

Edmonton

Options to Enhance Service Standards

Roadways 2021-22 Winter Season Performance Results

Type of Roadway Inventory	Priority Level and Service Standard	Average % Inventory Cleared to Standard
Freeways, arterials, business districts, bus routes, alleys back lanes in BIA's	(P1) 36 hours from end of snowfall	76.1%
Collector roads, bus routes, transit park and ride access.	(P2) 48 hours from end of snowfall	36.5%
Industrial and rural roads	(P3) 5 days from end of snowfall	89.1%
Residential roads, alleys	(P4) 7-9 days once a blading cycle is initiated	59.8%

Active Pathways 2021-22 Winter Season Performance Results

Type of Active Pathway Inventory	Priority Level and Standard	Average % Inventory Cleared to Standard
City Facilities (City Hall, Recreation Centres), Seniors Centres	(P1) 24 hrs	98.7%
Prioritized Bike Route Network	(P1) 24 hrs	91.4%
City Sidewalks, Wheelchair Ramps, Parking Lots	(P2) 48 hrs	67.3%
Bus Stops Adjacent to City Property	(P2) 48 hrs	67.3%
Separated Bike Lanes	(P2) 48 hrs	86.5%
Hard Surface Trails (River Valley)	(P2) 48 hrs	82.5%
Manually Cleared Areas (Bus Stops, Paths, Public Amenities)	(P3) 120 hrs	41.9%
Sandboxes	(P3) 120 hrs	57.8%

Snow and Ice Control Program Analysis



Roadway Lane Kilometers

2017: 9,984 km 2022: 12,051 km



Budget

2017: \$64M 2022: \$57M



Bike Lane Kilometers

2018: 38 km

2022: 49 km



Employees

2017: 629 2022: 544



Community Sandboxes

2017: 150

2022: 769



Snow and Ice Control Audit Update

Recommendation	Due Date	Status
Improve Public Communication	Oct 2021	Complete
Review and Update Policy and Guiding Documents	Dec 2021	Complete
Performance Management Framework	Dec 2021	Complete
Improve Benchmarking Process	Dec 2021	Complete
Expand SOPs to Include All Key SNIC Activities	Dec 2021	Complete
Strengthen Complaint Handling Processes	Dec 2021	Complete
Improve Decision-Making Processes	Feb 2022	Complete
In-house versus Contracted Services Cost Analysis	Feb 2022	Complete
Service Level Commitments and Operational Arrangements	Jun 2022	In progress
Improve Staff Oversight	Sep 2022	In progress
Improve Change Management Processes	Sep 2022	In progress
Cost-Reduction and Revenue Generation Opportunities	Dec 2022	In progress

Jurisdictional Scan - Highlights

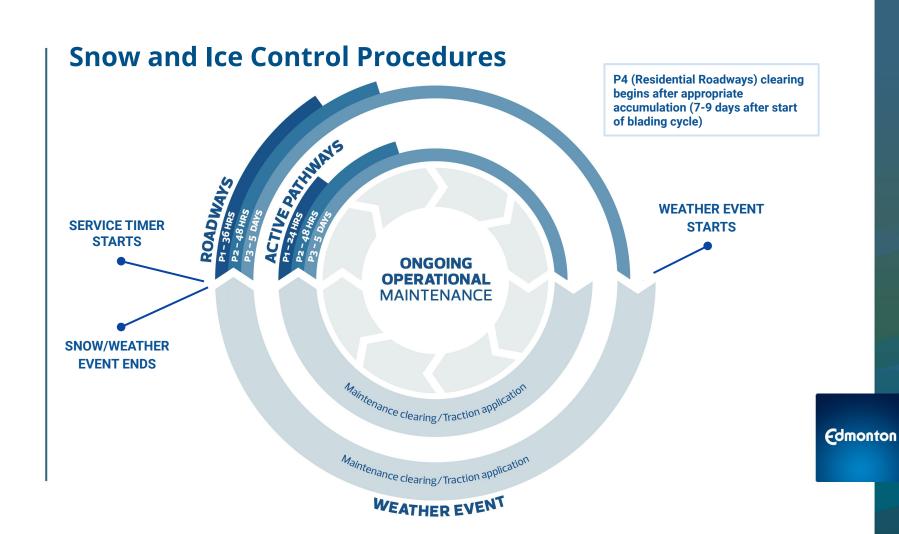


- SNIC programs are unique to each city
- Service standards and tactics vary among cities
- Edmonton is comparable to Ottawa in terms of snow and budget
- Edmonton has a mid-range budget compared to other cities

Community Insights: Engagement and GBA+

Feedback from the public, frontline staff, Councillors and stakeholder groups align with the performance results and analysis.





Options to Enhance Current Service Delivery

ROADS	P1 Arterial	roads	P2 Collector	roads	P3 Ind	lustrial roads	P4 Re	sidential roads		
Expecta	tions	Curre	nt State			Option R1			Option R2	<u>></u>
Priority	Hours	Hours	Days		Hours	Days	Increase	Hours	Days	Increase
P1	36	127	5.3		69	2.9	45.7%	36	1.5	71.1%
P2	48	112	4.6		72	3.0	35.7%	48	2.0	57.1%
Р3	120	135	5.6		74	3.1	45.2%	38	1.6	71.6%
P4	215	250	10.4		136	5.7	45.6%	71	3.0	71.6%
		Base Bud	get \$38.6M			ated Cost \$ nt state +\$			ated Cost \$ ent state +\$	

ACTIVE PATHWAYS

- **P1** Inventory adjacent to City facilities, prioritized bike route network
- P2 City sidewalks, ramps, shared pathways, parking lots, staircases, access to bus stops adjacent to City property, pedestrian bridges
- P3 Manually cleared active pathways, breezeways, benches, pedestrian only streets, community sandboxes

*Crews work 20 hours per day, so the number of days to complete a service is divided by 20 hours instead of 24 hours.

Expectations			
Priority	Hours		
P1	24		
P2	48		
P3	120		

Current State			
Hours	Days*		
22	1.1		
158	7.9		
405	20.3		
Base Budget \$18.5M			

	Option AP1	I		
Hours	Days*	Increase		
6	0.3	72.2%		
40	2.0	74.7%		
216	10.8	46.7%		
Estimated Cost \$33.6M (current state +\$15.1M)				

Option AP2				
Hours	Days*	Increase		
6	0.3	72.2%		
40	2.0	74.7%		
100	5.0	75.3%		
Estimated Cost \$52.9M				

(current state +\$34.4M)

Options for New Service Enhancements

ROADS	Operating cost estimates are baseverage snow event.	sed on an
BUY 6 DOUE SNOW PLOV *initial capital ex		\$1.0M
BLADE RESI BARE PAVEI after every sn	··-·	\$143.3M
BLOCKING I	DENTIAL WINDROWS DRIVEWAYS & CURB In with residential blading	\$3.0M
WINDROW RESIDENTIA up to 4 times	AL STREETS	\$47.6M per pick up
	CUL-DE-SAC BLADING residential street blading	\$262.0M

ENFORCEMENT	
INCREASE PARKING BAN AND SIDEWALK ENFORCEMENT 6 officers	\$800K
INTRODUCE A COURTESY TOW DURING PARKING BANS	\$250K

ACTIVE PATHWAYS Operating cost estimates based on an average freezing rain event	ξ.
CLEAR ALL RESIDENTIAL SIDEWALKS within 48 hours of end of snow/ice event	\$212.5M
CLEAR PUBLIC SQUARES & INTERNAL PAVED PATHWAYS IN PARKS & PLAYGROUNDS within 48 hrs of snow/ice event	\$4.3M
CLEAR AREAS AROUND INTERSECTIONS & ALLEY CROSSINGS up to 3 times per season	\$56.6M
CLEAR CURRENTLY UNSERVICED BUS STOPS IN FRONT OF PRIVATE PROPERTY within 5 days of snow/ice event within 5 days of end of snow/ice event	\$7.8M
CLEAR SIDEWALKS ADJACENT TO BUS ROUTES IN FRONT OF PRIVATE PROPERTY within 48 hours of snow/ice event	\$45.3M
INCREASE CURRENTLY MAINTAINED BUS STOP SERVICE from 5 days to 24 hours	\$62.2M
CLEAR SIDEWALKS FOR ALL SENIORS FACILITIES within 24 hrs of snow event	\$2.1K per facility
INCREASE SERVICE FOR ALL BIKE PAINTED & SHARED USE PATH BIKE LANES within 24 hrs of snow event	\$2.0M
INCREASE CURRENT SIDEWALK INVENTORY SERVICE from 48 hours to 24 hours	\$30.6M
INCREASE PARKING LOT SANDING/PLOWING from 48 hours to 24 hours	\$1.6M

Next Steps

- 1. Clearly defined service standards and outcomes for 2022-23 season (June 2022)
- 2. Funding requests for 2023-2026 budget deliberations (November 2022)
- 3. Report outlining results of 2022-23 winter season (May 2023)

