



# forward thinking

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**FORWARD THINKING**  
*Stay ahead of the other guys.*

## Forward Thinking Systems®

- Founded in 2005
- Headquartered in Jericho, NY
- Released ADAS & DMS Commercially in 2015
- Multiple Patents Awarded
- International Presence & Global Pioneer

**NEW YORK**  
HEADQUARTERS



**FLORIDA**  
PROFESSIONAL SERVICES



**ARIZONA**  
SALES & PARTNER SUPPORT



**KRAKÓW, POLAND**  
CENTRAL EUROPE HQ



# Product Portfolio

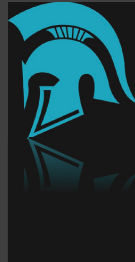
End to end fleet solution



IntelliHub

**Your fleet in a browser.**

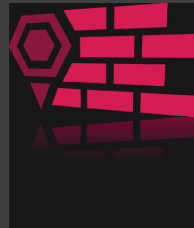
Track, manage, and execute all fleet operations from a seamless single-pane solution.



Field Warrior

**The app for your mobile workforce.**

ELD, Commercial nav, forms, signatures, DVIR and more.



Route Matrix

**More stops in less time.**

Automatically optimize your stops into the most efficient order saving time and fuel.



FleetCam

**Award-winning AI camera solution.**

AI driven All-In-One fleet camera system designed to save lives.



DriveShield

**Empower your drivers.**

Monitor on-road behavior, view historical events, and self coach inn in one easy to use score card system.



# Using Ai to drive Transformation



Maintenance



Fuel Efficiency



Productivity



Service Verification



Reducing Vehicle Wear



Safety



Fleet Utilization



Route Optimization



Compliance



Automation is driving much of this transformation...

# Autonomous vehicle **technology**

## LEVELS OF AUTONOMY

Society for Automotive Engineers (SAE) outlined 6 levels of automation for automakers, suppliers, and policymakers to use to classify a system's sophistication



# Mixed fleets

1

Pre ADAS & DMS

2

Embedded ADAS & DMS

3

Connected ADAS & DMS

4

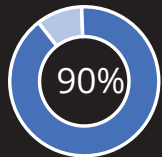
Autonomous + Connected

Regardless of what's in your fleet, the stats need to be addressed.



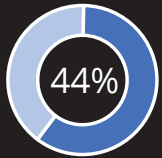
# The stats on Safety & Efficiency

## Accident Statistics



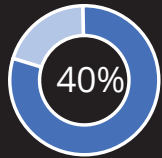
of rear end accidents can be prevented with 1.5 seconds of advance warning.

[1] National Transportation Safety Board



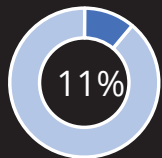
of non-performance driver-related crashes are due to falling asleep while driving.

[2] National Highway Traffic Safety Administration



of all driver-related crashes are due to driver inattention.

[2] National Highway Traffic Safety Administration



reduction in crashes when the vehicle has a lane departure warning system installed.

[3] Insurance Institute for Highway Safety

## Fuel Efficiency Statistics

25%

lower gas mileage due to harsh acceleration on average

[1] US Department of Energy

17%

average reduction in gas mileage due to speeding 5-10mph above limits

[2] Virginia Tech Transportation Institute

66%

of all fleets suffer from excessive idling issues.

[3] National Truck Equipment Association

12%

average fuel savings with a properly deployed telematics system

[4] Insurance Institute for Highway Safety

How do you address a mixed fleet?

# Mixed fleets

1

Pre ADAS & DMS

2

Embedded ADAS & DMS

3

Connected ADAS & DMS

4

Autonomous + Connected

# Ai Event Detection



DMS (Driver Monitoring System)

ADAS (Advanced Driver Assistance System)

Harsh Driving Events

## ADAS



### Follow Distance Warning

Driving too closely to the vehicle ahead



### Forward Collision Warning

Accelerating too quickly relative to the vehicle ahead



### Lane Departure

Vehicle changed lanes without signaling



### Rolling Stop Sign

Vehicle didn't come to a complete stop



### Pedestrian Warning

Pedestrian detected in front of vehicle



### Driver Distracted

Driver's eyes are not sufficiently focused on the road



### Driver Falling Asleep

Falling asleep or strong fatigue



### Driver Smoking

Driver smoking a cigarette detected



### Driver Using Cellphone

Driver holding cellphone to their ear



### No Seat Belt

Driving without seat belt detected



### Harsh Cornering

Vehicle turned a corner too harshly



### Harsh Accelerating

Vehicle accelerated too harshly



### Harsh braking

Vehicle decelerated too harshly

## DMS

## Harsh Events

## Other

## System Events



### No Driver Detected

Driver facing camera can't see the driver



### SOS / PTO Event

Custom power take-off event (SOS button or other)



### Camera Covered

Camera's view is completely obscured



### Low Voltage

Vehicle-battery voltage dropped below threshold



### Memory Error

An error occurred in the camera's storage system



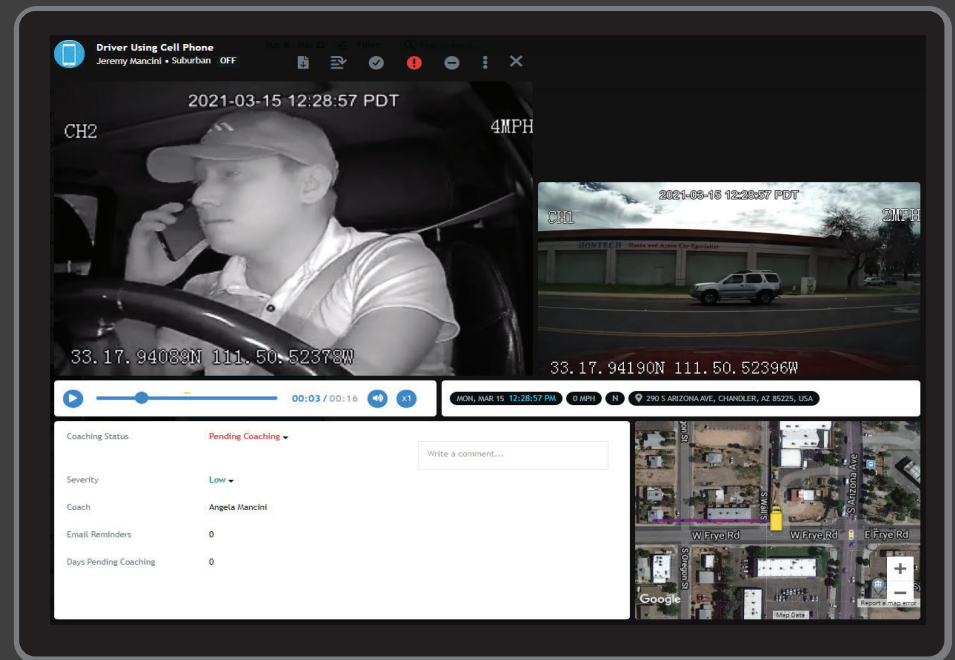
### Video Loss

A camera is not providing video (malfunction or unplugged cable)



# In-Vehicle Experience

# Administrative Experience



# How to effectively implement

## Understand your fleet

- Current technologies
- Future vision
- Vehicle & Equipment Types

## Develop a strategy

- Deployment plan
- Driver training
- Reporting & Analytics
- Automation
- Regular Reviews

## Allow drivers to self-improve

- In-cab feedback systems
- Automated coaching
- Incentives
- Proper follow-up when necessary



Solutions | Ideas | Helpful Resources

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