

# Driving Fleet Safety, Efficiency and ROI Through AI-Driven Video Telematics

## INTRODUCTION

A major light commercial vehicle (LCV) OEM partnered with LightMetrics to enhance its connected truck offerings with a high-ARPU, cutting-edge safety solution: RideView. In an industry where driver behavior, compliance, and operational efficiency directly affect the bottom line, this collaboration enabled the OEM to deploy an innovative, privacy-conscious, and AI-driven video telematics system—delivering measurable safety improvements and fleet-wide performance gains

## CHALLENGES

Fleets, particularly in last-mile delivery and inter-city logistics, face increased scrutiny over safety, insurance fraud, and total cost of ownership (TCO). The OEM needed a reliable, factory-fitted solution that:

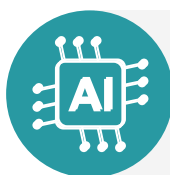
- Reduced risky driving behavior and accident rates
- Improved driver accountability and coaching
- Delivered quick GTM and supported mixed fleets (older/newer trucks, multiple geographies)
- Enabled monetization of connected services via high-ARPU offerings
- Ensured regulatory compliance and data privacy

## THE SOLUTION: RIDEVIEW BY LIGHTMETRICS

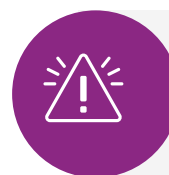
LightMetrics introduced RideView, a software-first, AI-enabled video telematics platform designed for easy OEM integration:



Factory-installed or after-market options (with custom or OEM cameras)



Edge AI for automated triaging and real-time coaching



Customizable in-cabin alerts and risk scoring



Privacy-first with face/cabin blurring and GDPR compliance



Seamless cloud integration and intuitive fleet/master portals

## IMPACT AND RESULTS



Fleets, particularly in last-mile delivery and inter-city logistics, face increased scrutiny over safety, insurance fraud, and total cost of ownership (TCO). The OEM needed a reliable, factory-fitted solution that:

### 1. Drastic Reduction in Risky Driving:

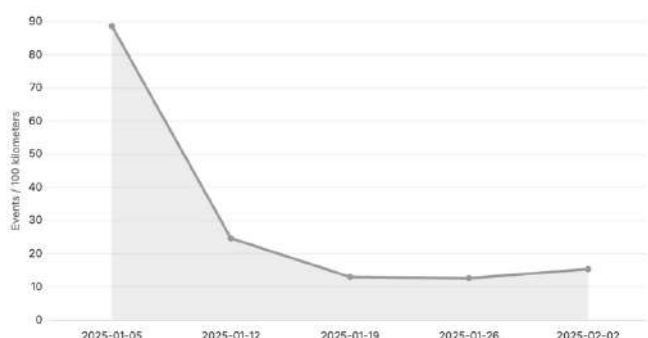
To enhance driving behavior, real-time in-cabin ADAS and DMS alerts were implemented, leading to an **85%** reduction in total events, including a **99%** drop in over-speeding and significant decreases in driver distraction, tailgating, and harsh braking.

### 2. Improved Driving Behaviour Over Time:

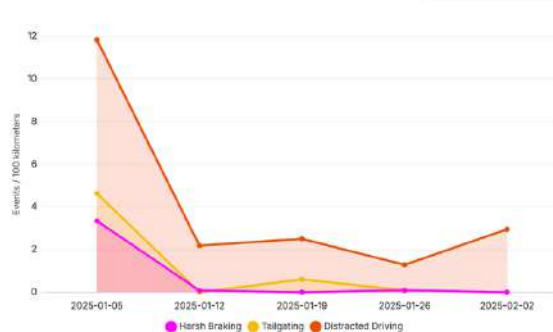
Data from a fleet in production dA 90-day production fleet study showed a consistent decrease in risky events per 100km, with significant reductions in speeding and FCW incidents, and moderate improvement in tailgating.

TRIPS 215	DISTANCE (km) 4446	EVENTS PER 100 KILOMETERS 23.28 ↓ -86.77 %	DURATION (hours) 174
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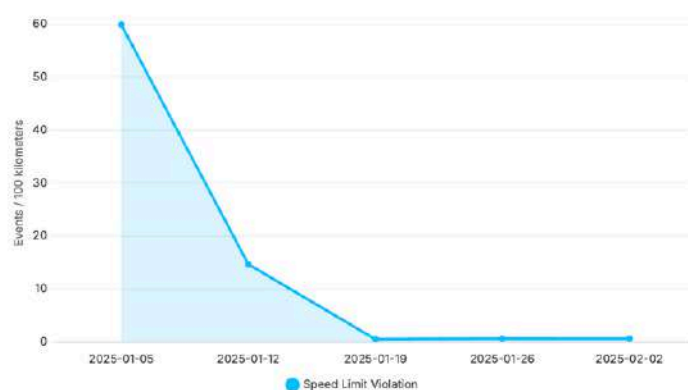
Event Trend ⓘ



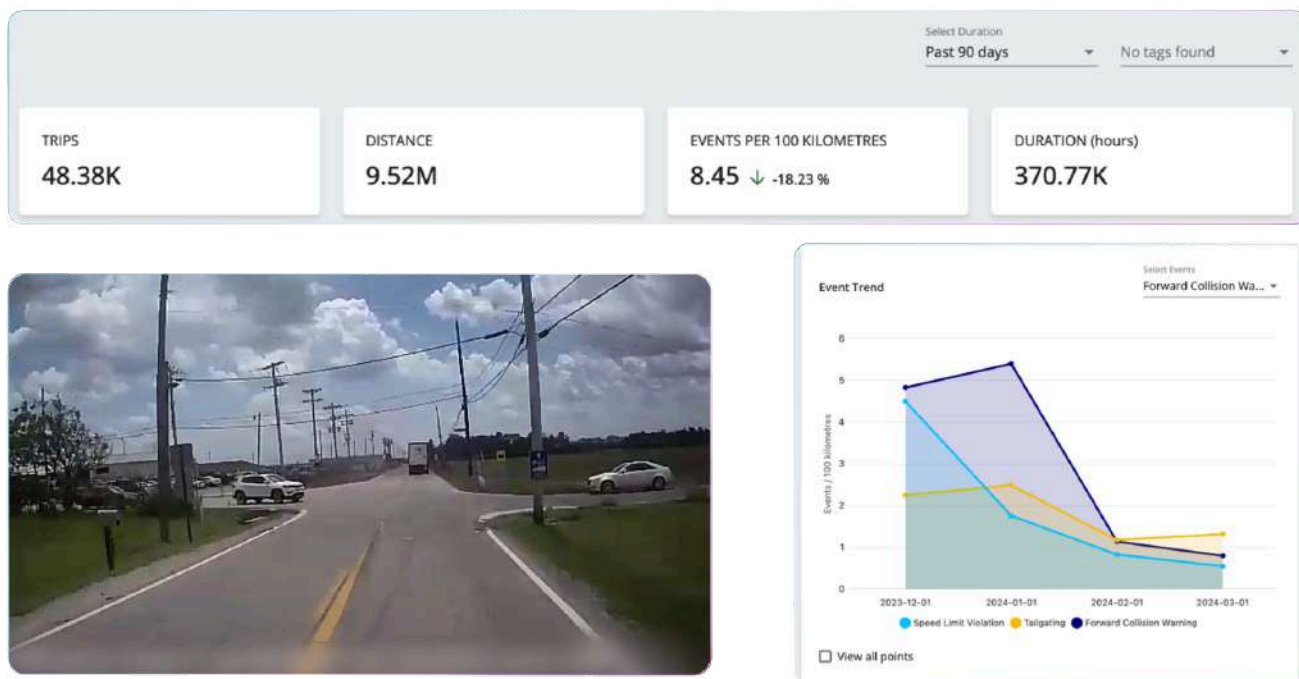
Event Trend ⓘ



Event Trend ⓘ



**3. Substantial Decrease in Crashes and Injuries:** In a large utilities fleet with over 3500 power units, comparing one year before and one year after deploying RideView:



Metrics	Before RideView	After RideView	%Change
Crashes	26	16	38%
Injuries	15	4	73%

#### 4. Enhanced Efficiency and Cost Savings:

Proprietary video compression:  
Stores weeks of data (vs. hours),  
uses 50% less data, and offers 2.5x  
storage on the same SD card,  
cutting costs.

Reduced insurance premiums, fuel  
savings, and lower maintenance  
costs ensure a strong ROI for  
fleets.

**5. High Accuracy of AI Detection:** The AI engines are tuned for higher precision to minimize false alerts. Performance numbers indicate high accuracy for various detections:

#### Performance numbers

<ul style="list-style-type: none"><li>Datasets used for benchmarking comprises of different scenarios including hard cases that are observed in the field.</li><li>The engines are turned towards higher precisions to ensure false alerts are as less as possible.</li><li>Smoking, Drinking are currently in Beta</li></ul>	Real-Time Alert	Precision	Recall
	Cellphone Calling	99%	93%
	Stop Sign	99%	97%
	Owl Distraction	96%	91%
	Drowsy	97%	93%
	Lizard Eye	98%	87%
	FCW	99%	96%
	Tailgating	99%	97%
	Seat Belt	99%	92%
	Speed Sign	99%	93%
	Texting	89%	76%

## IMPACT



The collaboration with LightMetrics has positioned the OEM at the forefront of fleet safety innovation. With RideView, they're not just enhancing safety—they're **monetizing safety** through a smart, privacy-conscious, and software-first approach.

Whether you're curious about how RideView On-Demand video works or want to understand the ROI for your fleet → **Schedule a 1-on-1 with our team .**



RIDEVIEW



Contact  
or visit  
[www.lightmetrics.co](http://www.lightmetrics.co)