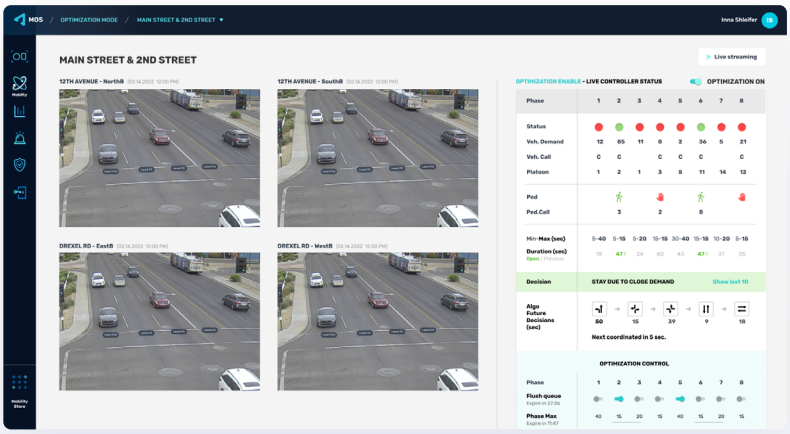
notraffic™ Optimization Mode



Optimization Mode leverages predictions to evaluate thousands of potential future traffic scenarios in real-time to optimize traffic flow, reduce congestion, and improve overall transportation efficiency and safety.

Functionality

- Local AI-based predications analyze numerous scenarios up to 120 seconds in advance.
- Adapts to real-time changes in traffic patterns and volumes.
- Coordinates multiple intersections along a corridor to ensure continuous traffic flow and minimize stops.
- Optimization driven by policies to minimize delay and travel time.
- Comprehensive 5-year service managed entirely.
- 24/7/365 monitoring by the NoTraffic operations center.

AI Mobility Platform

The Optimization Mode application can be activated from the Mobility Store, that provides a diverse range of applications.

The Mobility Store is part of the NoTraffic AI Mobility Platform, which integrates AI-powered software and hardware at the edge under a cloud-based Mobility OS (Operating System) to address current and future transportation needs.

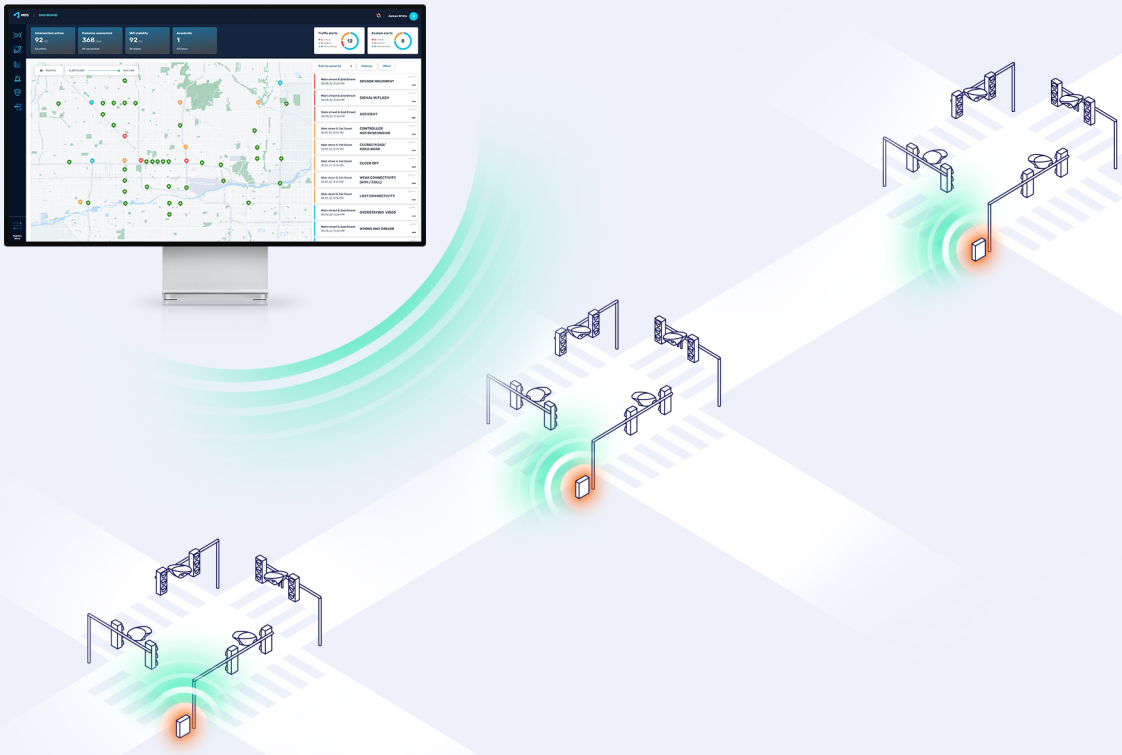
Optimization Mode Overview

1. **Sensor Units** collects real-time traffic data using video & radar object-based detection

2. **Nexus Unit** runs local Optimization Algorithm

3. **Mobility OS** distributes **Platoon Messages** between intersections

4. **Real-time control** of the traffic signal controller



Case Study

Tucson, Arizona

12 Intersections with Optimization Mode

Main objective:

Reducing the level of oversaturation along this corridor, which has experienced significant expansion due to residential growth at its end.

Primary result:

By leveraging this strategy, cycle lengths were reduced and throughput was increased.

Main Outcome:

25% Vehicle delay reduction

0.5 Mile reduction in peak queue

Case Study

UBC in Vancouver, British Columbia

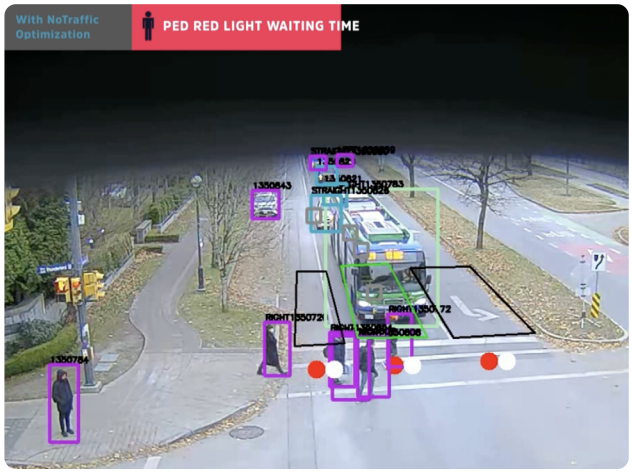
7 Intersections with Optimization Mode

Main objective:

Reduce pedestrian delays and enhance greenhouse gas emissions.

Primary outcome:

By harnessing these advancements, traffic flow for all users, including pedestrians and vehicles, optimized while upholding safety standards can be improved without compromising safety.



Main Outcome:

40% Pedestrian delay reduction

74 Tons of CO2 emissions per year reduced