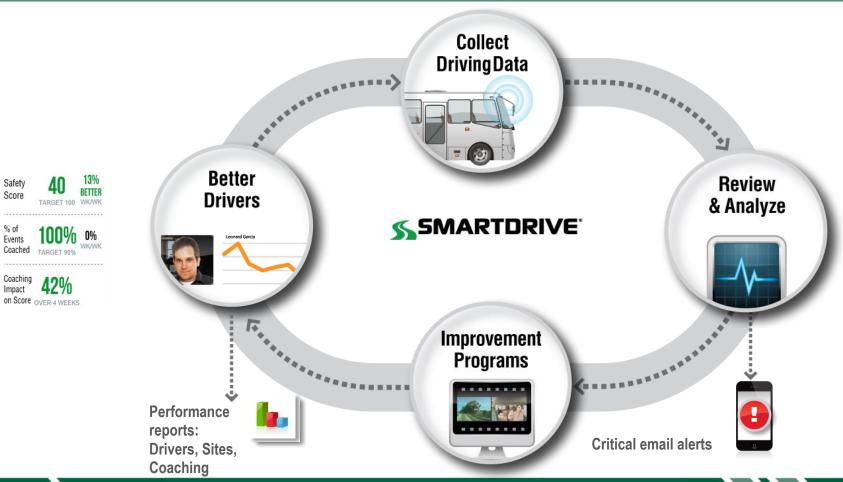
Video Based Safety Programs Smarter Driving. Better Fleets.



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Video Based Safety Programs

Designed to optimize safety and compliance



Flexible: Link to Definitive Operator Performance Data

Video & Audio

Vehicle Maneuvers

Location

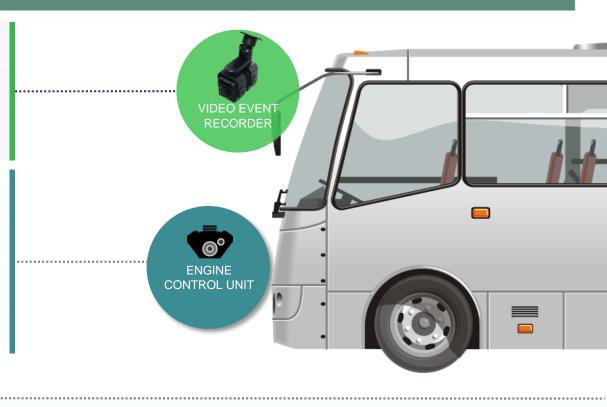
Active Safety (ADAS)

Miles & Hours Driven

Fuel Use

RPM, IDLE & PTO

Brake & Throttle







KEYPAD

COMBINED CAMERAS



CONFIGURATION APP



SENSOR BAR

CONTROLLER



Optional Equipment

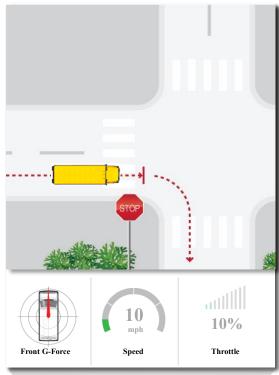
Required Equipment

Sensor Fusion: Assessment of Driving Skills

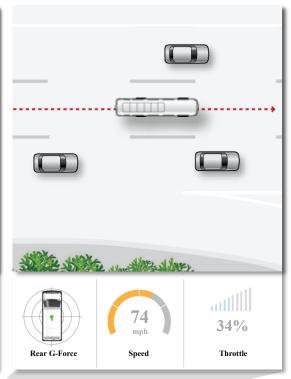
Cornering



Braking / Acceleration



Speed











Hard Left Turn: Failure to Attempt Stop at Light



Sensor Fusion: Leverage the intelligence already in your vehicle







Detection

DISTANCE







COLLISION **AVOIDANCE**

LANE DEPARTURE

ROLLOVER **STABILITY**





horn, ramp, dome light, seatbelt sensor, turn signal





SmartDrive Video Player brings Active Safety information together with video for unified view.

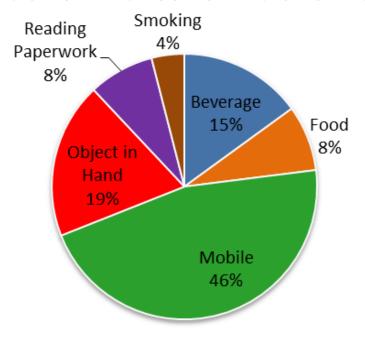
*J1939 Protocol 2009 or newer

Sensor Fusion: Mobileye Pedestrian Detection



Transit: Distracted Driving Leads Risky Driving Behavior

Distraction Rates for Public Transit



Most Common Distractions for Drivers in Public Transit

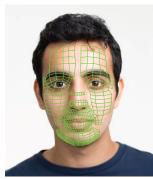
Mobile phone usage is most common distraction for public transit at 46%

IMPACT:

23% of all collisions in 2011 involved mobile phone usage, resulting in 1.3 million collisions, according to NSC

Sensor Fusion: Stop distraction and drowsiness at the source

- Assess face and eye position using computer vision technologies
- Record situations that wouldn't be captured otherwise
- Review to confirm risk, prioritized for fleet action



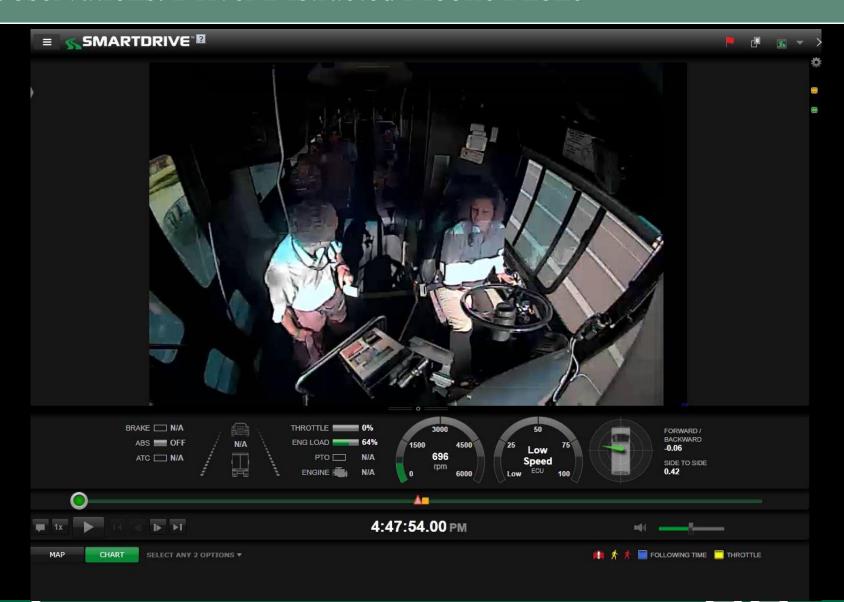
Facial
Analysis
3D Mapping
IR Facial
Analysis





Trigger: Eye's off Road

Observations: Driver Distracted Mobile Phone



Expert driving analyst reviews driver performance

Fundamental Driving Errors

Unprofessional Driving

- Unsafe Backing
- Unsafe Braking
- Unsafe Lane Change / Merging / Passing
 - Unsafe Railroad Crossing
 - Unsafe Turning
 - Lane Departure/Straddling Lanes
 - Competitive/Aggressive Driving
 - Driving the Wrong Way On Roadway
 - Driving the Wrong Way Off Roadway
 - Curb Check/Jumped Curb

Vehicle Control

- Driving with Two Hands off Wheel
- Unattended Moving Vehicle

Stopping

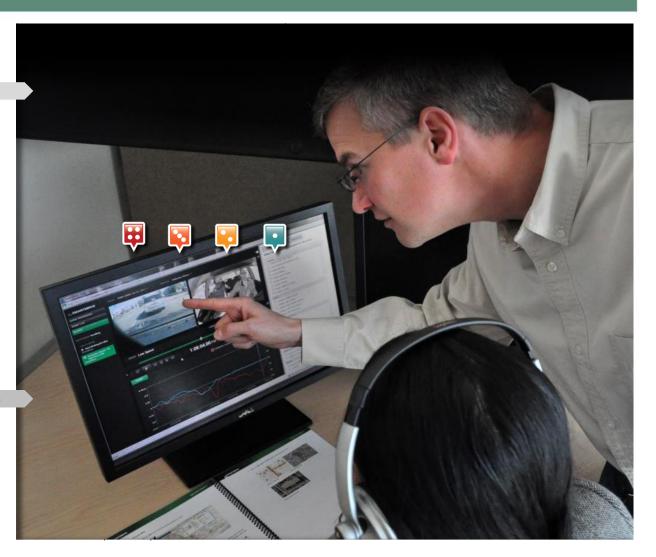
- Incomplete Stop at Light
- Incomplete Stop at Stop Sign
- Failure to Attempt to Stop at Light
- Failure to Attempt to Stop at Stop Sign
- False Start
- Failure to Yield to Pedestrian(s)
- Failure to Yield to Vehicle(s)

Speeding

- Moderate Speeding (≤ 10 mph Over Limit)
- Excessive Speeding (> 10 mph Over Limit)
 - Exceeded Maximum Fleet Speed

Situational Awareness

- Unsafe Following (≤ 1 second)
- Unsafe Following (1.25 2 seconds)
- Unsafe Following (2.25 3 seconds)
- Unsafe Following (3.25 4 seconds)
- Not Checking Mirrors
- Not Scanning Road Ahead
- Not Scanning Intersection



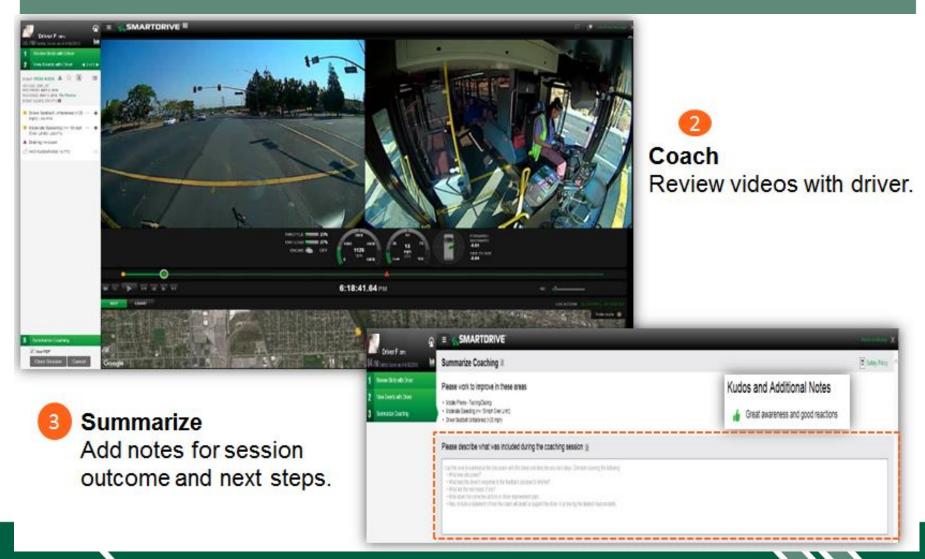
Better insights for effective coaching



Trends

 Historical view of driver performance.

Driver Performance Coaching



Proactive video safety program results . . .







Distractions

-59%



Fatigue

-74%



Speeding

-69%



Close

F-07/5/1/19



...Collision Frequency lowered by over $50_{\%}$



Smarter Driving. Safer Agencies.



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