BOOST CUSTOMER SATISFACTION WITH EFFICIENT & TIMELY TRANSIT SERVICE THANKS TO









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The Safe Fleet ClearLane System—How it Works



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Why Choose Safe Fleet ClearLane?



### The Safe Fleet Automated Bus Lane Enforcement (ABLE)

Issue transit violation notices to vehicle owners who block dedicated bus lanes, making violators think twice before blocking a lane. Address the issue of congested cities by making bus routes more efficient and getting riders to their destinations quicker.

SAFE FLEET



# The Issue of **Congested Cities**

**Cities are becoming more congested, causing longer transit ride times.** Many North American cities average transit bus speeds below 10 miles per hour.

**New York City Transit** (MTA) averages 8.6 miles per hour.<sup>1</sup>



Washington Area Transit Authority (WMATA) averages less than 10 miles per hour.



**Denver Transit Authority** (RTD) has an average speed of fewer than 10 miles per hour on nearly every downtown route. Some Chicago neighborhoods experience speeds of 6 miles per hour.<sup>2</sup>





#### The Issue of **Congested Cities**

## 

21<sup>%</sup> STOP DELAYS

Increased congestion and riding times are key contributors to the decrease in ridership affecting many North American transit authorities.<sup>3</sup>

**3%** OTHER DELAYS



#### **Sources of Bus Delay**





## The Greater Costs of **Traffic Congestion**

Traffic congestion taxes everyone and everything within its reach. Passenger and goods flow, the quality of life and the competitiveness of a region are all negatively impacted as traffic congestion increases.

There are also additional costs relating to...

#### ...longer rides, environmental damage, reduced productivity, **lower standards** of living, and wasted time and energy.



# The Greater Costs of **Traffic Congestion**

The Southeastern Pennsylvania Transportation Authority (SEPTA) issued a report about congestion in the Philadelphia City Center, indicating traffic congestion...

Adds **\$152 million** in costs each year to bus and car passengers Takes away more than **\$5 million** in lost revenue

Transit officials say ride-sharing plays a part in this decrease; however, an estimated quarter of SEPTA's lost riders result from congestion-related slowness.

Increased the cost of operation by **\$21 million** in recent years

**14 million fewer trips were taken in 2018** than the year before.<sup>4</sup>



### Clearing Dedicated Bus Lanes

It's not uncommon for large transit authorities to experience over 1000 obstructions in a dedicated bus lane for a single bus route within a two-week period.

#### **Removing these obstructions can**

- improve bus speeds and bus schedule reliability/adherence,
- decrease schedule recovery times,
- Iower operating costs.

Passengers benefit from a decrease in riding times, reduced wait times at bus stops, and less vehicle crowding from an improved vehicle and schedule reliability.



### Proven Results

The Metropolitan Transportation Authority (MTA) Select Bus Service (SBS), which includes **all-door boarding, traffic light priority and automated bus lane enforcement has resulted in:**<sup>5</sup>

## IMPROVED 10-30 TRAVEL TIME BY 10-30

## **27% FASTER** ROUTES THAN LOCAL/LIMITED ROUTES

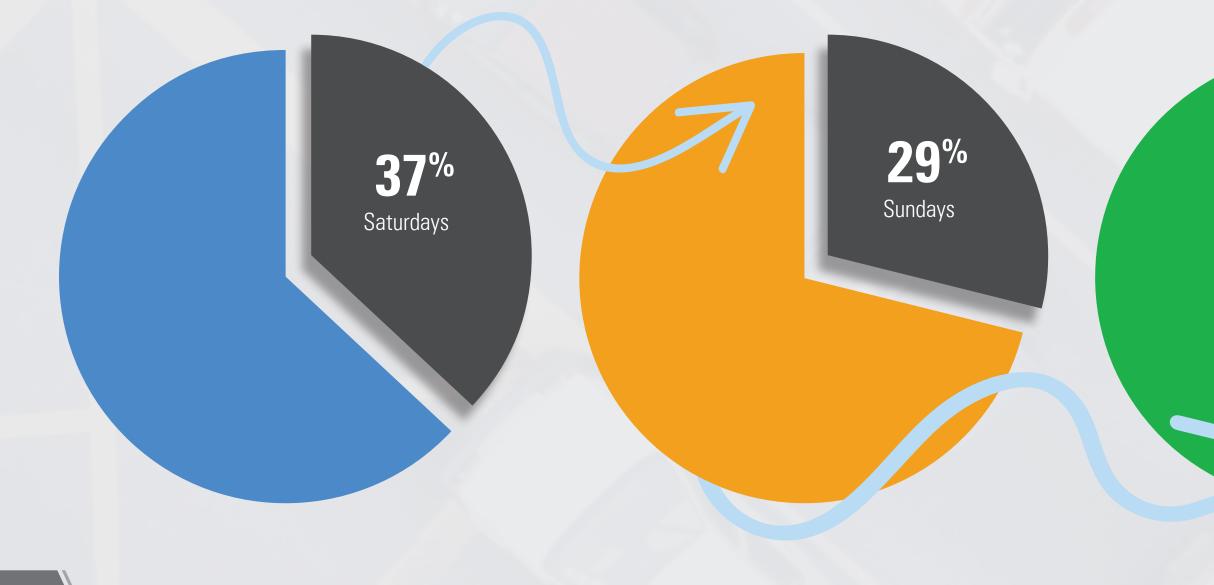


SAFE FLEET

## Proven **Results**



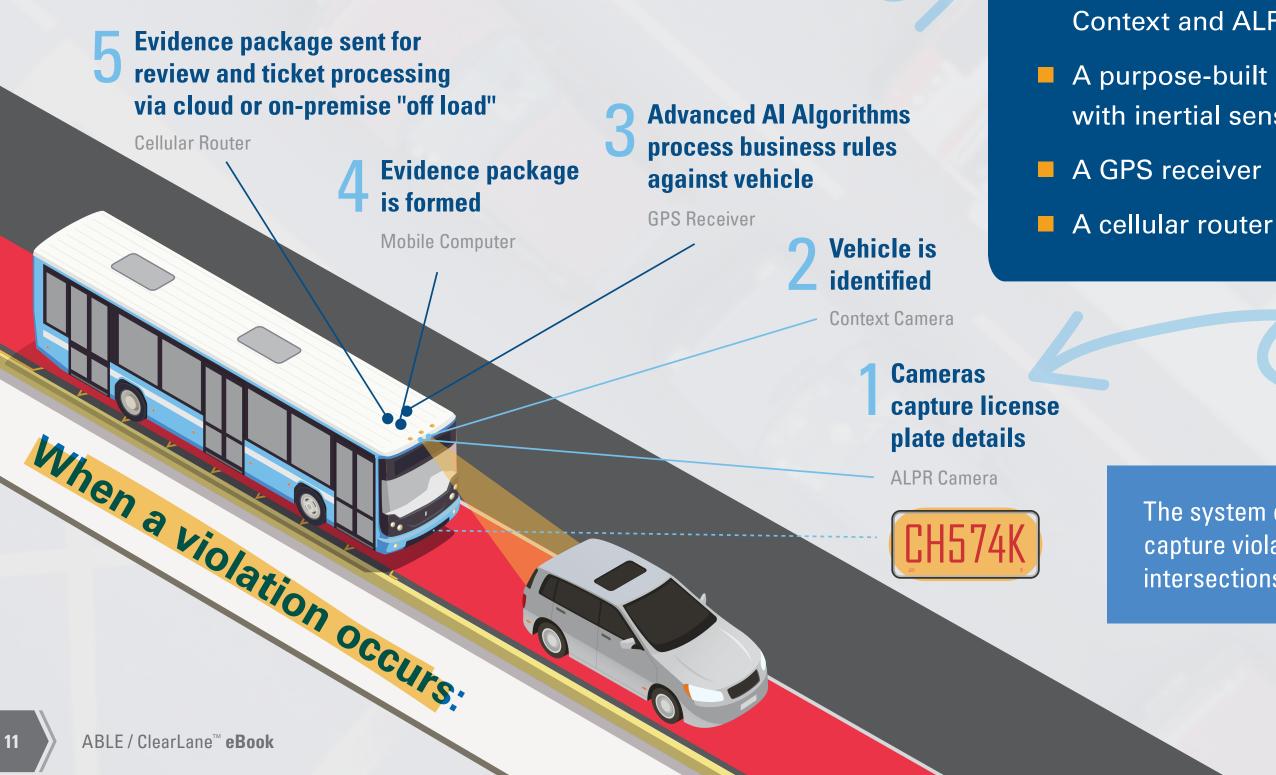
The MTA also reports an increase in ridership on SBS route M14, of:



#### 15% Weekdays



## The Safe Fleet ClearLane System—How it Works



The enforcement system works by using these technologies onboard the bus:

Two different types of cameras – **Context and ALPR** 

A purpose-built computer with inertial sensors



The system can also be used to capture violations in bike lanes, intersections, crosswalks, and more.



### The Safe Fleet **ClearLane** System—How it Works



## Safe Fleet **ClearLane results** demonstrate an average in license plate and vehicle detection

Unlike typical, small sample size tests, these statistics are derived from tests in real-world conditions and a 2,000 vehicle sample size.

#### Safe Fleet ClearLane **Accuracy Results:**

# ACCURACY

1.877.630.7366



## Why Choose **Safe Fleet ClearLane?**

A clear dedicated bus lane can help your buses navigate routes effectively, providing riders with a better experience by getting them faster to their destinations.

ClearLane helps your agency achieve that, and the power of the Safe Fleet platform can help you achieve even more.

#### Want to learn more?

**DOWNLOAD OUR** WHITE PAPER HERE



SAFE 🛐 FLEET

#### BOOST **CUSTOMER** SATISFACTION

Efficient, Timely, Transit Service AUTOMATED BUS LANE ENFORCEMENT

Safe Fleet® ClearLane Learn more at safefleet.net/ABLE

The Safe Fleet ClearLane system also features an intelligent back end to provide agencies with additional insight and benefits like:

<sup>2</sup> https://frontiergroup.org/articles/bus-stop-fast-lane-how-cities-can-speed-buses-improve-ridership/ <sup>3</sup> https://wagner.nyu.edu/files/rudincenter/Barr.pdf <sup>4</sup> https://www.inquirer.com/transportation/septa-bus-ridership-transit-loss-20190326.html <sup>5</sup> https://new.mta.info/system\_modernization/M14SBS

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The results speak for themselves, consistently demonstrating 95% license plate and vehicle detection accuracy in field-tested, real-world conditions with sample rates in the thousands.

**streamlining** hotspots and pressure points and helping build roadways and traffic laws that provide the best possible outcomes.

**viewing their buses** as they navigate dedicated bus lanes throughout the day on a real-time, live-streaming map and then plan for additional buses, routes, or route changes.

allowing agencies to set up whitelists in which license plate captures and vehicle/violation insight are available for research purposes.

**providing status updates** on its own system health and show immediately when a system has gone offline and needs to be addressed

<sup>1</sup> https://nyc.streetsblog.org/2020/07/21/good-news-bad-news-riders-return-to-buses-but-speeds-are-dropping/#,--:text=But%20the%20drop%20in%20









We are redefining what fleet safety means with one-stop access to customized, integrated and intelligent solutions that answer today's safety needs and anticipate tomorrow's challenges. By making fleets smarter, we make them safer.

At Safe Fleet, we're **Driving Safety Forward™** 

Learn more at **safefleet.net/ABLE** 

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