

BusPatrol Safety Program North Bay Meeting

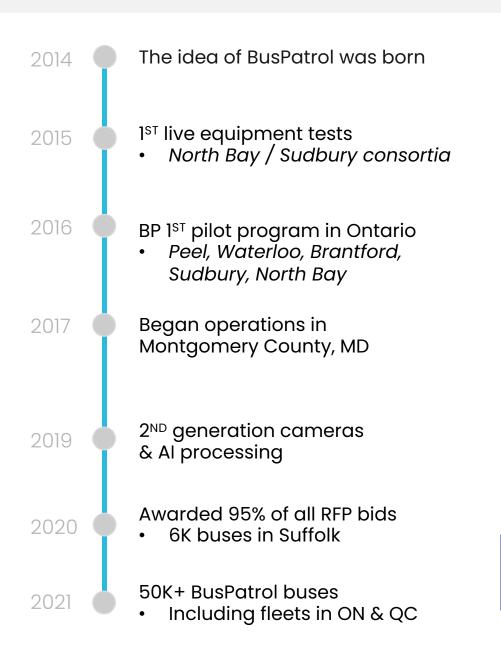
February 9th, 2021



Our Journey

The School Bus Safety Leader





SCHOOL 1ST PROGRAM APPROACH

Built From Years of Understanding Stakeholder Needs

6 Years

8.6M

Building the most robust school bus safety program

Hours of live road testing



5X More effective stop-arm enforcement than competitors (AI Assisted)

Trusted by State & Provincial legislators in NY, PA, MI, MA, VA, MDON, QC to advise on regulation drafting



Schools First – Beyond Enforcement





SCHOOL 1ST PROPOSITION

Because opt-ins are critical to program success

Our 360° Approach That Delivers All Stakeholder Needs



PEOPLE FIGHTING FOR CHANGE.

Responsibility to provide communities with access to the best safety solutions.

FOR THE SCHOOL BUS

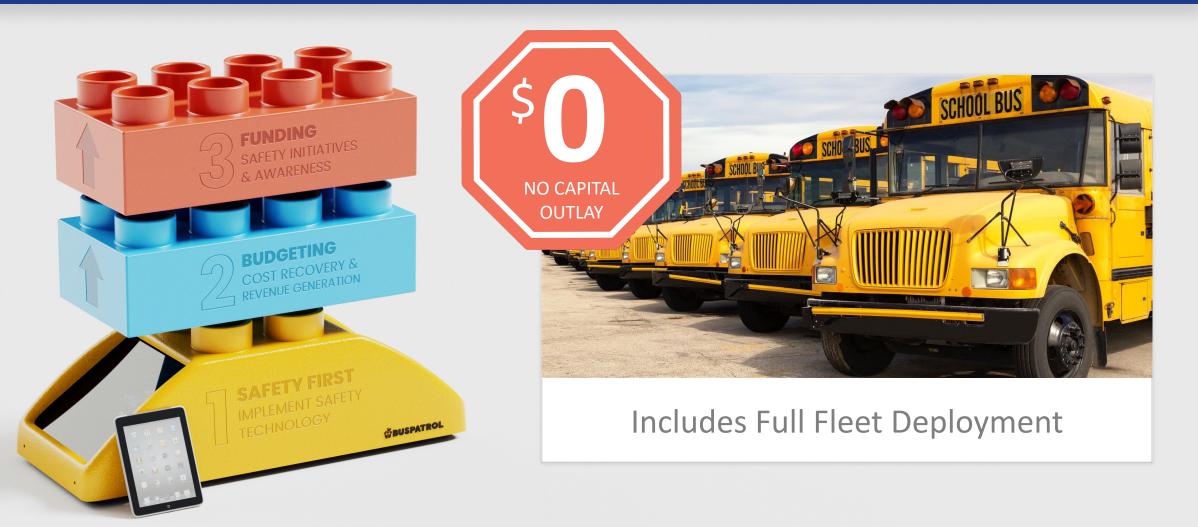




Safety-First Approach

Prioritizing Student Safety

Safety technology as a building block for enforcement, awareness and funding of future safety initiatives

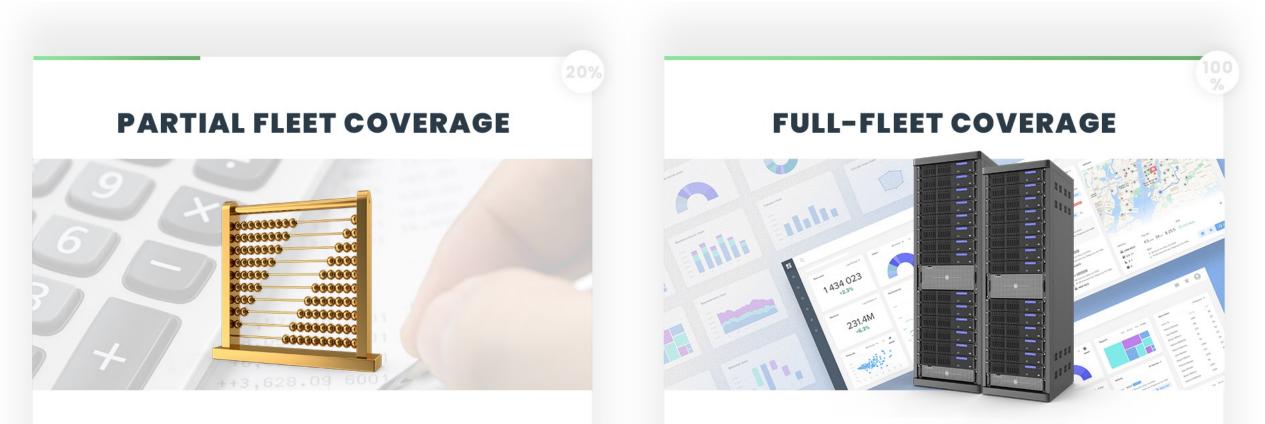




Full-Fleet Deployment

Prioritizing Student Safety

THE ONLY SOLUTION EFFECTIVELY REDUCING STOP-ARM VIOLATIONS AND MAKING COMMUNITIES SAFER.



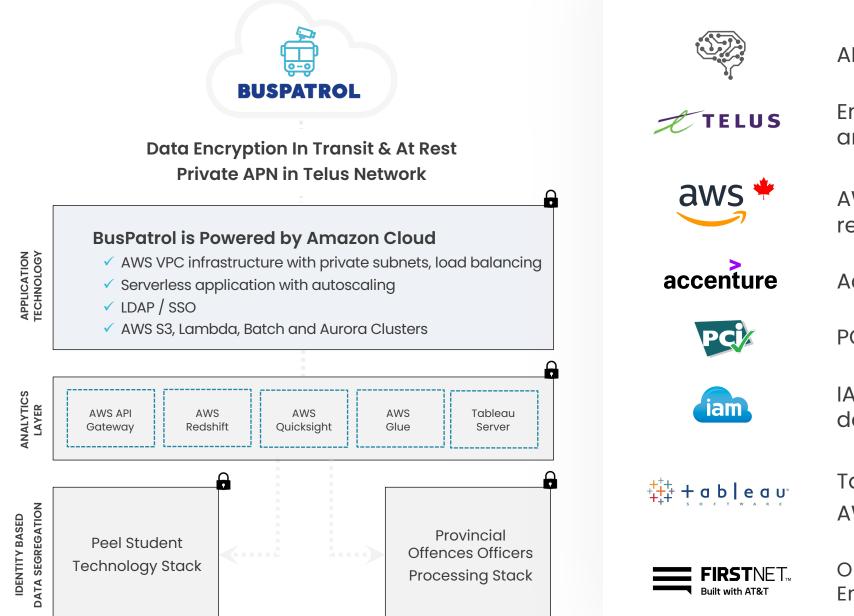
PROBLEM: CAN'T QUANTIFY REDUCTIONS

SOLUTION: COMPREHENSIVE, STABLE DATA

Our Architecture

Cloud Based, Secure & Scalable





Al-assisted technology

End-to-end encryption in transit and at rest

AWS Canada infrastructure with redundancy and disaster recovery

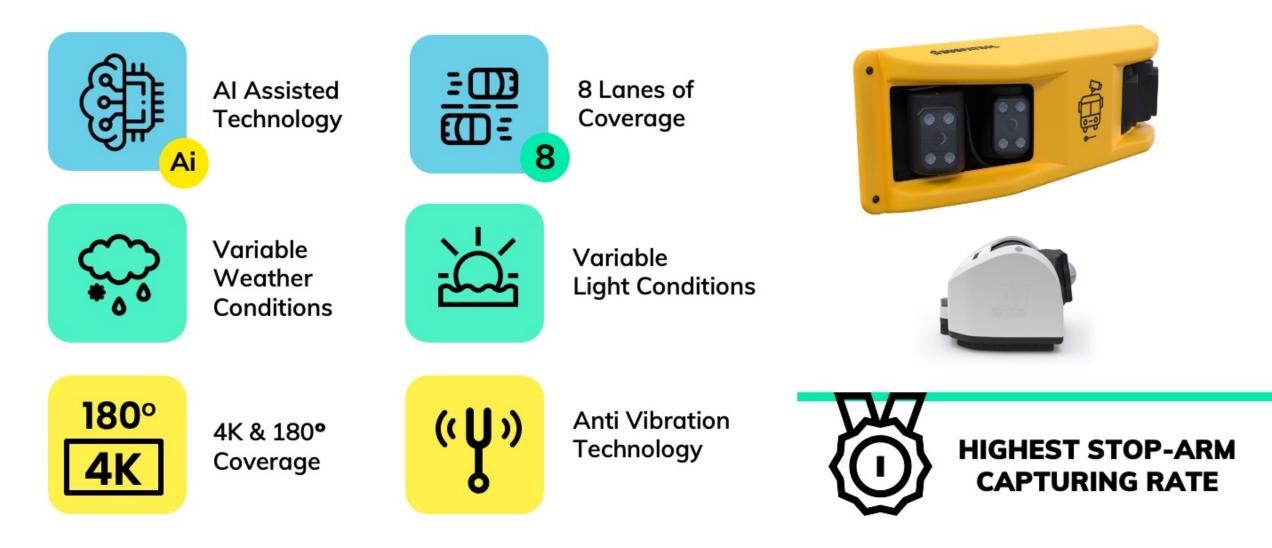
Accenture-verified cybersecurity

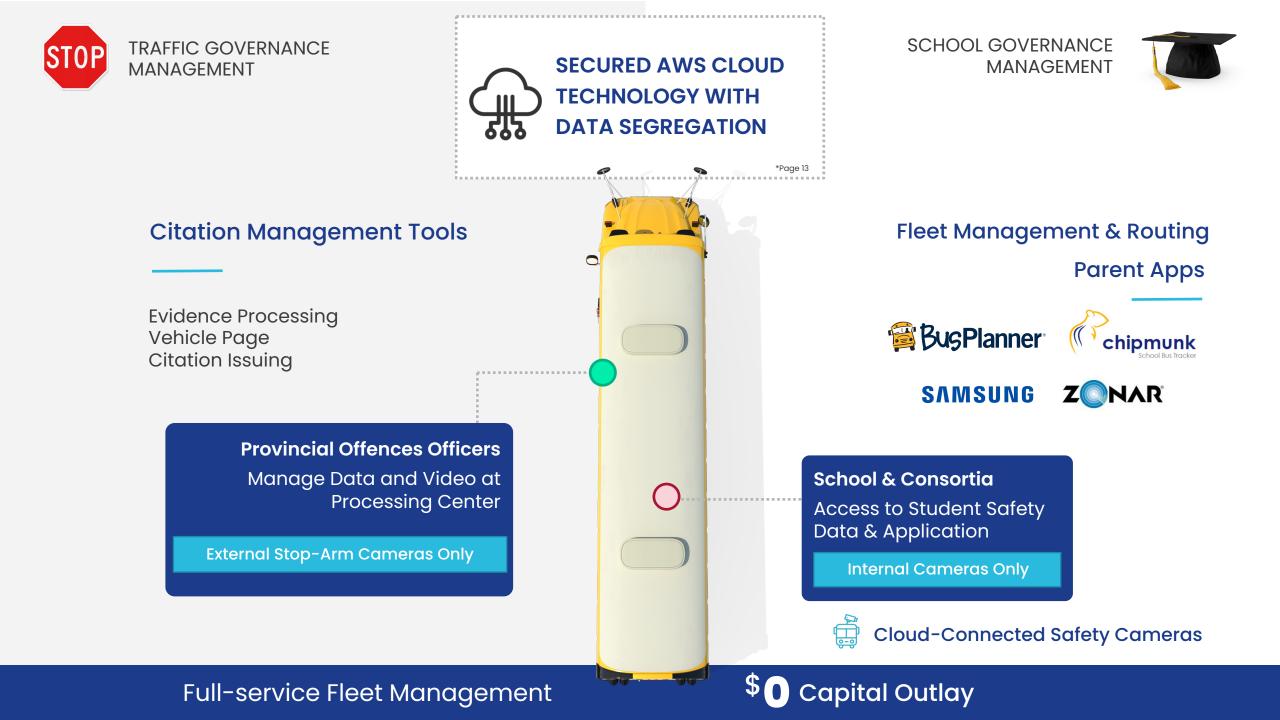
PCI & SOC 2 compliance

IAM based, physical segregation of data & video

Tableau reporting interface and AWS API gateways

Only company certified for Emergency Responder private network The stop-arm enforcement camera suite contains 3-5 high resolution cameras, optimized for performance in environments with variable weather and light conditions.





LEARN HOW OUR ENFORCEMENT PROGRAM WORKS

BUS ROUTE









Stop-arm camera is activated, while bus is in operation Overhead lights activated, bus stops & stop-arm deployed

Stop-arm violations are identified and recorded

PEEL REGIONAL PROCESSING CENTRE

Video, GPS and data are captured by BusPatrol AI

PROCESSING & REVIEW



BusPatrol AVA AI compiles video and evidence package

Provincial offence officers process stop-arm incidents

Provincial offence officers issue stop-arm citations

*BusPatrol has already deployed a program with municipal officers overseeing processing / ticketing

LEARN HOW OUR ENFORCEMENT PROGRAM WORKS

PEEL REGIONAL PROCESSING CENTRE



Ticket is mailed to offender with website containing link to access video evidence Driver makes payment online or at designated municipal office Citation revenue used to cover program expenses & invest in safety initiatives



Call Centre Available to Educate Drivers on Road Safety and Facilitate Citation Management and Collection

FULL-STOP ENFORCEMENT PROGRAM

MORE THAN TECHNOLOGY





SCHOOL DISTRICTS & CONSORTIA

100% Fleet Deployment Model

- ✓ Critical for consortia opt-in
- ✓ Equitable safety for all constituents



• Next-gen tech for schools that integrates to:

✓ Parent apps✓ Decision analytics

✓ Route planning
 ✓ Safety technology

• Millions in new safety technology

SCHOOL BUS OPERATORS

- Industry-leading hardware

 100% free to private operators
- Seamless and automated program
 - Management & processes
 - Deployment & maintenance



Integrated with fleet planning software



Our Approach

Schools First – Beyond Enforcement

INTEGRATED FLEET TECH SOLUTIONS

Accessibility to Technology for Schools

- Route Planning Software Solution
- Transportation Information Portal
- Map & Boundary Administration Software
- GPS Tracking & Analysis Module
- Redistricting Analysis Module
- Route Costing Capabilities
- BusPlanner Turns+
- Chipmunk Parent App
- Implementation, User Training & SAAS



BusPlannerTasks QBusPlannerMaps

Bus Planner GPS
 Bus Planner Finance

BusPlannerServer @BusPlannerWeb





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Community Awareness Program

PSAs and Educational Campaigns for Drivers – 30 Day Warning Period



Data Drivren Behavioral Change

Our Technology

The Best Hardware Demands the Best Software and Bundled Services to Support it.

Partner Portal

GPS & Reporting Tools

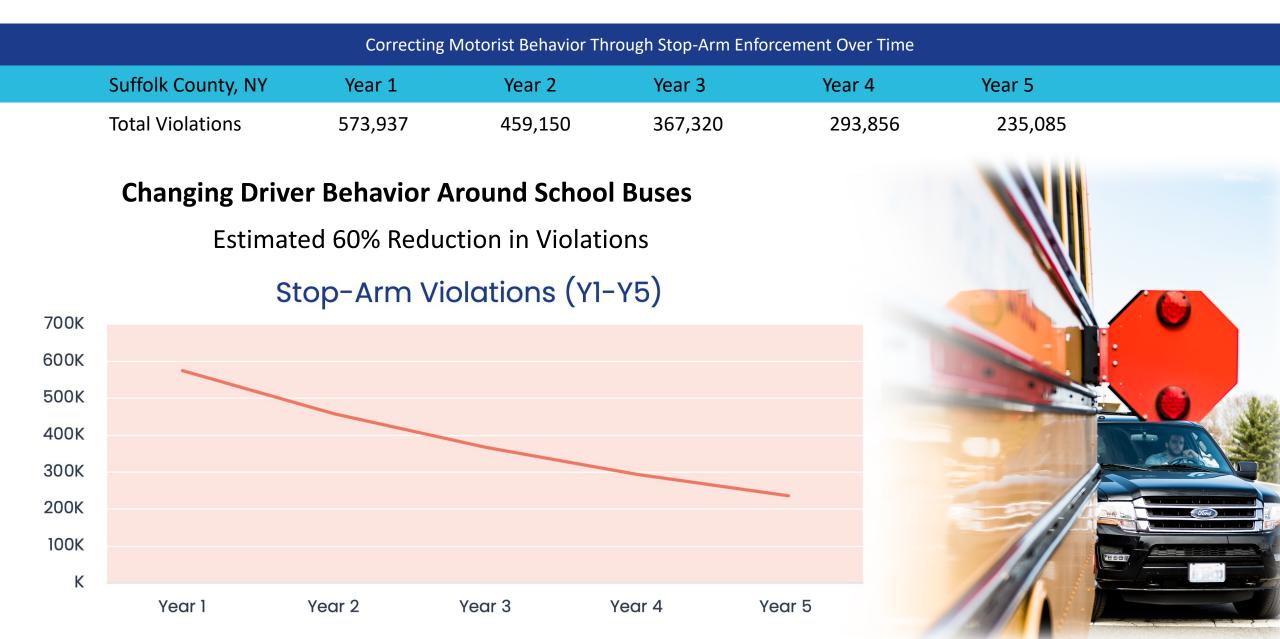
- Real-time GPS
- Historical GPS timestamps

BusPatrol AVL: Automatic vehicle locator GPS and accelerometer system provides real-time telemetry data.

Snail Trail: GPS telemetry data is saved so you can look up the historical location of the bus.



Ex. Suffolk Stop-Arm Violation Reduction Estimate





STUDENT SAFETY BENEFITS BEYOND ENFORCEMENT



Full-Fleet Safety Benefits

Safer Buses. Safer Kids.

FULL-FLEET MODEL IS INCLUSIVE AND PROVIDES SAFETY BENEFITS TO ALL STUDENTS



FULL-FLEET COVERAGE = 1382 BUSES



School Buses Have Not Issued Tickets

2 ROUTES A DAY AVG. 50 STUDENTS PER BUS

35,000 RIDERS BENEFIT FROM

ROUTING SYSTEM

INTERNAL SAFETY CAMERAS

REMOTE VIDEO ACCESS

REAL-TIME STREAMING

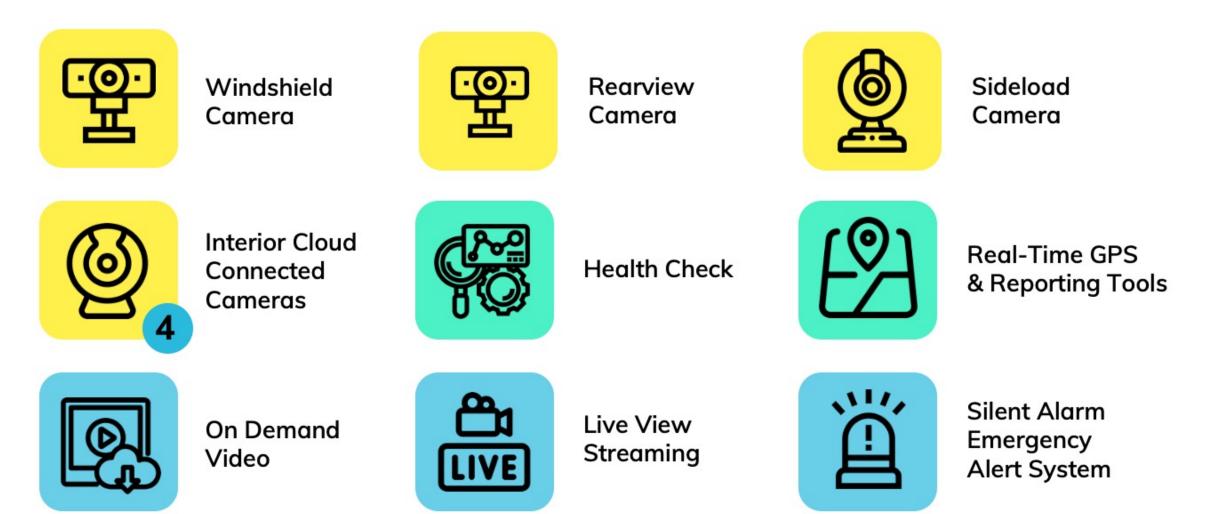
OPTIONAL SAFETY CAMERA VIEWS -

Optional safety cameras available at no cost to school districts and municipalities.

*Our solution is fully-customizable to meet our partners' needs and their school bus make and models.



The same technology that powers our stop-arm enforcement program enables school districts and municipalities to upgrade their fleet with supplementary safety technology:



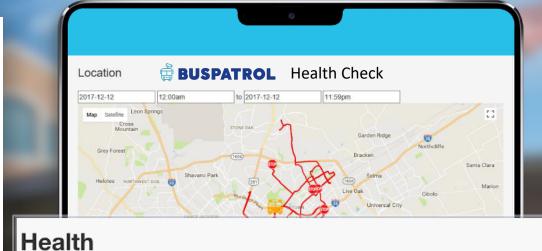
Additional Safety Features

Our Technology

The Best Hardware Demands the Best Software and Bundled Services to Support it.

Partner Portal Health Check

- Real-time overview of BusPatrol's pupil transportation technology and tools.
- Quickly review the status and functionality of cameras across your entire fleet to ensure optimal citation management.



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Additional Safety Features

The Best Hardware Demands the Best Software and Bundled Services to Support it.

Partner Portal On-Demand Retrieval

- Streamline video retrieval process by requesting video via BusPatrol Secure SmartCloud Ecosystem
- Cost saving allowance possible by decreasing man hours spent pulling video
- Security in knowing who has access to your internal video

Create a Video Request

« Back to Video Requests

Search for Vehicle	Request Start Date & Time	Description
Search for Vehicle	▼ MM/DD/YYYY 12:00 PM	Please enter a description of your request. (e.g. Traffic accident at Smith Rd. and Wes
Select Cameras	Request Duration @	Rd.)
Select Cameras	▼ 1	
	Camera Box Speaker Stop Arm Interior C	Submit Request
Camera #11	#8	Roof Mount
Interior Car		Antenna SCHOOL BUS
- <u>60 151 151 151 151</u>	12 12 12 12 12 12 12 19 11 1 P 15	
Side Loading	Box Camera #9 Fa	rward
Camera #13	W	indshield mera #12

Additional Safety Features

Our Technology

The Best Hardware Demands the Best Software and Bundled Services to Support it.

Real-Time Emergency Alerts

BusPatrol Silent Alarm triggers a notification link that provides important information including still images, GPS info, and live view.



SILENT ALARM

BUSPATROL SMS ALERT PANIC ALERT in: Springfield P **BUS ID: 514 CONSOLE LINK:** https://console.bus patrol.com/units/Z SA



Additional Safety Features

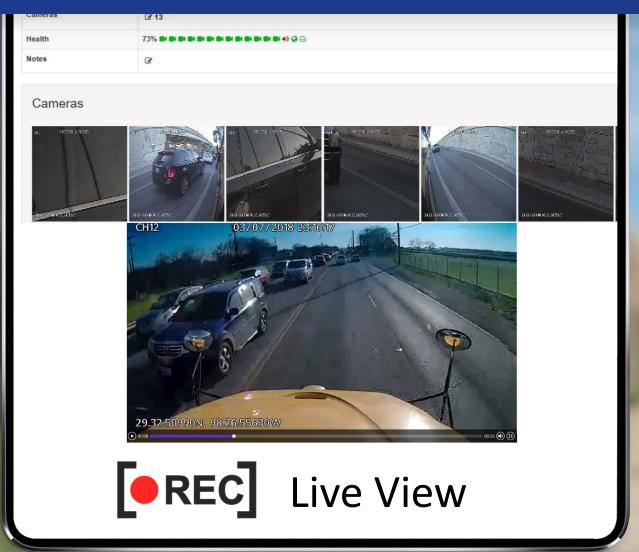
The Best Hardware Demands the Best Software and Bundled Services to Support it.

Partner Portal

Live View Streaming

Our exclusive capability allows school officials to remotely access live audio & video feeds from the school bus when incidents occur.

SAFETY FEATURE



SAFEGUARD YOUR ENTIRE FLEET AT NO COST

INTEGRATED SAFETY TECHNOLOGY SOLUTIONS

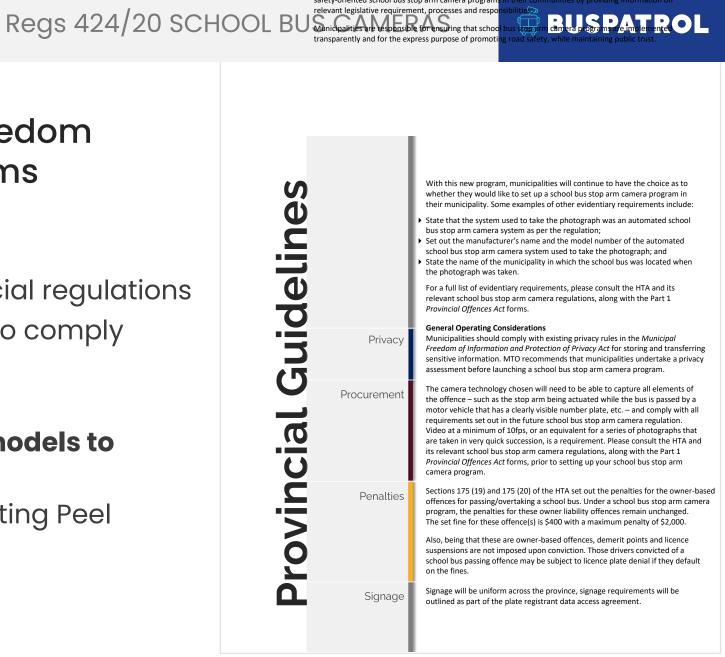
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The Ministry of Transportation (MTO) has drafted th safety-oriented school bus stop arm camera program

Respecting Ontario's Guidelines

Giving Municipalities the Freedom to Develop their own Programs

- BusPatrol's complies with all provincial regulations
 - Developing processing centres to comply with regs and guidelines
- North Bay can choose from three models to process stop-arm violations
 - Including joining BusPatrol's existing Peel 0 processing centre



Permits ALL stakeholders to benefit from BusPatrol's safety program

A Provincial Safety Milestone

Peel Processing Centre

• Deployed using:



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• Regional authorities

• City employees

City infrastructure

- Centralized provincial offences officers
- Who can join and what are the payment obligations?
 - Any municipality can join Peel's processing centre for seamless deployment of a BusPatrol safety program
 - Payment obligations are limited to and paid exclusively from stop-arm enforcement revenues including the required provincial offences officers.

BENEFICIAL TO MUNICIPALITIES WITH LIMITED FLEET SIZE (COSTS VS. TICKET REVENUE)

Stop-Arm Enforcement Processing

1. JOIN PEEL PROCESSING CENTRE

Streamlined and Seamless Enforcement

- Centralized management and implementation of processing centre including required provincial offences officers
- MOU and negotiations required with Peel on fine revenue distribution

2. DEVELOP REGIONAL PROCESSING CENTRE

- ✓ Existing policies already in place for fine revenue sharing and distribution
- Time required to coordinate with municipalities, region and BusPatrol to implement the regional processing centre

3. DEVELOP NORTH BAY PROCESSING CENTRE

- ✓ Increased independence from region and other processing centres
- Limited revenues vs. costs for provincial offenses officers
- Time and resources required to coordinate BusPatrol to implement
- Coordination required with MTO to implement local processing centre



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98% OF THE VIOLATORS WHO GET A TICKET VIA THE STOP-ARM CAMERA PROGRAM DON'T ILLEGALLY PASS A SCHOOL BUS A SECOND TIME.

ONCE THEY KNOW THE LAW IS BEING ENFORCED, THEY STOP.

Contact Us

Thank You!

Contact us:

Roberto Rego VP BUSPATROL

+1 (450) 806-4725 roberto@buspatrol.com

BUSPATROL.COM

FOLLOW OUR MISSION: 👔 🔰 in 🙆 🕨