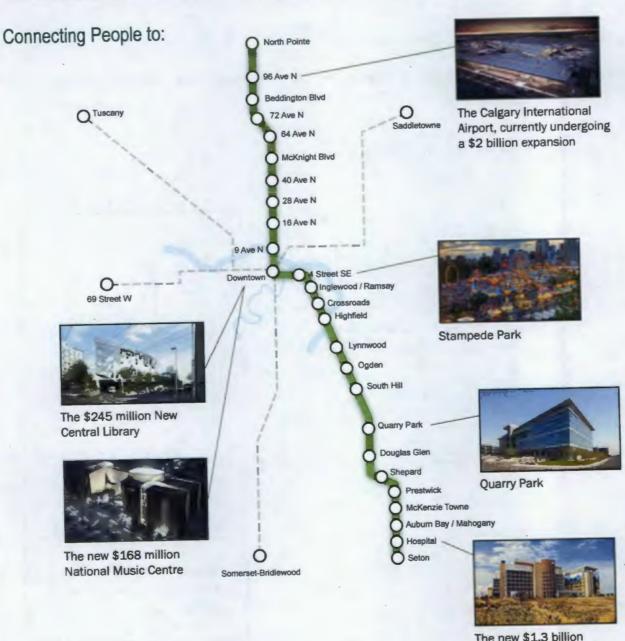
GreenTRIP Rapid Transit Corridors







The Green Line - Calgary's next LRT line



The new \$1.3 billion South Health Campus

Starting Green Line LRT construction now makes sense. With over 35,000 daily riders on buses in the Centre Street corridor north of downtown today, a new line will be well used. A new transit facility will improve transportation for all Calgarians and Albertans using the adjacent North/South Trade Corridor.

Green Line Benefits

- The Green Line will improve the affordability of living in Calgary. It will offer a new low cost mobility alternative in Southeast and North Calgary. It will also offer opportunities for development of affordable housing near stations.
- The project will mitigate traffic congestion and associated emissions, enabling goods movement on critical transportation corridors.
- The Green Line construction project alone will create 23,000 jobs.

¹2010 Alberta Economic Multipliers for transportation engineering construction, updated Dec. 2014 (Alberta Treasury Board and Finance)

- The Green Line will satisfy growing travel demand in the Calgary region. Ridership upon opening is estimated to be 90,000 -140,000 daily riders, supporting the over 118,000 new residents and jobs expected in the catchment area by 2025.
- Deerfoot Trail, the major north-south goods movement route through Calgary, and part of the North/South Trade Corridor, runs parallel to the Green Line, and will benefit f om the relief offered by high-capacity public transit, particularly in peak periods.





Green Line Facts



Over 40 km from North Pointe to Seton



2 stations, 5 km in future extensions to the community of **Keystone**



Future rail connection to the Calgary International Airport at 96 Avenue N



The line will be completely separate from the existing system, offering us the opportunity to use modern low-floor trains with g ound level platforms with improved accessibility.



A station at 7 Avenue S in downtown will offer customer connections between all three LRT lines.



Jobs in downtown Calgary:

2014: 165,000 2043: 195,000



Population in Green Line LRT feeder bus and walk catchment area:

2014: 290,000 2043: 465,000



Project Scope

The full build-out between North Pointe and Seton is estimated at \$4 billion to \$5 billion. This project cost estimate includes the following scope:

Land

- Acquisition of land, including along Centre Street
- Integration with adjacent landowners and communities to enable transit-oriented development

Contingency for the method of construction within the downtown

Infrastructure

- · Train storage and maintenance facility
- Tracks, power, communications and signaling systems
- · Stations, bus terminals and Park and Ride lots
- · Bridges and structures

Vehicles

· New low-floor light rail ehicles

An Investment in the Green Line

The Federal Government has committed up to \$1.53 billion in matching funding for the Green Line LRT and Calgary City Council has set aside \$520 million over the next 10 years to leverage future provincial funds for the Green Line.

Calgary can deliver

The City has a history of delivering big, complex projects on-time and on-budget delivery of our transportation projects. The West LRT project involved over \$1 billion worth of construction activity within established communities and along busy roadways, and it entailed significant b ownfield remediation.

The City and its partners in industry delivered the West LRT through pre-design and a design-build contract between 2008 and 2012.

Calgary is committed

City Council and civic administration have been steadfast in their efforts to work towards the Green Line vision. The City has actioned LRT through a phased approach, beginning with introduction of Bus Rapid Transit (BRT) in the corridor in 2004.

January 2014 Council committed to the Green Line project by approving a 10-year \$520 million fund. The fund assists with construction loans and leveraging support of other levels of government.

The Centre Street alignment was unanimously approved by City Council after
The City conducted open houses and workshops and compiled the input of over
1,500 Calgarians between June 2013 and October 2014.

October 2015 The Southeast Transitway station refinements and d velopment opportunities will be presented to City Council. This milestone will be the culmination of significant public engagement, sta eholder meetings, and transit-oriented development planning conducted between January and September 2015.

End of 2016 Functional planning for the downtown and Centre Street North corridor, including land requirements for station areas, will be complete, and design can begin on the entire Green Line project.

2017 With the support of new Provincial funding and the recently announced \$1.5 billion Federal funding, we hope to move forward designing and constructing LRT on the Green Line beginning in 2017.