

Guiding principles

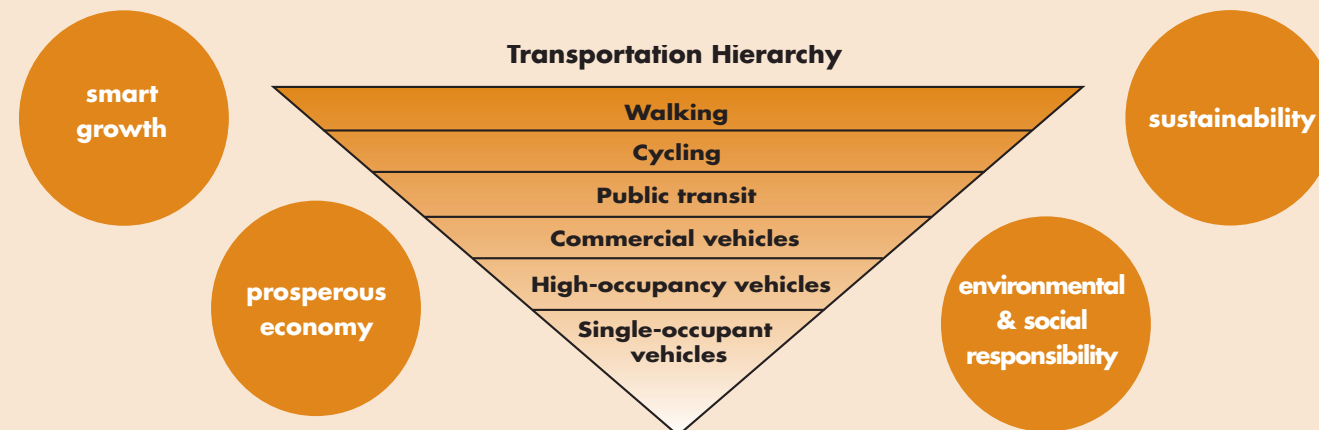
Fundamental decisions for TIIP are based on the 11 sustainability principles approved by Council (LPT2006-121) and Council goals and priorities of the 2009-2011 business planning cycle.

The Council goals and priorities which play a prominent role in prioritizing transportation projects are:

- community well-being
- prosperous economy
- safe, reliable infrastructure
- sustainable environment
- mobility choices
- long-term capital funding

The foundation of Plan It Calgary, the Municipal Development Plan and the Calgary Transportation Plan lies in the 11 sustainability principles. Six of the 11 principles are directly related to transportation. The evaluation process for TIIP projects incorporated the relevant principles into the methodology.

Sustainability principle	Incorporation into TIIP evaluation
Create walkable environments	<ul style="list-style-type: none"> • Distinct recognition of pedestrian projects and priorities. • Greater emphasis on walking in higher density areas. • Consideration of walking mode as part of overall trip.
Provide a variety of transportation options	<ul style="list-style-type: none"> • Distinct consideration of walking, cycling, transit, goods movement and auto mobility. • Funding measured by mode, better balancing of capital. • Emphasis on mode where it has the greatest benefit.
Strategically develop/manage redevelopment within existing areas	<ul style="list-style-type: none"> • Identify and weigh high-density areas and probability of redevelopment.
Support compact development	<ul style="list-style-type: none"> • Consider transportation impacts of various solutions or staging options on land use. • Consideration of strategic land use aspirations.
Connect people, goods and services	<ul style="list-style-type: none"> • Evaluation to align and maximize pedestrians, cyclists, transit, goods and automobile mobility.
Provide transportation services in a safe, effective, affordable and efficient manner that ensures reasonable accessibility	<ul style="list-style-type: none"> • Maximize principle alignment to capital expenditures. • Technical priorities (safety). • Focus transportation mode where it's most efficient.



For more information call 3-1-1 or visit calgary.ca/transportationplanning.

2008-1056



The Transportation Infrastructure Investment Plan (TIIP) defines the priority and timing of major infrastructure construction projects and lifecycle maintenance programs for the Transportation department. This plan is reviewed every two to four years to update priorities and funding.

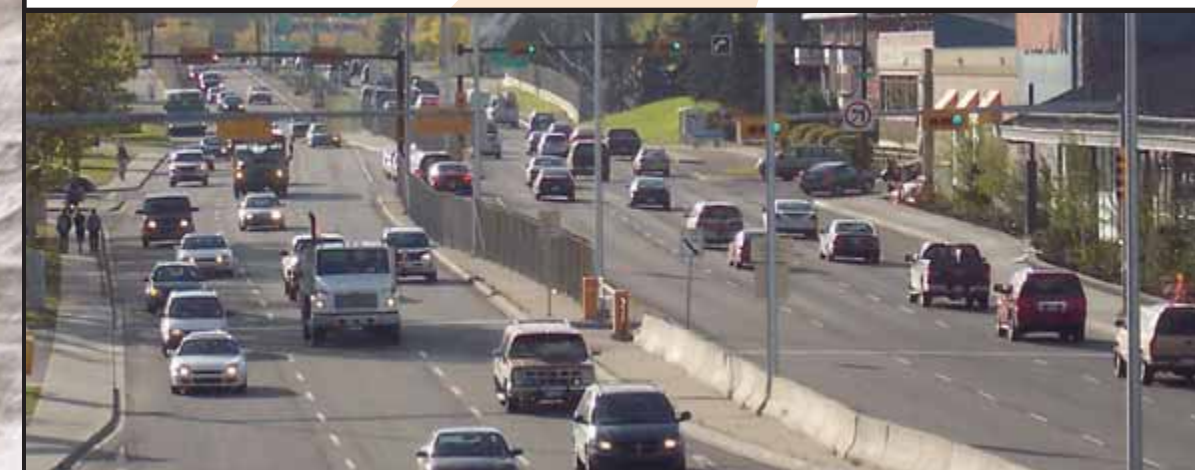
According to our annual citizen satisfaction survey, transportation issues continue to be a main concern for Calgarians. This TIIP update addresses these concerns by recommending infrastructure and programs that:

- Improve mobility for all Calgarians.
- Align to Council's approved sustainability principles.
- Reflect themes in Council goals and priorities for the 2009-2011 business planning cycle.

A robust and inclusive methodology was developed that considered input from multiple stakeholders and measured alignment to smart growth principles.

This 10-year TIIP program identifies a projected total capital expenditure of \$3.9 billion. Funding comes from a number of sources: provincial and federal grants, transportation acreage assessments, Calgary Parking Authority, Community Recreation and Centre City levies and general tax revenues.

TIIP 2009-2018 forms the basis for the Transportation department's three-year business plan and capital budget and is one of the main mechanisms to implement strategic planning objectives and promote smart growth.



Themes



Pedestrian/bicycle mobility

All trips begin and end as a pedestrian trip. Emphasis has been placed on pedestrian and cycling in high-density areas where these modes are more efficient at moving people, support land use and lessen environmental impacts.

Transit mobility

Build critical links and achieve high capacity to improve the customer experience.

Goods movement

Goods movement is a major part of the city's economy. TIIP strategically improves road infrastructure to facilitate goods movement along complete corridors such as Glenmore Trail with a focus on the southeast/northeast industrial areas.

Auto mobility

Ensure existing infrastructure is optimized before major roads are constructed.

Maintain an appropriate level of auto mobility and provide acceptable levels of service.

Lifecycle and asset management

Invest in infrastructure lifecycle needs to promote clean, well-maintained and safe transportation.



Improving pedestrian/cycle mobility (000s)

Key	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	TOTAL
1.0 Pedestrian overpasses	23,500	10,000	10,000	5,000	5,000	5,000	5,000	5,000	5,000	5,000	78,500
1.1 Pedestrian/cycle infrastructure	4,623	4,690	4,630	4,680	4,706	4,850	4,850	4,850	4,850	4,850	47,578
TOTAL	28,123	14,690	14,630	9,680	9,706	9,850	9,850	9,850	9,850	9,850	126,078

- 1A** Pedestrian Gateway over Bow River. 2009-2011
- 1B** Pedestrian Overpass Metis Tr./64 Ave. N.E. 2009
- 1C** Pedestrian Overpass* Macleod Tr./61st Ave. S 2009-2010
- 1D** Pedestrian Overpass* Macleod Tr. at Erlton 2011
- 1E** City Wide Pedestrian Overpass Program
- Pedestrian/cycle Infrastructure improvement Program
- Industrial Sidewalk Retrofit Program
- *pending successful development negotiations

Improving transit mobility (000s)

Key	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	TOTAL
2.0 LRT expansion	251,000	255,000	141,000	101,500	3,000						751,000
2.1 LRT station improvements	35,000	59,000	36,000	25,000	25,000	10,000					190,000
2.2 Fleet: LRV's - Growth		14,000	100,000		66,000		18,000				198,000
3.0 Bus rapid transit	2,664	5,336	9,000	10,000	6,000	6,500	2,500				51,000
3.1 Fleet: Buses and shuttles	16,856	39,210	29,832	42,785	52,170	49,366	39,500	40,000	40,000	40,000	389,719
4.0 Major facilities	45,000			45,000	45,000						135,000
5.0 Transit system improvements	4,650	7,650	3,650	2,150	2,150	2,150	2,250	2,250	2,250	2,250	31,400
TOTAL	335,170	380,196	319,482	180,935	199,320	113,016	62,250	42,250	48,750	44,750	1,746,119

- 2A** West LRT - downtown to 69 St. S.W. 2009-2012
- 2B** N.E. LRT Extension to Saddletown 2009-2010
- 2C** N.W. LRT Extension to Rockridge 2009-2011
- 2D** 7th Ave. LRT Platform Reconstruction 2009-2014
- 2E** 4 car trains and platforms - 201 2010-2013
- 2F** Light Rail Vehicles - Growth
- 3A** Southeast Bus Rapid Transit 2009-2012
- 3B** Mount Royal Bus Rapid Transit 2013
- 3C** Park n Ride Lots
- 4A** Heritage Operations Centre 2009
- 4B** South Bus Maintenance Facility Construction: 2013-2014
- 5A** Electronic Fare Collection System 2009-2011
- 5B** Real Time Customer Information Systems 2009-2011

Goods movement and strategic road infrastructure (000s)

Key	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	TOTAL
6.0 Major roadway projects	204,336	156,459	117,775	66,375	73,500	67,500	91,000	67,000	18,000	18,066	880,011
7.0 Strategic projects	34,475	22,059	29,851	12,729	16,301	11,000	16,000	11,000	16,000	16,000	185,415
8.0 System improvements	3,500	3,500	3,500	3,500	3,500	3,500	3,500	3,500	3,500	3,500	35,000
8.1 Streets - concrete construction	12,574	14,614	11,668	11,668	13,671	14,021	14,221	14,221	14,221	14,221	135,100
8.2 Streetlighting	1,068	1,078	1,068	1,068	1,068	1,068	1,068	1,068	1,068	1,068	10,690
8.3 Signals	4,653	5,259	4,717	4,717	4,957	6,250	6,250	6,250	6,250	6,250	55,554
TOTAL	260,606	202,969	168,579	100,057	112,997	103,339	132,039	103,039	59,039	59,105	1,301,770

- 6A** Metis Tr./64 Ave. N.E. - Interchange 2009-2010
- 6B** Metis Tr.: 80 Ave. to Airport Tr. N.E. 2009-2011
- 6C** Metis Tr.: Airport Tr. to Stoney Tr. N.E. 2009-2011
- 6D** 96 Ave. N.: Deerfoot Tr. to Harvest Hills Lk. 2009-2011
- 6E** Country Hills Blvd. N.E. Widening Barlow Tr. to Conventry Hills Blvd. 2009-2011
- 6F** Beddington Tr./Country Hills Blvd. N.W. Complete Interchange 2009-2010
- 6G** 16 Ave./Bowfort Rd. N.W. - Interchange 2012-2013
- 6H** 16 Ave. N. Widening - 10 St. W. to 6 St. E. 2009
- 6I** Shaganappi Tr.: Widening Country Hills to Edgemont 2009
- 6J** Beddington Tr. Widening: CHB to Stoney Tr. 2009
- 6K** Macleod Tr./Lake Fraser Dr. S Intersection Optimization 2010
- 6L** 14 St. S.W. Widening 90th Ave. to Anderson Rd. 2009-2010
- 6M** 17 Ave./Sarcee Tr. S.W. Interchange 2009-2011
- 6N** 52nd St. S.E. Widening Glenmore to 130th Ave. 2009-2011
- 6O** Glenmore Tr. East Corridor Ogden Rd. to 52nd St. S.E. 2013-2016
- 6P** Barlow Tr./50th Ave. SE CN Flyover 2011-2012
- 6Q** 4th St. S.E. underpass East Village 2010-2011
- 6R** Future Land - Downtown Parking Operational Improvement Program various widenings and optimization projects

Lifecycle/asset management (000s)

Key	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	TOTAL
9.0 Transit - Lifecycle	30,100	30,800	17,200	16,000	46,200	14,300	34,150	14,950	15,600	14,834	234,134
10.0 Roads - Lifecycle	25,100	27,973	25,388	26,903	26,918	35,933	31,948	21,963	21,978	21,988	266,092
TOTAL	56,700	60,273	41,588	41,903	72,118	50,233	66,098	36,913	37,578	36,822	500,226

- 10A** Inglewood Bridge Reconstruction 2014-2015
- Major Roadway Reconstruction Program
- Bridge Rehabilitation Program
- Roadway Surface Overlay Program
- LRV Storage Facility
- Streetlight Critical Replacement

