Enhancing Surface Transit

Bunching and Gapping Pilot Project Update

November 2025

Traffic and Service Congestion

Pilot Overview

Goal: Pilot bunching and gapping reduction measures across 11 select routes

March 2025 | **June 2025** | **September 2025**

1 Pilot Launch

- 11 routes selected

2 Targeted Reset

- Five key focus routes
- Dedicated resources

3 Expanded Focus Routes

- Two newly added focus routes

Actions taken to date

Reduced routes per supervisor

Operator education

Deployment of in-field resources

Joint transit priority measure with City

Hot Spots & Mitigation Strategies

In-depth analyses have identified key delay hot spots

7 Bathurst

Dupont-Davenport, St. Clair-Eglinton, Lawrence-Wilson

Delays: parked cars, left turns, school traffic, closely spaced stops

Mitigation: Run as Directed (RAD) vehicles, supervisor deployment, line management

165 Weston Rd

Wilson Ave (Dufferin St-York Mills Stn)

Delays: construction, heavy traffic, parked vehicles

Mitigation: prepositioning extra buses, line management, supervisory support

24/924 Victoria Park

Consumers Rd-401 area

Delays: traffic lights, heavy traffic

Mitigation: vehicle spacing, RAD support, line management

506 & 512 Streetcars

Bathurst to Ossington, St Clair West Stn, Old Weston Rd to Gunns Loop

Delays: heavy traffic, high passenger volume, curbside congestion

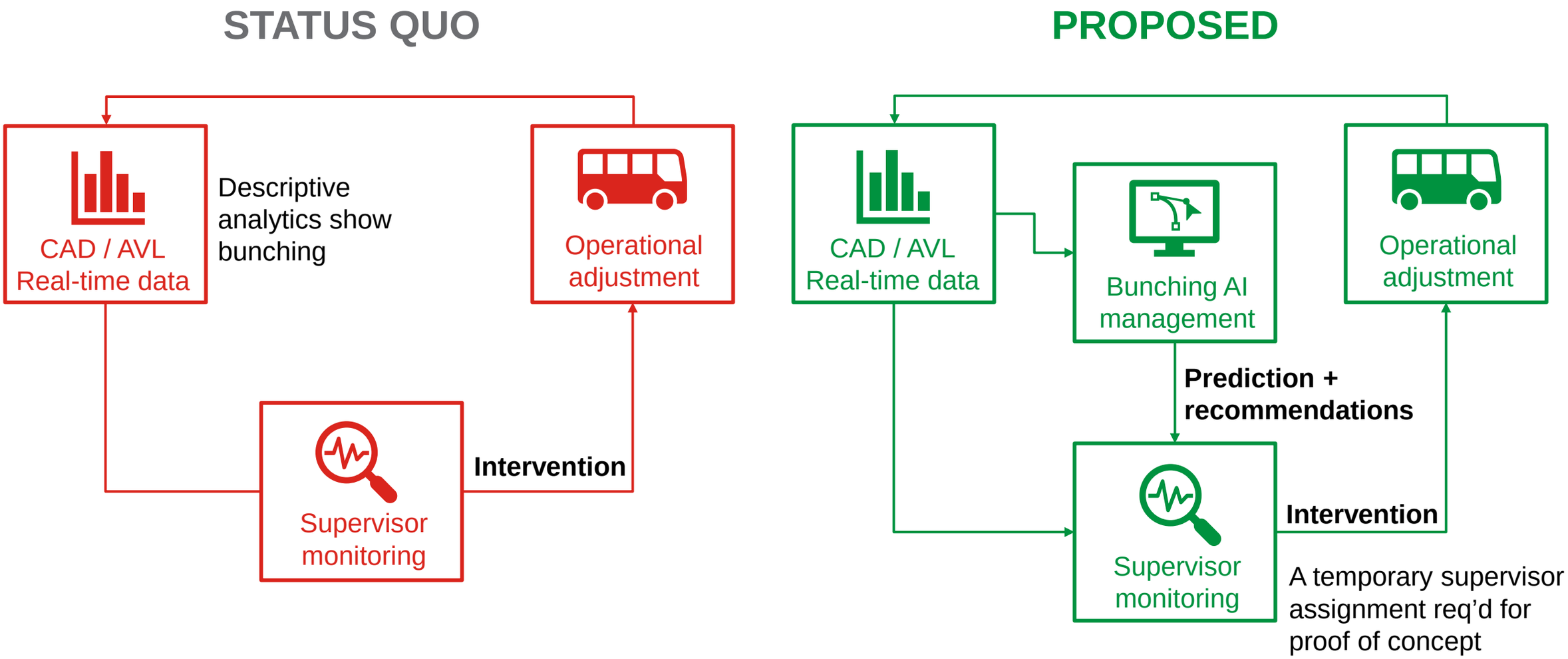
Mitigation: supervisory deployment, service adjustments (incl. City management traffic support)

Leveraging AI for real-time decision support with transit headway management

Partnerships are key to the success of this pilot and beyond.

November 3, 2025

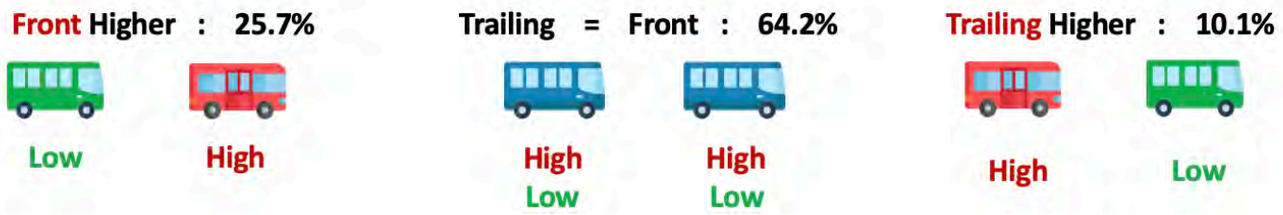
Status Quo Bunching Correction Process



Added Value

1. **Integration** with existing data infrastructure
2. **Uses AI** to make holding recommendations to supervisors
3. **Prediction** of bunching next, with self-learning capability
   - **Optimization:**

   *Crowd-sensitivity in holding recommendations



   *Headway sensitivity in holding recommendations

4. **Solution engineering** (what-if analysis)

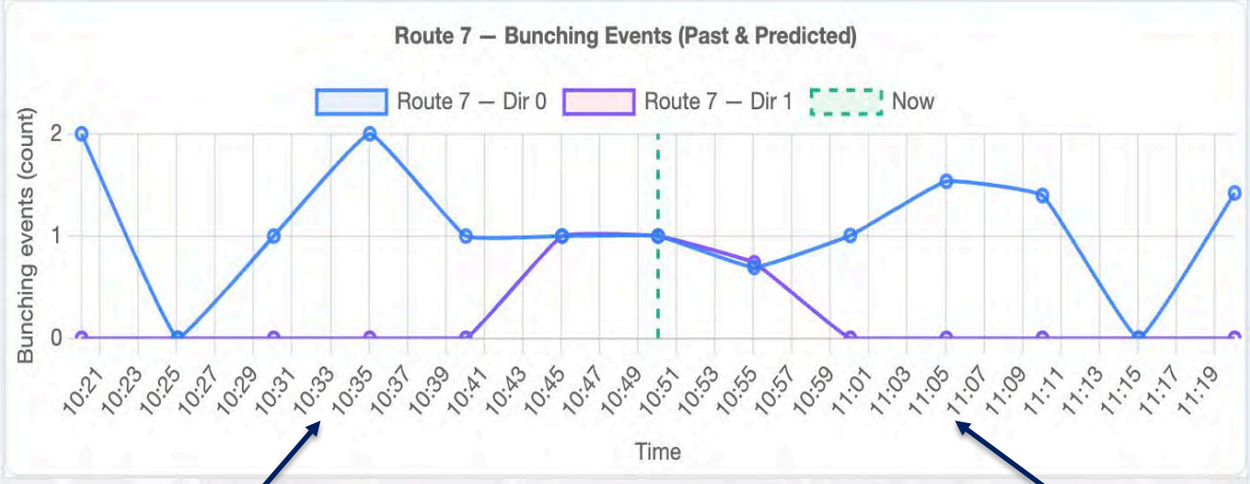
TTC Hold Optimization — Dual Route

LAST UPDATE: 10:50:01 NEXT UPDATE: 01:03 ok

7 512 24 Apply

N Refresh

Route 7 (2 bunching events) 2 opps



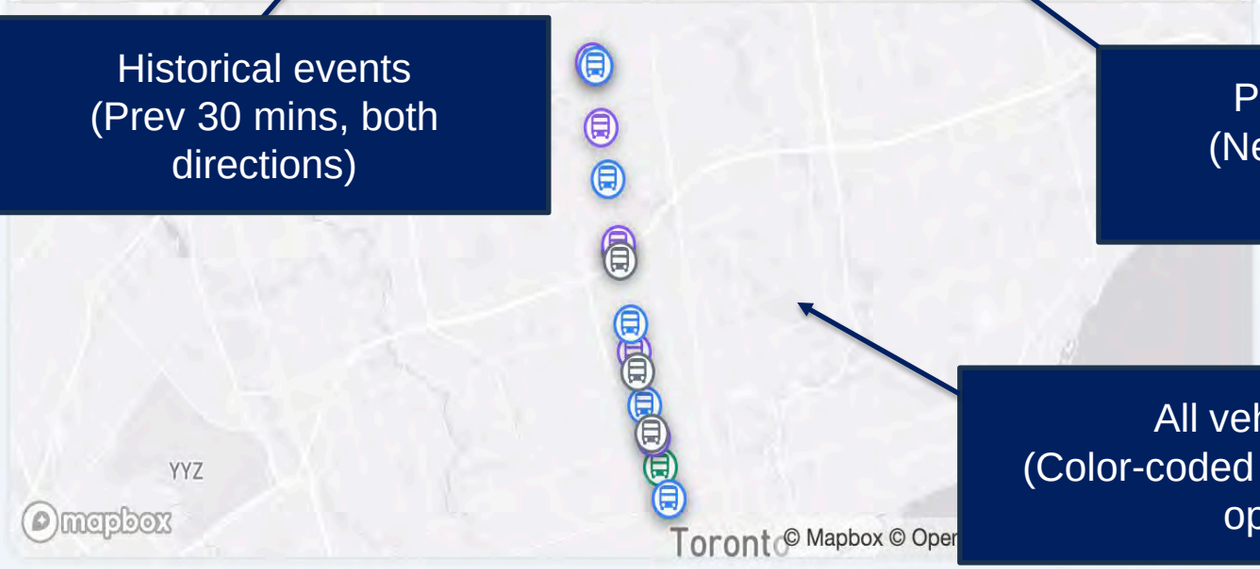
STOP	VEHICLE – TRIP	ETA (MIN) Time to hold stop	HOLD (min:sec)	ACTION
6794	9008 – 118852020	2.6 (10:52:39)	3:00	Apply Ignore
9911	9013 – 53928020	1.7 (10:51:44)	1:26	Apply Ignore

Overview of POC Pilot Platform

Historical events (Prev 30 mins, both directions)

Predicted events (Next 30 mins, both directions)

Recommended holding times



All vehicles location (Color-coded by direction / holding opportunity)

Next steps

1. Continue focused pilot approach:

- The current focus routes, 7 Bathurst and 24/924 Victoria Park, will return to regular monitoring
- 29 Dufferin and 929 Dufferin Express (replacing 7 Bathurst)
- 25 Don Mills and 925 Don Mills Express (replacing 24/924 Victoria Park)

2. Ongoing monitoring and reporting:

- AI tool assessment to determine its efficacy in managing bunching and gapping
- Continue performance tracking for newly added routes
- Review routes that have returned to regular supervision to assess changes and impacts
- Continue to inform of progress through CEO’s report

3. Collaboration with City partners:

- Coordinate with the City on identified tactics