

eBook

# 3 Ways Telematics Improves Fleet Management for Education

How technology helps control costs and improve student and driver safety



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# The road to safety and efficiency

**With precious cargo onboard, safety is a top priority for school transportation fleet managers. They also have the opportunity to run their fleet efficiently and in an eco-friendly manner while controlling costs.**

Fleet managers have access to innovative ways to make the most of limited resources to meet daily challenges, and they are increasingly turning to telematics to help improve the safety and efficiency of their school bus fleet. In fact, telematics in the education space is predicted to reach 98% penetration by 2025.<sup>1</sup>

This eBook explores the major factors impacting the management of vehicles in academic institutions. Learn more about how telematics can help keep drivers and students safe while boosting fleet efficiency and reducing costs.



# Make student safety your top priority

**Safely transporting students requires strict adherence to standards of safe driving and vehicle operation. Telematics technology can help fleets improve overall safety in these ways.**



## Track buses in near-real time

Tracking enables school officials to notify parents of actual bus arrival times to reduce student waiting time outside, which is especially helpful in bad weather.



## Monitor driver behavior and activities

- Track whether drivers adhere to speed limits, take unauthorized detours and engage in unnecessary harsh braking and acceleration.
- Monitor seat belt use, door openings and closings, stop-arm operation and parking brake engagement.
- Use data to coach drivers on safer driving, improve training and onboard new drivers.



## Optimize bus routes

Determine the best drop-off and pick-up locations and update routes in near real-time to avoid traffic, hazardous weather or other potential issues.



**About 17,000 children are treated annually in hospital emergency rooms for injuries associated with school buses.<sup>2</sup>**

# Improve efficiency and reduce costs

School districts and bus transportation operators need to stretch every dollar, and budgeting can be especially challenging for education fleets. Telematics can help increase fleet efficiency while lowering operational expenses.



## Insurance

When part of a fleet safety program, fleet management technology can help in negotiating lower insurance premiums by using collected data to coach drivers on safer driving habits.



## Maintenance

Stay ahead of preventative maintenance with timely repairs to help improve performance and reduce downtime, which can help in avoiding costly breakdowns.



## Wear and tear

Help reduce wear and tear and prevent premature and avoidable breakdowns with more efficient routes and driver coaching to reduce harsh driving.



## Fuel usage

Reduce idling time, speeding and inefficient routing to increase miles per gallon.



Implementing a telematics solution can help reduce fuel costs by up to 25%, reduce vehicle idle times by up to 30%, reduce total miles driven by up to 10% and increase vehicle utilization by up to 20%.<sup>3</sup>

# Boost accountability, flexibility and simplify compliance

**Telematics empowers school bus fleets to make other impactful and long-term improvements to their operations:**



## **Go greener**

Optimize routes and track vehicle use data, such as engine idling, speeding and fuel consumption, to reduce environmental impact, polluting emissions and the fleet's carbon footprint.



## **Streamline asset tracking**

Use tracking to better manage bus inventory and in-vehicle equipment.



## **Simplify compliance**

Simplify compliance with state and federal regulations by automating recordkeeping and data collection, helping to eliminate paper reporting.



## **Address emergency and last-minute needs**

Fleet visibility gives the ability to instantly change routes and schedules.

## **Did you know?**

**Idling buses can produce concentrated diesel exhaust emissions inside and outside schools. The soot and gases emitted by diesel engines are associated with acute eye, throat, and bronchial irritation; exacerbation of asthma and allergies; and potential interference with children's lung development.<sup>4</sup>**

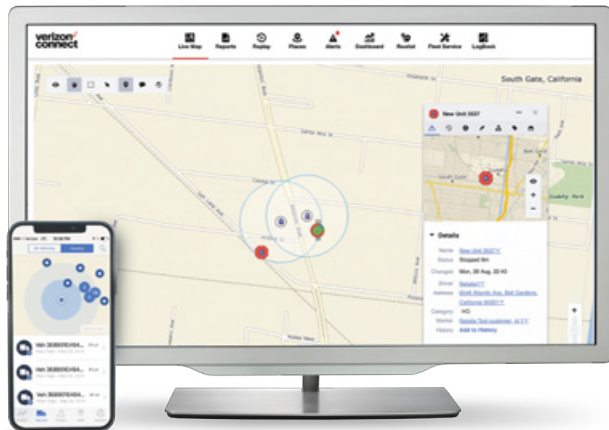
**Telematics can help you monitor and reduce unnecessary and damaging idling.**



# Use smart data to help manage your fleet

Verizon Connect provides the reliable, timely data you need to locate school buses when needed, track driver behaviors like speeding, and maintain and inspect vehicles per your district's policy.

Call us at 866.844.2235 or visit [verizonconnect.com](http://verizonconnect.com) to schedule a live demo.



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Verizon Connect is guiding a connected world on the go by automating, optimizing and revolutionizing the way people, vehicles and things move through the world. Our full suite of industry-defining solutions and services put innovation, automation and connected data to work for customers and help them be safer, more efficient and more productive. With more than 3,500 dedicated employees in 15 countries, we deliver leading mobile technology platforms and solutions.

To select the telematics system that best meets your fleet's specific needs, look for solutions that offer:

- Access from virtually anywhere.
- The ability to view data and maps on any device at any time.
- Detailed maps viewing near real-time activity of all vehicles, drivers and equipment.
- Easy-to-use dashboards reporting up-to-the-minute fleet activity.
- Driver behavior data to give fleet managers coaching tools.

<sup>1</sup>[https://www.researchandmarkets.com/research/f97b47/north\\_american?w=4](https://www.researchandmarkets.com/research/f97b47/north_american?w=4) <sup>2</sup><https://www.stanfordchildrens.org/en/topic/default?id=how-safe-is-the-school-bus-1-1133> <sup>3</sup>Custom Research from Frost & Sullivan LCV Telematics Market. November 2015 <sup>4</sup><https://nepis.epa.gov/Exec/zyPURL.cgi?Dockey=P10039SV.txt>

