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# 8TH ANNUAL DISTRACTED DRIVING SUMMIT

SEPTEMBER 16-17, 2021

VIRGINIA BEACH

Curbing Distraction with Technology

**Orlando's use of fleet telematics and driver monitoring systems to reduce traffic crashes and improve driver safety**

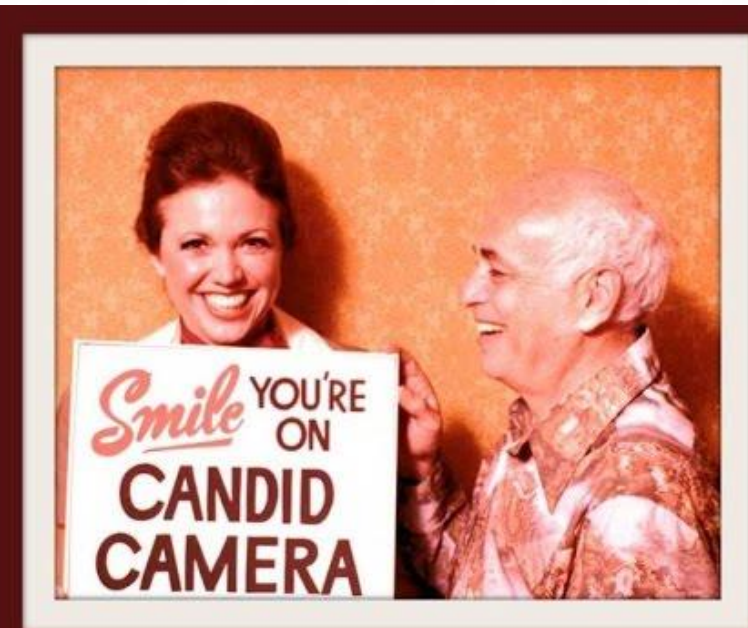
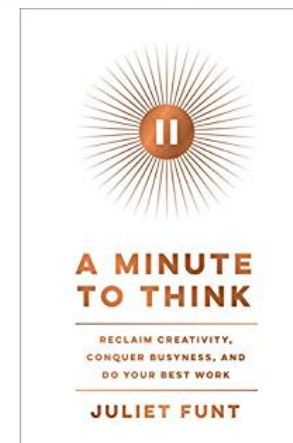
It is change, continuing change, inevitable change, that is the dominant factor in society today. No sensible decision can be made any longer without taking into account not only the world as it is, but the world as it will be.

**Isaac Asimov**

**This is our current focus!**

- **Dash Cameras/GPS Tracking**
- **Tire Management sensing system**
- **P & P**
- **Union Contract Negotiation**
- **Others.....**

<https://www.julietfunt.com/>



# Cameras (Two types in use)

- Why did we decide to install in vehicle cameras?
  - Solid Waste Truck rollover story.....
- Why did we start with one type and are now changing?
- Risk Mgmt found, funded and decided to apply the 1<sup>st</sup> one with SW & Facilities.  
**(I was told Facilities is volunteering to be guinea pigs in the process too.)**

**--- Pilot > Deploy > Monitor > Measure ---**

- The Pilot resulted in great success and lead to standardization.
- Why did we try a different system?
  - Needed a system compatible with 4G/5G networks.

**--- What is our future planning? ---**

- Expanding system to entire Fleet (to include non-powered equipment)



# PROS

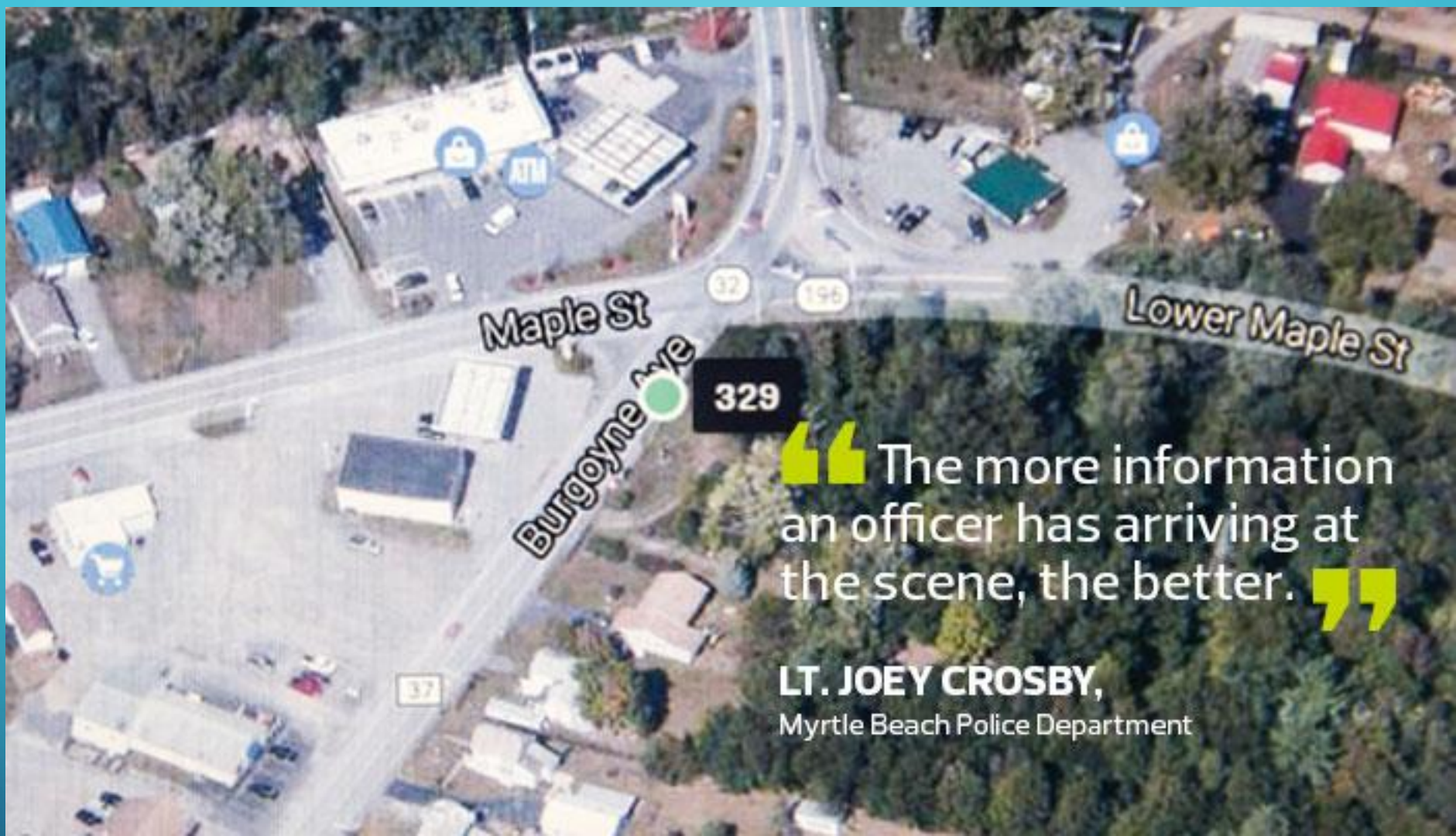
- **Bridged systems into one platform vs multiple platforms (previously had 3 proprietary systems)**
- **Instant video retrieval vs 24 - 72 hour wait period**
- **Helicopter viewing capabilities (used for projected emergency response times)**
- **More user control over alerts and other system adjustments**

[www.zonarsystems.com/](http://www.zonarsystems.com/)

[www.lytx.com/en-us/](http://www.lytx.com/en-us/)

[www.samsara.com/](http://www.samsara.com/)






“ The more information  
an officer has arriving at  
the scene, the better. ”

**LT. JOEY CROSBY,**  
Myrtle Beach Police Department

**911 can watch real time advising caller  
and responder of updated information.**

# CONS

- **Existing platforms running simultaneously**
- **Extended rollout period (to avoid gap in services)**
- **Large quantities of unusable hardware (outdated cameras)**



What to do  
with the stuff?

In work...





# Robust reporting

## LESSONS LEARNED

### DASH CAM BENEFITS

- **Reduce accidents, speeding, and distracted driving**
- **Save money on insurance and accident-related costs**
- **Exonerate not-at-fault drivers from blame**
- **Enhance coaching with video-based review & in-cab alerts**
- **Incentivize good driving behavior**
- **Simplify administrative work**
- **Expedite claim payouts**



[www.orlandosentinel.com/news/os-xpm-2013-05-30-os-orlando-cameras-in-cars-20130530-story.html](http://www.orlandosentinel.com/news/os-xpm-2013-05-30-os-orlando-cameras-in-cars-20130530-story.html)



News

## Cameras in government cars watch road — and driver



Orlando is the latest government in Central Florida to add cameras to many of its vehicles to catch employees who text, don't wear seat belts or show other bad behavior on the road.

Video cameras called 'DriveCam' installed in a City of Orlando vehicle. Orlando is the latest government in Central Florida to add cameras to many of its fleet vehicles. (Red Huber, Orlando Sentinel)

By **Mark Schlueb**, Orlando Sentinel

# Tire Management

- **In the Spring of 2020, the City of Orlando moved forward with deploying a smart tire sensing technology on 71 Solid waste trucks**
- **First 60 days of deployment:**
  - Tire outfitted with the tech:**
  - # of low pressure alerts: 771**
- **Last 60 Days:**
  - Tire outfitted with tech:**
  - # of low pressure alerts: 336**





[www.revvo.ai/](http://www.revvo.ai/)

1 Tire related data is captured from Revvo sensors and transmitted to Revvo Cloud.

Revvo sensors are placed inside a tire and gathers tire-related information from telematics and onboard vehicle systems. Revvo sensors wirelessly transmit data to the cloud-connected Revvo gateway installed on a vehicle.

2 Machine learning provides actionable insights

Revvo's cloud uses machine learning to analyze raw data and generate actionable insights.

3 Cloud delivered insights

Cloud delivered insights are sent to the Revvo web interface, SMS, email, integrated into other FMIS's or API's

Daily start of shift reports  
generate that show  
actionable data!

# PROS

- **Flat tires with critically low air pressure are proactively identified/corrected saving a significant amount of money, resources, & alleviating tire related road calls**
- **Smart tire system can help fleets extend the life of their tires and casings by up to 30%.**
- **Platform offers real-time alerts**



## CONS

- **Excessive man-power needed to maintain system/controls**
- **Lack of available product due to COVID restraints**
- **False critically low tire pressure alerts (periodically)**

**Fixed this by farming some of the effort out to our tire service contractor.**





## LESSONS LEARNED

- **Outsourcing is a feasible option: The number of unplanned tire repairs during PMs are being minimized because tires are being proactively repaired by the supporting vendor ultimately giving technicians more time to focus on other critical components/repairs.**





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Maryland Distracted Driving Summit

Very cool stuff here!

## Saving Lives

We work to reduce the number of traffic fatalities and injuries.



Policies & Procedures  
Union Contract Verbiage Inclusion  
and FL State Law  
drive our case  
home too!

DRIVE SMART Virginia is a non-profit organization charged with raising awareness and changing behavior in order to improve the safety of the roadways of the Commonwealth. We have endeavored to improve the lives of all Virginians through our public information and education initiatives. Founded in 1995, the organization is led by a diverse board representing safety advocates, the insurance industry and law enforcement.

NEW LOVEWORK  
DRIVES HOME THE  
IMPORTANCE OF  
BUCKLING UP



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VIRGINIA  
DISTRACTED  
DRIVING SUMMIT

8TH ANNUAL  
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VIRGINIA'S  
PROHIBITION ON  
DRIVING WHILE  
HOLDING A PHONE





# Fleet Telematics and driver monitoring systems have changed a lot in my 50 yrs. in Fleet Ops



to a County Govt. fleet

1971 - 1974

Brevard County Schoolboard



1959 - 1966

## My Path



1975 - 1981

to a US  
Navy fleet



1978 - 2006

to an  
Aerospace fleet

2006 - Present



to  
City of Orlando  
fleet & facilities



from a farm

The early days  
1953 - 1959





## My Space Shuttle Days 1978 - 2006

Managed a fleet of **solid fuel boosters** that produce 2,800,000 pounds of thrust each. At liftoff, each produces 12,500,000 newtons and continue to burn for 124 seconds.

**Needless to say Fleet Telematics and driver PILOT Monitoring Systems played a big role in my US Navy & Aerospace careers.**



**My NAVY Days '75 - '81**



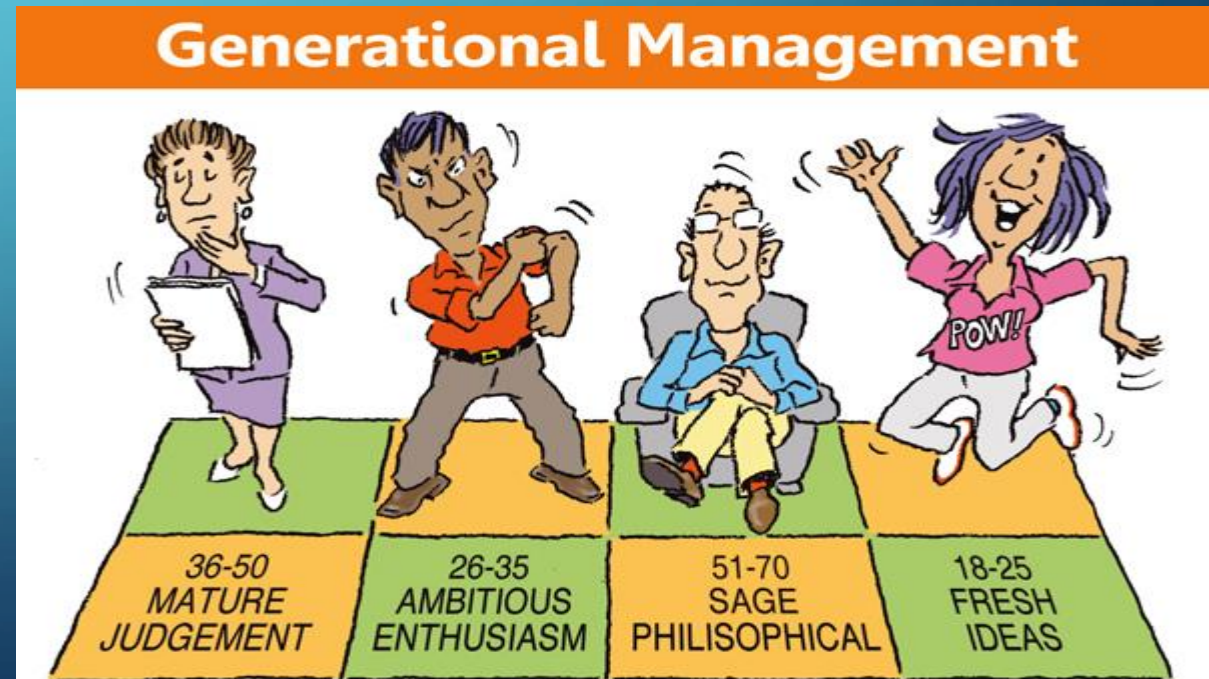
**This Is What 44,000,000 Horsepower Looks Like**






Technology properly deployed and managed is just one part of the solution in driver monitoring systems. Coaching is critical!

And we all have our different ways!





# Red Shoes Living

STAND OUT FOR THE POSITIVE  
IN HOW YOU WORK  
AND LIVE YOUR LIFE

Lonnie Mayne

and there is so  
much more...

<https://lonniemayne.com/>



One more  
suggested reading  
reference



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