



# **Lytix and AlertMeter at Delta Air Lines Onboard Services**



**February 11, 2026**

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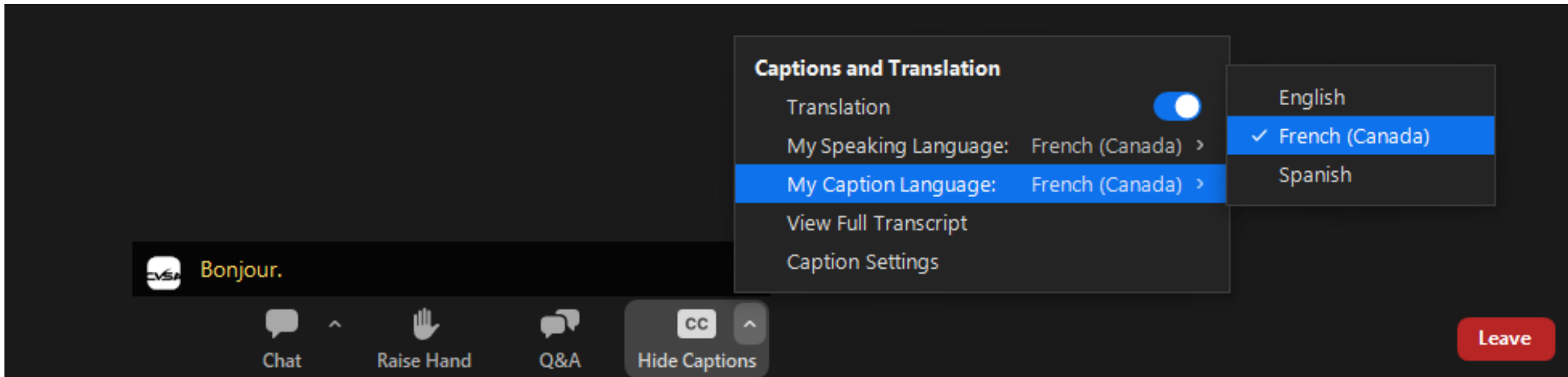
Recording will be available afterwards at

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# Featured Speaker



**Jeffrey Sease**

Chief Operating Officer

**Predictive Safety**

[predictivesafety.com](http://predictivesafety.com)

[Jeff.Sease@PredictiveSafety.com](mailto:Jeff.Sease@PredictiveSafety.com)

+1-303-902-9511

# Featured Speaker



**Kevin Cho**

Enterprise Senior Client Success Manager

**Lytx, Inc**

[lytx.com](https://lytx.com)

[Kevin.Cho@Lytx.com](mailto:Kevin.Cho@Lytx.com)

+1-858-290-4640

# Featured Speaker



## **Rachelle Allen, CSP**

Regional Manager Onboard Services Safety and Security

**Delta Airlines**

[delta.com](https://delta.com)

[Rachelle.Allen@Delta.com](mailto:Rachelle.Allen@Delta.com)

+1-470-787-9173



## **Rodolfo Giacomani**

Fatigue Management Specialist

**Commercial Vehicle Safety Alliance**

[cvsa.org](http://cvsa.org)

[Rodolfo.Giacomani@CVSA.org](mailto:Rodolfo.Giacomani@CVSA.org)

+1-202-998-1830

1. Fatigue Management and Vendor Solutions
2. Lytx and AlertMeter at Delta Air Lines Onboard Services Presentation
3. Questions



- Neither CVSA nor the NAFMP endorses or recommends any specific product or service
- The claims and system specifications of vendors have not been validated by CVSA or the NAFMP
- Solutions are a key component of a Fatigue Management Program

# Fatigue Management Program



## ➤ Safety Culture

- 1) Education
- 2) Training
- 3) Continuous communications – Including partnerships

## ➤ Fatigue Risk Management System

- 1) Operations
- 2) Identify risks with processes and controls
  - Predictive, proactive, reactive
  - Sound scheduling & routing practices, sleep disorders management program, and fatigue detection technologies
- 3) Risk assessment
- 4) Measures and countermeasures
- 5) Evaluation

- Tools
  - FMP Template
  - Implementation Manual
  - ROI Calculator
- Courses
  - eLearning Platform
  - PowerPoints with and without audio
  - For carrier's executives, safety managers, dispatchers, instructors, drivers, driver's families, shippers & receivers
- Webinars, Info Sessions & Articles
  - Gallery
  - List
  - Categories
  - Sign up for article notifications
- Podcast
  - The NAFMP Pod
  - Available from eight platforms
- Events
  - Download individual event
  - Subscribe to Calendar of future events

# Lytx and AlertMeter at Delta Air Lines Onboard Services Presentation



Predictive Safety



DELTA



# AlertMeter® Plus Lytx® with Delta Business Partners

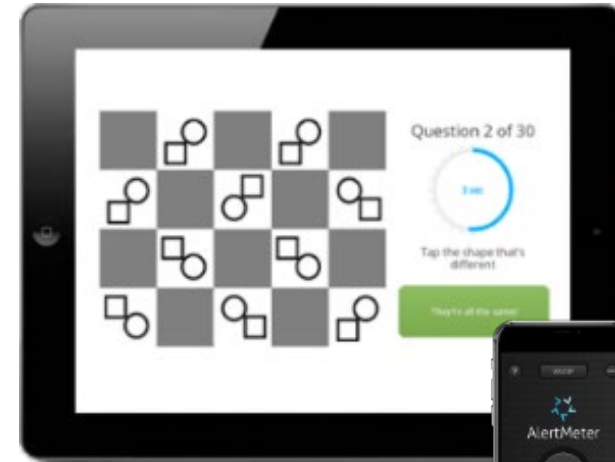


DELTA

lytx

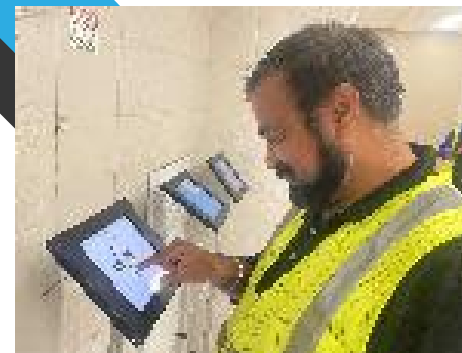
*Working together to reduce Human Factor Risk*

Powered by  PS Predictive Safety



All Departments: 79 employees checked in

Employee ID	Employee Name	Department	Shift	Start Time	End Time	Status	Score
1000001	John Doe	IT	Day	08:00	16:00	Pass	100%
1000002	Jane Smith	IT	Day	08:00	16:00	Pass	100%
1000003	Mike Johnson	IT	Day	08:00	16:00	Pass	100%
1000004	Sarah Lee	IT	Day	08:00	16:00	Pass	100%
1000005	David Kim	IT	Day	08:00	16:00	Pass	100%
1000006	Emily White	IT	Day	08:00	16:00	Pass	100%
1000007	Chris Brown	IT	Day	08:00	16:00	Pass	100%
1000008	Alex Green	IT	Day	08:00	16:00	Pass	100%
1000009	Mia Black	IT	Day	08:00	16:00	Pass	100%
1000010	Noah Grey	IT	Day	08:00	16:00	Pass	100%
1000011	Olivia Pink	IT	Day	08:00	16:00	Pass	100%
1000012	Liam Blue	IT	Day	08:00	16:00	Pass	100%
1000013	Sophia Yellow	IT	Day	08:00	16:00	Pass	100%
1000014	Lucas Purple	IT	Day	08:00	16:00	Pass	100%
1000015	Isabella Red	IT	Day	08:00	16:00	Pass	100%
1000016	Ethan Orange	IT	Day	08:00	16:00	Pass	100%
1000017	Ava Green	IT	Day	08:00	16:00	Pass	100%
1000018	Michael Blue	IT	Day	08:00	16:00	Pass	100%
1000019	Charlotte Yellow	IT	Day	08:00	16:00	Pass	100%
1000020	Benjamin Purple	IT	Day	08:00	16:00	Pass	100%
1000021	Emily Red	IT	Day	08:00	16:00	Pass	100%
1000022	James Orange	IT	Day	08:00	16:00	Pass	100%
1000023	Mia Green	IT	Day	08:00	16:00	Pass	100%
1000024	David Blue	IT	Day	08:00	16:00	Pass	100%
1000025	Ava Yellow	IT	Day	08:00	16:00	Pass	100%
1000026	Michael Purple	IT	Day	08:00	16:00	Pass	100%
1000027	Charlotte Red	IT	Day	08:00	16:00	Pass	100%
1000028	Benjamin Orange	IT	Day	08:00	16:00	Pass	100%
1000029	Emily Green	IT	Day	08:00	16:00	Pass	100%
1000030	James Blue	IT	Day	08:00	16:00	Pass	100%



# AGENDA

- Introduction
- Current Strategies to Address Fatigue in Driving
- Filling the Gap - Introduction to AlertMeter
- Case studies
  - Delta Business Partner Case Studies
  - WMATA – Bus Drivers
- Questions and Answers



**Kevin Cho**  
Enterprise Senior  
Client Success Manager  
Lytx®



**Rachelle Allen**  
PMOSH, CSP  
Regional Manager Onboard Services OBS  
Safety and Security  
Delta Air Lines



**Jeff Sease**  
COO Predictive Safety

# How are we currently addressing Driver Fatigue Risk?



Compliance



Journey Management



Risk Identification and  
Intervention via  
Camera Systems





**PROTECTING A  
WORLD IN MOTION**

Every day, you send your most valuable assets into the world. Your people. Your equipment. Your reputation.

Lytx gives you the tools to manage and protect **all the assets you have in motion** – helping you stay connected with your field operations so you can focus on delivering value and growing your business.

# About Lytx®

Lytx gives companies the tools to protect all the assets they have in motion – their people, their equipment, and their reputation. Our products and services help customers stay connected with their field operations so they can focus on delivering value and growing their businesses.

## 5,500+

fleets worldwide including:  
7 of the top 11 for-hire carriers in North America

## 27 YEARS

of video safety and video telematics leadership

## 5.5 MILLION

drivers protected worldwide

## 1.3 MILLION

subscriptions booked

## 311 BILLION+

miles of driving data captured and analyzed

## \$1.8 BILLION

in client savings on claims in 2023

## 89+ COUNTRIES

across six continents, including North America, South America, Europe, Africa, Oceania, and Asia

## 225+ PATENTS

awarded or pending worldwide, 186 in the U.S.

**What if we could detect fatigue BEFORE an operator is behind the wheel  
and  
Go beyond compliance in predicting fatigue?**



# AlertMeter® + Lytx® Working Together

Lytx detects fatigue and other driving events throughout the trip, providing continuous opportunity for intervention

AlertMeter® DETECTS fatigue before the operator is behind the wheel and PREDICTS fatigue based on LEADING INDICATORS

AlertMeter + Lytx together show the entire picture

# AlertMeter® Detection

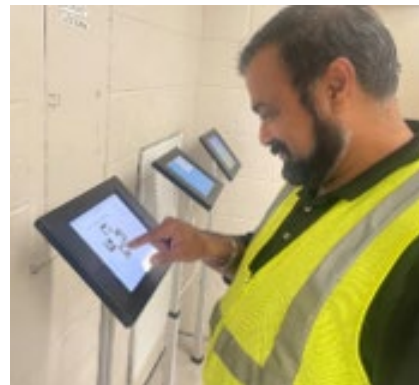
## *Fatigue and Impairments that are going to happen beyond your control*

AlertMeter® measures the Operator's response compared to their individual baseline and gives a top-level indication of *within normal range*, ("green") or *outside normal range* ("red" or ONR).

***Scoring outside of normal range on AlertMeter® is an indicator for potential impairment due to lack of sleep, emotional distress or substance abuse.***

AlertMeter® does not identify the cause; ***it starts an objective safety conversation based on data.***

***DOES NOT RESTRICT HOURS***



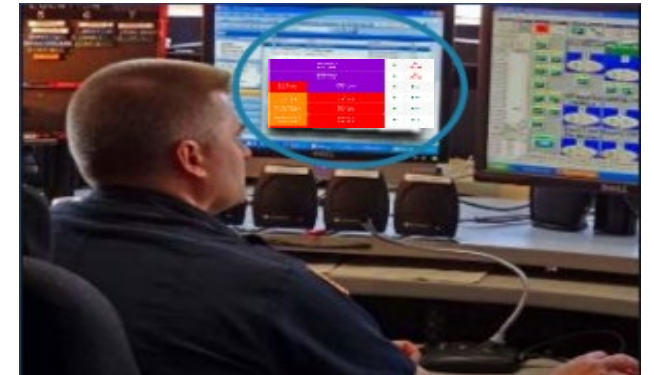


# AlertMeter® Prediction

*Predicting Fatigue Risk you can manage i.e. hours, callouts, overtime etc)*

The optional AlertMeter® Predictive FRMS (Fatigue Risk Management System) and biomathematical circadian model provides a real-time fatigue prediction dashboard with manager insights regarding who on their team is at the most risk from fatigue due to shift pressure, shift rotation, overtime, etc.) in that moment and through the remainder of the shift.

**PROVIDES A COMPREHENSIVE view of fatigue risk throughout the workday**

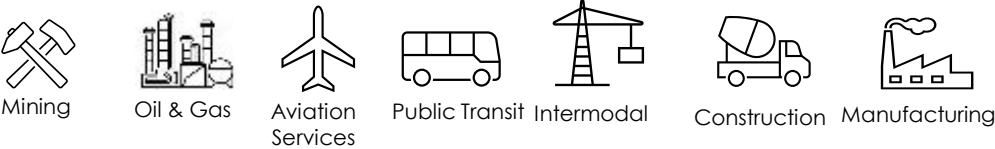




Predictive Safety SRP, Inc is THE leading developer and global provider of technology to predict fatigue and detect impairment from fatigue and other factors.

"Predictive Safety is deeply committed to facilitating sustainably safe and operationally excellent workplaces using data analytics to identify and manage behaviors and other leading indicators before safety risks can turn into incidents or production issues. Predictive Safety helps employers pinpoint fatigue and alertness behaviors to identify human risk factors in real time that are likely to lead to incidents causing injuries, slow down, product damage or lack of efficiencies. Our systems facilitate actionable solutions to manage risks and protect your most important asset, your people"

Jeff Akers - CEO



Software to drive operational excellence

Safety and Performance

Human Factor KPI's

Management Engagement

Worker Wellness

Technical Innovation

Risk Mitigation

45,000+ Workers Monitored

AlertMeter®

THE ONLY SOFTWARE VALIDATED TO PREDICT FATIGUE AND DETECT IMPAIRMENTS IN 45 SECONDS

Patented and Proven



Scientific Validations and Supported Fatigue and IT Standards

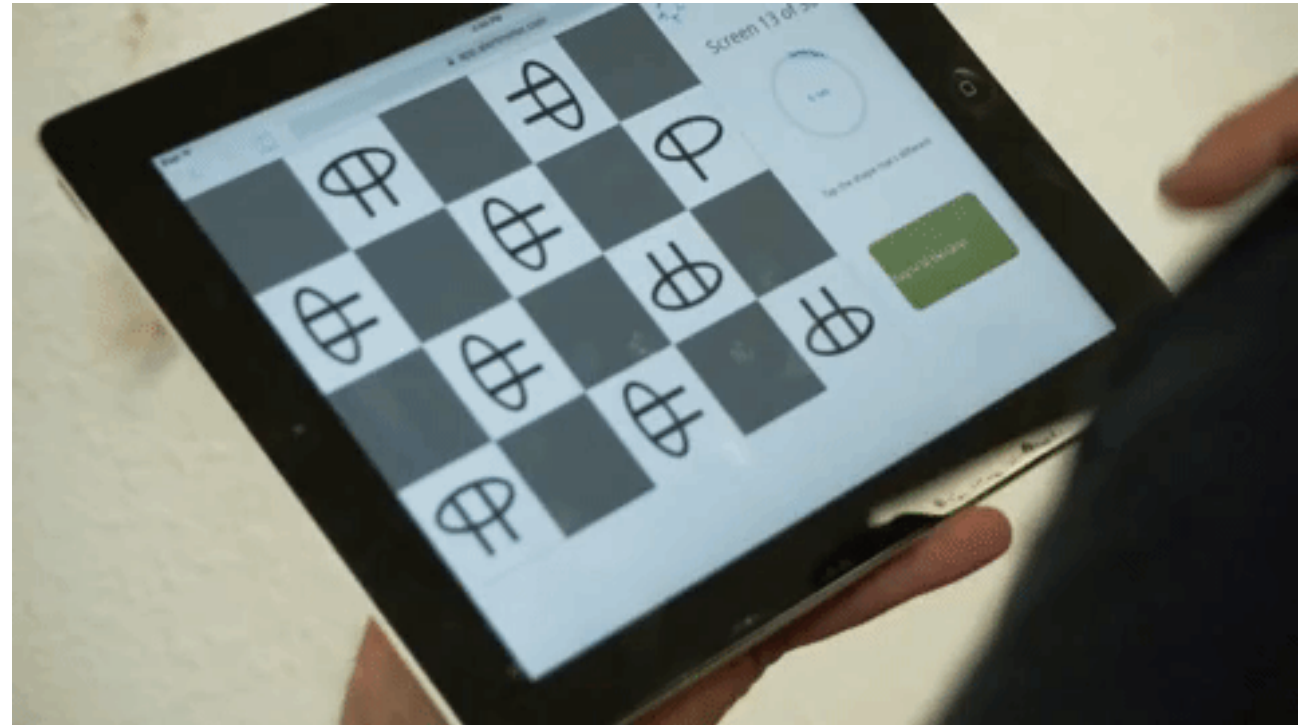


# Executing the Assessment

21 screens, You have 4-6 seconds to respond to each  
**AVERAGE TIME AFTER LEARNING = 45 SECONDS**

Tap the shape that is  
different

If they are all the same,  
tap the **GREEN BUTTON**



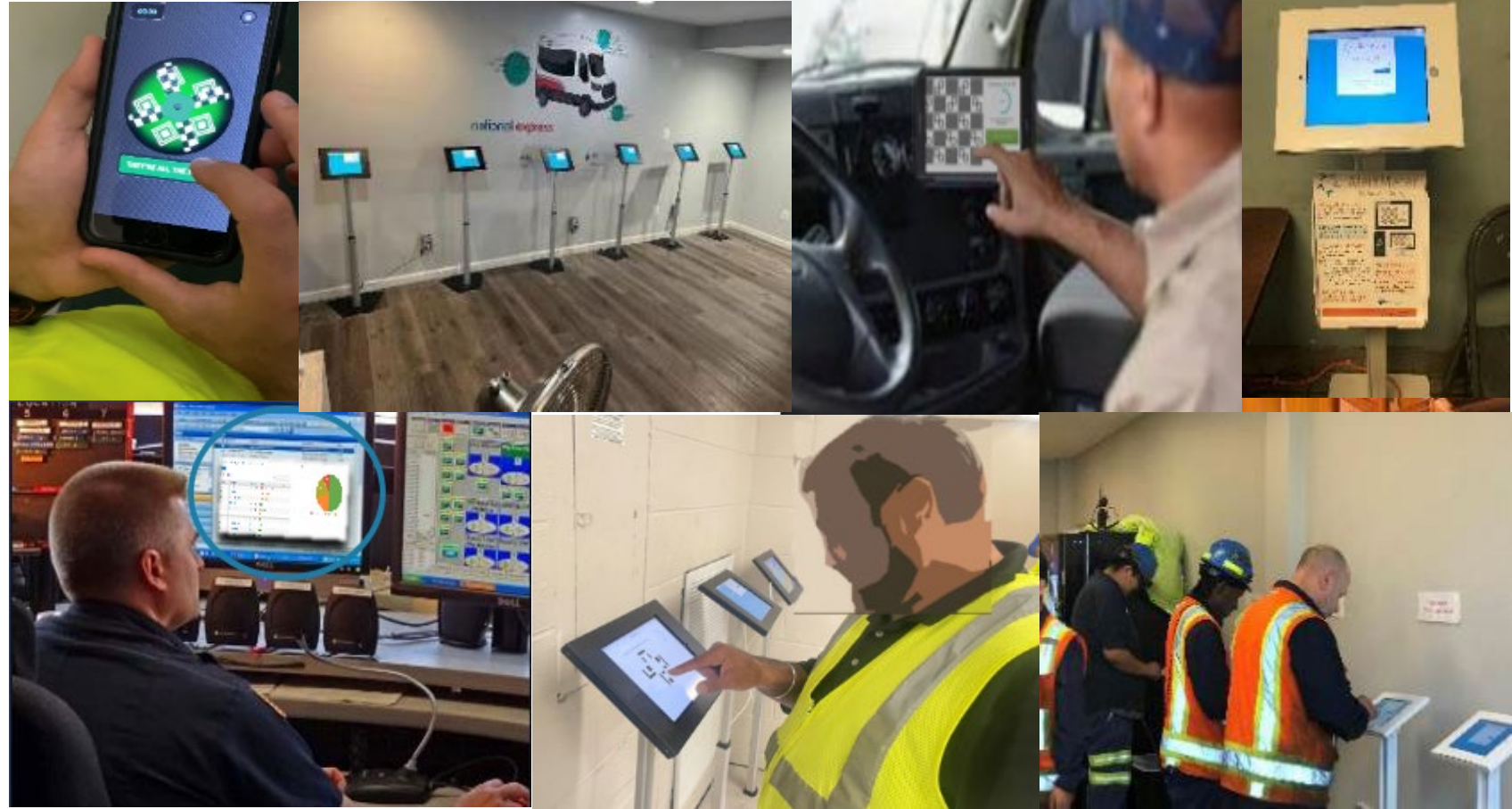
Actions measured for speed and accuracy by millisecond and compared to personal baseline



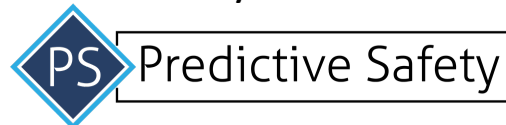
# AlertMeter® - Setup and Science



Device Agnostic,  
SaaS Based  
45 Seconds  
Non-Discriminatory  
Language Agnostic  
Scientifically Validated  
Patented



Top Level Screen that Starts a Conversation  
Confidence that your team is arriving to work rested, alert and ready for work



Proprietary and Confidential

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

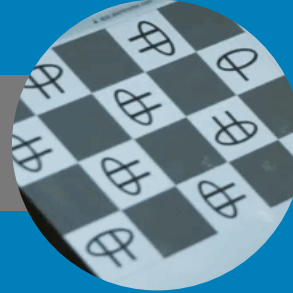
# Day In the Life with AlertMeter®

1

Clock in as normal  
Use Badge ID to  
Login to AlertMeter

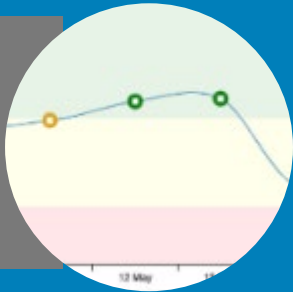


Execute 45  
second game



2

- Alertness level is compared to personal baseline.
- 97% of results are OK to proceed (Green Score)

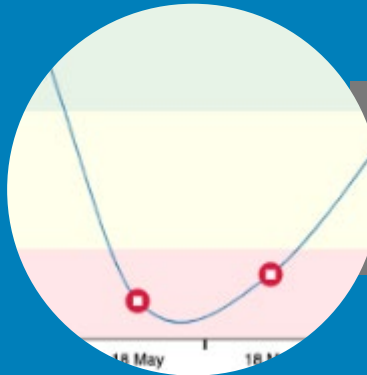


4

Failure to Score Green in two tries  
= See a manager. Notifications are  
also sent

3

In cases of severe deviation from baseline,  
employees fail to score green after two tries  
(Outside Normal Range) ~3% of all games



5

Manager provides coaching, Relies on company policy to determine disposition

- Fitness for Duty
- Reasonable Suspicion
- If no violation of policy is found, operator may be assigned to non safety sensitive duty or simply monitored throughout the day



Peri Eryigit scored below their  
baseline on November 24 at  
11:26 AM.

# AlertMeter “Game” Science

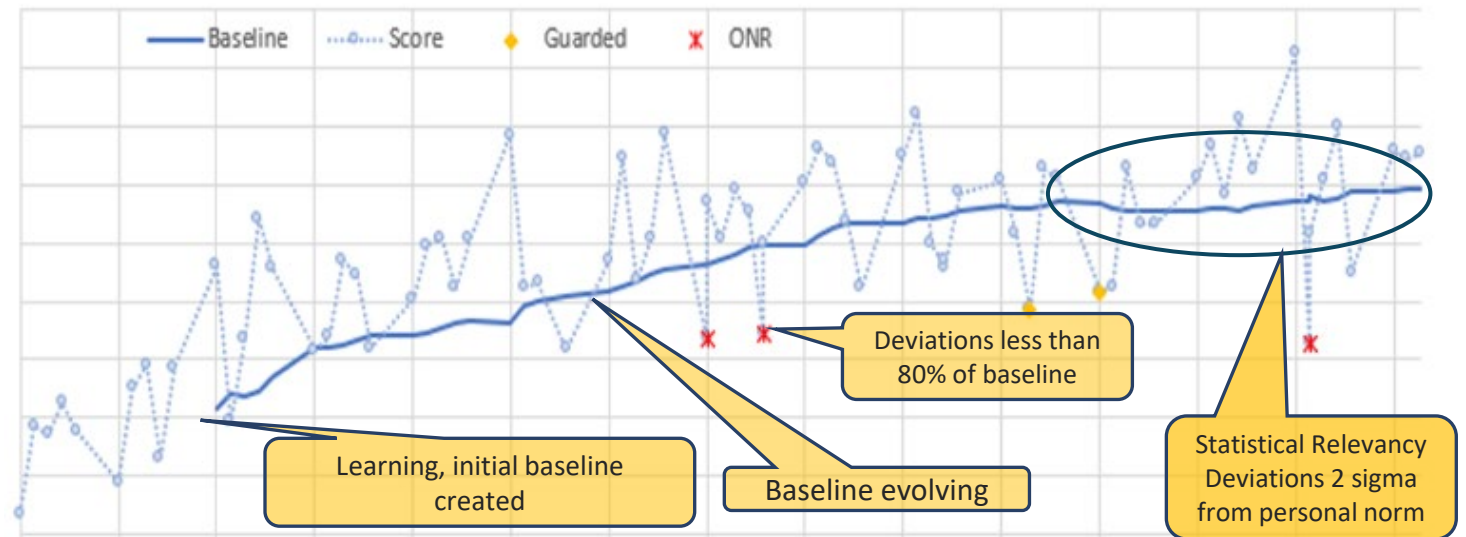
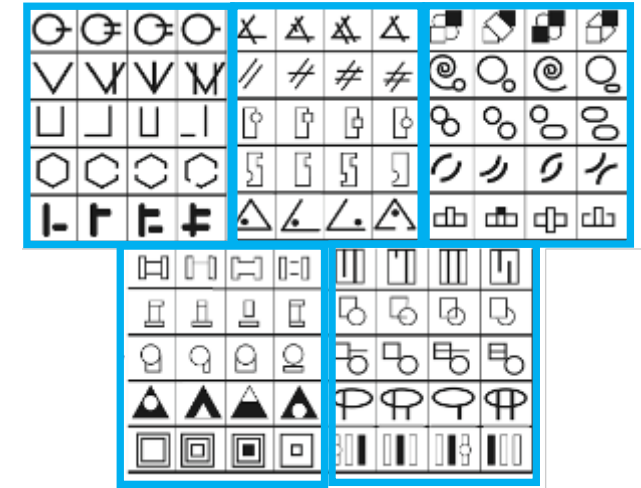


- Invented as a response to Exxon Valdez
- Original science modeled after NASA PVT
- Funded by NIOSH
- 14 Patents
- Field Tested in South African Mining Environment

## NIOSH Grant Requirements

- ✓ Language independent
- ✓ Non-Discriminatory,
- ✓ No Personal Information

- Entirety of shapes in AlertMeter
- Proclivity to shape families provides higher statistical relevancy



## Baseline Example:

- Each point represents a test,
- Dark blue line=baseline. 10 Scores over 4 Days for rudimentary baseline
- Red dots = scores outside of acceptable limits. (2 standard deviations)





# Washington Metro Transit Authority Controlled Case Study



## 2 YEAR STUDY – WASHINGTON DC METRO BUS 2023, 2024

### Significant Reduction in the following areas

- Total number of unique individuals tested: 2,015
- Participation Rate 99.65%
- Total Driver Pullouts – One Test For Each: 416,540
- Total Evaluations performed 5,202 (1.3% of all tests taken)
- Total Evaluations resulting in a driver being restricted from driving on that day: 1,099 (out of 416,540) (21% of 1.3%)

#### Drive Cam Trigger Reductions

#### Telematics Reports Reductions

Cornering triggers

Rough,/uneven surface triggers

Other triggers

#### Incident Reductions

Incident Frequency Rate

Preventable Incident Rate

NTD Major Event Rate

Customer Injury Rate

Employee Injury Rate

There has been no negative impact on-time performance.



# Documented Results during the Study

- “The operator was not focused, during self-evaluation the operator mentioned the loss of her mother, which is a possible reason for the ONR. The operator has not ONR in long time. In conclusion the operator is not authorized for service”.
- “During the interview with the operator, the operator self-admitted that he had been ill and was taking medication for the illness and although he felt better, he was not quite 100%. The operator was not fit for normal duty”
- “The possible cause of the ONR could have been due to outside stressors. The operator normally scores ok. Today he expressed that he was not feeling his best after recovering from an episode of gout. I advised him to go home and get some rest so can be 100% and alert for his next shift”
- “The operator showed signs of fatigue while being interviewed by management. The operator had delayed responses, bloodshot eyes, yawning, and consistently rubbing his face. The operator was evaluated and referred to HR for further evaluation”
- “The operator appeared fatigued while engaged in conversation with management. I observed the operator staring in one direction, slow reaction, and unable to answer questions. He expressed that he has been working overtime because of outstanding bills. I informed the operator about the importance of getting rest. The operator was evaluated and put on restricted duty”

# Device Setup at WMATA





# Weekly AlertMeter® Summary



4/13/2025 10:01:46 PM GMT

## Last Two Weeks Score Card

Week of Dates	% Participation	Participation Goal	% Alertness Risks	Alertness Risk Goal	% Preventative Care	Preventative Care Goal	% Alertness Leader	Alertness Leaders Goal
4/6/25	92.91%	Goal 100%	3.8%	Goal 2%	16.4%	Goal 8%	78.6%	Goal 90%
3/30/25	92.12%	Goal 100%	3.5%	Goal 2%	18.7%	Goal 8%	76.3%	Goal 90%

PREDICTIVE SAFETY, SRP 951 20th Street Unit #13467 - Denver, Colorado 80201 [720-383-4963](tel:720-383-4963) - [www.predictivesafety.com](http://www.predictivesafety.com)

## HUMAN FACTOR KPI's & Reporting

## Last Two Weeks AlertMeter® Participation

Week of Dates	# Users	
4/6/2025	78	92.9%
3/30/2025	78	92.1%

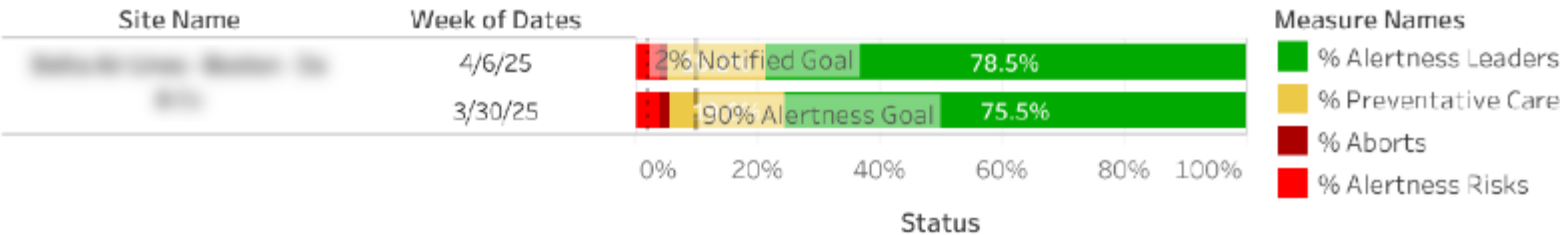
## Last Weeks AlertMeter® Performance and Risk Summary

% Alertness Risk Goal - Scored Outside Normal Range Goal < 2%

% Aborts - Aborted Game

% Preventative Care - Scored Single ONR, Guarded or Incomplete < 8%

% Leaderboard - Scored only OK for the day Target > 90%





## Daily, Weekly or Monthly Analysis of % of Hours worked in Fatigue Status Levels by Group or Operator

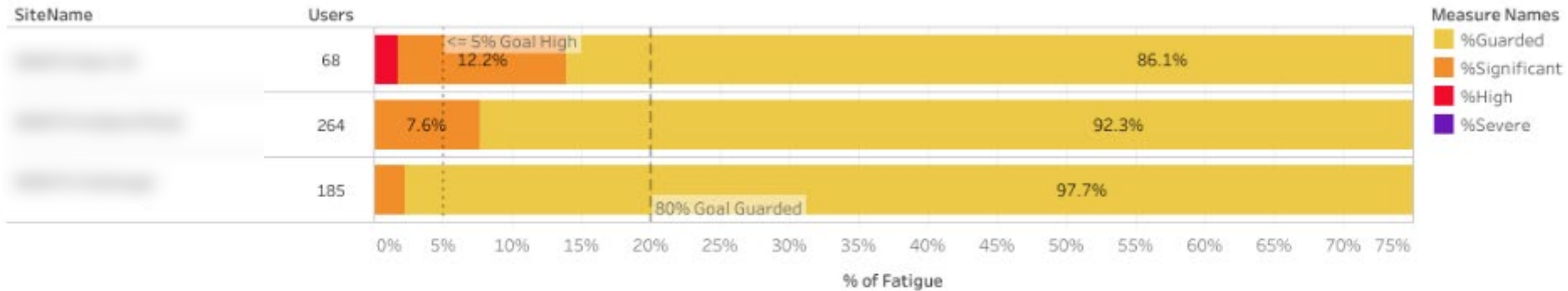
### Fatigue by Site - Last 24 hours and Predicted

**Severe Fatigue (Management Notified) Goal 0% of hours worked**

**High Fatigue (Management Notified) Target <5% of hours worked**

**Medium Fatigue (Operator Awareness) Target <15% of hours worked**

**Normal/Guarded Status Target 80% or Greater**



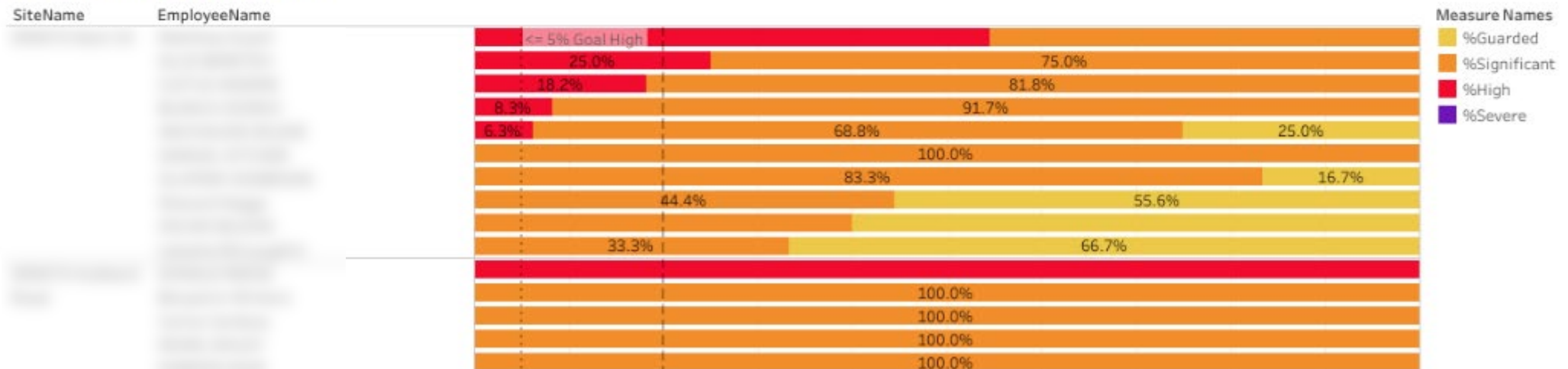
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**Normal/Guarded Status Target 80% or Greater.**





2 Year Case Study: Incident Reductions with Business Partner Ramp Operations

# Metrics Used in the Case Study Analysis

## ARI / GSE Incident Metrics

- Count and rate of Aircraft Related Incidents (ARI)
- Count and rate of Ground Support Equipment (GSE) incidents
- Before vs. after AlertMeter® implementation

## Lytx® Event Metrics

- Count and rate of Driver Condition and other alertness-related events
- Before vs. after AlertMeter® implementation comparison
- Comparisons between early adoption months and later, more mature usage periods
- Event trends aligned to each site's go-live timeline

# Delta Air Lines – 2 Year Case Study: Incident Reductions with Onboard Services Ramp Operators

[1800 Operators, Two Years, Before and After](#)



## Significant reductions in the following areas

- Reduced aircraft related incidents attributable to contractor driver inattention
- Reduction in overall ground support incidents
- Before vs. after AlertMeter<sup>®</sup> implementation showed double digit reductions in Lytx<sup>®</sup> camera events

*(For more detail, please contact Predictive Safety)*

# Two Year Case Study Impact of AlertMeter® on Lytx® Triggers

1800 Operators\*, Two Years, Before and After



## Site 1

### Category-Level Improvements

#### Major Reductions

- Speeding
- Following Distance

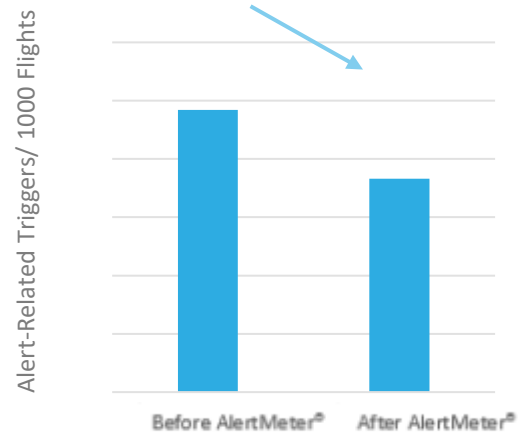
#### Moderate Improvements

- Traffic Violations
- Driver Behavior

#### Consistent Progress

- Driver Condition

### Impact of AlertMeter® on Alertness-Related Triggers



**25% Reduction**

## Sites 2, 3, 4, and 5

### Category-Level Improvements

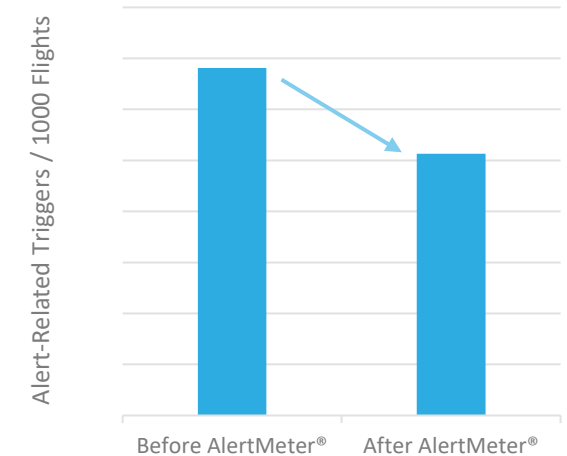
#### Strong Early Impact

- Driver Condition
- Traffic Violations

#### Developing Improvements

- Speeding
- Following Distance

### Impact of AlertMeter® on Alertness-Related Triggers



**25% Reduction**

\* Drivers are contract employees of various business partners

# Lytix<sup>®</sup> Trigger Metrics

Triggers	Site 1	2024/2025 Sites
Speeding	84%	2%*
Traffic Violation	33%	32%
Driver Condition	10%	41%
Following Distance	57%	2%
Driver Behavior	22%	-28%
All Risk Behaviors	25%	25%
All Compliance Behaviors	27%	51%

\*These sites are off airport property where the road speed limit is above the built in speed limit settings in Lytx<sup>®</sup>.

- New 2024/2025 sites show the same early improvement pattern as Site 1 demonstrated in its first year.
- Sites using both Lytx<sup>®</sup> and AlertMeter<sup>®</sup> achieve faster reductions in risky driving behaviors.
- **25% reduction** in overall risk behaviors aligns with improvements seen at mature sites.



# Device Setup Examples at Delta Partner Sites



# Contact us!!



## **Jeffrey Sease**

COO

**Predictive Safety**

[predictivesafety.com](http://predictivesafety.com)

[Jeff.sease@predictivesafety.com](mailto:Jeff.sease@predictivesafety.com)

+1-303-902-9511



# Additional Questions?



Email additional questions to  
[Rodolfo.Giacoman@CVSA.org](mailto:Rodolfo.Giacoman@CVSA.org)

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[nafmp.org/webinars](http://nafmp.org/webinars)

Please complete anonymous survey on this webinar at the end of the Zoom session

**Thank you!**



CVSA®