

# OTC Autonomous Vehicles and Connected Cities Symposium

*11 February 2022*

Register online at:  
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## SYMPOSIUM SPONSOR



<b>SYMPOSIUM MC</b>		<p>Muna Awatta <i>Senior Transportation Planning Engineer Parsons Ottawa</i></p>
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### VIRTUAL SYMPOSIUM PROGRAM

8:40–8:45 AM	Welcome/Opening Remarks					
8:45–9:30 AM	<p><b>Don't Stop... Thinking About Connected Vehicles</b></p> <table border="1" data-bbox="412 1354 1523 1598"><tr><td data-bbox="412 1354 597 1598"></td><td data-bbox="597 1354 971 1598"><p>Chris Philp <i>Director of Transportation CIMA+</i></p></td><td data-bbox="971 1354 1166 1598"></td><td data-bbox="1166 1354 1523 1598"><p>Steve Vrakela <i>Supervisor of Traffic Signals &amp; Street Lighting City of Burlington</i></p></td></tr></table> <p><i>Today, agencies that introduce connected vehicle (CV) systems at traffic signals are still considered early adopters. Yet CV offers significant advantages over traditional systems for transit signal priority and for emergency vehicle pre-emption. Recently, the City of Burlington conducted a review and evaluation of available system options to service transit, fire and winter maintenance vehicles at all their signalized intersections. This presentation will summarize the advantages of CV systems for TSP and EVP over traditional systems and explain why Burlington chose CV as the best way to position themselves for the future.</i></p>			<p>Chris Philp <i>Director of Transportation CIMA+</i></p>		<p>Steve Vrakela <i>Supervisor of Traffic Signals &amp; Street Lighting City of Burlington</i></p>
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<p>9:30–10:15 AM</p>	<p><b>Municipal Lessons from Ottawa’s Low-Speed Automated Shuttle Pilot</b></p> <div data-bbox="412 396 586 627"> </div> <div data-bbox="610 422 1333 527"> <p>Omar Choudhry <i>Project Lead, Transportation System Management City of Ottawa</i></p> </div> <p><i>Success from the first on-road low-speed automated shuttle project in Ontario has the City of Ottawa and Invest Ottawa’s Area X.O scoping future trials and how those trials can add to the industry knowledge of what role these vehicles can play in Canadian urban mobility. This presentation will highlight the AV shuttle work in Ottawa, how route options are evaluated and where things go from here.</i></p>
<p>10:15–10:30 AM</p>	<p>Break (15 mins)</p>
<p>10:30–11:15 AM</p>	<p><b>Modernizing Road Maintenance using Artificial Intelligence</b></p> <div data-bbox="412 1052 599 1293"> </div> <div data-bbox="621 1075 927 1180"> <p>Alice Lam <i>Director, Operations City of Markham</i></p> </div> <div data-bbox="974 1052 1161 1293"> </div> <div data-bbox="1182 1075 1443 1213"> <p>Roy Tal <i>Chief Technology Officer Visual Defence</i></p> </div> <p><i>The City of Markham, in collaboration with technology provider Visual Defence, will present the award-winning AI based pothole detection and management pilot program. In 2020, the City of Markham initiated a more proactive approach to identifying road deficiencies and digitally transforming its road maintenance program. The city deployed AI into their vehicles, which found road deficiencies automatically and uploads the data to the cloud. The data allowed the city to better comply with provincial regulations, maintain appropriate records and improve service levels. The presentation will include overview of the technology, implementation at the City of Markham and the results.</i></p>



<p>11:15 AM –12:00 PM</p>	<p><b>Ontario’s Vehicle Innovation Network: Cementing Ontario’s Leadership in the Automotive and Mobility Sector</b></p>  <p>Kat Tyrell <i>Manager, Automotive and Mobility Strategy, Ontario Vehicle Innovation Network (OVIN) Ontario Centre of Innovation (OCI)</i></p> <p><i>In December 2021 the <a href="#">Ontario Vehicle Innovation Network (OVIN)</a> was launched as Ontario’s flagship initiative on the future of automotive and mobility to drive innovation and investment across Ontario’s electric, connected and autonomous vehicle sector. Building on the success of the Autonomous Vehicle Innovation Network (AVIN), OVIN is continuing to drive the commercialization of automotive &amp; smart mobility solutions and catalyze innovation activities around their development. This presentation will focus on how OVIN is continuing to support innovation and economic growth across Ontario’s automotive and mobility sector, with a focus on what’s next, including its new programs, strategies and initiatives.</i></p>
<p>12:00-12:30 PM</p>	<p>Lunch (30 mins)</p>
<p>12:30–1:15 PM</p>	<p><b>If We Knew Then What We Know Now...Lessons from Toronto's Automated Shuttle Trial</b></p>  <p>Jennifer Niece <i>Senior Project Manager, Transportation Services, Strategic Policy &amp; Innovation City of Toronto</i></p> <p><i>New technology inherently involves uncertainty. Vehicle automation is evolving so quickly that key elements can change between issuing an RFP and delivering a project. A trial of a low-speed automated shuttle was initiated by the City of Toronto with its partners the Toronto Transit Commission and Metrolinx to gain experience with integrating automated vehicles into transit systems. This presentation will provide insight into the challenges and uncertainties encountered along the way, and factors to be considered in early stages to achieve successful implementation. This presentation will be useful for anyone undertaking planning, engineering or procurement related to autonomous vehicles.</i></p>



<p>1:15–2:00 PM</p>	<p><b>Ontario’s Connected and Automated Vehicle Pilot Programs</b></p> <p><i>This session will provide an overview of Ontario’s connected and automated vehicle (CV/AV) pilot programs.</i></p> <div data-bbox="412 527 602 779">  <p><b>Janet Lee</b> Senior Policy Advisor- Road Safety Program Development <i>Ministry of Transportation Ontario</i></p> </div> <div data-bbox="976 527 1166 779">  <p><b>Marjorie Tepina</b> Senior Policy Advisor- Vehicle Program Development <i>Ministry of Transportation Ontario</i></p> </div> <div data-bbox="412 827 602 1079">  <p><b>Sara Volo</b> Team Leader-Research &amp; Evaluation Office <i>Ministry of Transportation Ontario</i></p> </div> <div data-bbox="976 827 1166 1079">  <p><b>Joe Lynch</b> Senior Vehicle Standards Engineer <i>Ministry of Transportation Ontario</i></p> </div>
<p>2:00-2:15 PM</p>	<p>Break (15 mins)</p>
<p>2:15–3:00 PM</p>	<div data-bbox="412 1224 586 1451">  <p><b>Phillip Reece</b> <i>CEO and Founder InDro Robotics</i></p> </div> <p><b>Drones and Robots Working Together Behind the Scenes of the Smart City</b></p> <p><i>As our cities get smarter and more connected, they need not only eyes and ears but also way to interact with the environment, robots that can drive to a location to pick things up or drop them off, drones that can collect information on incidents as they happen or fly into the night and check on the city or count the boats in the harbour, and as smart as our cities and devices are getting the question now is how much human input do they need to carry out their tasks.</i></p>
<p>3:00 PM</p>	<p>Symposium Wrap-up</p>

