Increasing Transit Ridership and Reducing Carbon Emissions with Automated Bus Lane and Bus Stop Enforcement

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About Hayden AI

- Global leader in vision AI and spatial analytics

- U.S. market leader in mobile automated bus lane and bus stop enforcement

- Privacy-first design

- Named one of America's Top Green Tech Companies in 2024

- 2023 Urban Tech Challenge Winner

Problem

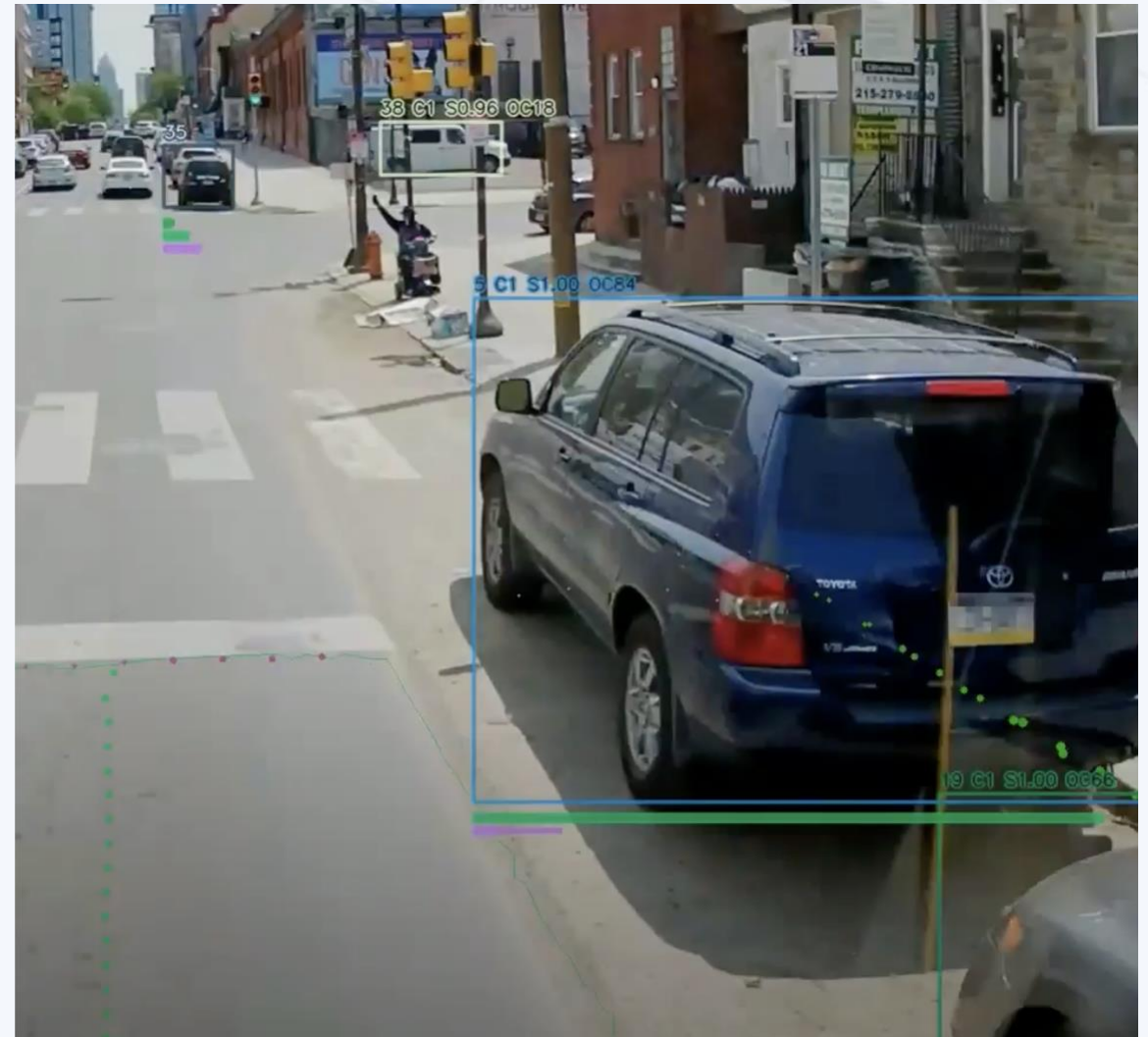# Blocked bus lanes and bus stops impact riders everyday.

Blocked Bus Lanes Lead to...

- **Slow and unreliable** bus service for riders

- **Safety issues** for all road users

- **Increased greenhouse gas emissions**

Blocked Bus Stops Lead to...

- **Dangerous boarding and exiting** for riders

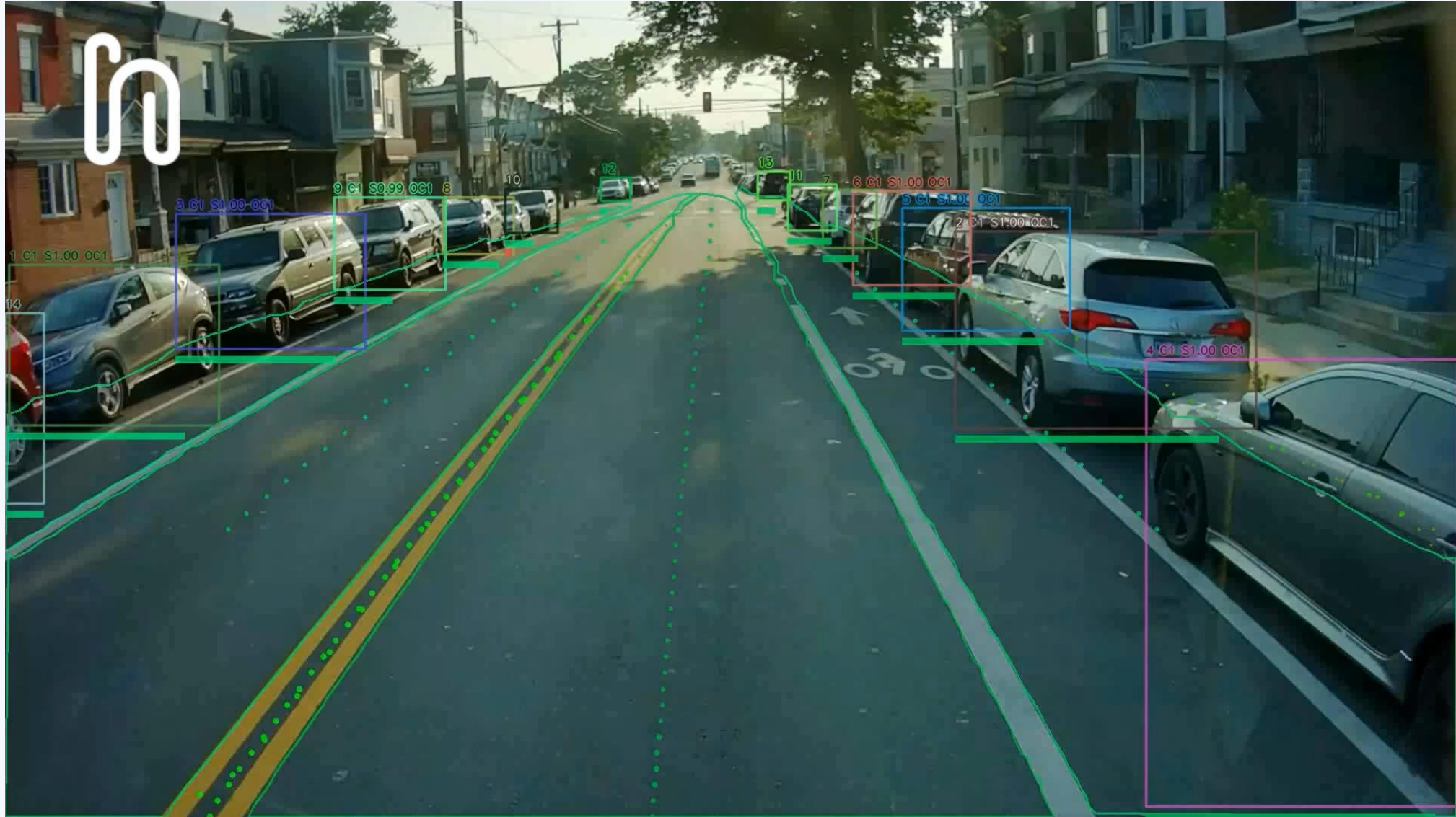- **Dangerous and often impossible boarding and exiting** for people with disabilities

Solution

The Solution: Automated Transit Zone Enforcement

Ability to Detect Multiple Types of Violations

Bike Lane

Double Parking

Automated Enforcement Reduces GHG Emissions

65

metric tons of CO_2 emissions/year

(388,235 gallons of diesel fuel annually)

EQUIVALENCE

766
homes' electricity use for one year

4.4M
pounds of coal burned

480M
smartphones charged

10M
miles driven by an average gasoline-powered passenger vechicle

Hayden AI's mobile perception platform helps transit agencies:

- Speed up transit

- Increase ridership

- Improve transportation access for people with disabilities

- Improve road safety

- Create a more sustainable future

How Our Technology Works

- AI-based system mounted on inside of bus windshield

- Detects parking and moving violations that obstruct public transport and bike lanes

- Objects, not people: Only detects and documents vehicles in violation

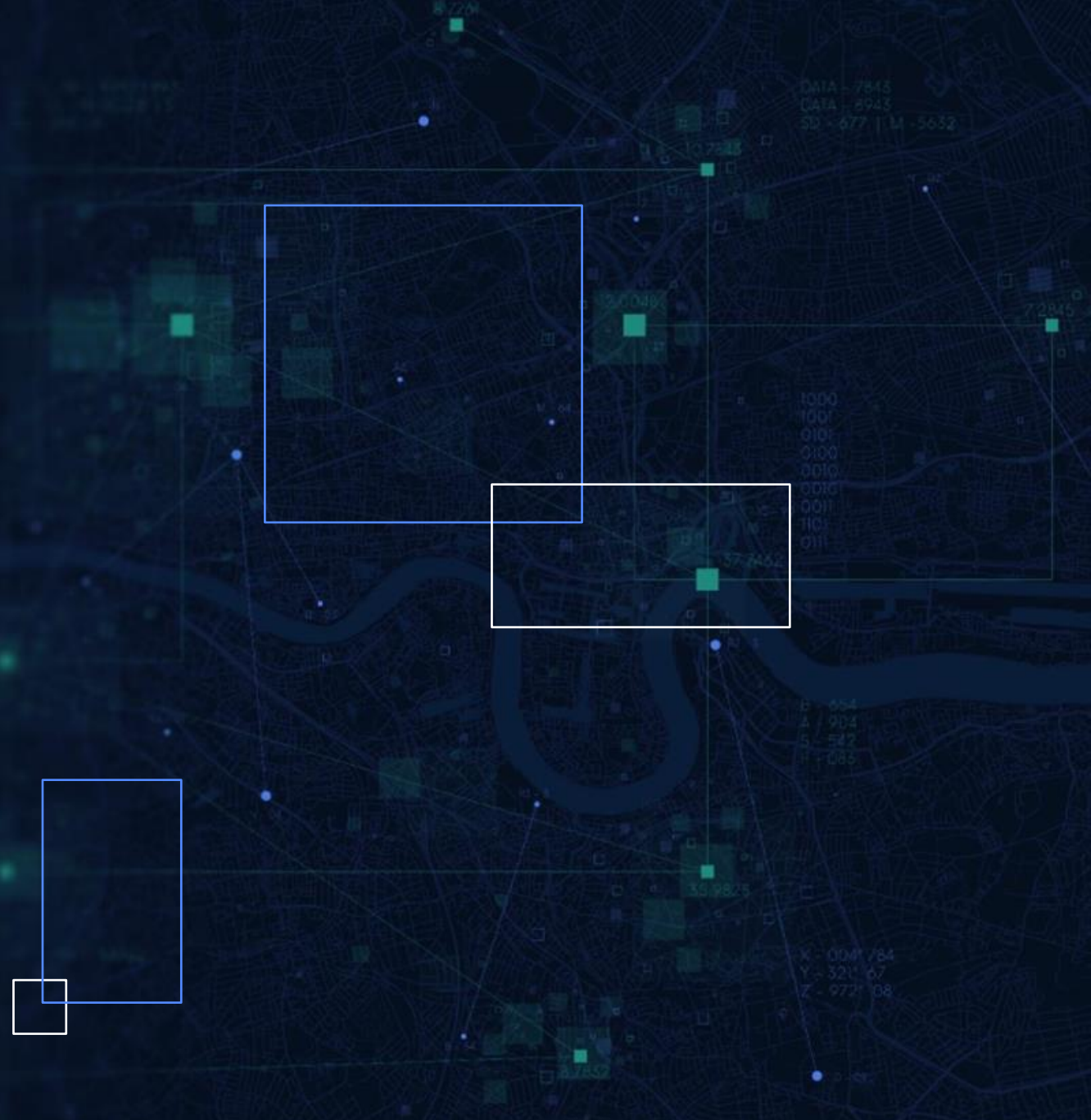- Capability to automatically blur faces and license plates

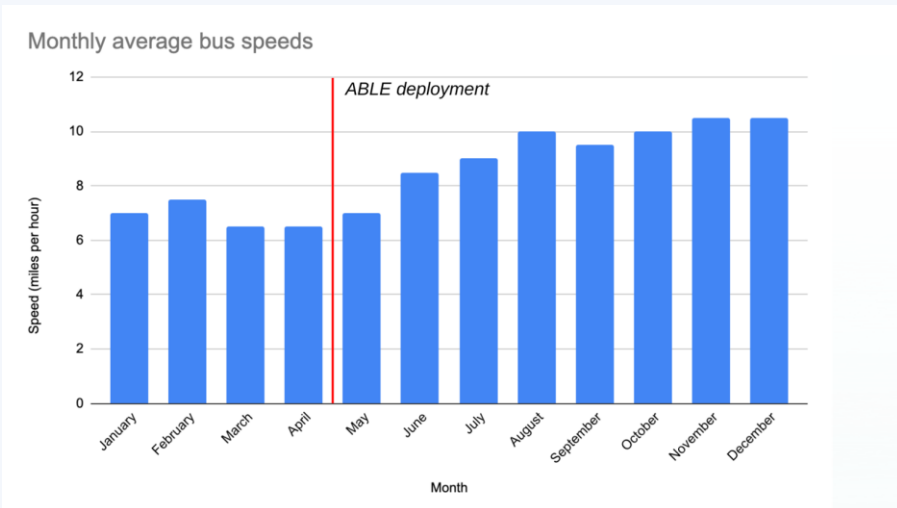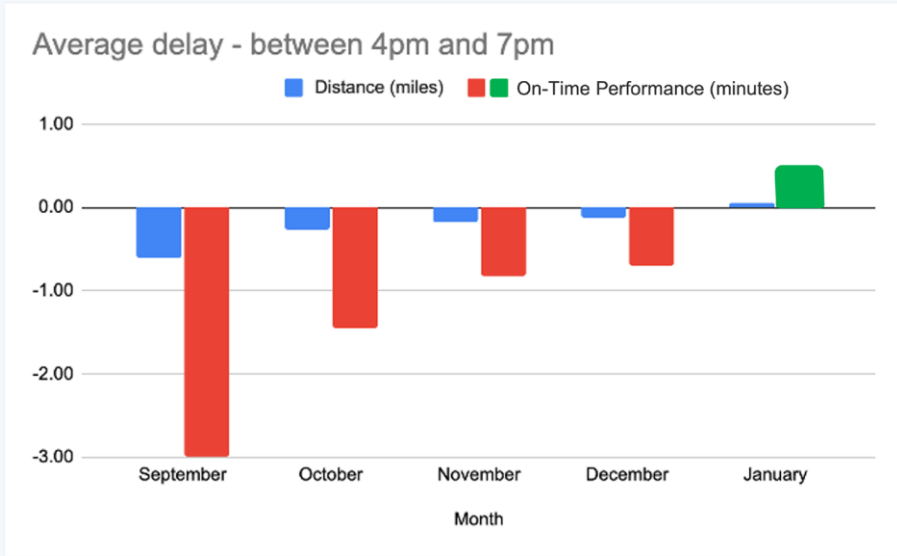# Automated bus lane enforcement delivers results in New York City

- **Up to 36% increase in bus speeds**

- **34% fewer collisions** on some routes

- 86% of violators only receive one ticket, indicating that **this technology effectively changes driver behavior**
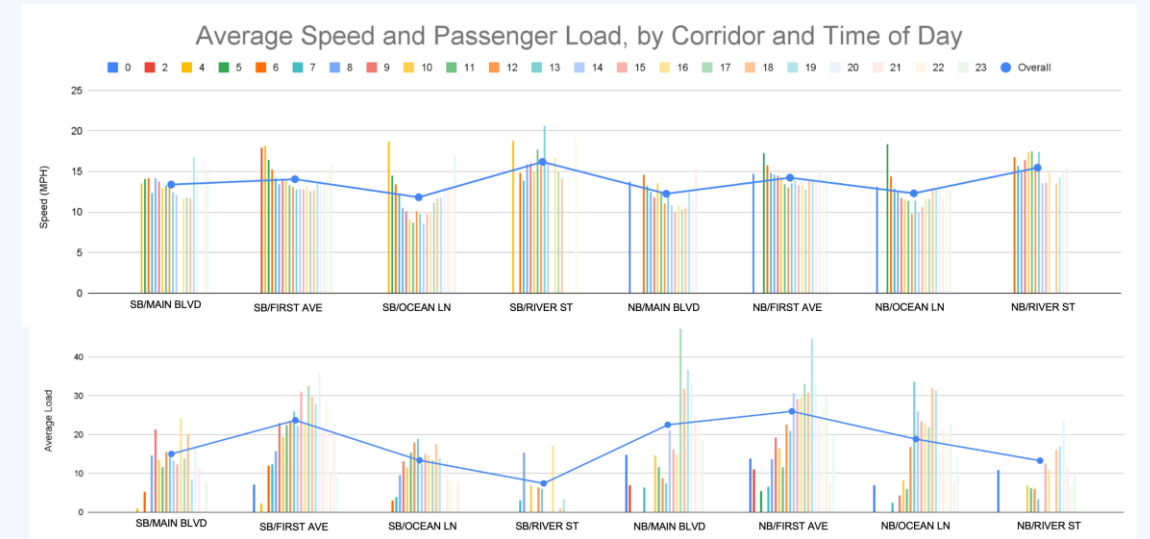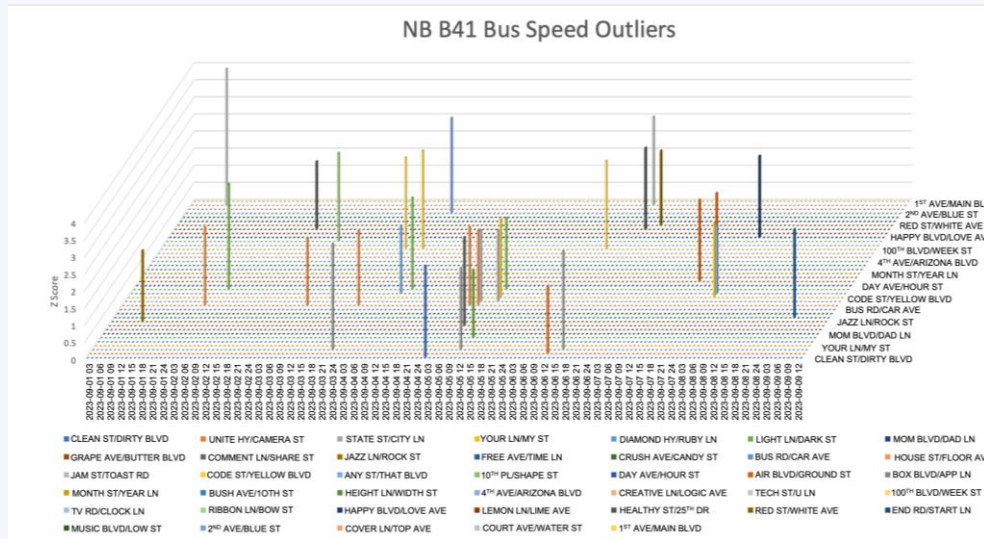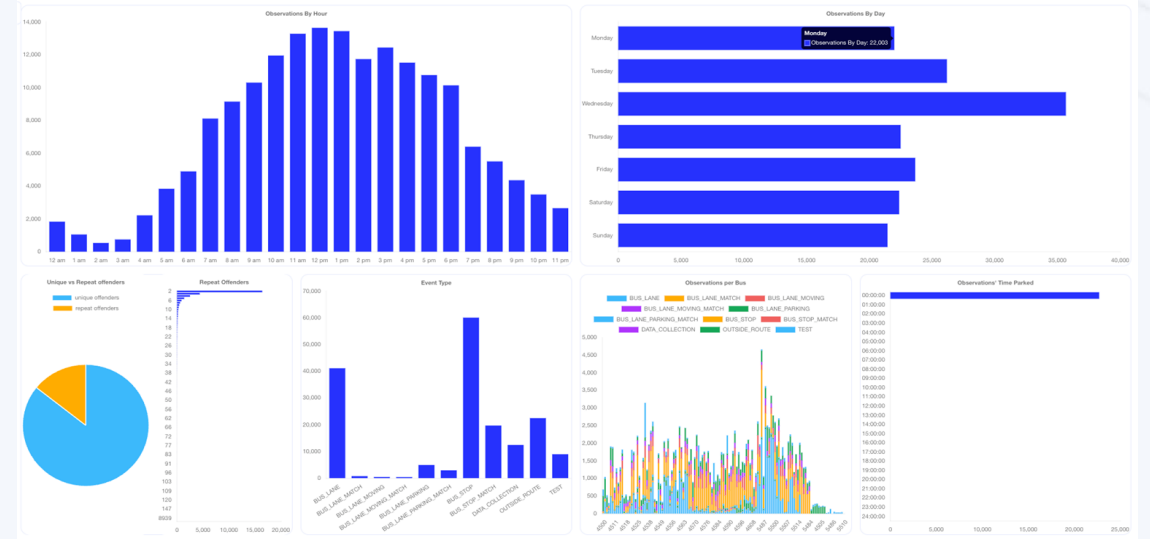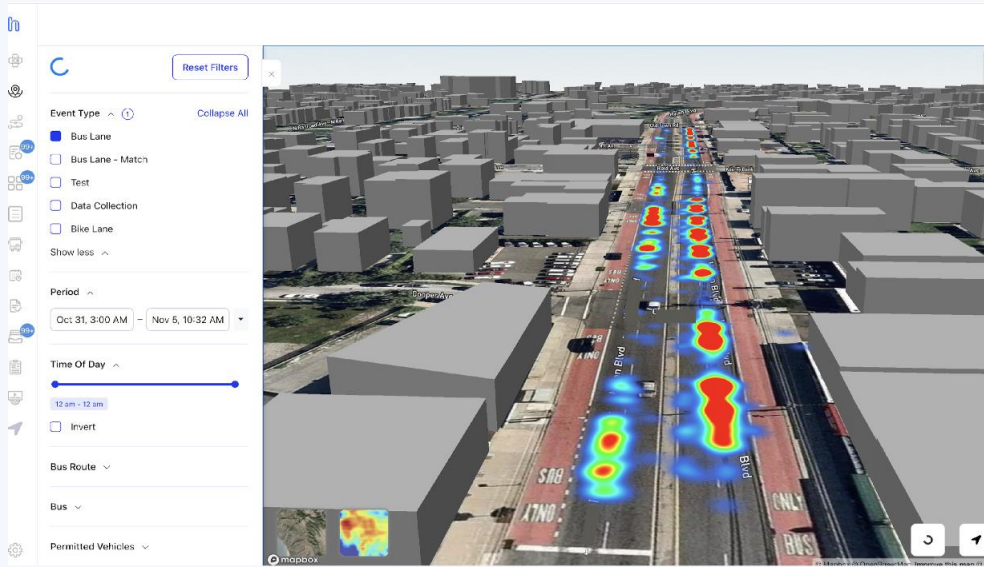
With violation data, including geolocation data, agencies can understand trends impacting service

Unlock Insights on Traffic Patterns Impacting Transit

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Questions

HaydenAI

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