

## Document 1: Overview – Photo Radar in Canadian Municipalities

Table 1 - Comparison of Photo Radar in Canadian Municipalities

Municipality	Program Focus	Statistics	Revenue Management	Deployment Strategy	Sources
Calgary	<p>Targeted enforcement for speeding violations in areas where:</p> <ul style="list-style-type: none"> <li>It is unsafe for police officers to conduct manual enforcement; or,</li> <li>The safety of pedestrians, construction zone workers, or other drivers might be compromised by a manned traffic stop.</li> </ul>	<p>Based on 2013 data compared to the year before cameras were installed (2000):</p> <ul style="list-style-type: none"> <li>Total collisions at Intersection Safety Cameras (ISC) locations decreased by 7%;</li> <li>Fatal collisions at ISC locations have decreased by 100%</li> <li>Injury collisions at ISC locations have decreased by 4%</li> </ul> <p><u>Fatal Collisions</u></p> <ul style="list-style-type: none"> <li>2015: 22 (-41% since 2013)</li> <li>2014: 28</li> <li>2013: 37</li> </ul> <p><u>Impairment Involved</u></p> <ul style="list-style-type: none"> <li>2015: 7 (-61% since 2013)</li> <li>2014: 7</li> <li>2013: 18</li> </ul> <p><u>Pedestrian Fatalities</u></p> <ul style="list-style-type: none"> <li>2015: 9 (-22% since 2013)</li> <li>2014: 7</li> <li>2013: 7</li> </ul> <p><u>Total Road Fatalities</u></p> <ul style="list-style-type: none"> <li>2015: 23 (-43% since 2013)</li> <li>2014: 28</li> <li>2013: 40</li> </ul>	<ul style="list-style-type: none"> <li>15% of the total fines are allocated to Victims Services</li> <li>16.67 % allocated to the Provincial government</li> <li>Remaining balance stays with the municipality</li> <li>If there is a late payment penalty attached to the fine, the province receives the surcharge amount associated with the particular ticket.</li> <li>Charges issued per year: <ul style="list-style-type: none"> <li>2015: 97,054</li> <li>2014: 116,390</li> <li>2013: 105,500</li> </ul> </li> </ul>	<p>Intersection Safety Cameras (ISCs) are cameras that detect the travel speed of vehicular traffic. The ISC is also able to detect whether a vehicle fails to stop for the red light phase in a signalized intersection. ISCs are deployed at signalized intersections throughout the city with high collision rates and a history of serious injury or fatal collisions.</p> <p>As of 2015, Calgary also uses a total of 10 photo radar vehicles as part of its Mobile Enforcement Program.</p>	<ul style="list-style-type: none"> <li><a href="#">Calgary Policy Services – Photo Radar</a></li> <li><a href="#">University of Alberta A City-Wide Safety Analysis of Mobile Speed Enforcement</a></li> <li><a href="#">Province of Alberta Automated Traffic Enforcement Guidelines</a></li> </ul>

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Edmonton	<p>The program focuses on targeted enforcement for speeding violations using a combination of intersection safety cameras, photo laser and photo radar. The program itself is governed by the City of Edmonton through their Office of Traffic Safety.</p>	<p>In 2014, the University of Alberta conducted a study of the impact of automated enforcement on motor vehicle collisions on Edmonton roadways which demonstrated the following results:</p> <ul style="list-style-type: none"> <li>• Severe collisions (fatal and injury): reduction of 32.1%</li> <li>• Property damage only collisions: reduction of 28.7%</li> <li>• Total collisions: reduction of 27.7%</li> <li>• Speed related property damage only collisions: reduction of 27.3%</li> <li>• Speed related collisions: reduction of 26.7%</li> <li>• Charges per year: <ul style="list-style-type: none"> <li>○ 2014: 486,320</li> <li>○ 2013: 422,720</li> <li>○ 2012: 162,996</li> </ul> </li> </ul>	<ul style="list-style-type: none"> <li>• 15% of the total fine is given to Victims Services</li> <li>• 16.67% goes to the Alberta Government</li> <li>• The remaining fine balance goes to the Reserve Fund and is used to fund safety and community projects at Council's direction</li> <li>• Program operating costs are also recovered through revenues, including a base allocation to Edmonton Police Service which totalled \$18M in 2015</li> </ul>	<p>Intersection Safety Cameras (ISCs) monitor intersections and photograph vehicles that speed or run through red lights. As well, the City of Edmonton does have photo radar and photo laser units.</p>	<ul style="list-style-type: none"> <li>• <a href="#">City of Edmonton – Photo Radar</a></li> <li>• <a href="#">City of Edmonton – Automated Enforcement</a></li> <li>• <a href="#">City of Edmonton – Traffic Safety and Automated Enforcement Reserve – Policy C579</a></li> <li>• <a href="#">University of Alberta A City-Wide Safety Analysis of Mobile Speed Enforcement</a></li> <li>• <a href="#">Province of Alberta Automated Traffic Enforcement Guidelines</a></li> </ul>

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Winnipeg	<p>The automated enforcement program is coordinated by the Winnipeg Police Service. Targeted enforcement for speeding violations in areas where there are vulnerable road users, specifically:</p> <ul style="list-style-type: none"> <li>• School Zones</li> <li>• Playground Zones</li> <li>• Construction Zones</li> </ul>	<p>Charges per year:</p> <p><u>Red Light</u></p> <ul style="list-style-type: none"> <li>• 2014: 11,207</li> <li>• 2013: 10,135</li> </ul> <p><u>Speed (Fixed)</u></p> <ul style="list-style-type: none"> <li>• 2014: 24,297</li> <li>• 2013: 26,706</li> </ul> <p><u>Speed (Mobile)</u></p> <ul style="list-style-type: none"> <li>• 2014: 93,116</li> <li>• 2013: 75,897</li> </ul> <p><u>Total</u></p> <ul style="list-style-type: none"> <li>• 2014: 128,820</li> <li>• 2013: 111,108</li> </ul> <p>The Traffic Injury Research Foundation conducted a study of the Photo Enforcement Safety Program in Winnipeg and noted the following results:</p> <ul style="list-style-type: none"> <li>• 24% decrease in injury collisions at camera intersections</li> <li>• 13% decrease in property damage-only collisions at camera intersections</li> <li>• 2% increase in property damage-only collisions at intersections without cameras</li> </ul>	<p>In 2014, the Winnipeg Police Service reported the following revenues:</p> <ul style="list-style-type: none"> <li>• Total revenue: \$14,601,904</li> <li>• Total expenses: \$4,698,185</li> <li>• Total funding re-invested in road safety programs: \$9,903,719.06</li> </ul> <p>The breakdown on expenses:</p> <ul style="list-style-type: none"> <li>• Xerox and other operators (91.38%)</li> <li>• Winnipeg Police Service (8.54%)</li> <li>• Miscellaneous expenses: (.08%)</li> </ul>	<p>There are 50 Intersection Safety Camera (ISC) locations within the City of Winnipeg with 33 cameras being rotated throughout the various sites. The rotation is based on statistical data which identifies locations shown to have consistently recorded a high rate of unsafe driving behavior. Further details on how these are utilized are below:</p> <ul style="list-style-type: none"> <li>• Mobile Photo Radar Units (Restricted by Provincial Legislation) <ul style="list-style-type: none"> <li>○ School zones</li> <li>○ Playground zones</li> <li>○ Construction zones</li> <li>○ Deployment between 0700 hours and 2100 hours, seven days a week; time deployed at each location varies daily</li> </ul> </li> <li>• Intersection Safety Cameras (Criteria established by Winnipeg Police Service) <ul style="list-style-type: none"> <li>○ Collision data</li> <li>○ Speed data</li> <li>○ Public input</li> <li>○ Technical ability to install at particular location</li> <li>○ Distribution throughout Winnipeg</li> <li>○ Deployment 24 hours a day, seven days a week</li> </ul> </li> </ul>	<ul style="list-style-type: none"> <li>• <a href="#">Winnipeg Police Service – Photo Enforcement Locations</a></li> <li>• <a href="#">Winnipeg Police Service – Photo Enforcement Statistics</a></li> <li>• <a href="#">Winnipeg Police Service – Photo Enforcement Intersection Safety Camera Technology</a></li> <li>• <a href="#">Winnipeg Police Service – Photo Enforcement Photo Radar Technology</a></li> <li>• <a href="#">Traffic Injury Research Foundation - Evaluation of the Photo Enforcement Safety Program of the City of Winnipeg</a></li> </ul>

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Gatineau	<p>Under the current initiative launched in early 2016, the City of Gatineau has identified 21 different locations throughout their jurisdictions that had a history of collision involving speeding motorists. The initiative is governed and funded by the Province of Quebec's Ministry of Transportation and it includes the hiring of four police officers to manage the pilot project. All fine revenue generated through the initiative is kept by the provincial government and re-directed into road safety initiatives.</p> <p>The Gatineau experiment has focused on a mobile photo radar equipped van which moves through the various 21 locations.</p> <p>Although the project has only recently launched, the Gatineau Police have already started to see a significant increase in compliance with the posted speed limits and a reduction in the total number of collisions at these locations.</p> <p>The Province of Quebec has been utilizing photo radar and red light camera enforcement since May, 2009. The photo radar locations are broadcast on a website and the permanent locations have been spread across the province. As of the fall of 2015, close to 50 sites across the province will have photo radar installed.</p>	<ul style="list-style-type: none"> <li>• Permanent installation locations: 58% reduction in collisions</li> <li>• Mobile photo radar locations: 25% reduction in collisions</li> </ul>	Unavailable	Unavailable	<ul style="list-style-type: none"> <li>• <a href="#">Province of Quebec – Photo Radar and Red Light Cameras</a></li> <li>• <a href="#">Ville de Gatineau – Radar Photo</a></li> <li>• <a href="#">Communiqué de ministère des Transports du Québec</a></li> </ul>