



# The ROI of GPS-Driven Transportation Optimization Solutions

*An Everyday Solutions Whitepaper*

Real-Time

AVL

STUDENT  
ACHIEVEMENT

PARENT  
NOTIFICATION  
rider attendance

SAFETY

route optimization

SAVINGS

SAFETY

ISSUE MANAGEMENT

alerts

FIELD TRIP  
MANAGEMENT

GPS

AVL

EFFICIENCIES

DRIVER TIME & ATTENDANCE

Real-Time

INSPECTION MANAGEMENT



## SUMMARY

As budgets shrink school transportation officials across North America are under constant pressure to do more with less. The rising cost of fuel puts even more strain on a limited budget. Fortunately, proven technology solutions can provide immediate financial relief in this budget year.

GPS-driven student transportation optimization systems, provided by Everyday Solutions, have proven to be an effective way to increase the accuracy and efficiency of capturing driver time and attendance while also reducing school bus idling, speeding and route inefficiency. This technology has enabled districts to get significant budget relief in the first year of deployment and ensure that the new baseline can be maintained and improved over time.

Districts that have implemented Everyday Solutions now enjoy the tremendous benefits and wished that they had started sooner. The cost of delay is significant – unnecessary transportation related expenses, especially related to driver time and attendance and fuel will continue to erode learning opportunities in the classroom.

Three applications from the Everyday Solutions Product Suite will be profiled in this white paper:

- **EveryTime™** - a Web-based Time and Attendance software solution that streamlines the collection and management of time worked by bus drivers and other transportation employees.
- **EveryPoint™** - an intelligent GPS system that captures critical school bus specific data and communicates that information in real-time to the district at the lowest cost.
- **EveryWhere™** - powerful AVL software that provides real-time and historical reports and maps showing vehicle location, exact speed, stop duration, actual routes paths and much more.

This whitepaper illustrates the cost savings that can be recognized with student transportation optimization systems from Everyday Solutions.

## EveryTime™ TIME AND ATTENDANCE SOFTWARE

There are two direct cost benefits of implementing Everyday Solutions' time and attendance software.

### 1. Enhance Operational Efficiencies

With paper-based time sheet systems; each employee manually fills-in their time sheets. These time sheets are then manually keyed into a spreadsheet by an administrator at each bus depot or landing site. Next, all spreadsheets must be manually consolidated into a master spreadsheet. The master spreadsheet is then uploaded into the district's payroll application. This labor-intensive end-to-end process is very time consuming and error-prone.

With an automated electronic solution, drivers enter their time sheets which are then stored in a database. Managers can review and approve time sheets on-line. Time sheet reports are simple to produce and managers can easily go back and review historical



time sheets as necessary. Thereby providing an accurate and seamless time data feed to your existing payroll system.

**2. Improve Accountability and Accuracy**

While most employees do an honest day’s work for an honest day’s wage, there are always some individuals who aggressively round time up or blatantly record more hours than they really worked. By using the power of GPS, your district can accurately record the actual time that the driver worked. Entry errors and fudging the numbers will no longer be possible.

The table below illustrates the annual savings realized with EveryTime due to enhanced time reporting efficiencies and improved accountability and accuracy.

<b>Annual Savings with EveryTime™ - Time and Attendance Software</b>	
Average Hours Worked per Driver per Day	6
Total School Days	180
Average Hours Worked per Driver per Year	1,080
Average Driver Wage per Hour	\$14.25
Number of Drivers, (Not including Transit Aides)	200
Minutes Saved per Driver per Day	15
Hours Saved per Driver Per Year	45
<b>Annual Savings for All Drivers - Accountability and Payroll Accuracy</b>	<b>\$128,250</b>

Figure 1: Savings and Payback from implementing EveryTime™ time and attendance software

**EveryPoint™ GPS and EveryWhere™ AVL SOFTWARE**

There are two direct cost benefits of implementing Everyday Solutions’ GPS and AVL solution.

**1. Fuel Savings from Reducing Engine Idling**

According to the Environmental Protection Agency (EPA), school buses burn 1 gallon of fuel for every hour of idle time. In addition to saving fuel, reducing idle time also protects children from breathing harmful diesel exhaust fumes that can accumulate in and around buses. Children breathe 50 percent more air per pound of body weight compared to adults. Exposure to particulate matter in diesel exhaust, especially fine particles, is associated with increased frequency of childhood illness such as asthma. Many U.S. states have instituted vehicle idling laws, which limits vehicle idling to no more than five minutes in some states and three minutes in others. While it is difficult to put a dollar value on cleaner air, you can see from Figure 2 below the significant projected dollar savings associated with monitoring, measuring and managing idle time.

**2. Save Fuel by Reducing Route Miles**

By comparing planned routes vs. actual routes, transportation officials will easily be able

to identify all route deviations that add extra route miles. This system will enable you to further optimize your routes and assist in minimizing dead-head miles.

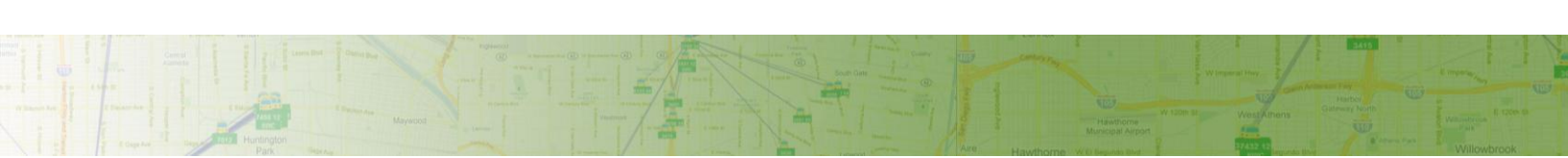
<b>Savings with EveryPoint™ and EveryWhere™</b>	
Idle Time Reduction Minutes per Bus per Day	15
Gallons Saved per Bus per Day	0.250
Fuel Savings per Bus per Day	\$0.80
<b>Total Annual Savings based on Reduced Idling</b>	<b>\$28,710</b>
Estimated Mileage Reduction Per Bus, Per Day	3.00
Mileage Reduction per Bus per Year	540
Current Fuel Cost (per Gallon) *Source www.fuelguagereport.com	\$3.19
<b>Total Annual Savings based on Reduced Mileage</b>	<b>\$57,420</b>
<b>Total Annual Savings on Fuel Costs for Entire Fleet</b>	<b>\$86,130</b>

Figure 2: Saving and Payback from Reducing Idling and Route Mileage.

## REALIZE OVER \$200,000 IN SAVINGS THE FIRST YEAR

<b>Summary of Total Savings from Everyday Solutions</b>	
Total Annual Savings based on Driver Accountability & Payroll Accuracy	\$128,250
Total Annual Savings based on Reduced Idling	\$28,710
Total Annual Savings based on Reduced Mileage	\$57,420
<b>Total Annual Savings with Everyday Solutions</b>	<b>\$214,380</b>

Figure 3: Savings and Payback from deploying EveryTime™, EveryPoint™ and EveryWhere™



## OTHER ECONOMIC BENEFITS

The savings shown in figures 2 and 3 above are based solely on reducing fuel consumption, increased efficiencies and accountability of driver payroll.

Additional substantial savings will also be realized from an Everyday Solutions System due to the following:

- Reduced bus wear and tear
- Lower maintenance costs
- Reduction in total fleet size while serving the same rider population due to more efficient routes
- Reduced fuel consumption and miles driven for field trips and summer school simply because drivers know that you have the management tools in place to monitor and measure their performance
- Increased administrative efficiencies. With real-time accurate information, you'll be able to respond to complaints from parents and principals immediately

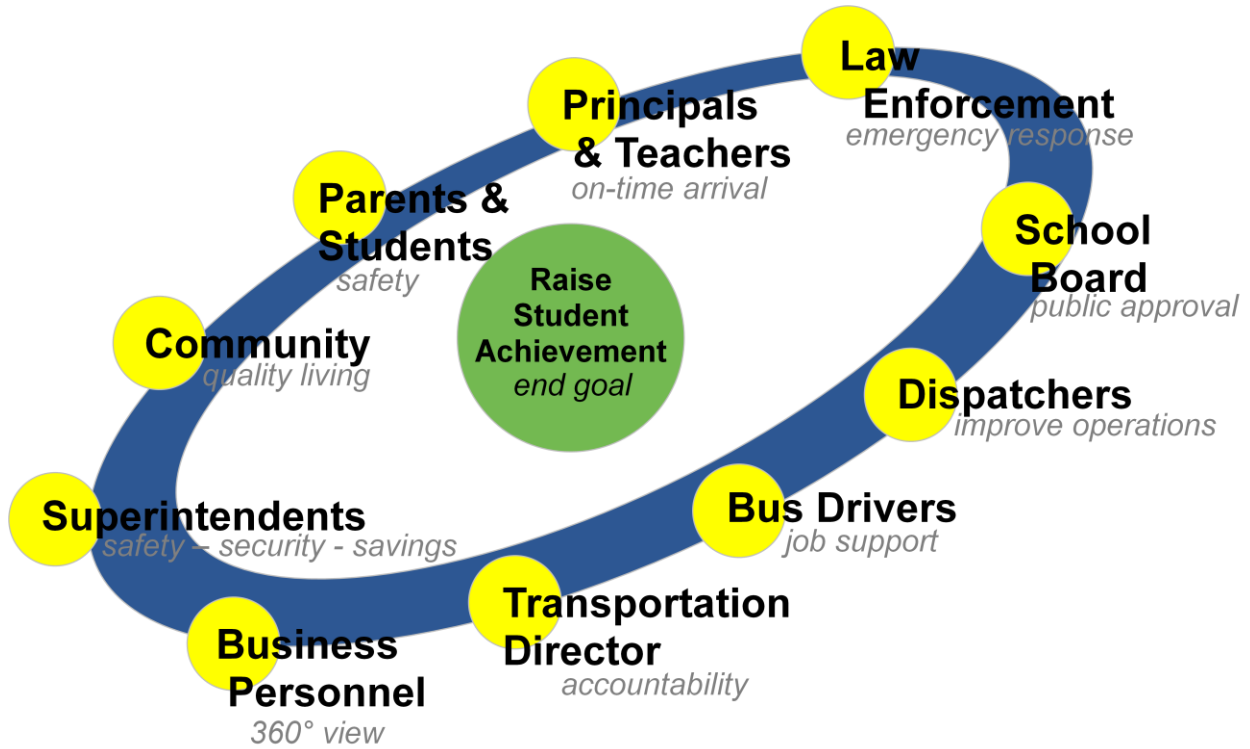
## SIGNIFICANT ROI

The numbers don't lie. These compelling returns on investment calculations prove that you can't afford NOT to implement the Student Transportation Optimization System from Everyday Solutions. Contact us today at 888.984.4000

Call us today for an ROI analysis that's customized for your school district at **888.984.4000**.



## The Many Benefits of GPS to Many Stakeholders



## MAKE OPTIMIZING SCHOOL TRANSPORTATION AN EVERYDAY OCCURRENCE

To learn more about how your district can start saving money, contact us now:

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