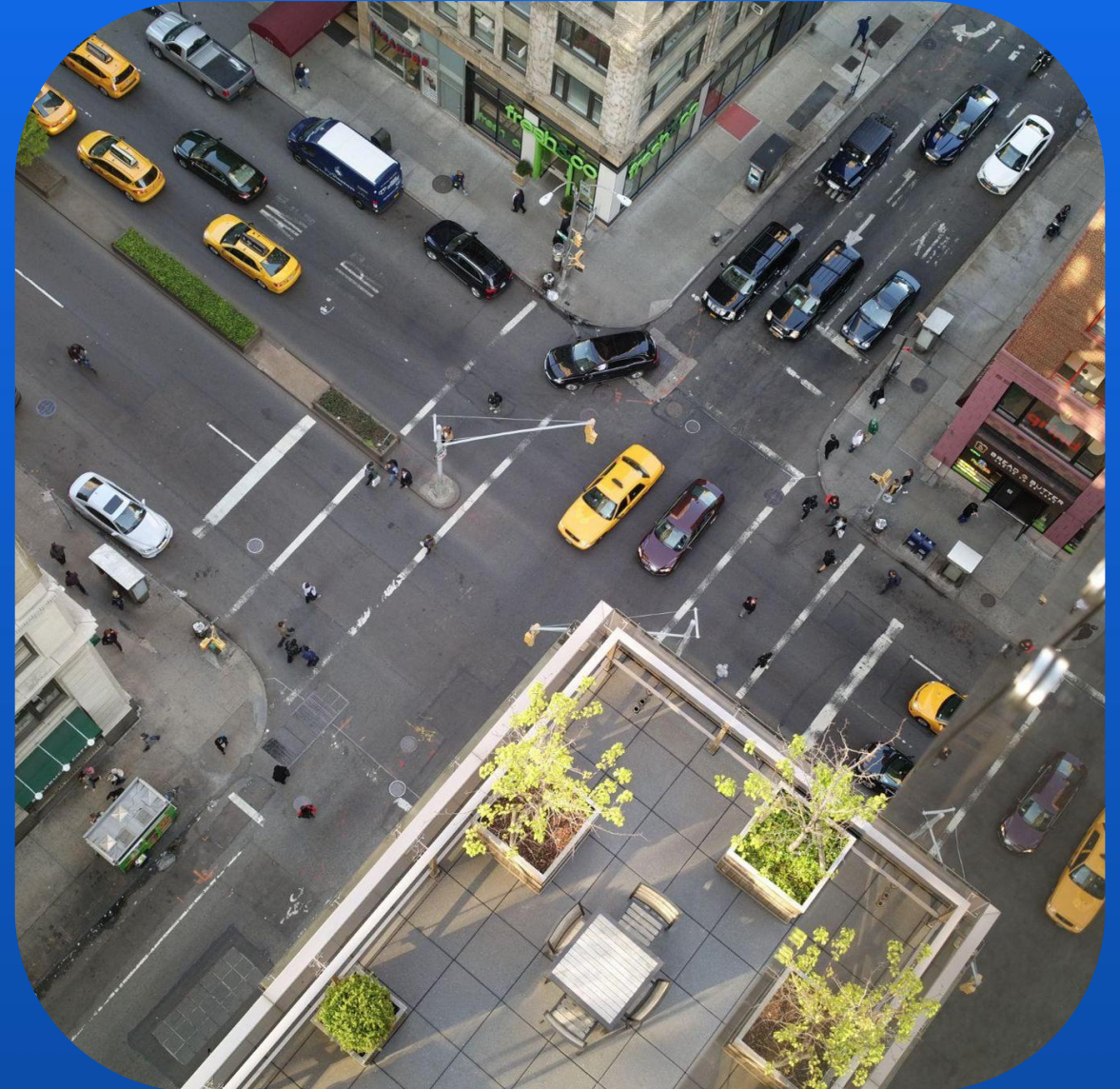


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Priority Control

Forward-Thinking Urban Mobility

Presentation information and date



What is Priority Control

Priority Control gives essential service providers like first responders, transit operators, and public works departments the ability to pass through signalized intersections quickly and safely.

Priority control systems empower cities to manage how vehicles navigate their streets, making operations safer, faster, and more efficient.

Who Benefits from Using Priority Control?



Public Safety
Emergency Vehicle
Preemption (EVP)



Transit Agencies
Transit Signal
Priority (TSP)

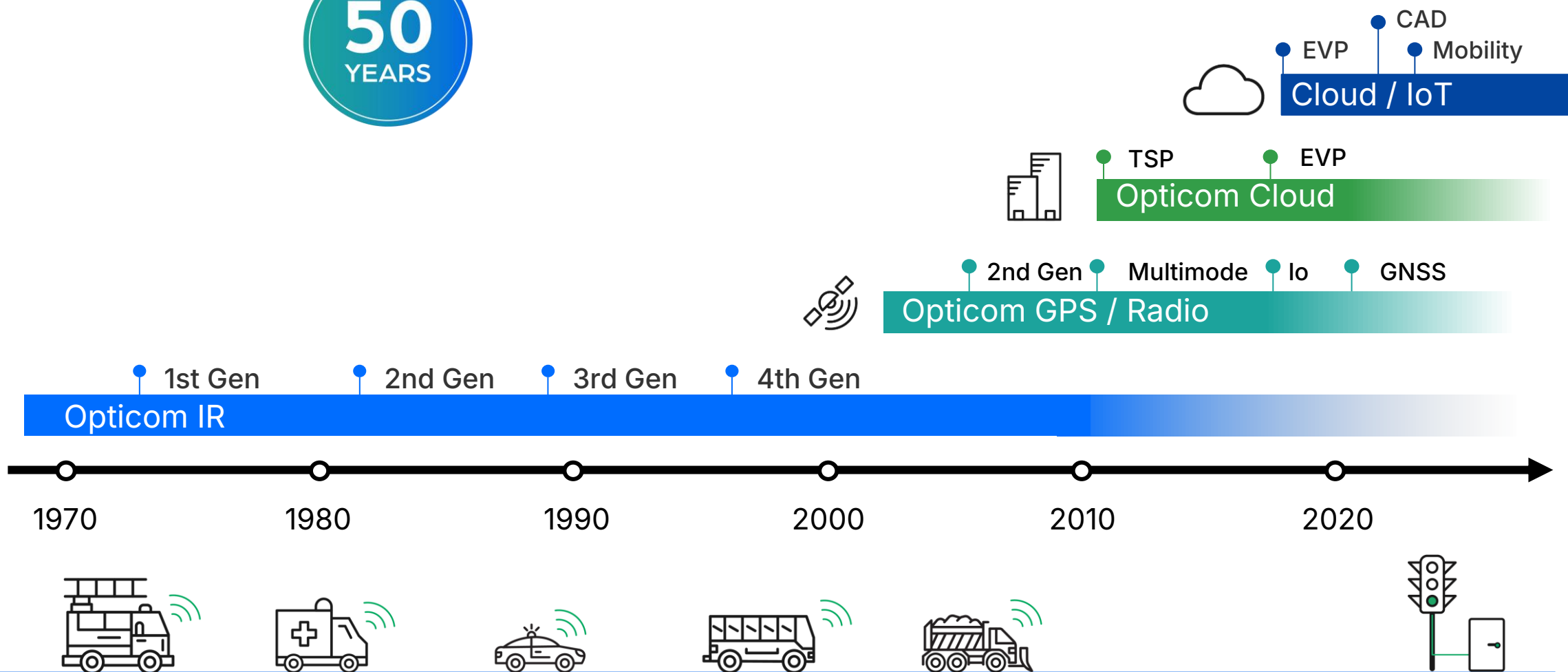


Freight & Fleet



Traffic Agencies

opticom
by miovision



Priority Control for Transit Agencies

As traffic congestion increases, so do delays in our public transit systems. Transit agencies use Opticom Transit Signal Priority (TSP) to give transit vehicles the priority to pass through an intersection for schedule adherence.

Increased
Ridership up to
10%

Improve Travel
Time up to
20%

Reduce Transit
Delay up to
40%

Cut Energy
Costs up to
19%

*Customer results for Opticom TSP

County Connection

Concord, CA & Walnut Creek, CA

County Connection
Vehicles

59

Concord, CA
Intersections

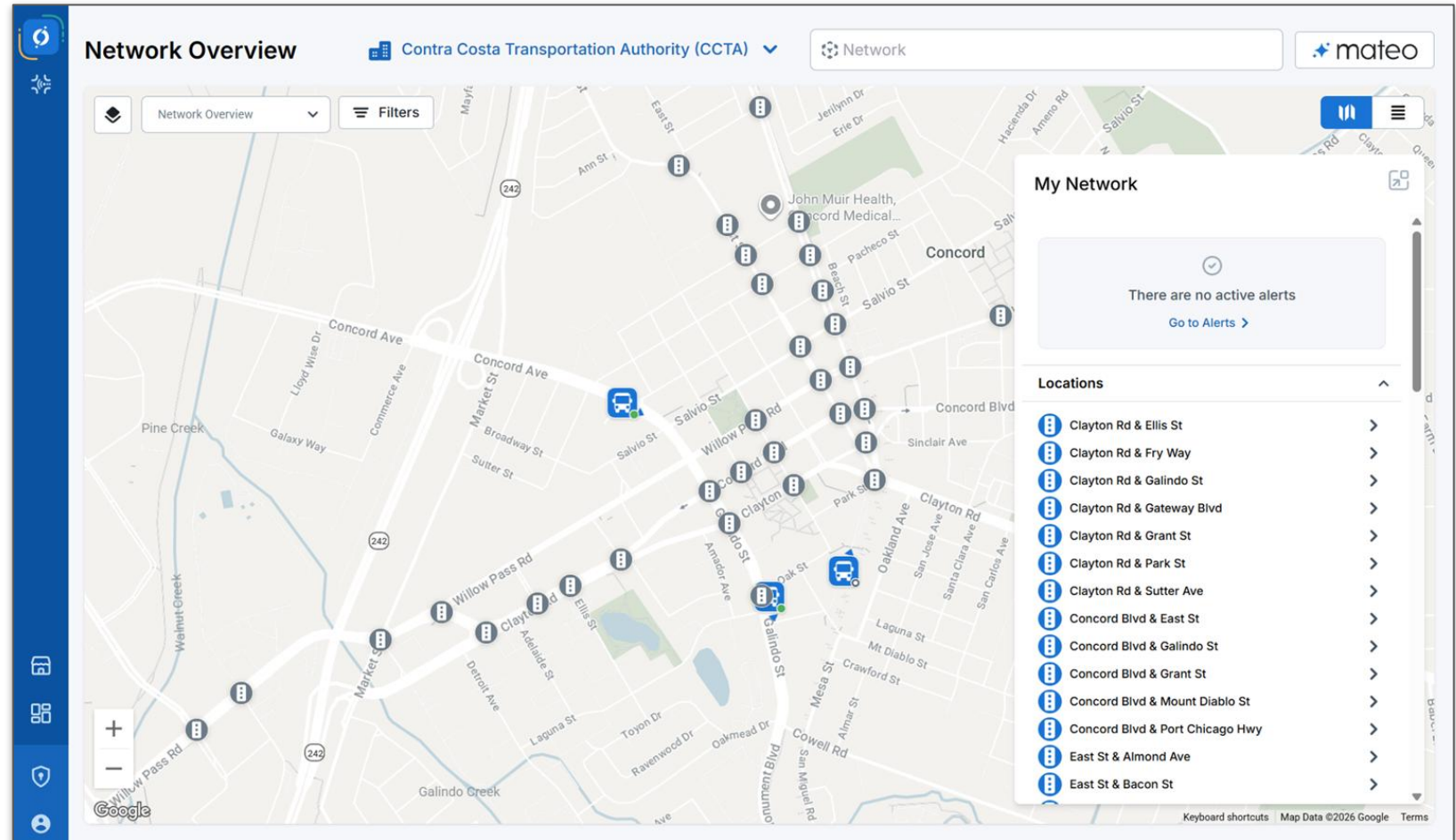
34

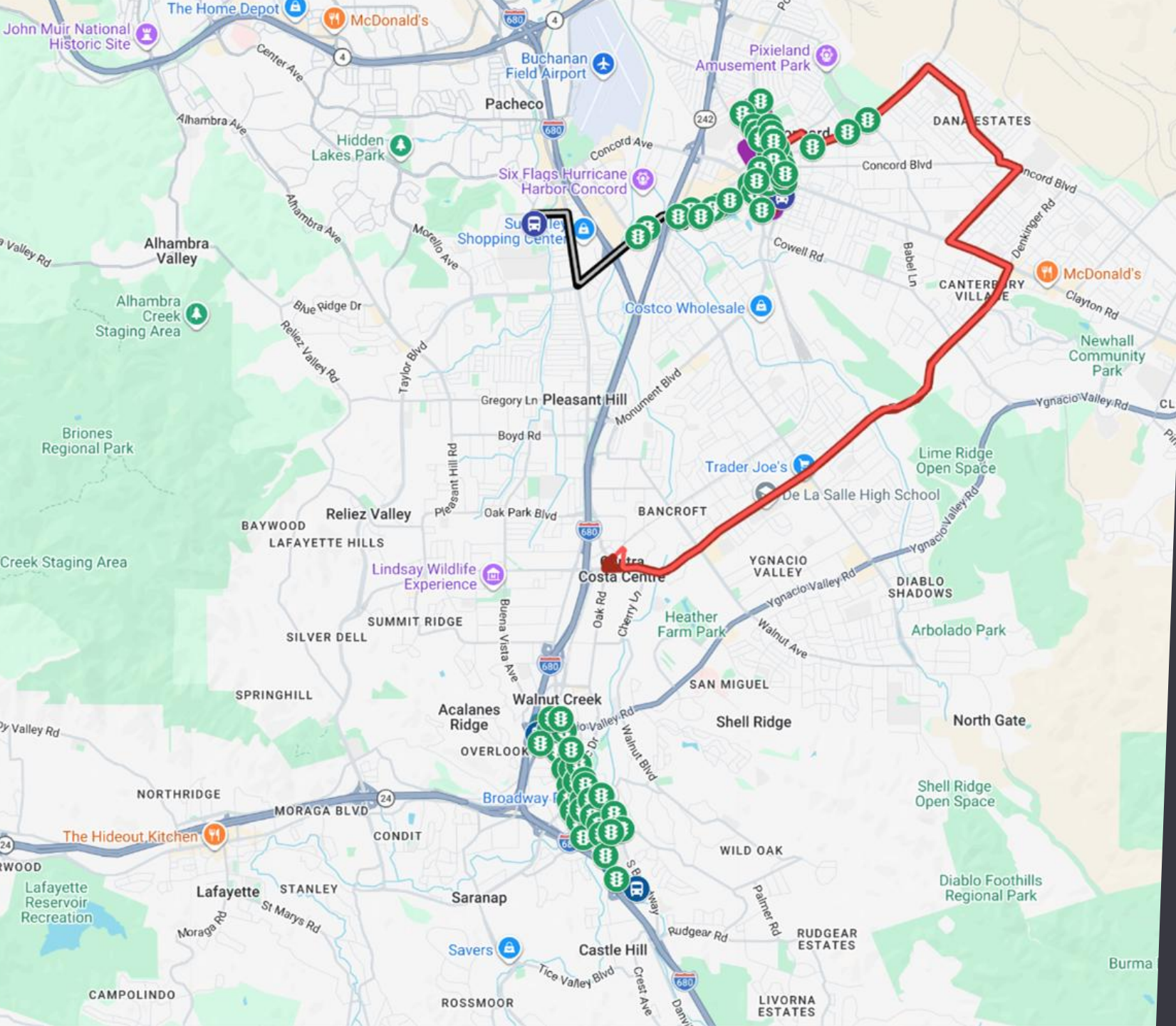
Walnut Creek, CA
Intersections

31

TSP Routes

4





Before & After Evaluation

17% reduction
in overall bus signal delay

6% reduction
in overall bus travel time

1.9% improvement
in on-time performance

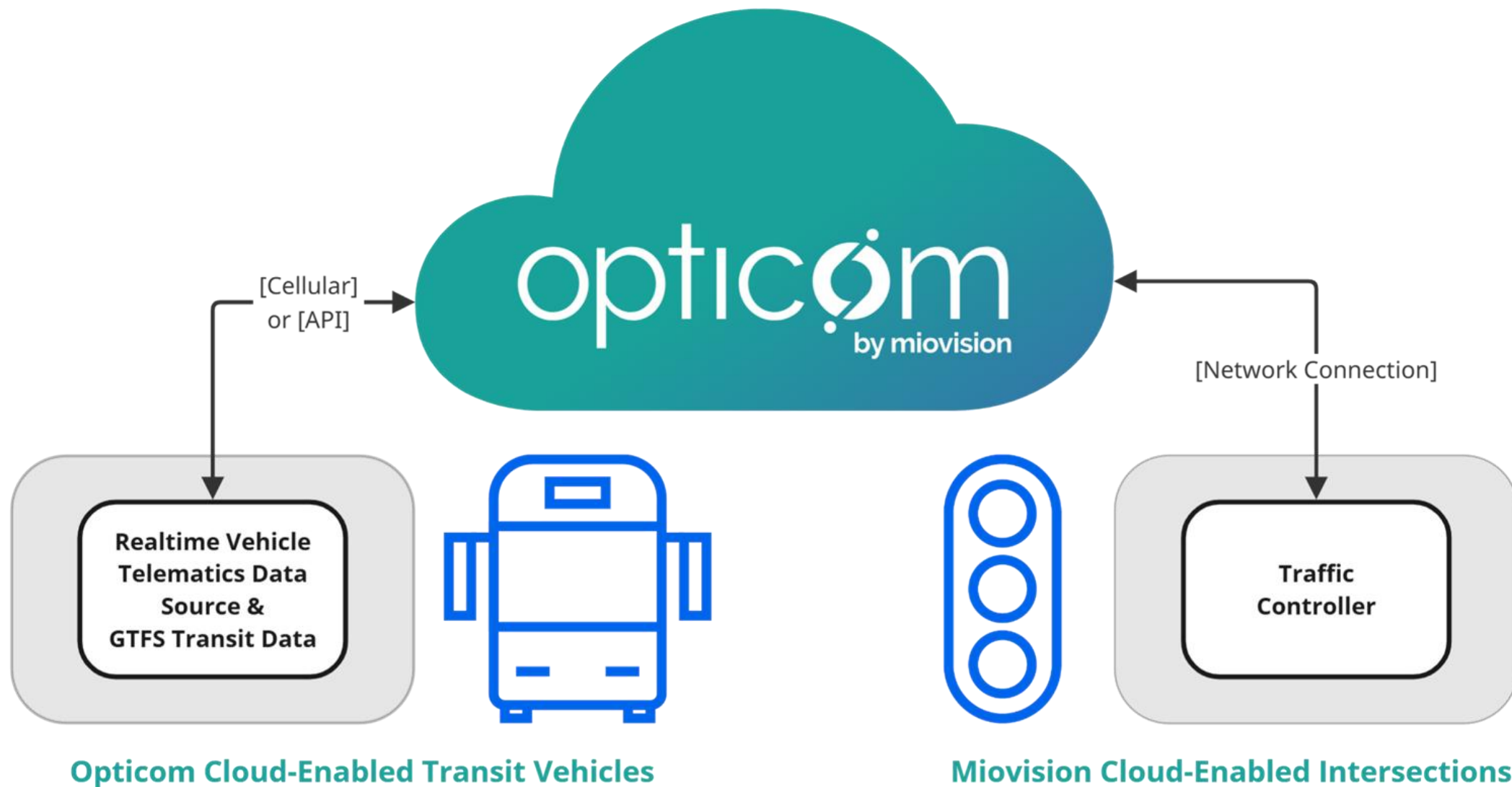
3.1% fewer
late departures

309 gallons
of fuel saved per year

6,314 pounds
Annual GHG emission reduction

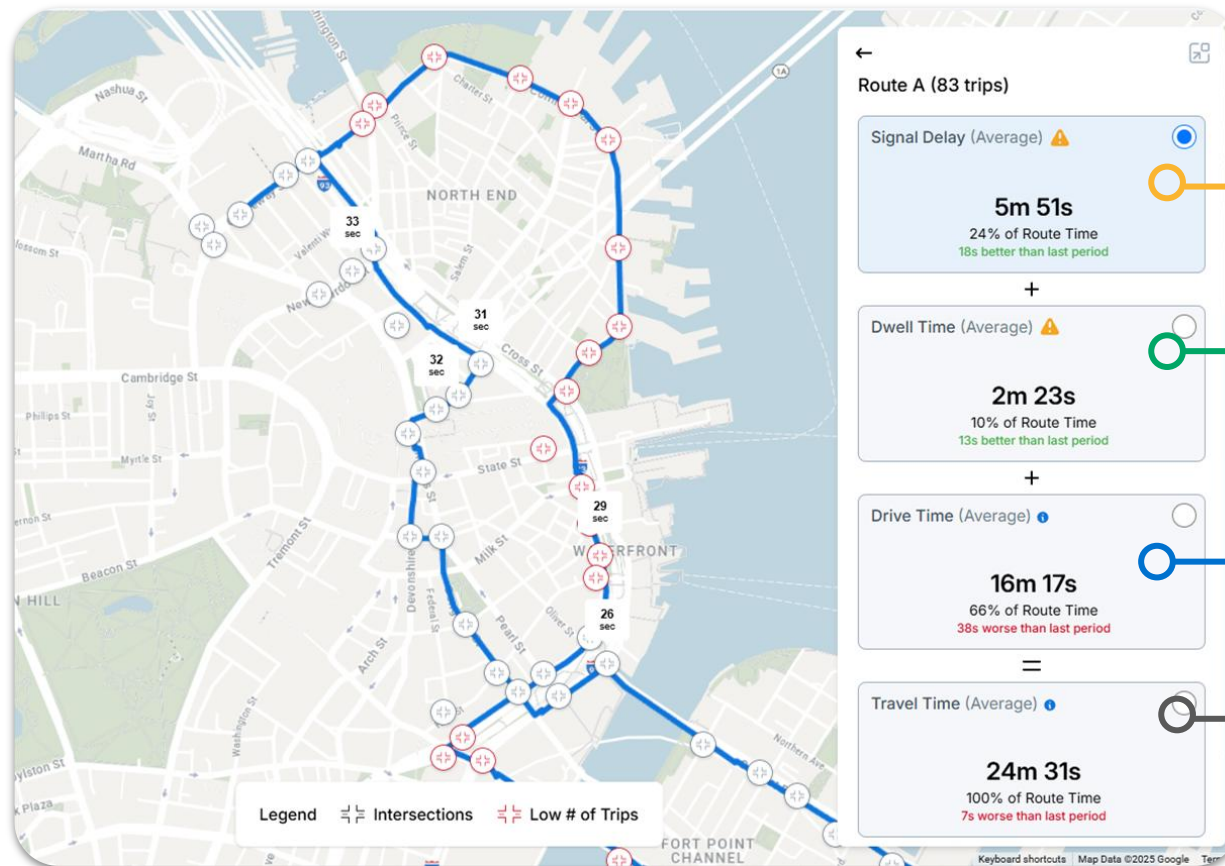
3:1 benefit-cost ratio

miOVISION



Cloud Based Analytics for Transit Signal Priority

Inform decisions and monitor TSP system performance through Miovision One



Signal Delay

The time spent waiting at signalized intersections on the route.

Dwell Time

The time transit vehicles spend serving passengers at each stop on the route.

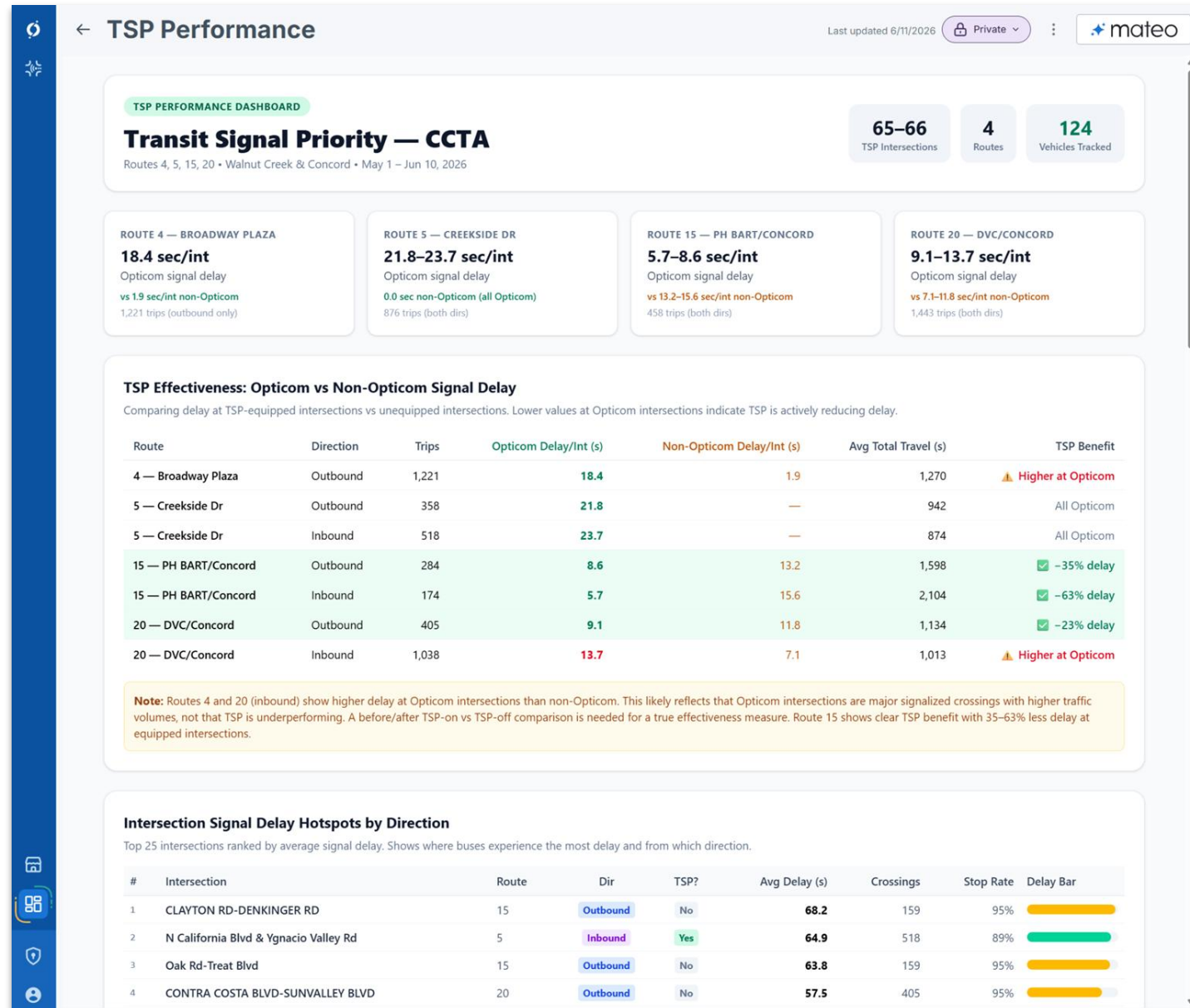
Drive Time

The time it takes to travel between bus stops.

Travel Time

The total time traveled for a specific route

Agentic AI-powered Dashboards



Control Conditions Required for TSP

Agency Settings

MioTown Prod

General Conditional Policies Conditional Routes Integration Admin

Please be aware that routes can only be assigned to one policy at a time. A route must be removed from the current before adding to a new policy.

POLICY SET	ASSIGNED ROUTES	DESCRIPTION
Headway	No routes assigned	Vehicles operating on routes assigned to this policy must be gapped by a certain amount of time to request TSP.
Minimum Occupancy	Route 1, Boat-F1, Boat-F4	Vehicles operating on routes assigned to this policy will need to meet a minimum threshold for passenger occupancy as published by the GTFS-RT feed to request TSP.
Schedule Adherence	Route Boat-F6, 7, 16	Vehicles operating on routes assigned to this policy must be behind schedule by a certain amount of time in order to request TSP.
Schedule Adherence and Minimum Occupancy	Route 9, 10, 11	Vehicles operating on routes assigned to this policy must be behind schedule AND meet a minimum occupancy status as published by the GTFS-RT feed to request TSP. This policy is MORE restrictive than either policy alone.
Schedule Adherence or Minimum Occupancy	Route 15, 17	Vehicles operating on routes assigned to this policy must be behind schedule OR meet a minimum occupancy status as published by the GTFS-RT feed to request TSP. This policy is LESS restrictive than either condition alone.
Signal Priority Disabled	No routes assigned	Vehicles operating on routes assigned to this policy will NOT get TSP at any time regardless of schedule, headway, or passenger statuses.
Time of Day / Day of Week	Route 4, 65	Vehicles operating on routes assigned to this policy will request TSP on days and times when this policy is in effect. Outside of those days and times, TSP will not be requested.

Agency Settings

MioTown Prod

General Conditional Policies Conditional Routes Integration Admin

Agency Information

Name* MioTown Description Miovision One demo agency

Priority* Low

Agency Code* 102

Country* Canada City* Kitchener Province* ON

Transit Signal Priority

This toggle enables or disables TSP for the entire organization. It is the "master switch" for TSP.

Enabled

Headway Threshold

The Headway Threshold defines the minimum time gap required between buses traveling on the same route and direction to request TSP. It ensures that TSP is activated only when buses are appropriately spaced apart.

10 minute(s)

Schedule Adherence Threshold

Schedule Adherence - the minimum amount of time a vehicle must be behind schedule (or delay), as calculated at each bus stop or published by GTFS-RT, to request TSP.

1 minute(s)

Minimum Occupancy

An occupancy level of Standing room only should be used as the minimum, and is therefore the default, setting for triggering this service. "Empty", "Many seats available", and "Few seats available" are generally not used.

Few Seats Avail... ▾

Off-Trip Mode

Enabling "Off-Trip" mode will allow any vehicle to request TSP regardless of trip status.

Disabled

Cancel Save

Analytics Peak Hours

Peak AM 08:00 AM 10:00 AM Peak PM 06:00 PM 08:00 PM

Save

Miovision Urban Mobility Platform



Detection



Emergency Vehicle Priority



Conditional Priority



Miovision V2X



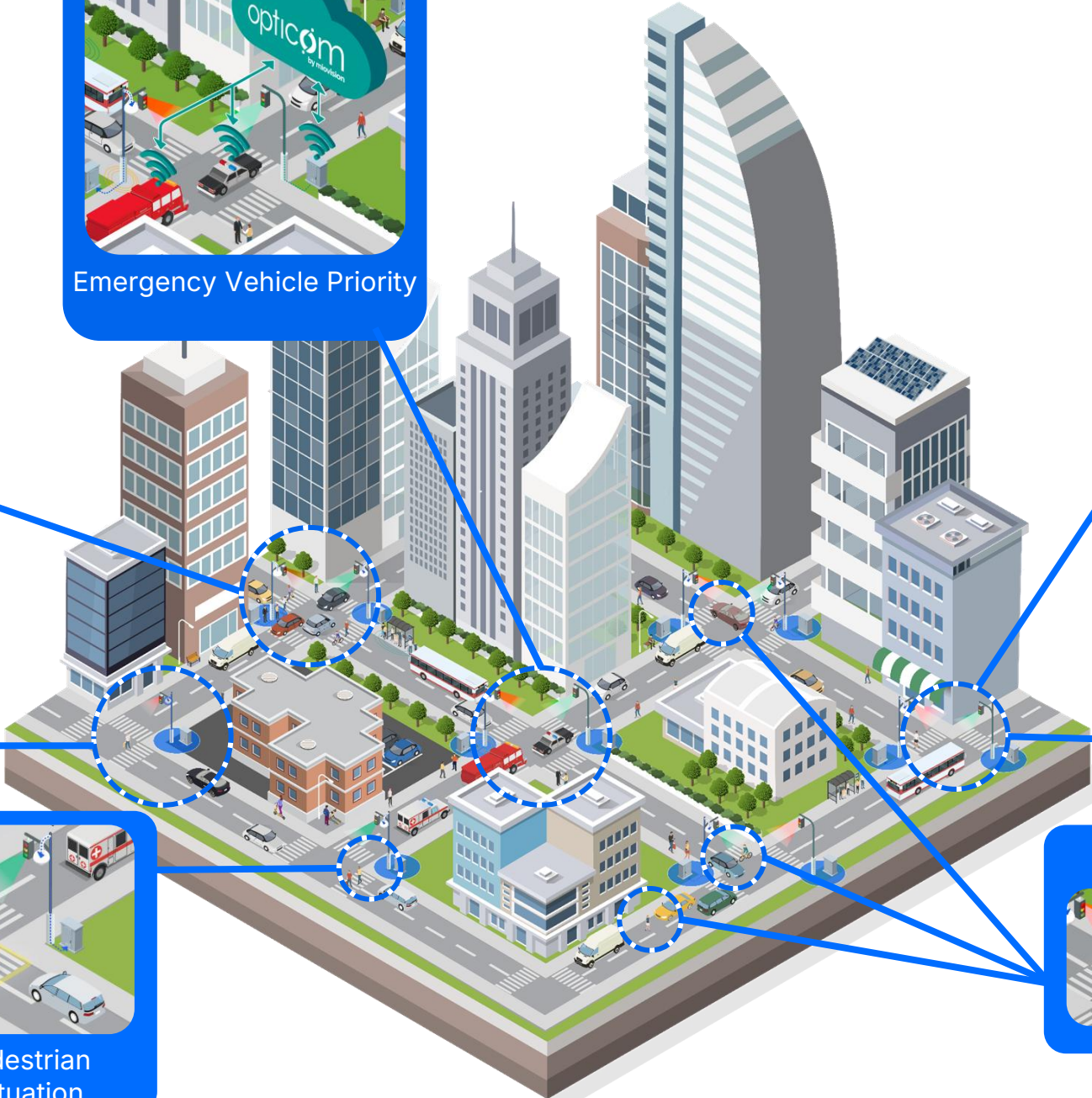
Transit Signal Priority



Pedestrian Actuation



Safety



Opticom beyond a single user

Traffic Engineering



Traffic Engineers appreciate additional functions:

- ATSPMs for comprehensive data analysis
- Multimodal Turning Movement Counts
- Real-time Adaptive Control
- Temporary Studies & Continuous Safety

Fire, Police, and Emergency



Fire, Police and other EMS agencies leverage:

- Life Saving EVP operations
- Remote intersection and vehicle configuration
- System Health Monitoring and Analytics

Signal Maintenance



Signal Techs benefit from Miovision's :

- comprehensive alerts and status updates
- Ability to review Miovision's systems and other cabinet components

Transit Operations



Transit and other municipal services leverage:

- Conditional and Relative Priority
- Fleet and System Monitoring
- Historical Operational Analytics

Miovision One

The power of one

With the purchase of Miovision Hardware, you get a single platform that integrates the data from all of the applications you need to make traffic management easier, less time-consuming — and less costly.

