

York Region Readiness for Transportation Technology Advancements

Transportation Technology Solutions Recently Adopted by the Region to Improve Current Operations



Bluetooth and Wi-Fi

Roads and Traffic Operations staff has installed 380 Bluetooth sensors across the Region. These devices along with planned Wi-Fi sensors allow the Region to collect real-time traffic data to monitor traffic conditions and enhance operations, such as signal timing adjustments and publishing travel time information. YorkNet provides high-speed fibre network connecting Bluetooth sensors and traffic control systems.



Bus Monitoring System

YRT has developed a bus monitoring system that leverages real-time data to address bus idling and uses an on-board feedback system to encourage economic and safe driving practices for operators, resulting in financial and maintenance savings.



Pedestrian Warning and Collision Avoidance System

YRT has initiated a pilot program to evaluate a Pedestrian Warning and Collision Avoidance System that uses different levels of technology to alert the bus operator and pedestrians with internal dash-mounted warning lights and smart pedestrian image sensing and processing technology.



GPS Radio Pre-emption for Emergency Vehicles

Staff is working with Vaughan Fire and Rescue Service to implement GPS radio pre-emption adjacent to fire stations to improve response times for emergency services (in partnership with Vaughan Fire and Rescue Services).