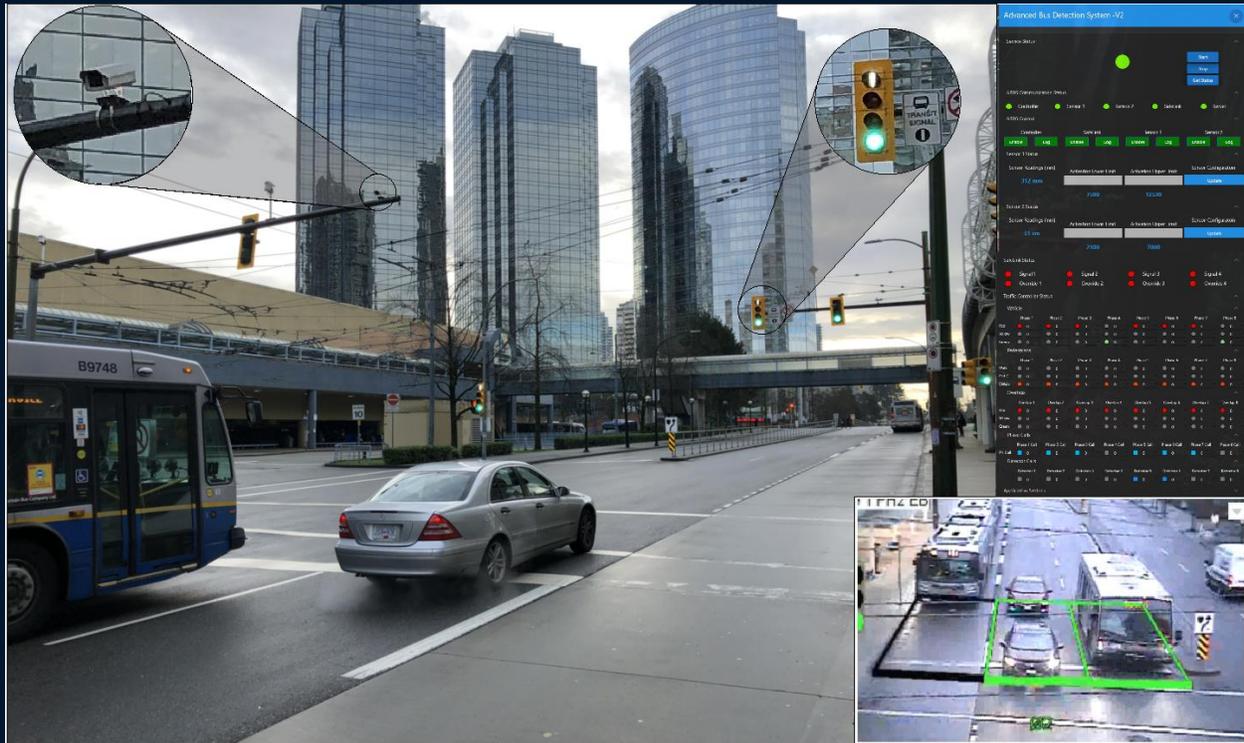


Burnaby Advanced Transit Bus Detection and Signal System



At Metrotown, the City has recently installed a cutting-edge LiDAR-based technology to reduce bus delays at the Bus Loop entrance. Buses on 12 different routes arrive at this region's second-busiest station adjacent to Metrotown Mall. Due to the lack of a separate turn lane, conventional camera detection of buses for left turn phasing was not feasible. TransLink partnered with the City to address this hot spot and enhance bus speed and reliability. The City worked with Botech to develop an innovative system that accurately detects buses in a general traffic lane under all weather and light conditions and displays an LED white "I" Bus-only signal phase utilizing the existing signal controller. Opposing general traffic on the street are held by red light during the protected bus left turn movements. This cost-effective technology has also improved pedestrian safety at the intersection.

Key participants: Moudud Hasan, P.Eng, Atif Khan, P.Eng., Stephen Newhouse

View signal operation on YouTube:

https://www.youtube.com/watch?v=dWi0u96p_t4

<https://www.youtube.com/watch?v=UdmyEV-YvIk>

https://www.youtube.com/watch?v=GcyQM_gdgKM