Research & Practical Findings to Reduce Distracted Driving









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Perdue's Private Fleet

- >800 Power Units, 30 Straight Trucks, 2000 Trailers
- >750 (+) Commercial drivers
- >600 Non-Commercial vehicles, (Sedans, Pickup, etc.)
- >VMT, 40 MM Commercial / 14MM Non-Commercial.

Our entire commercial fleet has "Vehicle Based Video Technology". We also strategically use a host of other vehicle based safety technology.

Distracted Driving Vehicle Based Safety Systems

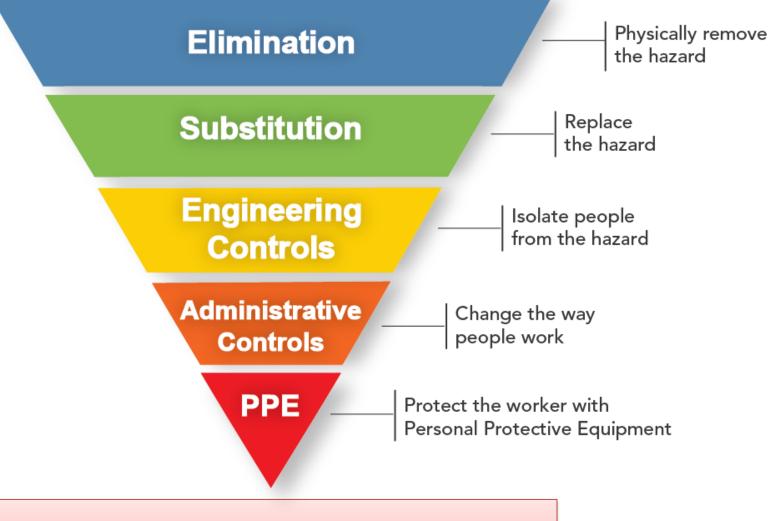
Know what you want to achieve......

- Driver Behavior management?
- Maintain compliance with changing rules & regs?
- Reduce accidents and risk exposure to litigation?
- Action based improvement required by insurance?
- Reduce the cost of accidents?
- Driver acceptance to add technology



Most effective

Hierarchy of Controls



Least effective

Distracted Driving

ELIMINATION

Fleet Utilization

- Increase Payload (Aluminum Trailer)
 - FY18 Reduced 647 loads (\$90,500.00)



 Working is the various states increased payload from 84,000 – 90,000 Lbs.



Adding the 3rd axle increased payload to 87,000 Lbs.

















SUBSTITUTION

- Change over to "Auto-Shift" trucks
 - –Hands on wheel
 - Less cognitive process
 - Less fatigue

- Fatigue reducing seats
 - Lumbar and side support



Engineering Controls

Collision Avoidance

- Passive and Active (Autonomous) Intervention
- (FWD Radar; Lane Departure & Blindside)
 - Alert for slower or stopped vehicles ahead
 - See through fog and alert to vehicles ahead
 - See and alert for unintentional lane drift / departure





Engineering Controls

In-Cab Driver Alerts

- Lane Departure
- Forward Collision
- Blind Side Spotter

Speed Governance / Speed Limiting

- Short haul fleet = 58 MPH
- Over the road fleet = 62 / 65MPH
 - Violators are reduced to 60 for one year.

Vehicle Stability Controls

Roll stability truck and trailer

Active Alert to the Driver Report to Manager / Coach

Document for Protection & Training



ADMINSTRATIVE CONTROLS

Distracted Driving Policy

Coach the Experienced Driver (Video)

Defensive Driver Coaching / Training

Driver Meetings

Media Releases/Newsletters

Trained - Driver Trainers & Examiners

Policies & SOPs to include driver accountabilities





PPE

Proximity Controls

Less or no "Reaching".

Seat Belts

- Creating the "Visual Standard"
- Seat Belt Chimes

Blue Tooth Technology (OEM Installed)

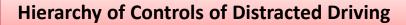
Hands Free noise cancelling

Active / Passive autonomous intervention

- Adaptive cruise control
- Active visual and audible alerts

Vehicle Based Video - Protect Driver and Company

Frivolous actions



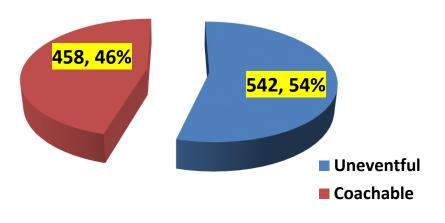


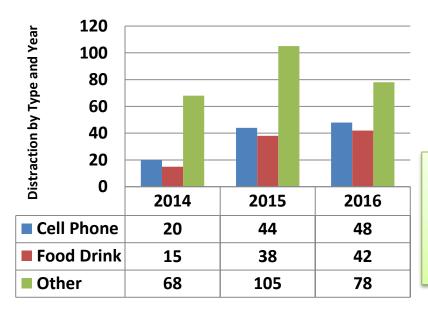




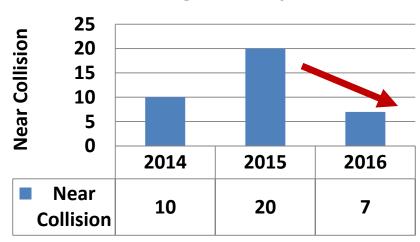
Does it give you the data you need?

Total Distractive Activity 2014 - 2016





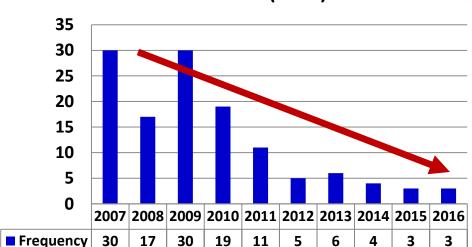
Near Collision From a Distracting Event by Year



Action Items

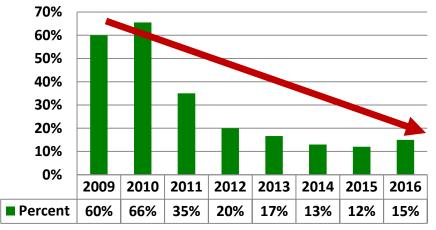
- ✓ Increase accountability for Cell Phone (24%)
- √ Focus on drivers who repeat behaviors (13%)
- ✓ Near Collision IRB Review (required)

Crashes Arising From Distracted Driving 10 Year Trend (CMV)

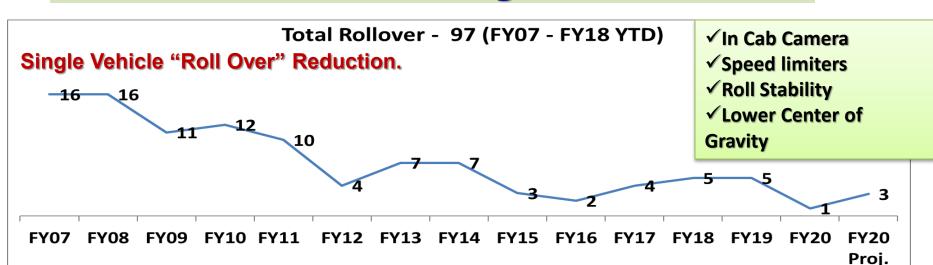


Does it make sense?

Percent of Total Crashes Attributed to Distracted Behavior (CMV)

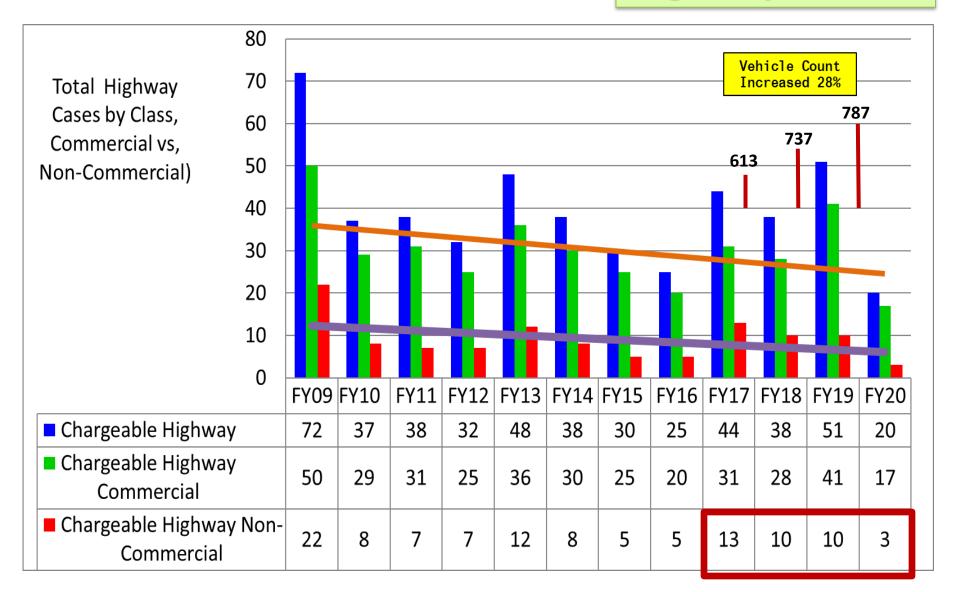


Does it reduce management time?



Does it Add Value?

Non-Commercial Highway Crashes



SUBSTITUTION

Mobile Device Blocking

(February, 2019) Deployed onto about 200 company phones and non-commercial vehicles.

App goes on the phone





- Cell Blocking Device allows all Bluetooth calls in and out. Allows voice receiving and dialing. Allows emergency dialing.
- Cell Blocking Device blocks when the vehicle is in motion calls, textmessages, email, apps, etc.,
- Autoreply turned on will send a message that the recipient is driving, and will notify the driver of missed calls, etc.
- Defines driver versus passenger. Blocks driver. Passengers can override the app.

Hierarchy of Controls of Distracted Driving

Installation Steps / Your device should be labeled with your vehicle number





Pull the tab



Remove red backing

USB port facing down Center it under the rearview mount



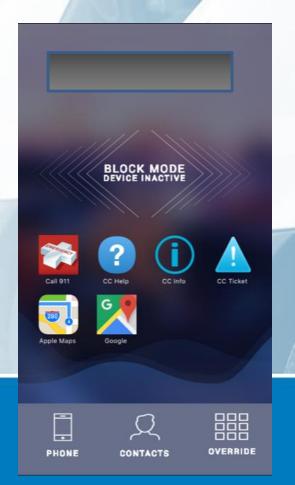
How It Works

----- BEFORE -----



Incoming calls, facetime, texts, FB, emails, snapchats, etc.

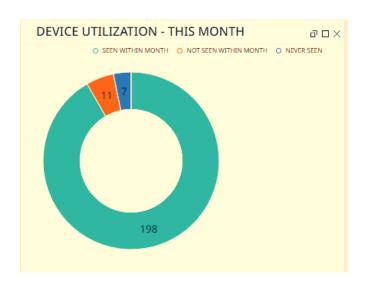
When the vehicle is in motion



Perdue Pilot

Non-Commercial Drivers Company Cell Phones Company Assigned Vehicles



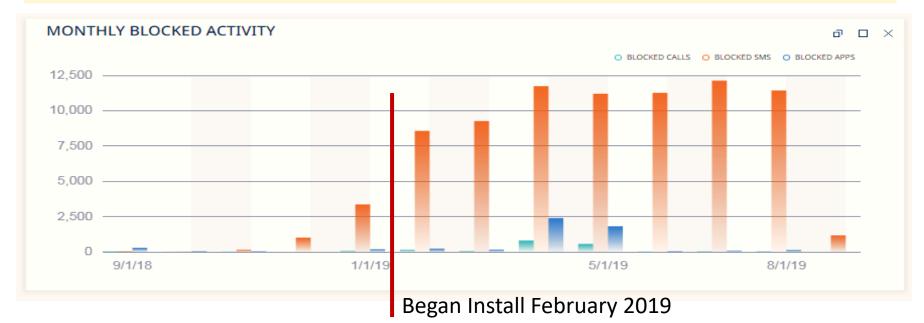




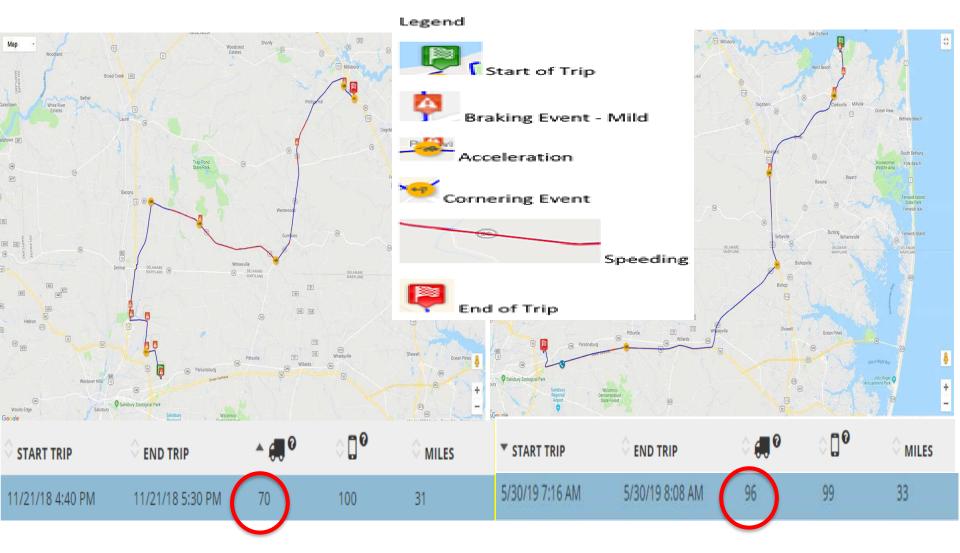








Driver Performance Improvement



Truce/Cellcontrol phone Dashboard



Study Group Results YTD

- Target Study Group = 200 +- noncommercial drivers
 - Target Study Group 22%
 reduction in highway crashes
 - Target Study Group has ZERO chargeable highway crashes since Feb. 2019

Take Away's

- Fleet Telematics can & does reduce Distracted Driving
- Technology is not a Silver Bullet
 - Must have management & driver engagement
 - Provide regular training on distracted driving
 - Create recognition for compliance & use of systems
 - Focus "Behavioral Management" on "Repeated Behaviors" & appropriate HR actions as needed
- Finally, use of Cell Blocking technology, Event
 Onboard Recording Devices & other vehicle
 telematics systems have changed the way drivers
 drive in a positive way

Questions

